

PUBLICATIONS:**Khalil A. Abboud, Ph.D.**

- 544) Nadif, Soufiane S.; Pedziwiatr, Jakub; Ghiviriga, Ion; **Abboud, Khalil A.**; Veige, Adam S. Synthesis and Characterization of Group 4 Trianionic ONO_3 - Pincer-Type Ligand Complexes and a Rare Case of Through-Space 19F-19F Coupling. *Organometallics* **2015**, Ahead of Print.
- 543) Guillet, Gary L.; Gordon, Jesse B.; Di Francesco, Gianna N.; Calkins, Matthew W.; Cizmar, Erik; **Abboud, Khalil A.**; Meisel, Mark W.; Garcia-Serres, Ricardo; Murray, Leslie J. A Family of Tri- and Dimetallic Pyridine Dicarboxamide Cryptates: Unusual O,N,O-Coordination and Facile Access to Secondary Coordination Sphere Hydrogen Bonding Interactions. *Inorganic Chemistry* **2015**, 54(6), 2691-2704.
- 542) Sahuja, Rajeev; Kondabolu, Krishnakanth; Cordova-Sintjago, Tania; Travers, Sean; Vincek, Adam S.; Kim, Myong Sang; **Abboud, Khalil A.**; Fang, Lijuan; Sun, Zhuming; Canal, Clinton E.; et al. Novel 4-substituted-N,N-dimethyltetrahydronaphthalen-2-amines: synthesis, affinity, and in silico docking studies at serotonin 5-HT₂-type and histamine H1 G protein-coupled receptors. *Bioorganic & Medicinal Chemistry* **2015**, Ahead of Print.
- 541) Deng, Christopher C.; Brooks, William L. A.; **Abboud, Khalil A.**; Sumerlin, Brent S. Boronic Acid-Based Hydrogels Undergo Self-Healing at Neutral and Acidic pH. *ACS Macro Letters* **2015**, 4(2), 220-224.
- 540) Lee, Yousoon; Sloane, Forrest T.; Blondin, Genevieve; **Abboud, Khalil A.**; Garcia-Serres, Ricardo; Murray, Leslie J. Dinitrogen Activation Upon Reduction of a Triiron(II) Complex. *Angewandte Chemie, International Edition* **2015**, 54(5), 1499-1503.
- 539) Garner, Mary E.; Niu, Weijia; Chen, Xigao; Ghiviriga, Ion; **Abboud, Khalil A.**; Tan, Weihong; Veige, Adam S. N-heterocyclic carbene gold(I) and silver(I) complexes bearing functional groups for bio-conjugation. *Dalton Transactions* **2015**, 44(4), 1914-1923.
- 538) Pascualini, M. E.; Di Russo, N. V.; Thuijs, A. E.; Ozarowski, A.; Stoian, S. A.; **Abboud, K. A.**; Christou, G.; Veige, A.S. A high-spin square-planar Fe(II) complex stabilized by a trianionic pincer-type ligand and conclusive evidence for retention of geometry and spin state in solution. *Chemical Science* **2015**, 6(1), 608-612.
- 537) Thuijs Annaliese E; Christou George; **Abboud Khalil A.** $\text{Mn}_{12}\text{O}_{12}(\text{O}_2\text{CMe})_{12}(\text{NO}_3)_4(\text{H}_2\text{O})_4$: facile synthesis of a new type of Mn₁₂ complex. *Acta crystallographica. Section C, Structural chemistry* **2015**, 71(Pt 3), 185-187
- 536) Pascualini, Matias E.; Di Russo, Natali V.; Quintero, Pedro A.; Thuijs, Annaliese E.; Pinkowicz, Dawid; **Abboud, Khalil A.**; Dunbar, Kim R.; Christou, George; Meisel, Mark W.; Veige, Adam S. Synthesis, Characterization, and Reactivity of Iron(III) Complexes Supported by a Trianionic ONO_3 -Pincer Ligand. *Inorganic Chemistry* **2014**, 53(24), 13078-13088.
- 535) Murray, Leslie J.; Weare, Walter W.; Shearer, Jason; Mitchell, Alyssa D.; **Abboud, Khalil A.** Isolation of a (Dinitrogen)Tricopper(I) Complex. *Journal of the American Chemical Society* **2014**, 136(39), 13502-13505.
- 534) Winkel, Russell W.; Dubinina, Galyna G.; **Abboud, Khalil A.**; Schanze, Kirk S. Photophysical properties of trans-platinum acetylide complexes featuring N-heterocyclic carbene ligands. *Dalton Transactions* **2014**, 43(47), 17712-17720.
- 533) Lampropoulos, Christos; Thuijs, Annaliese E.; Mitchell, Kylie J.; **Abboud, Khalil A.**; Christou, George. Manganese/Cerium Clusters Spanning a Range of Oxidation Levels and CeMn_8 , Ce_2Mn_4 , and

- Ce₆Mn₄ Nuclearities: Structural, Magnetic, and EPR Properties. *Inorganic Chemistry* **2014**, 53(13), 6805-6816.
- 532) Bonsu, Richard O.; Kim, Hankook; O'Donohue, Christopher; Korotkov, Roman Y.; McClain, K. Randall; Abboud, Khalil A.; Ellsworth, Ashley A.; Walker, Amy V.; Anderson, Timothy J.; McElwee-White, Lisa. Partially fluorinated oxo-alkoxide tungsten(VI) complexes as precursors for deposition of WO_x nanomaterials. *Dalton Transactions* **2014**, 43(24), 9226-9233.
- 531) Di Francesco, Gianna N.; Gaillard, Aleth; Ghiviriga, Ion; Abboud, Khalil A.; Murray, Leslie J. Modeling Biological Copper Clusters: Synthesis of a Tricopper Complex, and Its Chloride- and Sulfide-Bridged Congeners. *Inorganic Chemistry* **2014**, 53(9), 4647-4654.
- 530) McClain, K. Randall; O'Donohue, Christopher; Koley, Arijit; Bonsu, Richard O.; Abboud, Khalil A.; Revelli, Joseph C.; Anderson, Timothy J.; McElwee-White, Lisa. Tungsten Nitrido Complexes as Precursors for Low Temperature Chemical Vapor Deposition of WN_xCy Films as Diffusion Barriers for Cu Metalization. *Journal of the American Chemical Society* **2014**, 136(4), 1650-1662.
- 529) O'Reilly, Matthew E.; Nadif, Soufiane S.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. Synthesis and Characterization of Tungsten Alkylidene and Alkylidyne Complexes Supported by a New Pyrrolide-Centered Trianionic ONO₃⁻ Pincer-Type Ligand. *Organometallics* **2014**, 33(4), 836-839.
- 528) Andrus, M. J.; Calm, Y. M.; Knowles, E. S.; Dumont, M. F.; Abboud, K. A.; Meisel, M. W.; Talham, D. R., Influence of particle size on the phase behavior associated with the thermal spin transition of the Prussian blue analogue K_{0.4}Co_{1.3} Fe(CN)₆ center dot 4.4H₂O. *Polyhedron* **2013**, 64, 289-293.
- 527) Cardoso, F. S. P.; Abboud, K. A.; Aponick, A., Design, Preparation, and Implementation of an Imidazole-Based Chiral Biaryl P,N-Ligand for Asymmetric Catalysis. *Journal of the American Chemical Society* **2013**, 135 (39), 14548-14551.
- 526) Chai, J.; Abboud, K. A.; Miller, S. A., Sterically expanded CGC catalysts: substituent effects on ethylene and alpha-olefin polymerization. *Dalton Transactions* **2013**, 42 (25), 9139-9147.
- 525) Estrada, L. A.; Stalder, R.; Abboud, K. A.; Risko, C.; Bredas, J.-L.; Reynolds, J. R., Understanding the Electronic Structure of Isoindigo in Conjugated Systems: A Combined Theoretical and Experimental Approach. *Macromolecules* **2013**, 46 (22), 8832-8844.
- 524) Guillet, G. L.; Sloane, F. T.; Ermert, D. M.; Calkins, M. W.; Peprah, M. K.; Knowles, E. S.; Cizmar, E.; Abboud, K. A.; Meisel, M. W.; Murray, L. J., Preorganized assembly of three iron(II) or manganese(II) beta-diketiminate complexes using a cyclophane ligand. *Chemical Communications* **2013**, 49 (59), 6635-6637.
- 523) Linh, P.; Abboud, K. A.; Wernsdorfer, W.; Christou, G., Synthesis, structure and magnetic properties of Fe(4)(III)Ln(2)(III) (Ln = Gd, Tb, Dy, Ho) and (Fe₄Y₂III)-Y-III clusters. *Polyhedron* **2013**, 66, 205-211.
- 522) Liu, C.; Abboud, K. A., Di-mu-azido-di-azidodi-mu-oxalato-di-histamine-tetra-copper(II) 0.9-hydrate. *Acta crystallographica. Section E, Structure reports online* **2013**, 69 (Pt 6), m337-8.
- 521) Masello, A.; Abboud, K. A.; Wernsdorfer, W.; Christou, G., Mn-8 Cluster with Ferrocene-1,1'-Dicarboxylate Ligation: Single-Molecule Magnetism with Multiple External Redox Centers. *Inorganic Chemistry* **2013**, 52 (18), 10414-10423.

- 520) Mowson, A. M.; Nguyen, T. N.; Abboud, K. A.; Christou, G., Dimeric and Tetrameric Supramolecular Aggregates of Single-Molecule Magnets via Carboxylate Substitution. *Inorganic Chemistry* **2013**, 52 (21), 12320-12322.
- 519) Mullick, A. B.; Chang, Y. M.; Ghiviriga, I.; Abboud, K. A.; Tan, W.; Veige, A. S., Human cancerous and healthy cell cytotoxicity studies of a chiral mu-dicarbene-digold(I) metallamacrocycle. *Dalton Transactions* **2013**, 42 (20), 7440-7446.
- 518) Mullick, A. B.; Jeletic, M. S.; Powers, A. R.; Ghiviriga, I.; Abboud, K. A.; Veige, A. S., Convenient in situ generation of a chiral bis-N-heterocyclic carbene palladium catalyst and its application in enantioselective synthesis. *Polyhedron* **2013**, 52, 810-819.
- 517) Nguyen, T. N.; Abboud, K. A.; Christou, G., A Mn-4 single-molecule magnet with the defective-dicubane structure from the use of pyrenecarboxylic acid. *Polyhedron* **2013**, 66, 171-178.
- 516) Papatriantafyllopoulou, C.; Abboud, K. A.; Christou, G., Mn/Ce clusters from the use of pivalate and chelate ligands: (Mn₈CeIV)-Ce-III, (Mn₂Ce₂IV)-Ce-III, and (Mn₄Ce₂III)-Ce-III products. *Polyhedron* **2013**, 52, 196-206.
- 515) Powers, A. R.; Yang, X.; Del Castillo, T. J.; Ghiviriga, I.; Abboud, K. A.; Veige, A. S., Inorganic click (iClick) synthesis of heterotrinuclear Pt-II/Au-2(I) complexes. *Dalton Transactions* **2013**, 42 (42), 14963-14966.
- 514) Rajan, D.; Quintero, P. A.; Abboud, K. A.; Meisel, M. W.; Talham, D. R., Structural and magnetic properties of four layered dicyanamide-based coordination polymers: M{N(CN)(2)}(2)(DMSO)(2), M = Mn, Fe, Co, Ni. *Polyhedron* **2013**, 66, 142-146.
- 513) VenkatRamani, S.; Pascualini, M. E.; Ghiviriga, I.; Abboud, K. A.; Veige, A. S., Synthesis and characterization of trianionic pincer-type complexes of tantalum(V) including solid (X-ray) and solution (NMR) state assignment of an intraligand N-H-F hydrogen bonding interaction. *Polyhedron* **2013**, 64, 377-387.
- 512) Yang, Yixing; Cohn, Pamela; Eom, Sang-Hyun; Abboud, Khalil A.; Castellano, Ronald K.; Xue, Jiangeng. Ultraviolet-violet electroluminescence from highly fluorescent purines. *Journal of Materials Chemistry C: Materials for Optical and Electronic Devices* (2013), 1(16), 2867-2874.
- 511) O'Reilly, Matthew E.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. Unusually stable tungstenacyclobutadienes featuring an ONO trianionic pincer-type ligand. *Dalton Transactions* (2013), 42(10), 3326-3336.
- 510) McGowan, Kevin P.; O'Reilly, Matthew E.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. Compelling mechanistic data and identification of the active species in tungsten-catalyzed alkyne polymerizations: conversion of a trianionic pincer into a new tetraanionic pincer-type ligand. *Chemical Science* (2013), 4(3), 1145-1155.
- 509) Mukherjee, Shreya; Abboud, Khalil A.; Wernsdorfer, Wolfgang; Christou, George. Comproportionation Reactions to Manganese(III/IV) Pivalate Clusters: A New Half-Integer Spin Single-Molecule Magnet. *Inorganic Chemistry* (2013), 52(2), 873-884.
- 508) Guillet, Gary L.; Hyatt, I. F. Dempsey; Hillesheim, Patrick C.; Abboud, Khalil A.; Scott, Michael J. 1,2,4-Triazine-picolinamide functionalized, nonadentate chelates for the segregation of lanthanides(III) and actinides(III) in biphasic systems. *New Journal of Chemistry* (2013), 37(1), 119-131.
- 507) Lampropoulos, Christos; Murugesu, Muralee; Harter, Andrew G.; Wernsdorfer, Wolfgang; Hill, Stephen; Dalal, Naresh S.; Reyes, Arneil P.; Kuhns, Philip L.; Abboud, Khalil A.; Christou, George.

Synthesis, Structure, and Spectroscopic and Magnetic Characterization of [Mn₁₂O₁₂(O₂CCH₂But)₁₆(MeOH)4]-MeOH, a Mn₁₂ Single-Molecule Magnet with True Axial Symmetry. Inorganic Chemistry (2013), 52(1), 258-272.

- 506) Dubinina, Galyna G.; Price, Randi S.; Abboud, Khalil A.; Wicks, Geoffrey; Wnuk, Pawel; Stepanenko, Yuriy; Drobizhev, Mikhail; Rebane, Aleksander; Schanze, Kirk S. Phenylene Vinylene Platinum(II) Acetylides with Prodigious Two-Photon Absorption. Journal of the American Chemical Society (2012), 134(47), 19346-19349.
- 505) Chen, Hsuan-Ying; Mialon, Laurent; Abboud, Khalil A.; Miller, Stephen A. Comparative Study of Lactide Polymerization with Lithium, Sodium, Magnesium, and Calcium Complexes of BHT. Organometallics (2012), 31(15), 5252-5261.
- 504) McClain, K. Randall; O'Donohue, Christopher; Shi, Zhiwei; Walker, Amy V.; Abboud, Khalil A.; Anderson, Tim; McElwee-White, Lisa. Synthesis of WN(NMe₂)₃ as a Precursor for the Deposition of WN_x Nanospheres. European Journal of Inorganic Chemistry (2012), 2012(29), 4579-4584, S4579/1-S4579/7.
- 503) Castellano, Ronald K.; Li, Yan; Homan, Edwin A.; Lampkins, Andrew J.; Marin, Iris V.; Abboud, Khalil A. Synthesis and characterization of a tris(2-hydroxyphenyl)methane-based cryptand and its triiron(III) complex. European Journal of Organic Chemistry (2012), 2012(24), 4483-4492, S4483/1-S4483/17.
- 502) Guillet, Gary L.; Sloane, Forrest T.; Dumont, Matthieu F.; Abboud, Khalil A.; Murray, Leslie J. Synthesis and characterization of a tris(2-hydroxyphenyl)methane-based cryptand and its triiron(III) complex. Dalton Transactions (2012), 41(26), 7866-7869.
- 501) O'Reilly, Matthew E.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. A new ONO₃- trianionic pincer-type ligand for generating highly nucleophilic metal-carbon multiple bonds. Journal of the American Chemical Society (2012), 134(27), 11185-11195.
- 500) Mukherjee, Shreya; Stull, Jamie A.; Yano, Junko; Stamatatos, Theocharis C.; Pringouri, Konstantina; Stich, Troy A.; Abboud, Khalil A.; Britt, R. David; Yachandra, Vittal K.; Christou, George. Synthetic model of the asymmetric [Mn₃CaO₄] cubane core of the oxygen-evolving complex of photosystem II. Proceedings of the National Academy of Sciences of the United States of America (2012), 109(7), 2257-2262, S2257/1-S2257/9.
- 499) Sarkar, Soumya; McGowan, Kevin P.; Kuppuswamy, Subramaniam; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. An OCO₃- Trianionic Pincer Tungsten(VI) Alkyldyne: Rational Design of a Highly Active Alkyne Polymerization Catalyst. Journal of the American Chemical Society (2012), 134(10), 4509-4512.
- 498) O'Reilly, Matthew E.; Del Castillo, Trevor J.; Abboud, Khalil A.; Veige, Adam S. The influence of reversible trianionic pincer OCO₃- μ -oxo Criv dimer formation ([Criv]2(μ -O)) and donor ligands in oxygen-atom-transfer (OAT). Dalton Transactions (2012), 41(8), 2237-2246.
- 497) Patel, Dinesh G.; Feng, Fude; Ohnishi, Yu-ya; Abboud, Khalil A.; Hirata, So; Schanze, Kirk S.; Reynolds, John R. It Takes More Than an Imine: The Role of the Central Atom on the Electron-Accepting Ability of Benzotriazole and Benzothiadiazole Oligomers. Journal of the American Chemical Society (2012), 134(5), 2599-2612.

- 496) Mukherjee, Shreya; Stull, Jamie A.; Yano, Junko; Stamatatos, Theocharis C.; Pringouri, Konstantina; Stich, Troy A.; Abboud, Khalil A.; Britt, R. David; Yachandra, Vittal K.; Christou, George. Synthetic model of the asymmetric [Mn₃CaO₄] cubane core of the oxygen-evolving complex of photosystem II. *Proceedings of the National Academy of Sciences of the United States of America*, Early Edition (2012), (Jan. 30 2012), 1-6, 6 pp.
- 495) McGowan, Kevin P.; Abboud, Khalil A.; Veige, Adam S. Trianionic NCN₃-Pincer Complexes of Chromium in Four Oxidation States (CrII, CrIII, CrIV, CrV): Determination of the Active Catalyst in Selective 1-Alkene to 2-Alkene Isomerization. *Organometallics* (2011), 30(18), 4949-4957.
- 494) Cran, John W.; Krafft, Marie E.; Seibert, Kimberly A.; Haxell, Thomas F. N.; Wright, James A.; Hirosawa, Chitaru; Abboud, Khalil A. The intramolecular Morita-Baylis-Hillman-type alkylation reaction. *Tetrahedron* (2011), 67(51), 9922-9943.
- 493) Stamatatos Theocharis C; Oliver Katie; Abboud Khalil A; Christou George. Synthetic entry into polynuclear bismuth-manganese chemistry: high oxidation state Bi(III)2Mn(IV)6 and Bi(III)Mn(III)10 complexes. *Inorganic chemistry* (2011), 50(11), 5272-82.
- 492) Figueroa, Ruth; Froese, Robert D.; He, Yiyong; Klosin, Jerzy; Theriault, Curt N.; Abboud, Khalil A. Synthesis of imino-enamido hafnium and zirconium complexes: A new family of olefin polymerization catalysts with ultrahigh-molecular-weight capabilities. *Organometallics* (2011), 30(6), 1695-1709.
- 491) Jan, Muhammad T.; Sarkar, Soumya; Kuppuswamy, Subramaniam; Ghiviriga, Ion; Abboud Khalil A.; Veige, Adam S. Synthesis and characterization of a trianionic pincer supported Mo-alkylidene anion and alkyne insertion into a Mo(IV)-Cpincer bond to form metallocyclopropene (η^2 -vinyl) complexes. *Journal of Organometallic Chemistry* (2011), 696(25), 4079-4089.
- 490) Mukherjee Shreya; Bagai Rashmi; Abboud Khalil A; Christou George. Raising the spin of Fe(III)7 disklike clusters: the power of molecular spin frustration. *Inorganic chemistry* (2011), 50(9), 3849-51.
- 489) Frazier, Kevin A.; Froese, Robert D.; He, Yi-Yong; Klosin, Jerzy; Theriault, Curt N.; Vosejpk, Paul C.; Zhou, Zhe; Abboud, Khalil A. Pyridylamido hafnium and zirconium complexes: synthesis, dynamic behavior, and ethylene/1-octene and propylene polymerization reactions. *Organometallics* (2011), 30(12), 3318-3329.
- 488) Liu, Chen; Cizmar, Erik; Park, Ju-Hyun; Abboud, Khalil A.; Meisel, Mark W.; Talham, Daniel R. Preparation, crystal structure and magnetic properties of Ni₂(dpa)₂(pyz)(H₂O)₄. *Polyhedron* (2011), 30(8), 1420-1424.
- 487) Montaser, Rana; Abboud, Khalil A.; Paul, Valerie J.; Luesch, Hendrik. Pitiprolamide, a proline-rich dolastatin 16 analog from the marine cyanobacterium *Lyngbya majuscula* from Guam. *Journal of Natural Products* (2011), 74(1), 109-112.
- 486) Saha Arpita; Abboud Khalil A; Christou George. New mixed-valent Mn clusters from the use of N,N,N',N'-tetrakis(2-hydroxyethyl)ethylenediamine (edteH₄): Mn₃, Mn₄, Mn₆, and Mn₁₀. *Inorganic chemistry* (2011), 50(24), 12774-84.
- 485) Rodig, Michael J.; Seo, Hwimin; Hirsch-Weil, Dimitri; Abboud, Khalil A.; Hong, Sukwon. Isoquinoline-based diimine ligands for Cu(II)-catalyzed enantioselective nitroaldol (Henry) reactions. *Tetrahedron: Asymmetry* (2011), 22(10), 1097-1102.
- 484) Masello Antonio; Sanakis Yiannis; Boudalis Athanassios K; Abboud Khalil A; Christou George. Iron(III) chemistry with ferrocene-1,1'-dicarboxylic acid (fdcH₂): an Fe₇ cluster with an oxidized fdc(-) ligand. *Inorganic chemistry* (2011), 50(12), 5646-54.

- 483) Stamatatos, Theocharis C.; Foguet-Albiol, Dolos; Wernsdorfer, Wolfgang; Abboud, Khalil A.; Christou, George. High-nuclearity, mixed-valence Mn₁₇, Mn₁₈ and {Mn₆₂}_n complexes from the use of triethanolamine. *Chemical Communications* (Cambridge, United Kingdom) (2011), 47(1), 274-276.
- 482) Saha, Arpita; Thompson Michael; Abboud Khalil A; Wernsdorfer Wolfgang; Christou George. Family of double-cubane Mn₄Ln₂ (Ln = Gd, Tb, Dy, Ho) and Mn₄Y₂ complexes: a new Mn₄Tb₂ single-molecule magnet. *Inorganic chemistry* (2011), 50(20), 10476-85.
- 481) Kim, Dojun; Hyun Kim, Oh; Ajmera, Hiral M.; Anderson, Tim; Koller, Jurgen; Abboud, Khalil A.; McElwee-White, Lisa. Deposition of WN_xCy from the Tungsten Piperidylhydrazido Complex Cl₄(CH₃CN)W(N-pip) as a Single-Source Precursor. *Journal of the Electrochemical Society* (2011), 158(6), H618-H625.
- 480) Priestap, Horacio A.; Abboud, Khalil A.; Velandia, Alvaro E.; Lopez, Luis A.; Barbieri, Manuel A. Dehydroleucodin: a guaiane-type sesquiterpene lactone. *Acta Crystallographica, Section E: Structure Reports Online* (2011), E67(12), o3470.
- 479) Priestap Horacio A; Abboud Khalil A; Velandia Alvaro E; Lopez Luis A; Barbieri Manuel A. Dehydroleucodin: a guaiane-type sesquiterpene lactone. *Acta crystallographica. Section E, Structure reports online* (2011), 67(Pt 12), o3470.
- 478) Papatriantafyllopoulou Constantina; Abboud Khalil A; Christou George. Carboxylate-free Mn(III)2Ln(III)2 (Ln = lanthanide) and Mn(III)2Y(III)2 complexes from the use of (2hydroxymethyl)pyridine: analysis of spin frustration effects. *Inorganic chemistry* (2011), 50(18), 8959-66.
- 477) Seo, Hwimin; Snead, David R.; Abboud, Khalil A.; Hong, Sukwon. Bulky Acyclic Aminoxy carbene Ligands. *Organometallics* (2011), 30(21), 5725-5730.
- 476) O'Reilly, Matthew E.; Del Castillo, Trevor J.; Falkowski, Joseph M.; Ramachandran, Vasanth; Pati, Mekhala; Correia, Marie C.; Abboud, Khalil A.; Dalal, Naresh S.; Richardson, David E.; Veige, Adam S. Autocatalytic O₂ Cleavage by an OCO₃-Trianionic Pincer Cr^{III} Complex: Isolation and Characterization of the Autocatalytic Intermediate [CrIV]2(μ-O) Dimer. *Journal of the American Chemical Society* (2011), 133(34), 13661-13673.
- 475) Szuromi, Endre; Klosin, Jerzy; Abboud, Khalil A. Aminotroponiminato Hafnium and Zirconium Complexes: Synthesis and Ethylene/1-Octene Copolymerization Study. *Organometallics* (2011), 30(17), 4589-4597.
- 474) Nguyen Tu N; Wernsdorfer Wolfgang; Abboud Khalil A; Christou George. A supramolecular aggregate of four exchange-biased single-molecule magnets. *Journal of the American Chemical Society* (2011), 133(51), 20688-91.
- 473) Del Castillo, Trevor J.; Sarkar, Soumya; Abboud, Khalil A.; Veige, Adam S. 1,3-Dipolar cycloaddition between a metal-azide (Ph₃PAuN₃) and a metal-acetylide (Ph₃PAuC≡CPh): an inorganic version of a click reaction. *Dalton Transactions* (2011), 40(32), 8140-8144.
- 472) Del Castillo Trevor J; Sarkar Soumya; Abboud Khalil A; Veige Adam S. 1,3-Dipolar cycloaddition between a metal-azide (Ph₃PAuN₃) and a metal-acetylide (Ph₃PAuC≡CPh): an inorganic version of a click reaction. *Dalton transactions* (Cambridge, England : 2003) (2011), 40(32), 8140-4.
- 471) O'Reilly, Matthew E.; Del Castillo, Trevor J.; Abboud, Khalil A.; Veige, Adam S. The influence of reversible trianionic pincer OCO₃-μ-oxo Cr^{iv} dimer formation ([Cr^{iv}]2(μ-O)) and donor ligands in oxygen-atom-transfer (OAT). *Dalton Transactions* (2012), 41(8), 2237-2246.
- 470) O'Reilly Matthew E; Del Castillo Trevor J; Abboud Khalil A; Veige Adam S. The influence of reversible trianionic pincer OCO(3)-μ-oxo Cr(iv) dimer formation ([Cr(iv)]2(μ-O)) and donor ligands in oxygen-atom-transfer (OAT). *Dalton transactions* (Cambridge, England : 2003) (2012), 41(8), 2237-46.

- 469) Mukherjee Shreya; Stull Jamie A; Yano Junko; Stamatatos Theocharis C; Pringouri Konstantina; Stich Troy A; Abboud Khalil A; Britt R David; Yachandra Vittal K; Christou George. Synthetic model of the asymmetric [Mn₃CaO₄] cubane core of the oxygen-evolving complex of photosystem II. From Proceedings of the National Academy of Sciences of the United States of America (2012), 109(7), 2257-62.
- 468) Mukherjee, Shreya; Stull, Jamie A.; Yano, Junko; Stamatatos, Theocharis C.; Pringouri, Konstantina; Stich, Troy A.; Abboud, Khalil A.; Britt, R. David; Yachandra, Vittal K.; Christou, George. Synthetic model of the asymmetric [Mn₃CaO₄] cubane core of the oxygen-evolving complex of photosystem II. Proceedings of the National Academy of Sciences of the United States of America (2012), 109(7), 2257-2262, S2257/1-S2257/9.
- 467) Mukherjee, Shreya; Stull, Jamie A.; Yano, Junko; Stamatatos, Theocharis C.; Pringouri, Konstantina; Stich, Troy A.; Abboud, Khalil A.; Britt, R. David; Yachandra, Vittal K.; Christou, George. Synthetic model of the asymmetric [Mn₃CaO₄] cubane core of the oxygen-evolving complex of photosystem II. Proceedings of the National Academy of Sciences of the United States of America, Early Edition (2012), (Jan. 30 2012), 1-6, 6 pp.
- 466) Patel Dinesh G Dan; Feng Fude; Ohnishi Yu-Ya; Abboud Khalil A; Hirata So; Schanze Kirk S; Reynolds John R. It takes more than an imine: the role of the central atom on the electron-accepting ability of benzotriazole and benzothiadiazole oligomers. Journal of the American Chemical Society (2012), 134(5), 2599-612.
- 465) Park, Jongwoo; Lang, Kai; Abboud, Khalil A.; Hong, Sukwon. Self-Assembly Approach toward Chiral Bimetallic Catalysts: Bis-Urea-Functionalized (Salen)Cobalt Complexes for the Hydrolytic Kinetic Resolution of Epoxides. Chemistry--A European Journal (2011), 17(7), 2236-2245, S2236/1-S2236/72.
- 464) Froese, Robert D. J.; Jazdzewski, Brian A.; Klosin, Jerzy; Kuhlman, Roger L.; Theriault, Curt N.; Welsh, Dean M.; Abboud, Khalil A. Imino-Amido Hf and Zr Complexes: Synthesis, Isomerization, and Olefin Polymerization. Organometallics (2011), 30(2), 251-262.
- 463) Papatriantafyllopoulou, Constantina; Wernsdorfer, Wolfgang; Abboud, Khalil A.; Christou, George. Mn₂₁Dy Cluster with a Record Magnetization Reversal Barrier for a Mixed 3d/4f Single-Molecule Magnet. Inorganic Chemistry (Washington, DC, United States) (2011), 50(2), 421-423.
- 462) Rossi, Melina B.; Abboud, Khalil A.; Albores, Pablo; Baraldo, Luis M. Structural and Spectroscopic Evidence of Strong Electronic Delocalization through a Cyanido Bridge in a Mixed-Valence Os-Ru Complex. European Journal of Inorganic Chemistry (2010), (36), 5613-5616.
- 461) Stamatatos, Theocharis C.; Foguet-Albiol, Dolos; Wernsdorfer, Wolfgang; Abboud, Khalil A.; Christou, George. High-nuclearity, mixed-valence Mn₁₇, Mn₁₈ and {Mn₆₂}_n complexes from the use of triethanolamine. Chemical Communications (Cambridge, United Kingdom) (2011), 47(1), 274-276.
- 460) Sarkar, Soumya; Culver, Jeffrey A.; Peloquin, Andrew J.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. Primary Carbon-Nitrogen Bond Scission and Methyl Dehydrogenation across a W≡W Multiple Bond. Angewandte Chemie, International Edition (2010), 49(50), 9711-9714, S9711/1-S9711/50.
- 459) Montaser, Rana; Abboud, Khalil A.; Paul, Valerie J.; Luesch, Hendrik. Pitiprolamide, a proline-rich dolastatin 16 analog from the marine cyanobacterium Lyngbya majuscula from Guam. Journal of Natural Products (2011), 74(1), 109-112.
- 458) Kuppuswamy, Subramaniam; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. Activation of an aryl C-H bond converts chelating diphenolate ligands bound to zirconium into trianionic pincer ligands: σ-donor ligand effects versus thermolysis Organometallics (2010), 29(24), 6711-6722.

- 457) Kwan, Jason C.; Ratnayake, Ranjala; Abboud, Khalil A.; Paul, Valerie J.; Luesch, Hendrik. Grassypeptolides A-C, cytotoxic bis-thiazoline containing marine cyclodepsipeptides. *Journal of Organic Chemistry* (2010), 75(23), 8012-8023.
- 456) Taguchi, Taketo; Wernsdorfer, Wolfgang; Abboud, Khalil A.; Christou, George. Mn8 and Mn16 Clusters from the Use of 2-(Hydroxymethyl)pyridine, and Comparison with the Products from Bulkier Chelates: A New High Nuclearity Single-Molecule Magnet. *Inorganic Chemistry* (Washington, DC, United States) (2010), 49(22), 10579-10589.
- 455) Seo, Hwimin; Roberts, Benjamin P.; Abboud, Khalil A.; Merz, Kenneth M., Jr.; Hong, Sukwon. Novel acyclic diaminocarbene ligands with increased steric demand and their application in gold catalysis. *Organic Letters* (2010), 12(21), 4860-4863.
- 454) Hirsch-Weil, Dimitri; Abboud, Khalil A.; Hong, Sukwon. Isoquinoline-based chiral monodentate N-heterocyclic carbenes. *Chemical Communications* (Cambridge, United Kingdom) (2010), 46(40), 7525-7527.
- 453) Taguchi, Taketo; Thompson, Michael S.; Abboud, Khalil A.; Christou, George. Unusual Fe9 and Fe18 structural types from the use of 2,6-pyridinedimethanol in FeIII cluster chemistry. *Dalton Transactions* (2010), 39(38), 9131-9139.
- 452) Denomme, Dan R.; Dumbris, Seth M.; Hyatt, I. F. Dempsey; Abboud, Khalil A.; Ghiviriga, Ion; McElwee-White, Lisa. Synthesis and Electronic Structure of Tetrakis(η^3 -phenylpropargyl)zirconium. *Organometallics* (2010), 29(21), 5252-5256.
- 451) Stamatatos, Theocharis C.; Abboud, Khalil A.; Christou, George. A Family of 3-D Coordination Polymers Composed of Mixed-Valence Mn6 Octahedra within Na4 Tetrahedra *Journal of Cluster Science* (2010), 21(3), 485-501.
- 450) Kuppuswamy, Subramaniam; Peloquin, Andrew J.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. Synthesis and Characterization of Tungsten(VI) Alkylidene Complexes Supported by an [OCO]3-Trianionic Pincer Ligand: Progress towards the [tBuOCO]W≡CC(CH3)3 Fragment. *Organometallics* (2010), 29(19), 4227-4233.
- 449) Jeletic, Matthew S.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. A new chiral di-N-heterocyclic carbene (NHC) cyclophane ligand and its application in palladium enantioselective catalysis. *Dalton Transactions* (2010), 39(28), 6392-6394.
- 448) Lampropoulos, Christos; Stamatatos, Theocharis C.; Manos, Manolis J.; Tasiopoulos, Anastasios J.; Abboud, Khalil A.; Christou, George. New Mixed-Valence MnII/III6 Complexes Bearing Oximato and Azido Ligands: synthesis, and Structural and Magnetic Characterization. *European Journal of Inorganic Chemistry* (2010), (15), 2244-2253.
- 447) Sarkar, Soumya; McGowan, Kevin P.; Culver, Jeffrey A.; Carlson, Adam R.; Koller, Jurgen; Peloquin, Andrew J.; Veige, Melanie K.; Abboud, Khalil A.; Veige, Adam S. NCN Trianionic Pincer Ligand Precursors: Synthesis of Bimetallic, Chelating Diamide, and Pincer Group IV Complexes. *Inorganic Chemistry* (Washington, DC, United States) (2010), 49(11), 5143-5156.
- 446) Lampropoulos, Christos; Redler, Gage; Data, Saiti; Abboud, Khalil A.; Hill, Stephen; Christou, George. Binding of Higher Alcohols onto Mn12 Single-Molecule Magnets (SMMs): Access to the Highest Barrier Mn12 SMM. *Inorganic Chemistry* (Washington, DC, United States) (2010), 49(4), 1325-1336.
- 445) Taguchi, Taketo; Wernsdorfer, Wolfgang; Abboud, Khalil A.; Christou, George. Mn7 and Mn12 Clusters From Use of 2-(Pyridine-2-yl)propan-2-ol: A New Half-Integer Single-Molecule Magnet. *Inorganic Chemistry* (Washington, DC, United States) (2010), 49(1), 199-208.

- 444) Park Jongwoo; Lang Kai; Abboud Khalil A; Hong Sukwon. Self-assembly approach toward chiral bimetallic catalysts: bis-urea-functionalized (salen)cobalt complexes for the hydrolytic kinetic resolution of epoxides. *Chemistry* (Weinheim an der Bergstrasse, Germany) (2011), 17(7), 2236-45.
- 443) Sarkar Soumya; Culver Jeffrey A; Peloquin Andrew J; Ghiviriga Ion; Abboud Khalil A; Veige Adam S. Primary carbon-nitrogen bond scission and methyl dehydrogenation across a W-W multiple bond. *Angewandte Chemie* (International ed. in English) (2010), 49(50), 9711-4.
- 442) Stamatatos Theocharis C; Foguet-Albiol Dolos; Wernsdorfer Wolfgang; Abboud Khalil A; Christou George. High-nuclearity, mixed-valence Mn₁₇, Mn₁₈ and {Mn₆₂}_n complexes from the use of triethanolamine. *Chemical communications* (Cambridge, England) (2011), 47(1), 274-6.
- 441) Kwan Jason C; Ratnayake Ranjala; Abboud Khalil A; Paul Valerie J; Luesch Hendrik. Grassypeptolides A-C, cytotoxic bis-thiazoline containing marine cyclodepsipeptides. *The Journal of organic chemistry* (2010), 75(23), 8012-23.
- 440) Taguchi Taketo; Wernsdorfer Wolfgang; Abboud Khalil A; Christou George. Mn₈ and Mn₁₆ clusters from the use of 2-(hydroxymethyl)pyridine, and comparison with the products from bulkier chelates: a new high nuclearity single-molecule magnet. *Inorganic chemistry* (2010), 49(22), 10579-89.
- 439) Seo Hwimin; Roberts Benjamin P; Abboud Khalil A; Merz Kenneth M Jr; Hong Sukwon. Novel acyclic diaminocarbene ligands with increased steric demand and their application in gold catalysis. *Organic letters* (2010), 12(21), 4860-3.
- 438) Hirsch-Weil Dimitri; Abboud Khalil A; Hong Sukwon. Isoquinoline-based chiral monodentate N-heterocyclic carbenes. From *Chemical communications* (Cambridge, England) (2010), 46(40), 7525-7.
- 437) Taguchi Taketo; Thompson Michael S; Abboud Khalil A; Christou George. Unusual Fe₉ and Fe₁₈ structural types from the use of 2,6-pyridinedimethanol in Fe(III) cluster chemistry. *Dalton transactions* (Cambridge, England : 2003) (2010), 39(38), 9131-9.
- 436) Jeletic Matthew S; Ghiviriga Ion; Abboud Khalil A; Veige Adam S. A new chiral di-N-heterocyclic carbene (NHC) cyclophane ligand and its application in palladium enantioselective catalysis. From *Dalton transactions* (Cambridge, England : 2003) (2010), 39(28), 6392-4.
- 435) Sarkar Soumya; McGowan Kevin P; Culver Jeffrey A; Carlson Adam R; Koller Jurgen; Peloquin Andrew J; Veige Melanie K; Abboud Khalil A; Veige Adam S. NCN trianionic pincer ligand precursors: synthesis of bimetallic, chelating diamide, and pincer group IV complexes. *Inorganic chemistry* (2010), 49(11), 5143-56.
- 434) Bergeron Raymond J; Bharti Neelam; Wiegand Jan; McManis James S; Singh Shailendra; Abboud Khalil A. The impact of polyether chain length on the iron clearing efficiency and physiochemical properties of desferrithiocin analogues. *Journal of medicinal chemistry* (2010), 53(7), 2843-53.
- 433) Liu Tian-Fu; Stamatatos Theocharis C; Abboud Khalil A; Christou George. An alcoholysis route to a Cu₁₆ cluster, and the influence of the alcohol. *Dalton transactions* (Cambridge, England : 2003) (2010), 39(15), 3554-6.
- 432) Lampropoulos Christos; Redler Gage; Data Saiti; Abboud Khalil A; Hill Stephen; Christou George. Binding of higher alcohols onto Mn(12) single-molecule magnets (SMMs): access to the highest barrier Mn(12) SMM. *Inorganic chemistry* (2010), 49(4), 1325-36.
- 431) Taguchi Taketo; Wernsdorfer Wolfgang; Abboud Khalil A; Christou George. Mn(7) and Mn(12) clusters from use of 2-(pyridine-2-yl)propan-2-ol: a new half-integer single-molecule magnet. *Inorganic chemistry* (2010), 49(1), 199-208.

- 430) Liu, Tian-Fu; Stamatatos, Theocharis C.; Abboud, Khalil A.; Christou, George. An alcoholysis route to a Cu₁₆ cluster, and the influence of the alcohol. *Dalton Transactions* (2010), 39(15), 3554-3556.
- 429) Bergeron, Raymond J.; Bharti, Neelam; Wiegand, Jan; McManis, James S.; Singh, Shailendra; Abboud, Khalil A.. The Impact of Polyether Chain Length on the Iron Clearing Efficiency and Physiochemical Properties of Desferrithiocin Analogues. *Journal of Medicinal Chemistry* (2010), 53(7), 2843-2853.
- 428) Snead, David R.; Inagaki, Sebastien; Abboud, Khalil A.; Hong, Sukwon. Bis(2-alkylpyrrolidin-1-yl)methylidenes as Chiral Acyclic Diaminocarbene Ligands. *Organometallics* (2010), 29(7), 1729-1739.
- 427) Lowry, Roxy J.; Jan, Muhammad T.; Abboud, Khalil A.; Ghiviriga, Ion; Veige, Adam S. The next generation of C 2-symmetric ligands: A di-N-heterocyclic carbene (NHC) ligand and the synthesis and X-ray characterization of mono- and dinuclear rhodium(I) and iridium(I) complexes. *Polyhedron* (2010), 29(1), 553-563.
- 426) Mukherjee, Shreya; Daniels, Matthew R.; Bagai, Rashmi; Abboud, Khalil A.; Christou, George; Lampropoulos, Christos. A variety of new tri- and tetrานuclear Mn-Ln and Fe-Ln (Ln = lanthanide) complexes. *Polyhedron* (2010), 29(1), 54-65.
- 425) Shen, Dwanleen Eric; Abboud, Khalil A.; Reynolds, John R. Novel Bis-arylPheDOT Synthons for Electrochromic Polymers. *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry* (2010), 47(1), 6-11
- 424) Salami, Tolulope O.; Patterson, Stephanie N.; Jones, Victoria D.; Masello, Antonio; Abboud, Khalil A.. Synthesis, characterization, thermal study, and crystal structure of a new layered alkaline earth metal sulfonate: Sr[C₂H₄(SO₃)₂]. *Inorganic Chemistry Communications* (2009), 12(11), 1150-1153.
- 423) Stamatatos, Theocharis C.; Foguet-Albiol, Dolos; Poole, Katye M.; Wernsdorfer, Wolfgang; Abboud, Khalil A.; O'Brien, Ted A.; Christou, George. Spin Maximization from S = 11 to S = 16 in Mn₇ Disk-Like Clusters: Spin Frustration Effects and Their Computational Rationalization. *Inorganic Chemistry* (Washington, DC, United States) (2009), 48(20), 9831-9845.
- 422) Taguchi, Taketo; Daniels, Matthew R.; Abboud, Khalil A.; Christou, George. Mn₄, Mn₆, and Mn₁₁ Clusters from the Use of Bulky Diphenyl(pyridine-2-yl)methanol. *Inorganic Chemistry* (Washington, DC, United States) (2009), 48(19), 9325-9335.
- 421) Li, Yan; Lampkins, Andrew J.; Baker, Matthew B.; Sumpter, Bobby G.; Huang, Jingsong; Abboud, Khalil A.; Castellano, Ronald K. Benzotrifuranone: Synthesis, Structure, and Access to Polycyclic Heteroaromatics. *Organic Letters* (2009), 11(19), 4314-4317.
- 420) Snead, David R.; Ghiviriga, Ion; Abboud, Khalil A.; Hong, Sukwon. A New Route to Acyclic Diaminocarbene via Lithium-Halogen Exchange. *Organic Letters* (2009), 11(15), 3274-3277.
- 419) Klosin, Jerzy; Kruper, William J.; Patton, Jasson T.; Abboud, Khalil A.. Synthesis and X-ray structure of novel 2- and 3-heteroatom-substituted ansa-zirconocene complexes. *Journal of Organometallic Chemistry* (2009), 694(16), 2581-2596.
- 418) Lampropoulos, Christos; Stamatatos, Theocharis C.; Abboud, Khalil A.; Christou, George. A convenient Mn_{III} starting material for the synthesis of homo- and heterometallic manganese carboxylate clusters: Mn₉ and Mn_{10-x}F_x complexes. *Polyhedron* (2009), 28(9-10), 1958-1964.
- 417) Stamatatos, Theocharis C.; Abboud, Khalil A.; Christou, George. Old ligands with new coordination chemistry: A Mn₁₇Na cluster bearing triethanolamine and azide groups and exhibiting slow magnetization relaxation. *Polyhedron* (2009), 28(9-10), 1880-1882.

- 416) Stamatatos, Theocharis C.; Pringouri, Konstantina V.; Abboud, Khalil A.; Christou, George. High-spin molecules: A mixed-valence Mn₆ octahedron with an S = 11 ground state. *Polyhedron* (2009), 28(9-10), 1624-1627.
- 415) Stamatatos, Theocharis C.; Vinslava, Alina; Abboud, Khalil A.; Christou, George. Azide groups in high oxidation state Mn carboxylate chemistry: a new Mn₁₁ complex and its conversion to a Mn₂₅ azide complex with Me₃SiN₃. *Chemical Communications* (Cambridge, United Kingdom) (2009), (20), 2839-2841.
- 414) Axtell, Alex T.; Klosin, Jerzy; Whiteker, Gregory T.; Cobley, Christopher J.; Fox, Martin E.; Jackson, Mark; Abboud, Khalil A.. Bridging group effects in chelating bis(2,5-diphenylphospholane) ligands for rhodium-catalyzed asymmetric hydroformylation. *Organometallics* (2009), 28(10), 2993-2999.
- 413) Hirsch-Weil, Dimitri; Snead, David R.; Inagaki, Sebastien; Seo, Hwimin; Abboud, Khalil A.; Hong, Sukwon. In situ generation of novel acyclic diaminocarbene-copper complex. *Chemical Communications* (Cambridge, United Kingdom) (2009), (18), 2475-2477.
- 412) Jeletic, Matthew S.; Jan, Muhammad T.; Ghiviriga, Ion; Abboud, Khalil A.; Veige, Adam S. New iridium and rhodium chiral di-N-heterocyclic carbene (NHC) complexes and their application in enantioselective catalysis. *Dalton Transactions* (2009), (15), 2764-2776.
- 411) Butler, Roslyn S.; Cohn, Pamela; Tenzel, Phillip; Abboud, Khalil A.; Castellano, Ronald K. Synthesis, Photophysical Behavior, and Electronic Structure of Push-Pull Purines. *Journal of the American Chemical Society* (2009), 131(2), 623-633.
- 410) Stamatatos, Theocharis C.; Abboud, Khalil A.; Christou, George. A mononuclear Mn^{III}/bis-tris complex and its conversion to a mixed-valence Mn^{II}/Mn⁵⁺ cluster. *Dalton Transactions* (2009), (1), 41-50.
- 409) Lampropoulos Christos; Redler Gage; Data Saiti; Abboud Khalil A; Hill Stephen; Christou George Binding of higher alcohols onto Mn(12) single-molecule magnets (SMMs): access to the highest barrier Mn(12) SMM. *Inorganic chemistry* (2010), 49(4), 1325-36.
- 408) Taguchi Taketo; Wernsdorfer Wolfgang; Abboud Khalil A; Christou George Mn(7) and Mn(12) clusters from use of 2-(pyridine-2-yl)propan-2-ol: a new half-integer single-molecule magnet. *Inorganic chemistry* (2010), 49(1), 199-208.
- 407) O'Reilly Matthew; Falkowski Joseph M; Ramachandran Vasanth; Pati Mekhala; Abboud Khalil A; Dalal Naresh S; Gray Thomas G; Veige Adam S Catalytic aerobic oxidation by a trianionic pincer Cr(III)/Cr(V) couple. *Inorganic chemistry* (2009), 48(23), 10901-3.
- 406) Stamatatos Theocharis C; Foguet-Albiol Dolos; Poole Katye M; Wernsdorfer Wolfgang; Abboud Khalil A; O'Brien Ted A; Christou George Spin maximization from S = 11 to S = 16 in Mn(7) disk-like clusters: spin frustration effects and their computational rationalization. *Inorganic chemistry* (2009), 48(20), 9831-45.
- 405) Taguchi Taketo; Daniels Matthew R; Abboud Khalil A; Christou George Mn₄, Mn₆, and Mn₁₁ clusters from the use of bulky diphenyl(pyridine-2-yl)methanol. *Inorganic chemistry* (2009), 48(19), 9325-35. Journal code: 0366543.
- 404) Snead David R; Ghiviriga Ion; Abboud Khalil A; Hong Sukwon A new route to acyclic diaminocarbenes via lithium-halogen exchange. *Organic letters* (2009), 11(15), 3274-7.
- 403) Hirsch-Weil Dimitri; Snead David R; Inagaki Sebastien; Seo Hwimin; Abboud Khalil A; Hong Sukwon In situ generation of novel acyclic diaminocarbene-copper complex. *Chemical communications* (Cambridge, England) (2009), (18), 2475-7.

- 402) Stamatatos Theocharis C; Vinslava Alina; Abboud Khalil A; Christou George Azide groups in high oxidation state Mn carboxylate chemistry: a new Mn(11) complex and its conversion to a Mn(25) azide complex with Me(3)SiN(3). *Chemical communications* (Cambridge, England) (2009), (20), 2839-41.
- 401) Jeletic Matthew S; Jan Muhammad T; Ghiviriga Ion; Abboud Khalil A; Veige Adam S New iridium and rhodium chiral di-N-heterocyclic carbene (NHC) complexes and their application in enantioselective catalysis. *Dalton transactions* (Cambridge, England : 2003) (2009), (15), 2764-76.
- 400) Lampropoulos Christos; Abboud Khalil A; Stamatatos Theocharis C; Christou George A nontwisted, ferromagnetically coupled Mn(III)3O triangular complex from the use of 2,6-bis(hydroxymethyl)-p-cresol. *Inorganic chemistry* (2009), 48(3), 813-5.
- 399) Butler Roslyn S; Cohn Pamela; Tenzel Phillip; Abboud Khalil A; Castellano Ronald K Synthesis, photophysical behavior, and electronic structure of push-pull purines. *Journal of the American Chemical Society* (2009), 131(2), 623-33.
- 398) Lampropoulos Christos; Stamatatos Theocharis C; Abboud Khalil A; Christou George Initial use of dioximate ligands in 3d/4f cluster chemistry: synthesis, structure, and magnetic studies of an unusual [Gd(III)2Mn(IV)O]8+ complex. *Inorganic chemistry* (2009), 48(2), 429-31.
- 397) Stamatatos Theocharis C; Abboud Khalil A; Christou George A mononuclear Mn(III)/'bis-tris' complex and its conversion to a mixed-valence Mn(II/III)(5) cluster. *Dalton transactions* (Cambridge, England : 2003) (2009), (1), 41-50.
- 396) "Addition of Mild Electrophiles to a Mo N Triple Bond and Nitrile Synthesis via Metal-Mediated N-Atom Transfer to Acid Chlorides" Sarkar, S; Abboud, KA; Veige, AS. (2008) *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* 130, 48, 16128
- 395) "Self-Assembled Dinuclear Cobalt(II)-Salen Catalyst Through Hydrogen-Bonding and Its Application to Enantioselective Nitro-Aldol (Henry) Reaction" Park, J; Lang, K; Abboud, KA; Hong, S. (2008) *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY* 130, 49, 16484 +
- 394) "Cylindrical hexameric antimony complexes, one with an enclosed hexaaquanickel(II) ion" Palenik, RC; Abboud, KA; Palenik, GJ. (2009) *INORGANICA CHIMICA ACTA* 392, 4, 1374-1378
- 393) "{Mn-6}(n) Single-Chain Magnet Bearing Azides and Di-2-pyridylketone-Derived Ligands" Stamatatos, TC; Abboud, KA; Wernsdorfer, W; Christou, G. (2009) *INORGANIC CHEMISTRY* 48,3, 807-809
- 392) "A Nontwisted, Ferromagnetically Coupled (Mn3O)-O-III Triangular Complex from the Use of 2,6-Bis(hydroxymethyl)-p-cresol" Lampropoulos, C; Abboud, KA; Stamatatos, TC; Christou, G. (2009) *INORGANIC CHEMISTRY* 48, 3, 813-815
- 391) "Initial Use of Dioximate Ligands in 3d/4f Cluster Chemistry: Synthesis, Structure, and Magnetic Studies of an Unusual [(Gd2MnO)-Mn-III-O-IV](8+) Complex" Lampropoulos, C; Stamatatos, TC; Abboud, KA; Christou, G. (2009) *INORGANIC CHEMISTRY* 48,2, 429-431
- 390) "Links between through-bond interactions and assembly structure in simple piperidones" Yuan, L; Sumpter, BG; Abboud, KA; Castellano, RK. (2008) *NEW JOURNAL OF CHEMISTRY* 32,11, 1924-1934
- 389) "Unusual Structural Types in Nickel Cluster Chemistry from the Use of Pyridyl Oximes: Ni-5, Ni12Na2, and Ni-14 Clusters" Stamatatos, TC; Escuer, A; Abboud, KA; Raptopoulou, CP; Perlepes, SP; Christou, G. (2008) *INORGANIC CHEMISTRY* 47, 24, 11825-11838
- 388) "The largest single-strand molecular wheel: Ga-20 from a targeted, diolate-induced size modification of the Ga-10 'gallic wheel'" Stamatatos, TC; Mukherjee, S; Abboud, KA; Christou, G. (2009) *CHEMICAL COMMUNICATIONS* 1, 62-64

- 387) "Preparation and characterization of new Mn-6 and Mn-8 clusters obtained from the in situ formation of an unprecedented octadentate ligand" Stamatatos, TC; Abboud, KA; Christou, G. (2008) JOURNAL OF MOLECULAR STRUCTURE 890, 1-3, 263-271
- 386) "New Constrained-Geometry C-2-Symmetric Di-N-heterocyclic Carbene Ligands and Their Mono- and Dinuclear Rhodium(I) Complexes: Design, Synthesis, and Structural Analysis" Lowry, RJ; Veige, MK; Clement, O; Abboud, KA; Ghiviriga, I; Veige, AS. (2008) ORGANOMETALLICS 27, 20, 5184-5195
- 385) "Large Mn-25 Single-Molecule Magnet with Spin S=51/2: Magnetic and High-Frequency Electron Paramagnetic Resonance Spectroscopic Characterization of a Giant Spin State" Murugesu, M; Takahashi, S; Wilson, A; Abboud, KA; Wernsdorfer, W; Hill, S; Christou, G. (2008) INORGANIC CHEMISTRY 47, 20, 9459-9470
- 384) "High-yield syntheses and reactivity studies of Fe-10 "Ferric Wheels": Structural, magnetic, and computational characterization of a star-shaped Fe-8 complex" Stamatatos, TC; Christou, AG; Mukherjee, S; Poole, KM; Lampropoulos, C; Abboud, KA; O'Brien, TA; Christou, G. (2008) INORGANIC CHEMISTRY 47, 19, 9021-9034
- 383) "Synthesis of electronically diverse tetraarylimidazolylidene carbenes via catalytic aldimine coupling" Ogle, JW; Zhang, J; Reibenspies, JH; Abboud, KA; Miller, SA. (2008) ORGANIC LETTERS 10, 17, 3677-3680
- 382) "Covalently linked dimers of clusters: Loop- and dumbbell-shaped Mn-24 and Mn-26 single-molecule magnets" Stamatatos, TC; Abboud, KA; Wernsdorfer, W; Christou, G. (2008) ANGEWANDTE CHEMIE-INTERNATIONAL EDITION 47, 35, 6694-6698
- 381) "Discrete photopatternable pi-conjugated oligomers for electrochromic devices" Nielsen, CB; Angerhofer, A; Abboud, KA; Reynolds, JR. (2008) JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 130, 30, 9734-9746
- 380) "Intra- and intermolecular NMR studies on the activation of rylcyclometallated hafnium pyridyl-amido olefin polymerization precatalysts: Zuccaccia, C; Macchioni, A; Busico, V; Cipullo, R; Talarico, G; Alfano, F; Boone, HW; Frazier, KA; Hustad, PD; Stevens, JC; Vosejpk, PC; Abboud, KA. (2008) JOURNAL OF THE AMERICAN CHEMICAL SOCIETY 130, 31, 10354-10368
- 379) "Spin maximization: Switching of the usual S=11 state of (Mn₄Mn₃III)-Mn-II disklike complexes to the maximum S=16" Stamatatos, TC; Poole, KM; Foguet-Albiol, D; Abboud, KA; O'Brien, TA; Christou, G. (2008) INORGANIC CHEMISTRY 47, 15, 6593-6595
- 378) "Synthesis and characterization of diorganohydrazido(2-) tungsten complexes" Koller, J; Ajmera, HM; Abboud, KA; Anderson, TJ; McElwee-White, L. (2008) INORGANIC CHEMISTRY 47, 11, 4457-4462
- 377) "Single-molecule magnets: A family of Mn-III/Ce-IV complexes with a [Mn₈CeO₈](12+) core" Mishra, A; Tasiopoulos, AJ; Wernsdorfer, W; Moushi, EE; Moulton, B; Zaworotko, MJ; Abboud, KA; Christou, G. INORGANIC CHEMISTRY (2008) INORGANIC CHEMISTRY 47, 11, 4832-4843
- 376) "High-spin Mn-4 and Mn-10 molecules: Large spin changes with structure in mixed-valence (Mn₄Mn₆III)-Mn-II clusters with azide and alkoxide-based Ligands" Stamatatos, TC; Poole, KM; Abboud, KA; Wernsdorfer, W; O'Brien, TA; Christou, G. (2008). INORGANIC CHEMISTRY 47, 11, 5006-5021
- 375) "New Fe-4, Fe-6, and Fe-8 clusters of iron(III) from the use of 2-pyridyl alcohols: Structural, magnetic, and computational characterization" Taguchi, T; Stamatatos, TC; Abboud, KA; Jones, CM; Poole, KM; O'Brien, TA; Christou, G. (2008). INORGANIC CHEMISTRY 47, 10, 2095-2108

- 374) "Unusual structural types in polynuclear iron chemistry from the use of N,N,N '¹N '-tetrakis(2-hydroxyethyl)ethylenediamine (edteH(4)): Fe-5, Fe-6, and Fe-12 clusters" Bagai, R; Daniels, MR; Abboud, KA; Christou, G. (2008). INORGANIC CHEMISTRY 47,8, 3318-3327
- 373) "Synthesis of perfluoro[2.2]paracyclophane " Dolbier, WR; Xie, P; Zhang, L; Xu, W; Chang, Y; Abboud, KA. (2008). JOURNAL OF ORGANIC CHEMISTRY 73,6, 2469-2472 .
- 372) "Single-molecule magnetism properties of the first strontium-manganese cluster [SrMn₁₄O₁₁(OMe)(3)(O₂CPh)(18)(MeCN)(2)]." Yano, J; Yachandra, VK; Wernsdorfer, W; Abboud, KA; Christou, G (2008). INORGANIC CHEMISTRY 47,6, 1940-1948
- 371) "Total structure determination of grassypeptolide, a new marine cyanobacterial cytotoxin". Kwan, JC; Rocca, JR; Abboud, KA; Paul, VJ; Luesch, H. (2008). ORGANIC LETTERS 10, 5 789-792
- 370) "Development of biisoquinoline-based chiral diaminocarbene ligands: Enantioselective S(N)2 ' allylic alkylation catalyzed by copper-carbene complexes." Seo, H; Hirsch-Weil, D; Abboud, KA; Hong, S(2008). JOURNAL OF ORGANIC CHEMISTRY, 73, 5, 1983-1986
- 369) "Assessable consequences of through-bond donor-acceptor interactions in beta-aminoketones." Lampkins, AJ; Li, Y; Al Abbas, A; Abboud, KA; Ghiviriga, I; Castellano, RK (2008). CHEMISTRY-A EUROPEAN JOURNAL, 14, 5, 1452-1463.
- 368) "Synthesis, characterization, and reactivity of a d(2), Mo(IV) complex supported by a new OCO - Trianionic pincer ligand." Sarkar, S; Carlson, AR; Veige, MK; Falkowski, JM; Abboud, KA; Veige, AS (2008). JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 130, 4, 1116-.
- 367) "Bis-(2,5-diphenylphospholanes) with sp(2) carbon linkers: Synthesis and application in asymmetric hydrogenation." Fox, ME; Jackson, M; Lennon, IC; Klosin, J; Abboud, KA (2008). JOURNAL OF ORGANIC CHEMISTRY, 73, 3, 775-784.
- 366) "Unusual structural types in manganese cluster chemistry from the use of N,N,N '¹N '-Tetrakis(2-hydroxyethyl)ethylenediamine: Mn-8, Mn-12, and Mn-20 clusters." Bagai, R; Abboud, KA; Christou, G (2008). INORGANIC CHEMISTRY, 47, 2, 621-631.
- 365) "Low band gap EDOT-benzobis(thiadiazole) hybrid polymer characterized on near-IR transmissive single walled carbon nanotube electrodes." Steckler, TT; Abboud, KA; Craps, M; Rinzler, AG; Reynolds, JR (2007). CHEMICAL COMMUNICATIONS, 46, 4904-4906.
- 364) "An N-bridged tungsten compound for the chemical vapor deposition of WN_x thin films." McElwee-White, L; Abboud, KA (2007). ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE, 63, Part 11, M2733 U942.
- 363) "Exchange-biased dimers of single-molecule magnets in OFF and ON states." Bagai, R; Wernsdorfer, W; Abboud, KA; Christou, G. (2007). JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 129, 43, 12918-.
- 362) "Mixed transition metal-lanthanide complexes at high oxidation states: Heteronuclear (CeMnIV)-Mn-IV clusters." Tasiopoulos, AJ; Milligan, PL; Abboud, KA; O'Brien, TA; Christou, G (2007). INORGANIC CHEMISTRY, 46, 23, 9678-9691.
- 361) "Synthesis and characterization of a Mn-22 single-molecule magnet and a [Mn-22](n) single-chain magnet." INORGANIC CHEMISTRY, 46, 22, 9160-9171.

- 360) "Mono- and bimetallic rhodium(I) complexes supported by new C-2-Symmetric bis-N-heterocyclic carbene ligands: Metalation via C=C bond cleavage under mild conditions." Jeletic, MS; Ghiviriga, I; Abboud, KA; Veige, AS (2007). *ORGANOMETALLICS*, 26, 22, 5267-5270.
- 359) "Synthesis and characterization of (2,6-(PrNCN)-Pr-i)HfCl₂- and (3,5-MeNCN)(2)Hf₂- (where NCN=2,6-bis[phenylazanidyl]methylphenyl): New trianionic pincer ligands." Koller, J; Sarkar, S; Abboud, KA; Veige, AS (2007). *ORGANOMETALLICS*, 26, 22, 5438-5441.
- 358) "The highest nuclearity metal oxime clusters: Ni-14 and Ni₁₂Na₂ complexes from the use of 2-pyridinealdoximate and azide ligands." Stamatatos, TC; Abboud, KA; Perlepes, SP; Christou, G (2007). *DALTON TRANSACTIONS*, 35, 3861-3863.
- 357) "Highly fluorescent donor-acceptor purines." Myers, AK; Bellarmine, P; Abboud, KA; Castellano, RK (2007). *JOURNAL OF MATERIALS CHEMISTRY*, 17, 36, 1863-.
- 356) "Syntheses and structures of four antimony complexes with planar tridentate pyridine ligands." Abboud, KA; Palenik, RC; Palenik, GJ; Wood, RM (2007). *INORGANICA CHIMICA ACTA*, 360, 11, 3642-3646.
- 355) "Squaring the circle": Molecular squares and rectangles from chelate-induced structural transformations of known Fe-10 and new Fe-12 ferric wheels." Stamatatos, TC; Christou, AG; Jones, CM; O'Callaghan, BJ; Abboud, KA; O'Brien, TA; Christou, G (2007). *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 129, 32, 9840-.
- 354) "A discrete Fe-18 'molecular chain'". Bagai, R; Abboud, KA; Christou, G (2007). *CHEMICAL COMMUNICATIONS*, 32, 3359-3361.
- 353) "Ferromagnetically-coupled decanuclear, mixed-valence [Mn₁₀O₄(N-3)(4)(hmp)(12)](2+) [hmpH=2-(hydroxymethyl)pyridine] clusters with rare T symmetry and an S=22 ground state." Stamatatos, TC; Abboud, KA; Wernsdorfer, W; Christou, G (2007). *POLYHEDRON*, 9(11), 2042-2046.
- 352) "A new Mn-25 single-molecule magnet with an S=61/2 ground state arising from ligand-induced 'spin-tweaking' in a high-spin molecule." Stamatatos, TC; Abboud, KA; Wernsdorfer, W; Christou, G (2007). *POLYHEDRON*, 9(11), 2095-2100.
- 351) "A family of mixed-valent (MnMn₆Mn₆II)-Mn-IV-Mn-III tridecanuclear clusters, and their magneto structural correlation." Lampropoulos, C; Murugesu, M; Abboud, KA; Christou, G (2007). *POLYHEDRON*, 9(11), 2129-2134.
- 350) "A family of ferrocene-rich Mn-7, Mn-8 and Mn-13 clusters." Masello, A; Murugesu, M; Abboud, KA; Christou, G (2007). *POLYHEDRON*, 9(11), 2276-2280.
- 349) "A new N,N,O chelate for transition metal chemistry: Fe-5 and Fe-6 clusters from the use of 6-hydroxymethyl-2,2'-bipyridine (hmbpH)." Bagai, R; Abboud, KA; Christou, G (2007). *INORGANIC CHEMISTRY*, 46, 14, 5567-5575.
- 348) "Asymmetric hydroformylation of vinyl acetate: Application in the synthesis of optically active isoxazolines and imidazoles." Thomas, PJ; Axtell, AT; Klosin, J; Peng, W; Rand, CL; Clark, TP; Landis, CR; Abboud, KA (2007). *ORGANIC LETTERS*, 9, 14, 2665-2668.
- 347) "Isoregic thienylene-phenylene polymers: The effects of structural variation and application to photovoltaic devices." Kim, YG; Galand, EM; Thompson, BC; Walker, J; Fossey, SA; McCarley, TD; Abboud, KA; Reynolds, JR (2007). *JOURNAL OF MACROMOLECULAR SCIENCE PART A-PURE AND APPLIED CHEMISTRY*, 44, 7-9, 665-674.
- 346) "Penultimate effect in ethylene-styrene copolymerization and the discovery of highly active ethylene-styrene catalysts with increased styrene reactivity." Arriola, DJ; Bokota, M; Campbell, RE; Klosin, J; LaPointe, RE;

Redwine, OD; Shankar, RB; Timmers, FJ; Abboud, KA (2007). JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 129, 22, 7065-7076.

- 345) "Electronic interactions in iron- and ruthenium-containing heterobimetallic complexes: Structural and spectroscopic investigations." Serra, D; Abboud, KA; Hilliard, CR; McElwee-White, L (2007). ORGANOMETALLICS, 26, 13, 3085-3093.
- 344) "Diversity of new structural types in polynuclear iron chemistry with a tridentate N,N,O ligand." Bagai, R; Datta, S; Betancur-Rodriguez, A; Abboud, KA; Hill, S; Christou, G (2007). INORGANIC CHEMISTRY, 46, 11, 4535-4547.
- 343) "Effect of the dihedral angle of biaryl-bridged bisphosphite ligands on enantioselectivity and regioselectivity of asymmetric hydroformylation." Cobley, CJ; Froese, RDJ; Klosin, J; Qin, C; Whiteker, GT; Abboud, KA (2007). ORGANOMETALLICS, 26, 12, 299-.
- 342) "Highly fluorescent donor-acceptor purines." Butler, R.S.; Myers, A.K.; Bellarmine, P.; Abboud, K.A.; Castellano, R.K. (2007). JOURNAL OF MATERIALS CHEMISTRY, 17(19), 1863-1865 .
- 341) "Heteronuclear Mn-Ca/Sr complexes, and Ca/Sr EXAFS spectral comparisons with the oxygen-evolving complex of photosystem II." Mishra, A.; Yano, J.; Pushkar, Y.; Yachandra, V.K.; Abboud, K.A.; Christou, G. (2007). CHEMICAL COMMUNICATIONS, 15, 1538-1540.
- 340) "High-nucularity Ce/Mn and Th/Mn cluster chemistry: Preparation of complexes with [Ce₄Mn₁₀O₁₀(OMe)(6)](18+) and [Th₆Mn₁₀O₂₂(OH)(2)](18+) cores." Mishra, A; Tasiopoulos, AJ; Wernsdorfer, W; Abboud, KA; Christou, G (2007). INORGANIC CHEMISTRY, 46, 8, 3105-3115.
- 339) "An approach to triquinane synthesis using the Pauson-Khand reaction." Krafft, ME; Kyne, GM; Hirosawa, C; Schmidt, P; Abboud, KA; L'Helias, N (2007). TETRAHEDRON, 62, 50, 11782-11792.
- 338) "Spin tweaking of a high-spin molecule: An Mn-25 single-molecule magnet with an S=61/2 ground state." Stamatatos, TC; Abboud, KA; Wernsdorfer, W; Christou, G (2007). Angewandte Chemie-International Edition, 46, 884-888.
- 337) "Understanding structural isomerization during ruthenium-catalyzed olefin metathesis: A deuterium labeling study." Courchay, FC; Sworen, JC; Ghiviriga, I; Abboud, KA; Wagener, KB (2006). Organometallics, 25, 6074-6086.
- 336) "[Mn₇O₅(OR)(2)(O₂CPh)(9)(terpy)] (R = Me, CH₂Ph) complexes with a fused cubane/butterfly core and an S=6 ground-state spin." Mishra, A; Wernsdorfer, W; Abboud, KA; Christou, G (2006). Inorganic Chemistry, 45, 10197-10206.
- 335) "Reversible size modification of iron and gallium molecular wheels: A Ga-10 "gallic wheel" and large Ga-18 and Fe-18 wheels." King, P; Stamatatos, TC; Abboud, KA; Christou, G (2006). Angewandte Chemie-International Edition, 45, 7379-7383.
- 334) "An unexpected reaction of trimethylsilyl fluorosulfonyldifluoroacetate (TFDA) with imidazoles. Formation of N-difluoromethylthioureas." Xu, W; Abboud, KA; Ghiviriga, I; Dolbier, WR; Rapp, M; Wnuk, SF (2006). Organic Letters, 8, 5549-5551.
- 333) "Syntheses, crystal structures, and bond valence sum analyses of lanthanide complexes with a planar pentadentate ligand." Palenik, RC; Abboud, KA; Summers, SP; Reitfort, LL; Palenik, GJ (2006). Inorganica Chimica Acta, 359, 4645-4650.
- 332) "An unprecedented photodimerization of an anthraceno[2.2]paracyclophane." Dolbier, WR; Zhai, YA; Battiste, MA; Abboud, KA; Ghiviriga, I; Wu, K (2006). Arkivoc, 97-103.

- 331) "Self-complementary purines by quadruple hydrogen bonding." Martin, AM; Butler, RS; Ghiviriga, I; Giessert, RE; Abboud, KA; Castellano, RK (2006). *Chemical Communications*, 4413-4415.
- 330) "Spray processable hybrid 3,4-propylenedioxythiophene: Phenylene electrochromic polymers." Galand, EM; Mwaura, JK; Argun, AA; Abboud, KA; McCarley, TD; Reynolds, JR (2006). *Macromolecules*, 39, 7286-7294.
- 329) "Evaluation of asymmetric hydrogenation ligands in asymmetric hydroformylation reactions. Highly enantioselective ligands based on bis-phosphacycles." Axtell, AT; Klosin, J; Abboud, KA (2006). *Organometallics*, 25, 5003-5009.
- 328) "Monomers, chains, ladders, and two-dimensional sheets: Structural diversity in six new compounds of Zn(II) with 4,4'-bipyridine." Woodward, JD; Backov, RV; Abboud, KA; Talham, DR (2006). *Polyhedron*, 25, 2605-2615.
- 327) "Two concomitant polymorphs of 3,3',4,4'-tetrakis(phenylethynyl)-1,1'-[2,2,2,-trifluoro-1-(trifluoromethyl)ethanediyl]bisbenzene." Perera, KPU; Abboud, KA; Krawiec, M; VanDerveer, D; Smith, DW (2006). *Journal of Chemical Crystallography*, 36, 399-406.
- 326) "Ligand-induced distortion of a tetranuclear manganese butterfly complex." Bagai, R; Abboud, KA; Christou, G (2006). *Dalton Transactions*, 3306-3312.
- 325) "High-nuclearity, high-symmetry, high-spin molecules: A mixed-valence Mn-10 cage possessing rare T symmetry and an S=22 ground state." Stamatatos, TC; Abboud, KA; Wernsdorfer, W; Christou, G (2006). *Angewandte Chemie-International Edition*, 45, 4134-4137.
- 324) "The properties of the [Mn₁₂O₁₂(O₂CR)₁₆(H₂O)₄] single-molecule magnets in truly axial symmetry: [Mn₁₂O₁₂(O₂CCH₂Br)₁₆(H₂O)₄]center dot 4CH(2)Cl(2)." Chakov, NE; Lee, SC; Harter, AG; Kuhns, PL; Reyes, AP; Hill, SO; Dalal, NS; Wernsdorfer, W; Abboud, KA; Christou, G (2006). *Journal of the American Chemical Society*, 128, 6975-6989.
- 323) "New Mn-12 single-molecule magnets from edge-sharing biotahedra." Murugesu, M; Wernsdorfer, W; Abboud, KA; Brechin, EK; Christou, G (2006). *Dalton Transactions*, 2285-2287.
- 322) "Modeling the preferred shapes of polyamine transporter ligands and dihydromotuporamine-C mimics: Shovel versus hoe." Breitbeil, F; Kaur, N; Delcros, JG; Martin, N; Abboud, KA; Phanstiel, O (2006). *Journal of the Medicinal Chemistry* 49, 2407-2416.
- 321) "Mechanistic implications in the Morita-Baylis-Hillman alkylation: Isolation and characterization of an intermediate." Krafft, ME; Haxell, TFN; Seibert, KA; Abboud, KA (2006). *Journal of the American Chemical Society* 128, 4174-4175.
- 320) "Conformational locking for band gap control in 3,4-propylenedioxythiophene based electrochromic polymers." Walczak, RM; Cowart, JS; Abboud, KA; Reynolds, JR (2006). *Chemical Communications*, 1604-1606.
- 319) "Synthesis and reactivity of molybdenum imido diamido metallacyclopentenes and metallacyclopentadienes and the mechanism of ethylene exchange with metallacyclopentane complexes." Ison, EA; Abboud, KA; Boncella, JM (2006). *Organometallics*, 25, 1557-1564.
- 318) "Largest mixed transition metal/actinide cluster: A bimetallic Mn/Th complex with a [Mn₁₀Th₆O₂₂(OH)₂](18⁺) core." Mishra, A; Abboud, KA; Christou, G (2006). *Inorg. Chem.*, 45, 2364-2366.

- 317) "Mixed 3d/4d and 3d/4f metal clusters: Tetranuclear (Fe₂M₂III)-M-III (M-III = Ln, Y) and (Mn₂M₂III)-M-IV (M = Yb, Y) complexes, and the first Fe/4f single-molecule magnets." Murugesu, M, Mishra, A, Wernsdorfer, W, Abboud, KA, Christou, G (2006). *Polyhedron*, 2592, 613-625.
- 316) "Synthesis and structural investigation of tungsten imido amidinate and guanidinate complexes." Wilder, CB, Reitfort, LL, Abboud, KA, McElwee-White, L (2006). *Inorg. Chem.*, 45(1), 263-268.
- 315) "Synthesis and reactivity of molybdenum(IV) complexes with alkyl and aryl isocyanides." Ison, EA, Ortiz, CO, Abboud, K Boncella, JM (2005). *Organometallics*, 24926, 6310-6318.
- 314) "(NH₄)₃CrO₈: A new S=1/2 system exhibiting no magnetic transition down to 0.3 K." Harter, A, Cage, B, Nguyen, P, Abboud, KA, Dalal, NS (2005). *Polyhedron*, 24916-17, 2350-2354.
- 313) "Two isomeric [Mn₁₂O₁₂(OMe)(2)(O₂CPh)(16)(H₂O)(2)](2-) single-molecule magnets and a Mn-III polymer prepared by a reductive aggregation synthetic route." Tasiopoulos, AJ, Wernsdorfer, W, Abboud, KA, Christou, G (2005). *Polyhedron*, 24(16-17), 2505-2512.
- 312) "Single-molecule magnets: synthesis, structures and magnetic properties of Mn-11 and Mn-25 clusters." Murugesu, M, Wernsdorfer, W, Abboud, KA, Christou, G (2005). *Polyhedron*, 24(16-17), 2894-2899.
- 311) "Highly pyramidalized cage alkene formed via the double Diels-Alder cycloaddition of syn-4,5,13,14-bis(dehydro)octafluoroparacyclophane to anthracene." Dolbier, WR, Zhai, YA, Battiste, MA, Abboud, KA, Ghiviriga, I 92005). *J. Org. Chem.*, 70(25), 10336-10341.
- 310) "Coupling of an aldehyde or ketone to pyridine mediated by a tungsten imido complex." Hayton, TW, Boncella, JM, Scott, BL, Abboud, KA, Mills, RC (2005). *Inorg. Chem.*, 44(25), 9506-9517.
- 309) "Single-molecule magnets: A reductive aggregation route to new types of Mn-12 complexes." King, P, Wernsdorfer, W, Abboud, KA, Christou, G (2005). *Inorg. Chem.*, 44(24), 8659-8669.
- 308) "A new route into hexahydro-cyclopenta[b]pyrrole-cis-3a,6-diols. Synthesis of constrained bicyclic analogues of pyrrolidine azasugars." Sun, H, Abboud, KA, Horenstein, NA 92005). *Tetrahedron*, 61(44), 10462-10469.
- 307) "High-nucularity homometallic iron and nickel clusters: Fe-22 and Ni-24 complexes from the use of N-methyldiethanolamine." Foguet-Albiol, D, Abboud, KA, Christou, G (2005). *Chem. Comm.*, 34, 4282-4284.
- 306) "Tungsten allylimido complexes Cl-4(RCN)W(NC₃H₅) as single-source CVD precursors for WN_xCy thin films. Correlation of precursor fragmentation to film properties." Bchir, OJ, Green, KM, Ajmera, HM, Zapp, EA, Anderson, TJ, Brooks, BC, Reitfort, LL, Powell, DH, Abboud, KA, McElwee-White, L (2005) *Journal of the American Chemical Society*, 127(21), 7825-7833.
- 305) "[Mn₁₂O₁₂(OMe)(2)(O₂CPh)(16)(H₂O)(2)](2)-single-molecule magnets and other manganese compounds from a reductive aggregation procedure." Tasiopoulos, AJ, Wernsdorfer, W, Abboud, KA & Christou, G (2005). *Inorganic Chemistry*, 44(18) 6324-6338.
- 304) "Electrochromic conjugated N-salicylidene-aniline (anil) functionalized pyrrole and 2,5-dithienylpyrrole-based polymers." Thompson, BC, Abboud, KA, Reynolds, JR Nakatani, K & Audebert, P. (2005). *New Journal of Chemistry* 29(9), 1128-1134.
- 303) "High-nucularity homometallic iron and nickel clusters: Fe-22 and Ni-24 complexes from the use of N-methyldiethanolamine." Foguet-Albiol, D, Abboud, KA & Christou, G (2005). *Chemical Communications*, 34, 4282-4284.

- 302) "Single-molecule magnets: Structural characterization, magnetic properties, and F-19 NMR spectroscopy of a Mn-12 family spanning three oxidation levels." Chakov, NE, Soler, M, Wernsdorfer, W, Abboud, KA & Christou, G (2005). *Inorganic Chemistry*, 44(15), 5304-5321.
- 301) "New polynuclear manganese clusters from the use of the hydrophobic carboxylate ligand 2,2-dimethylbutyrate." Chakov, NE, Zakharov, LN, Abboud, KA & Christou, G (2005). *Inorganic Chemistry*, 44(13), 4555-4567.
- 300) "Bond valence sums and structural studies of antimony complexes containing Sb bonded only to O ligands." Palenik, RC, Abboud, KA & Palenik, GJ 92005). *Inorganica Chimica Acta*, 358(4), 1034-1040.
- 299) "A platinum acetylide polymer with sterically demanding substituents: Effect of aggregation on the triplet excited state." Zhao, XM, Cardolaccia, T, Farley, RT, Abboud, KA & Schanze, KS (2005). *Inorganic Chemistry*, 44(8), 2619-2627.
- 298) "Highly active, regioselective, and enantioselective hydroformylation with Rh catalysts ligated by bis-3,4-diazaphospholanes." Clark, TP, Landis, CR, Freed, SL, Klosin, J & Abboud, KA. (2005). *JACS*, 127(14), 5040-5042.
- 297) "A novel two-fold interpenetrating 3D 4(2)center dot 8(4) network self-assembled from a new 1D coordination polymer." Lu, JY, Fernandez, WA, Ge, ZH, & Abboud, KA (2005). *New Journal of Chemistry*, 29(3), 434-438.
- 296) "Initial observation of magnetization hysteresis and quantum tunneling in mixed manganese-Lanthanide single-molecule magnets." Mishra, A, Wernsdorfer, W, Abboud, KA & Christou, G (2004). *JACS*, 126(48) 15648-15649.
- 295) "A reductive-aggregation route to [Mn₁₂O₁₂(OMe)₂(O₂CPh)₁₆(H₂O)₂]₂- single-molecule magnets related to the [Mn-12] family." Taiopoulos, AJ, Wernsdorfer, F, Abboud, KA and Christou, G. (2004). *Angewandte Chemie-International Edition*, 43(46) 6338-6342.
- 294) "New hexanuclear and dodecanuclear Fe(III) clusters with carboxylate and alkoxidide-based ligands from cluster aggregation reactions." Marugesu, M., Abboud, KA and Christou, G. (2004). *Polyhedron*, 23(17) 2779-2788.
- 293) "Synthesis and mechanistic investigations of the decomposition of beta-hydrogen containing W(VI) dialkyl complexes: beta-H elimination vs. beta-H abstraction." Wang, SYS, Abboud, KA & Boncella, JM (2004). *Polyhedron*, 23(17) 2733-2749.
- 292) "The first high oxidation state manganese-calcium cluster: Relevance to the water oxidizing complex of photosynthesis." Mishra, A, Wernsdorfer, W, Abboud, KA & Christou, G (2005). *Chemical Communications*, 2005(1) 54-56.
- 291) "Donor-mediated band gap reduction in a homologous series of conjugated polymers". Thomas, CA, Zong, KW, Abboud, KA, Steel, PJ & Reynolds, JR (2005). *JACS*, 126(50) 16440-16450.
- 290) "Ethylene oxide polymerization catalyzed by aluminum complexes of sulfur-bridged polyphenols." Wasserman, EP, Annis, I, Chopin, LJ, Price, PC, Petersen, JL & Abboud, KA (2005). *Macromolecules*, 38(2) 322-333.
- 289) "Dramatic variation of magnetic exchange through double and end-on azide bridges in a series of ladder-like copper(II) coordination polymers." Woodward, JD, Backov, RV, Abboud, KA, Dai, D, Koo, HJ, Whangbo, MH & Talham, DR (2005). *Inorganic Chemistry*, 44(3), 638-648.

- 288) "Preparation of nitropyridines by nitration of pyridines with nitric acid." Katritzky, AR, Scriven, EFV, Majumder, S, Akhmedova, RG, Vakulenko, AV, Akhmedov, NG, Murugan, R & Abboud, KA (2005). *Organic & Biomolecular Chemistry*, 3(3) 538-541.
- 287) "DFT computational rationalization of an unusual spin ground in an Mn-12 single-molecule magnet with a low-symmetry loop structure." Foguet-Albiol, O'Brien, TA, Wernsdorfer, F, Mouton, B, Zaworotko, MJ, Abboud, KA and Christou, G. (2005). *Angewandte Chemie-International Edition*, 44(6) 897-901.
- 286) "New structural motifs in manganese single-molecule magnetism from the use of triethanolamine ligands." Marugesu, M., Wernsdorfer, F, Abboud, KA and Christou, G. (2005). *Angewandte Chemie-International Edition*, 44(6) 892-896.
- 285) "The one-dimensional structure of Cu(dmen)(2)Pd(CN)(4) (dmen is N,N-dimethylethylenediamine)." Kuchar, J; Cernak, J; Abboud, KA. 2004. *ACTA CRYSTALLOGRAPHICA SECTION C-CRYSTAL STRUCTURE COMMUNICATIONS*, 60: M492-M494, Part 10.
- 284) "Mixed-valence (MnMnIV)-Mn-III clusters [Mn₇O₈(O₂SePh)(8)(O₂CMe)(H₂O)] and [Mn₇O₈(O₂SePh)(9)(H₂O)]: Single-chain magnets exhibiting quantum tunneling of magnetization." Chakov, NE; Wernsdorfer, W; Abboud, KA; Christou, G. 2004. *INORGANIC CHEMISTRY*, 43 (19): 5919-5930.
- 283) "Evidence for the S=9 excited state in Mn-12-bromoacetate measured by electron paramagnetic resonance." Petukhov, K; Hill, S; Chakov, NE; Abboud, KA; Christou, G. 2004. *PHYSICAL REVIEW B*, 70 (5): art. no.- 054426.
- 282) "Trinuclear Cu(pn)(2)Ag-2(CN)(4): preparation, crystal structure properties (pn=1,2-diaminopropane)." Triscikova, L; Chomic, J; Abboud, KS; Park, JH; Meisel, MW; Cernak, J. 2004. *INORGANICA CHIMICA ACTA*, 357 (9): 2763-2768.
- 281) "Synthesis, structure, and magnetic properties of a Mn-21 single-molecule magnet." Sanudo, EC; Wernsdorfer, W; Abboud, KA; Christou, G. 2004. *INORGANIC CHEMISTRY*, 43 (14): 4137-4144.
- 280) "The synthesis of symmetrical bis-1,2,5-thiadiazole ligands." Philipp, DM; Muller, R; Goddard, WA; Abboud, KA; Mullins, MJ; Snelgrove, RV; Athey, PS. 2004. *TETRAHEDRON LETTERS*, 45 (28): 5441-5444.
- 279) "A palladium-catalyzed synthesis of 2-alkylidene-pyrrolo[c]-1,4-dioxanes: synthesis of 3,4-(cis-1,2-dimethyl)ethylenedioxypyrrrole." Zong, KW; Abboud, KA; Reynolds, JR. 2004. *TETRAHEDRON LETTERS*, 45 (25): 4973-4975.
- 278) "Synthesis and application of a new bisphosphite ligand collection for asymmetric hydroformylation of allyl cyanide." Cobley, CJ; Gardner, K; Klosin, J; Praquin, C; Hill, C; Whiteker, GT; Zanotti-Gerosa, A; Petersen, JL; Abboud, KA. 2004. *JOURNAL OF ORGANIC CHEMISTRY*, 69 (12): 4031-4040.
- 277) "Photophysics and photochemistry of stilbene-containing platinum acetylides." Haskins-Glusac, K; Ghiviriga, I; Abboud, KA; Schanze, KS. 2004. *JOURNAL OF PHYSICAL CHEMISTRY, B* 108 (16): 4969-4978.
- 276) "Alkyl aluminum induced diamide transfer from group 6 metal imido diamido compounds." Boncella, JM; Abboud, KA; Ison, EA. 2003. *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*, 225: U152-U152, Part 2.
- 275) "Synthesis and electrochemistry of Ru/Pd, Ru/Pt, Ru/Au and Ru/Cu heterobimetallic complexes." Yang, Y; Abboud, KA; McElwee-White, L. 2003. *ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY*, 225: U155-U155, Part 2.

- 274) "Synthesis of versatile bicyclo[5.4.0]undecane systems from tetrachlorocyclopropene." Batson, WA; Abboud, KA; Battiste, MA; Wright, DL. 2004. *TETRAHEDRON LETTERS*, 45 (10): 2093-2096.
- 273) "Alkylaluminum-induced diamide transfer from group 6 imido diamido complexes." Ison, EA; Abboud, KA; Ghiviriga, I; Boncella, JM. 2004. *ORGANOMETALLICS*, 23 (5): 929-931.
- 272) "Bicyclo[3.2.1]octane synthons from cyclopropenes: Functionalization of cycloadducts by nucleophilic additions." Orugunty, RS; Wright, DL; Battiste, MA; Helmich, RJ; Abboud, K. 2004. *JOURNAL OF ORGANIC CHEMISTRY*, 69 (2): 406-416.
- 271) "Bridged synthons from tetrabromocyclopropene: Studies on the rearrangement of the primary Diels-Alder adduct with 2,5-dimethylfuran." Orugunty, RS; Ghiviriga, I; Abboud, KA; Battiste, MA; Wright, DL. 2004. *JOURNAL OF ORGANIC CHEMISTRY*, 69 (2): 570-572.
- 270) "Mixed transition-metal-lanthanide complexes at higher oxidation states: Heteronuclear Ce-IV-Mn-IV clusters." Tasiopoulos, AJ; O'Brien, TA; Abboud, KA; Christou, G. 2004. *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*, 43 (3): 345-349.
- 269) "Divalent ansa-zirconocenes: Stereoselective synthesis and high activity for propylene polymerization." Chen, EYX; Campbell, RE; Devore, DD; Green, DP; Link, B; Soto, J; Wilson, DR; Abboud, KA. 2004. *JOURNAL OF THE AMERICAN CHEMICAL SOCIETY*, 126 (1): 42-43.
- 268) "Reactions of seven coordinate complexes. Synthesis, structure, and copper complex of the novel ligand 3-methyltriazolo(1,5-a)6-acetylsemicarbazonepyridine." Abboud, KA; Palenik, RC; Palenik, GJ. 2004. *INORGANICA CHIMICA ACTA*, 357 (1): 321-324.
- 267) "Increased reactivity of the center dot Cr(CO)(3)(C₅Me₅) radical with thiones versus thiols: A theoretical and experimental investigation." Sukcharoenphon, K; Moran, D; Schleyer, PV; McDonough, JE; Abboud, KA; Hoff, CD. 2003. *INORGANIC CHEMISTRY*, 42 (25): 8494-8503.
- 266) "Iron chelation promoted by desazadesferrithiocin analogs: An enantioselective barrier." Bergeron, RJ; Wiegand, J; Weimar, WR; McManis, JS; Smith, RE; Abboud, KA. 2003. *CHIRALITY*, 15 (7): 593-599.
- 265) "Preparation and properties of new Fe-6 and Fe-8 clusters of iron(III) with tripodal ligands." Murugesu, M; Abboud, KA; Christou, G. 2003. *DALTON TRANSACTIONS*, (23): 4552-4556.
- 264) "Heptanuclear and decanuclear manganese complexes with the anion of 2-hydroxymethylpyridine." Harden, NC; Bolcar, MA; Wernsdorfer, W; Abboud, KA; Streib, WE; Christou, G. 2003. *INORGANIC CHEMISTRY*, 42 (22): 7067-7076.
- 263) "Heterobimetallic complexes with dppm-bridged Ru/Pd, Ru/Pt, Ru/Au and Ru/Cu centers". Yang, Y; Abboud, KA; McElwee-White, L. 2003. *DALTON TRANSACTIONS*, (22): 4288-4296.
- 262) "Aquachloro(1,4,8,11-tetraazaundecane)-nickel(II) chloride". Oblezov, AE; Talham, DR; Abboud, KA. 2003. *ACTA CRYSTALLOGRAPHICA SECTION E-STRUCTURE REPORTS ONLINE*, 59: M1070-M1071, Part 11.
- 261) "Structural, thermal, and magnetic properties of three transition metal-4,4'-bipyridine coordination polymers: [Ni(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Co(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Cu(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Zn(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Fe(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Mn(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Cr(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Ti(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [V(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Nb(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Ta(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [W(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Mo(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Rh(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Pd(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Pt(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Au(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Cu(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Zn(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Fe(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Mn(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Cr(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Ti(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [V(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Nb(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Ta(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [W(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Mo(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Rh(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Pd(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Pt(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Au(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Cu(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Zn(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Fe(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Mn(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Cr(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); [Ti(4,4'-bipy)(3)(H₂O)(2)][ClO₄](2)center dot 1.4(4,4'-bipy)center dot 3(H₂O); 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- bipy)(3)(DMSO)(2)][ClO₄](2)center dot 2(4,4 '-bipy)." Woodward, JD; Backov, R; Abboud, KA; Ohnuki, H; Meisel, MW; Talham, DR. 2003. POLYHEDRON, 22 (20): 2821-2830.
- 260) "Radiographic clearance of blunt cervical spine injury: Plain radiograph or computed tomography scan?" Griffen, MM; Frykberg, ER; Kerwin, AJ; Schinco, MA; Tepas, JJ; Rowe, K; Abboud, J. 2003. JOURNAL OF TRAUMA-INJURY INFECTION AND CRITICAL CARE, 55 (2): 222-226.
- 259) "Facile preparation and photophysics of near-infrared luminescent lanthanide(III) monoporphyrinate complexes." Foley, TJ; Harrison, BS; Knefely, AS; Abboud, KA; Reynolds, JR; Schanze, KS; Boncella, JM. 2003. INORGANIC CHEMISTRY, 42 (16): 5023-5032.
- 258) "Reaction of [Mn₁₂O₁₂(O₂CR)₁₆(H₂O)₄] single-molecule magnets with non-carboxylate ligands." Chakov, NE; Abboud, KA; Zakharov, LN; Rheingold, AL; Hendrickson, DN; Christou, G. 2003. POLYHEDRON, 22 (14-17): 1759-1763.
- 257) "A new family of Mn-12 single-molecule magnets: replacement of carboxylate ligands with diphenylphosphinates." Brockman, JT; Abboud, KA; Hendrickson, DN; Christou, G. 2003. POLYHEDRON, 22 (14-17): 1765-1769.
- 256) "Single-molecule magnetism behavior of [Mn₁₂O₁₂(O₂CR)₁₆(H₂O)₄](2-) salts." Soler, M; Wernsdorfer, W; Abboud, KA; Hendrickson, DN; Christou, G. 2003. POLYHEDRON, 22 (14-17): 1777-1782.
- 255) "[Mn-18](2+) and [Mn-21](4+) single-molecule magnets." Sanudo, EC; Brechin, EK; Boskovic, C; Wernsdorfer, W; Yoo, J; Yamaguchi, A; Concolino, TR; Abboud, KA; Rheingold, AL; Ishimoto, H; Hendrickson, DN; Christou, G. 2003. POLYHEDRON, 22 (14-17): 2267-2271.
- 254) "New application of Burgess reagent in its reaction with epoxides." Rinner, U; Adams, DR; dos Santos, ML; Abboud, KA; Hudlicky, T. 2003. SYNLETT, (9): 1247-1252.
- 253) "Single-molecule magnets. A Mn-12 complex with mixed carboxylate-sulfonate ligation: [Mn₁₂O₁₂(O₂CMe)₈(O₃SPh)₈(H₂O)₄]." Chakov, NE; Wernsdorfer, W; Abboud, KA; Hendrickson, DN; Christou, G. 2003. DALTON TRANSACTIONS, (11): 2243-2248.
- 252) "An Fe-4 cluster with a slowly relaxing paramagnetic excited state: [Fe₄O(OH)(5)(tacn)(4)]I-7 center dot 2.5 H₂O. Zipse, D; Abboud, KA; Dalal, NS. 2003. JOURNAL OF APPLIED PHYSICS, 93 (10): 7086-7088, Part 2.
- 251) "Single-molecule magnets: Two-electron reduced version of a Mn-12 complex and environmental influences on the magnetization relaxation of (PPh₄)(2)[Mn₁₂O₁₂(O₂CCHCl₂)₁₆(H₂O)₄]." Soler, M; Wernsdorfer, W; Abboud, KA; Huffman, JC; Davidson, ER; Hendrickson, DN; Christou, G. 2003. JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, 125 (12): 3576-3588.
- 250) "Synthesis and reactivity of hydridotris(1-pyrazolyl)borate tungsten(VI) amido alkylidyne complexes." Doufou, P; Abboud, KA; Boncella, JM. 2003. INORGANICA CHIMICA ACTA, 345: 103-112.
- 249) "Symmetric and asymmetric dinuclear manganese(IV) complexes possessing a [Mn-2(IV)(mu-O)(2)(mu-O₂CMe)](3+) core and terminal Cl⁻ ligands." Bhaduri, S; Tasiopoulos, AJ; Bolcar, MA; Abboud, KA; Streib, WE; Christou, G. 2003. INORGANIC CHEMISTRY, 42 (5): 1483-1492.
- 248) "New family of Mn-12 single-molecule magnets: Replacement of carboxylate ligands with diphenylphosphinate groups.." Brockman, JT; Boskovic, C; Abboud, KA; Hendrickson, DN; Christou, G. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 223: A44-A44, Part 2.

- 247) "Synthesis of a novel [Mn₃O₄](4+) core relevant to the WOC in photosystem II." Bhaduri, S; Tasiopoulos, A; Pink, M; Abboud, KA; Christou, G. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 223: A44-A44, Part 2.
- 246) "Electrochemical oxidation of methanol with Ru/Pd, Ru/Pt and Ru/Au heterobimetallic complexes.." McElwee-White, L; Yang, Y; Matare, G; Abboud, KA; Tess, ME. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 223: A49-A49, Part 2.
- 245) "Synthesis, structure, and reactivity of molybdenum imido alkyne complexes.." Boncella, JM; Ison, EA; Cameron, TM; Shelton, RG; Abboud, KA. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY, 223: A54-A54, Part 2.
- 244) Derivatives of Ln(III) chloride tetraphenylporphyrin complexes.. Foley, TJ; Boncella, JM; Abboud, KA. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 223: A72-A72, Part 2.
- 243) "Synthesis, characterization, and reactivity of a molybdenum(IV) stretched-dihydrogen complex.." Cameron, TM; Boncella, JM; Abboud, KA; Ghiviriga, I. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 223: A80-A80, Part 2.
- 242) "Synthesis and Raman study of the nanomagnet Fe-8 and its analogs.." North, JM; van de Burgt, B; Zipse, D; Abboud, K; Dalal, NS. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 223: C70-C70, Part 2.
- 241) "Synthesis, structure, and magnetic properties of a new molecular magnet Fe-8(BR_{0.1}I_{0.9})₈.." Zipse, D; North, JM; Abboud, K; Dalal, NS. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 223: C84-C84, Part 2.
- 240) "A new crosslinkable polymer network exhibiting multi-color and high contrast electrochromism.. "Reeves, BD; Thompson, BC; Abboud, KA; Smarts, BE; Reynolds, JR. 2002. ABSTRACTS OF PAPERS OF THE AMERICAN CHEMICAL SOCIETY 223: D80-D80, Part 2.
- 239) "Safety and efficacy of repifermin (KGF-2) in reducing mucositis in patients undergoing autologous hematopoietic stem cell transplantation (auto-HSCT) - Results of a phase 2a trial.." Freytes, C; LeVeque, F; Meisenberg, B; Taylor, C; Ratanatharathorn, V; Schubert, M; Odenheimer, D; Chesser, N; Navarro, W; Khan, S; deMagalhaes-Silverman, M; Abboud, C; Costa, J. 2001. BLOOD 98 (11): 346B-347B, Part 2.
- 238) "Catalyzed Reformatsky reactions with ethyl bromofluoroacetate for the synthesis of alpha-fluoro-beta-hydroxy acids." Ocampo, R; Dolbier, WR; Abboud, KA; Zuluaga, F. 2002. JOURNAL OF ORGANIC CHEMISTRY 67 (1): 72-78.
- 237) "4,5-dehydrooctafluoro[2.2]paracyclophe: facile generation and extraordinary Diels-Alder reactivity". Battiste, MA; Duan, JX; Zhai, YA; Ghiviriga, I; Abboud, KA; Roitberg, A; Shelton, GR; Dolbier, WR. (2002). TETRAHEDRON LETTERS, 43 (39): 7047-7049.

- 236) "4,5-dehydro- and 4,5,15,16-bis(dehydro)octafluoro[2.2]paracyclophanes: Facile generation and extraordinary Diels-Alder reactivity". Battiste, MA; Duan, JX; Zhai, YA; Ghiviriga, I; Abboud, KA; Dolbier, WR. (2003). *JOURNAL OF ORGANIC CHEMISTRY*, 68 (8): 3078-3083.
- 235) "Reactions of TFDA with ketones. Synthesis of difluoromethyl 2,2-difluorocyclopropyl ethers". Cai, XH; Zhai, Y; Ghiviriga, I; Abboud, KA; Dolbier, WR. (2004). *JOURNAL OF ORGANIC CHEMISTRY*, 69 (12): 4210-4215.
- 234) "Single-molecule magnets: A Mn-25 complex with a record S=51/2 spin for a molecular". Murugesu, M; Habrych, M; Wernsdorfer, W; Abboud, KA; Christou, G. (2004). *JACS*, 126 (15): 4766-4767.
- 233) "A family of Mn-16 single-molecule magnets from a reductive aggregation route". King, P; Wernsdorfer, W; Abboud, KA; Christou, G. (2004). *INORGANIC CHEMISTRY*, 43 (23): 7315-7323.
- 232) "Synthesis, structure, and dynamics of molybdenum imido alkyne complexes". Ison, EA; Cameron, TM; Abboud, KA; Boncella, JM. (2004). *ORGANOMETALLICS*, 23 (17): 4070-4076.
- 231) "Electrolyte-controlled redox conductivity and n-type doping in poly(bis-EDOT-pyridine)s". DuBois, CJ; Abboud, KA; Reynolds, JR. (2004). *JOURNAL OF PHYSICAL CHEMISTRY B*, 108 (25): 8550-8557.
- 230) "Giant single-molecule magnets: A {Mn-84} torus and its supramolecular nanotubes Source". Tasiopoulos, AJ; Vinslava, A; Wernsdorfer, W; Abboud, KA; Christou, G. (2004). *ANGEWANDTE CHEMIE-INTERNATIONAL EDITION*, 43 (16): 2117-2121
- 229) "Dinuclear oxidative addition of N-H and S-H bonds at chromium. Reaction of Cr-center dot(CO)(3)(C5Me5) with {o-(HA)C6H4S-Cr(CO)(3)(C5Me5)} (A=S, NH) yielding [eta(2)-o-(mu-A)C6H4S-Cr(C5Me5)](2) and H-Cr(CO)(3)(C5Me5)". Sukcharoenphon K, Ju TD, Abboud KA, Hoff CD (2003). *INORGANIC CHEMISTRY* 41 (25): 6769-6774.
- 228) "Ligand dependence of magnetic dimensionality in chromium(IV) complexes: Layered vs three-dimensional antiferromagnets". Ramsey CM, Cage B, Nguyen P, Abboud KA, Dalal NS (2003). *CHEM MATER* 15 (1): 92-99.
- 227) "Synthesis of 'inside-outside' medium-sized rings via ring-closing metathesis". Krafft ME, Cheung YY, Kerrigan SA, Abboud KA (2003). *TETRAHEDRON LETT* 44 (4): 839-843.
- 226) "Preparation and crystal structures of Mn-II, mixed-valent Mn-II/Mn-III, and Mn-III polymeric compounds". Tasiopoulos, AJ; Harden, NC; Abboud, KA; Christou, G (2003). *POLYHEDRON* 22 (1): 133-143.
- 225) "A novel aggregate of [Mn-2(mu-O)(2)] units: [Mn8O10(O2CMe)(6)(H2O)(2)(bpy)(6)](4+) with a serpentine core". Tasiopoulos, AJ; Abboud, KA; Christou, G (2003). *CHEMICAL COMMUNICATIONS*, 5, 580-581.
- 224) "Three bis-*orth*-diynylarenes (BODA)". K. Prasanna, U. Perera, Khalil A. Abboud, Dennis W. Smith Jr., and Mariusz Krawiec (2003). *Acta Cryst. C*59, o107-0110.
- 223) "Synthesis and characterization of N-1-(4-toluenesulfonyl)-N-1-(9-anthracenemethyl)triamines". Wang CJ, Abboud KA, Phanstiel O. (2002). *Journal of Organic Chemistry*, 67 (22), 7865-7868.
- 222) "4,5-dehydrooctafluoro[2.2]paracyclophane: facile generation and extraordinary Diels-Alder reactivity". Battiste MA, Duan JX, Zhai YA, Ghiviriga I, Abboud KA, Roitberg A, Shelton GR, Dolbier WR (2002). *Tetrahedron Letters*, 43 (39), 7047-7049.
- 221) "Synthesis, structure, and biological evaluation of novel N- and O-linked diinositols". Paul BJ, Willis J, Martinot TA, Ghiviriga I, Abboud KA, Hudlicky T. (2002). *Journal Of The American Chemical Society*, 124 (35), 10416-10426.

- 220) "Regiosymmetric dibutyl-substituted poly(3,4-propylenedioxothiophene)s as highly electron-rich electroactive and luminescent polymers". Welsh DM, Kloepfner LJ, Madrigal L, Pinto MR, Thompson BC, Schanze KS, Abboud KA, Powell D, Reynolds JR (2002). *Macromolecules*, 35 (17), 6517-6525.
- 219) "Synthesis and characterization of tantalum(V) complexes containing bis-sulfamide ligands: X-ray crystal structure of Ta[N(Me)(2)](3)[SO₂(NCMe₃)(2)]". Mills RC, Doufou P, Abboud KA, Boncella JM (2002). *Polyhedron*, 21(11), 1051-1055.
- 218) "Silver-promoted reactions of bicyclo[3.2.1]octadiene derivatives:.. Orugunty RS, Wright DL, Battiste MA, Abboud KA (2002). *Org. Lett.*, 4(12), 1997-2000.
- 217) "Synthesis and crystal structures of (fulvanene)W-2(SH)(2)(CO)(6), (fulvalene)W-2(mu-S-2)(CO)(6), and (fulvalene)W-2(mu-S)(CO)(6): Low valent tungsten carbonyl sulfide and disulfide complexes stabilized by the bridging fulvalene ligand". Capps KB, Whitener GD, Bauer A, Abboud KA, Wasserman IM, Vollhardt KPC, Hoff CD (2002). *Inorg. Chem.*, 41(12), 3212-3217.
- 216) "Dual cathodically and anodically coloring electrochromic polymer based on a spiro bipropylenedioxothiophene [(poly(spiroBiProDOT))]. Reeves BD, Thompson BC, Abboud KA, Smart BE, Reynolds JR (2002). *Advanced Materials*, 14(10), 717-723.
- 215) "Indium-bridged chelating diamide group IV metal olefin polymerization catalysts". Patton JT, Bokota MM, Abboud KA (2002). *Organometallics*, 21(10), 2145-2148.
- 214) "Structure and reactivity studies of the first tungsten cyanoalkylidene complex". Cameron TM, Gamble AS, Abboud KA, Boncella JM (2002). *Chem. Comm.* (10), 1148-1149.
- 213) "Thermodynamic properties of [Cu-II(en)(2)(H₂O)][Cu-II(en)(2)Ni₂Cu₂I(CN)(10)]center dot 2H(2)O-S=1/2 magnet with a layered crystal structure". Kajnakova M, Orendacova A, Orendac M, Cernak J, Vlcek A, Feher A, Meisel MW, Abboud KA, Kovac J, Medeova M. (2002). *Czechoslovak Journal Of Physics* 52, A289-A292.
- 212) "Synthesis of Ln(III) chloride tetraphenylporphyrin complexes". Foley TJ, Abboud KA, Boncella JM. (2002). *Inorg. Chem.* 41 (7): 1704-1706.
- 211) "Three different bonding modes of cyano groups in the coordination polymer [Cu(en)(2)(H₂O)][Cu(en)(2)Ni-2-Cu-2(CN)(10)]center dot 2H(2)O (en is 1,2-diaminoethane)". Cernak J, Abboud KA (2002). *Acta Cryst. C*58, m167-m170.
- 210) "Electrochemical Oxidation of Methanol with Ru/Pd, Ru/Pt and Ru/Au Heterobimetallic Complexes". Gilbert J. Matare, Mark E. Tess, Ying Yang Khalil A. Abboud and Lisa McElwee-White (2002). *Organometallics*, 21, 711-716.
- 209) "Studies on the sequential multi-component coupling/Diel-Alder cycloaddition reaction.". Dennis L. Wright, Claude V. Robotham and Khalil A. Abboud (2002). *Tetrahedron Letters* 43, 943-946.
- 208) "The synthesis and reactivity of a molybdenum (IV) stretched-dihydrogen complex". Cameron TM.; Ortiz CG.; Ghiviriga I, Abboud KA.; Boncella James M. (2002). *Journal Of The American Chemical Society*. 124 (6): 922-923.
- 207) "Dioxa-[40]decaphyrin: An analogue of turcasarin with a "figure-eight" structure". Sessler JL; Seidel D, Gebauer A; Lynch V; Abboud KA., (2001). *Journal Of Heterocyclic Chemistry*, 38 (6): 1419-1424.
- 206) "Catalyzed Reformatsky reactions with ethyl bromofluoroacetate for the synthesis of alpha-fluoro-beta-hydroxy acids". Ocampo R.; Dolbier WR.; Abboud KA.; Zuluaga F. (2002). *Journal Of Organic Chemistry*. 67 (1): 72-78.

- 205) "A dimeric constrained-geometry titanium complex linked by double Ti-CH₂-Al-CH₂ heterocycles". Abboud KA.; Nickias PN.; Chen EYX (2002). *ACTA Crystallographica Section C-Crystal Structure Communications*, 58, 41-42.
- 204) "Preparation, crystal structure and magnetic properties of Cu(en)(2)Pd(CN)(4)". Cernak J.; Skorset J.; Abboud KA.; Meisel MW.; Orendac M.; Orendacova A.; Feher A. (2001). *Inorganica Chimica ACTA*. 326 (1): 3-8.
- 203) "{N-[Dimethyl(eta(5)-2,3,4,6-tetramethylindenyl)silyl]cyclobutylamido-kappa N}-(eta(4)-1,4-diphenyl-1,3-butadiene)titanium(II)". Abboud KA.; Nickias PN.; Chen EYX (2001). *ACTA Crystallographica Section C-Crystal Structure Communications*. 57, 1408-1409.
- 202) "Total synthesis of (+/-)-asteriscanolide". Krafft ME.; Cheung YY.; Abboud KA. (2001). *Journal Of Organic Chemistry*. 66 (22): 7443-7448.
- 201) "A chelate-stabilized tungsten-bis(imido) complex". Mills RC.; Boncella JM.; Abboud KA. (2001). *ACTA Crystallographica Section E-Structure Reports Online*. 57, 218-219.
- 200) "[Ni(terpy)(H₂O)]-trans-[Ni-(mu-CN)(2)-(CN)(2)](n), a one-dimensional linear tetracyanonickelete chain". Woodward, J.D., Backov, R., Abboud, K.A. and Talham, D.R. (2001). *Acta Cryst. C* 57: 1027-1029.
- 199) "Carbon-sulfur bond activation of thiophenes by [W(NPh){o-(Me₃SiN)₂C₆H₄}(pyridine)₂]". R. C. Mills, K. A. Abboud, J. M. Boncella (2001). *Chem. Commun.*, 2001, 1506-1507.
- 198) "Crystal engineering of an inclusion coordination polymer with cationic pocket-like structure and its property to form metal-organic nanofibers". Jack Y. Lu, Christine Norman, Khalil A. Abboud and Ana Ison (2001). *Inorganic Chemistry Communications*, 4(9), 459-461.
- 197) "The First Synthesis and Characterization of Both Diastereomers of a Di[2.2]paracyclophane: 4,4'-Bis(1,1,2,2,9,9,10,10-octafluoro[2.2]paracyclophane)". A. J. Roche, J.-X. Duan, W. R. Dolbier, Jr., and K. A. Abboud (2001). *JOC*; 66(21); 7055-7058.
- 196) "Synthesis and Reactivity of a Molybdenum(IV) 4-Butadiene Complex". Thomas M. Cameron, Ion Ghiviriga, Khalil A. Abboud, and James M. Boncella (2001). *Organometallics*; 20(21); 4378-4383.
- 195) "Coordinatively Unsaturated W(IV)-Bis(pyridine) Complexes, a Reactive Source of W(IV)". R. C. Mills, S. Y. S. Wang, K. A. Abboud, and J. M. Boncella (2001). *Inorganic Chemistry*; 40(20); 5077-5082.
- 194) "Synthesis of L-4,4-Difluoroglutamic Acid via Nucleophilic Addition to a Chiral Aldehyde". Yun Ding, Jianqiang Wang, Khalil A. Abboud, Yuelian Xu, William R. Dolbier, Jr., and Nigel G. J. Richards (2001). *JOC*; 2001; 66(19); 6381-6388.
- 193) "Novel Use of Ring Strain to Control Regioselectivity: Alkene-Directed, Palladium-Catalyzed Allylation". Marie E. Krafft, Masaharu Sugiura, and Khalil A. Abboud (2001). *JACS*; 123(37); 9174-9175.
- 192) "Chelating Diamide Group IV Metal Olefin Polymerization Catalysts". Jasson T. Patton, Shaoguang G. Feng and Khalil A. Abboud (2001). *Organometallics*, 20 (16), 3399 –3405.
- 191) "Heteroatom-Substituted Constrained-Geometry Complexes. Dramatic Substituent Effect on Catalyst Efficiency and Polymer Molecular Weight". Jerzy Klosin, William J. Kruper, Jr., Peter N. Nickias, Gordon R. Roof, and Phillip De Waele and Khalil A. Abboud (2001). *Organometallics* 20, 2663-2665.
- 190) "Unusual Molybdenum Mediated C-N Bond Activation". Thomas M. Cameron, Khalil A. Abboud and James M. Boncella (2001). *Chem. Comm.*, 2001, 1224-1225.

- 189) "Low-oxidation-potential conducting polymers derived from 3,4-ethylenedioxypyridine and dialkoxybenzenes". Jennifer A. Irvin, Irina Schwendeman, Youngkwan Lee, Khalil A. Abboud, John R. Reynolds (2001). *J. Polymer Science Part A: Polymer Chemistry*, 39(13), 2164-2178.
- 188) "Hydrated Cr(V) Peroxychromates M₃CrO₈·XH₂O (M = Li, Na, Cs): Model 3d1 Systems Exhibiting Linear Chain Behavior and Antiferromagnetic Interactions ." Brant Cage, William Geyer, Khalil A. Abboud, and Naresh S. Dalal (2001). *Chemistry of Materials*, 13(3); 871-879.
- 187) "Synthesis and Reactivity of Molybdenum(IV) Olefin Complexes Supported by a Chelating Ancillary Ligand". Thomas M. Cameron, Carlos G. Ortiz, Ion Ghiviriga, Khalil A. Abboud, and James M. Boncella (2001). *Organometallics*, 20(10); 2032-2039.
- 186) "Synthesis and Structure of W(η^2 -mp)₂(CO)₃(mp=monoanion of 2-mercaptopurine) and its reactions with 2,2'-pyridine disulfide and/or NO to yield W(η^2 -mp)4, W(η^2 -mp)₂(NO)₂, and W(η^2 -mp)₃(NO)." Sukcharoenphon, K.; Capps, K.B.; Abboud, K.A.; and Hoff, C.D. (2001). *Inorg. Chem.* 40(10), 2402-2408
- 185) "The synthesis of Mo(iv) arene complexes by the hydrogenation of Mo(iv) olefin complexes". Ortiz, Carlos G.; Abboud, Khalil A.; Cameron, Tom M.; and Boncella, James M. (2001). *Chem. Commun. (Cambridge)*, (3), 247-248.
- 184) "Synthesis and Biological Evaluation of 17 α -Alkoxyestra-1,3,5(10)-trienes as Potential Neuroprotectants Against Oxidative Stress". Prokai, Laszlo; Oon, Su-Min; Prokai-Tatrai, Katalin; Abboud, Khalil A.; Simpkins, James W. (2001). *J. Med. Chem.*, 44(1), 110-114.
- 183) "Synthesis and Reactivity of a Novel, Dimeric Derivative of Octafluoro[2.2]paracyclophe. A New Source of Trifluoromethyl Radicals". Dolbier, William R., Jr.; Duan, Jian-Xin; Abboud, Khalil; Ameduri, Bruno (2000). *J. Am. Chem. Soc.*, 122(49), 12083-12086.
- 182) "Tl Ni(tn)(2)Ag-2(CN)(4) and Cu(tn)(2)Ag-2(CN)(4) (tn=1,3-diaminopropane): preparation, crystal structure, magnetic and spectral properties". Cernak, J.; Abboud, K.A.; Chomic, J.; Meisel, M.W.; Orendac, M.; Orendacova, A.; Feher, A. (2000). *Inorg. Chim. Acta*, 311, 126-132.
- 181) "Unusual Weakly Coordinating Anion Reactivity in Metallocene Chemistry. Formation of Tantalocene Cation-Dinuclear Anion Pairs". Chen, Eugene Y.-X.; Abboud, Khalil A (2000). *Organometallics*, 19(26), 5541-5543.
- 180) "Bergman cyclopolymerization of bisphenol-A derived tetraynes". Smith, Dennis W., Jr.; Perera, K. Prasanna U.; Abboud, Khalil A (2000). *Polym. Prepr. (Am. Chem. Soc., Div. Polym. Chem.)*, 41(2), 1225-1226.
- 179) "Catalytic oxidation of hydrocarbons". Richardson, David; Xu, Cheng; Abboud, Khalil. PCT Int. Appl. (2000), 34 pp. CODEN: PIXXD2 WO 0048980 A1 20000824 .
- 178) "Ligand Exchange and Alkyl Abstraction Involving (Perfluoroaryl)boranes and -alanes with Aluminum and Gallium Alkyls". Jerzy Klosin, Gordon R. Roof, Eugene Y.-X. Chen and Khalil A. Abboud (2000). *Organometallics* 19(23), 4684-4686.
- 177) "New Family of Weakly Coordinating Anions". Robert E. LaPointe, Gordon R. Roof, Khalil A. Abboud, and Jerzy Klosin (2000). *JACS* 122(39), 9560-9561.
- 176) "Novel Ferrocenyl Polyene Derivatives and Their Binding to Unmodified Cyclodextrins". Jian Liu, René Castro, Khalil A. Abboud, and Angel E. Kaifer (2000). *JOC* 65(21), 6973-6977.
- 175) "Poly(3,4-alkylenedioxypyrrrole)s: Highly Stable Electronically Conducting and Electrochromic Polymers, Macromolecules". Philippe Schottland, Kyukwan Zong, Carleton L. Gaupp, Barry C. Thompson,

Christopher A. Thomas, Irina Giurgiu, Roberta Hickman, Khalil A. Abboud, and John R. Reynolds (2000). *Macromolecules*, 33(19), 7051-7061.

- 174) "Aryloxide Ligand Modification: New Classical Catalytic Systems for Olefin Metathesis". Fernando J. Gomez, Michael S. Manak, Khalil A. Abboud and Kenneth B. Wagener (2000). *J. Mol. Cat. A: Chem.* 160, 145-156.
- 173) "Spin-charge coupling for dilute La-doped Ca₃Ru₂O₇". G. Cao, K. Abboud, S. McCall, J. Crow and R.P. Guertin (2000). *Phys. Rev. B*, 62, 998-1003.
- 172) "Bimetallic Pt/Ru Complexes as Catalysts for the Electrooxidation of Methanol." Mark E. Tess, Pamela L. Hill, Karen E. Torracca, Margaret E. Kerr, Khalil A. Abboud, and Lisa McElwee-White (2000). *Inorg. Chem.*, 39, 3942-3944
- 171) "Synthesis and Characterization of Organozirconium Complexes Bearing a New Trianionic Multidentate Cyclopentadienyl Ligand by Use of Amine Elimination". Doufou, P; Abboud, K.A. and Boncella, J.M. (2000). *J. Organomet. Chem.*, 603, 213-219.
- 170) "Synthesis of d2 Tungsten Arene Complexes and Their Reaction with Diphenylacetylene" R. C. Mills, K. A. Abboud, and J. M. Boncella (2000). *Organometallics*, 19(16); 2953-2955.
- 169) "Ni(bipy)₂Ni(CN)₄, a new type of one-dimensional square tetracyano complex." Cernak, Juraj & Abboud, Khalil A. (2000). *Acta Cryst. C*56, 783-785.
- 168) "Magnetic and thermodynamic properties of Ni(C₁₀H₈N₂)₂Ni(CN)₄-H₂O: A S=1 Heisenberg antiferromagnetic chain with strong in-plane anisotropy and subcritical exchange coupling." Orndac, M.; Cizmar, E.; Orendacova, A.; Cernak, J.; Feher, A.; Meisel, M.W.; Abboud, K.A.; Zvyagin, S.; Sieling, M.; Reith, T.; Luthi, B. (2000) *Phys.Rev.B: Condens. Matter Mater. Phys.*, 61 (5), 3223-3226.
- 167) "Molybdenum η 2-imine complex formation and the reductive coupling of imines." Cameron, Tom M.; Ortiz, Carlos G.; Abboud, Khalil A.; Boncella, James M.; Baker, R. Tom; Scott, Brian L. (2000) *Chem. Commun.* (7), 573-574.
- 166) "X-ray and computational studies of some 5-(perfluoroalkenyl) uracils." Pluskota, D.; Fiedorow, P.; Abboud, K.A.; Klosin, J.; Koroniak, H. (2000). *J.Fluorine Chem.* 102 (1-2), 111-117.
- 165) "Bond valence sums in coordination chemistry, calculation of the oxidation state of chromium in complexes containing only Cr-O bonds and a redetermination of the crystal structure of potassium tetra(peroxo)chromate(V)." Wood, Richard M.; Abboud, Khalil A.; Palenik, Ruth C.; Palenik Gus J. (2000). *Inorg.Chem.* 39 (10), 2065-2068.
- 164) "A G-quartet formed in the absence of a templating metal cation: a new 8-(N,N-dimethylaniline) guanosine derivative." Sessler, Jonathan L.; Sathiosatham, Muhunthan; Doerr, Katherine; Lynch, Vincent; Abboud, Khalil A. (2000). *Angew.Chem.Int.Ed.* 39 (7), 1300-1303.
- 163) "A new asymmetric route to substituted piperidines: synthesis of N-alkyl-3,4-dihydroxy-5-alkylpiperidines." Sun, Hongbin; Millar, Kim M.; Yang, Jingsong; Abboud, Khalil; Hornstein, Benjamin A. (2000). *Tetrahedron Lett.*, 41 (16), 2801-2804.
- 162) "Intramolecular charge transfer in pyridinium-substituted Ru-polypyridine complexes." Shen,Y.; Walters,K.A.; Abboud,K.A.; Schanze,K.S. (2000). *Inorg.Chim.Acta*, 300-302, 414-426.
- 161) "Intramolecular N-acyliminium ion-olefin cyclization in the synthesis of optically pure isoquinoline derivatives: control of stereochemistry and application to synthesis of morphine alkaloids." Bottari, Patricia; Endoma, Mary Ann A.; Hudlicky, Tomas; Ghiviriga, Ion; Abboud, Khalil A. (1999). *Collect. Czech. Chem. Commun.* 64(2), 203-216.

- 160) "The Enthalpy of Insertion of Sulfur into the Metal-Hydrogen Bond. Synthetic, Structural, and Calorimetric Study of the Complexes HS-M(CO)3C5R5 [M = Cr, Mo, W; R = H, Me]." Bauer, Andreas; Capps, Kenneth B.; Wixmerten, Bodo; Abboud, Khalil A.; Hoff, Carl D. (1999). *Inorg. Chem.*, 38(9), 2136-2142.
- 159) "Novel cavitands containing electrochemically active 4,4'-bipyridinium subunits." Peinador, Carlos; Roman, Esteban; Kaifer, Angel E.; Abboud, Khalil A. (1999). *Chem. Commun. (Cambridge)*, (18), 1887-1888.
- 158) "Synthesis of Chelate-Supported Dialkyl and Alkylidene Complexes of Molybdenum(VI)." Ortiz, Carlos G.; Abboud, Khalil A.; Boncella, James M. (1999). *Organometallics*, 18(21), 4253-4260.
- 157) "Reaction of .bul.NO Thiolate and Thiol Complexes: Elimination of PhSNO from W(phen)(CO)2(SPh)2, CO from W(phen)(CO)2((-S)2Arene), and HNO from W(phen)(CO)3(RSH)." Capps, Kenneth B.; Bauer, Andreas; Abboud, Khalil A.; Hoff, Carl D. (1999). *Inorg. Chem.*, 38(26), 6212-6217.
- 156) "Synthesis and Characterization of Cyclohexadienyl-Based Constrained Geometry Complexes." Feng, Shaoguang; Klosin, Jerzy; Kruper, William J. ,Jr.; McAdon, Mark H.; Neithamer, David R.; Nickias, Peter N.; Patton, Jasson T.; Wilson, David R.; Abboud, Khalil A.; Stern, Charlotte L. (1999). *Organometallics*, 18, 1159-1167.
- 155) "Synthesis of Molybdenum Dicarbonyl Complexes Bearing Tethered Homoallylic Amines and Sulfides." Krafft, M.E.; Procter, M.J.; Abboud, K.A. (1999). *Organometallics*, 18, 1122-1124.
- 154) "Structural characterization of polymorphs and molecular complexes of finasteride." Wawrzyczka, Irena; Stepniak, Krystyna; Matyjaszczyk, Slawomir; Koziol, Anna E.; Lis, Tadeusz; Abboud, Khalil A. (1999). *J. Mol. Struct.*, 474, 157-166.
- 153) "Tricarbonyl bis[1,2,3-triphenyl-1,3-diazaallyl Tungsten(IV)". Abboud, K.A., He, Y. and McElwee-White, L. (1999). *Acta Cryst. C54*, IUCR9900032.
- 152) "Synthesis and biological evaluation of conduritol and conduramine analogs." Desjardins, M.; Lallemand, M.-C.; Freeman, S.; Hudlicky, T.; Abboud, K. A. (1999). *J. Chem. Soc. Perkin Trans. 1*, 621-628.
- 151) "Variations on Nickel Complexes of the vic-Dioximes: An Understanding of Factors Affecting Volatility toward Improved Precursors for Metal-Organic Chemical Vapor Deposition of Nickel." Martin, James D.; Hogan, Philip; Abboud, Khalil A.; Dahmen, Klaus-Hermann (1998). *Chem. Mater.* 10, 2525-2532.
- 150) "Trans-Diaquabis(2-thienyl,2-pyridyl ketone-O,N)copper(II) Tetrafluoroborate." Shaun O. Sommerer, Timothy L. Fribe, Alan J. Jiricitano, Cora E. MacBeth and Khalil A. Abboud (1998). *Acta Cryst. C54*, 178-179.
- 149) "Characterization and Crystal Structure of Nickel Complexes of Imine Oximes Containing Tautomerized Enolate Ligands." Martin, James D.; Abboud, Khalil A.; Dahmen, Klaus-Hermann (1998). *Inorg. Chem.*, 37, 5811-5815.
- 148) "Investigations on fluorinated aryloxy tungsten-based catalytic systems for acyclic diene metathesis polymerization." Gomez, Fernando J.; Abboud, Khalil A.; Wagener, Kenneth B. (1998). *J. Mol. Catal. A: Chem.* 133, 159-166.
- 147) "Triaqua(pyridine-2,6-dipicolinato-O,N,O')iron(III) bis(pyridine-2,6-dipicolinato-O,N,O')ferrate(III) hexahydrate: an unusual ion-pair compound." Abboud, Khalil A.; Xu, Cheng; Drago, Russell S. (1998). *Acta Cryst., C54*, 1270-1272.
- 146) "Trichloro(4,4'-dimethyl-2,2'-bipyridine-N,N')manganese(III) acetonitrile solvate (1/1)." Abboud, Khalil A.; Ward, Brian H.; Talham, Daniel R. (1998). *Acta Crystal. C54*, 180-181.

- 145) "New BEDT-TTF Salts Incorporating the Hydrogen Dichloride (HCl_2^-) Anion." Ward, Brian H.; Granroth, Garrett E.; Abboud, Khalil A.; Meisel, Mark W.; Talham, Daniel R. (1998). *Chem. Mater.*, 10, 1102-1108.
- 144) "Synthesis, structure and physical properties of a new organic metal, (BEDO-TTF) $_4$ [C 4 N 6]H 2 O." Ward, Brian H.; Granroth, Garrett E.; Walden, James B.; Abboud, Khalil A.; Meisel, Mark W.; Rasmussen, Paul G.; Talham, Daniel R. J. (1998). *J. Mater. Chem.*, 8, 1373-1378.
- 143) "[N,N'-bis(trimethylsilyl-o-phenylenediamido)-(1,4-butanediyl) phenylimido] tungsten(IV), a deactivation product from olefin metathesis polymerization." S.-Y. S. Wang, J. M. Boncella, and K. A. Abboud (1998). *Acta Cryst. C54*, IUCR9800035.
- 142) "Synthesis of Cyclopentadienyl-Borate Ligands and their Reactivity with $\text{Cp}^*\text{Zr}(\text{CH}_3)_3$." F. A. Shafiq, K. A. Abboud, D. E. Richardson, and J. M. Boncella (1998). *Organometallics*. 17, 982-985.
- 141) "Synthesis and Reactivity of h 6 -Arene Ruthenium Anilide Complexes." J. M. Boncella, T. M. Eve, B. Rickman, and K. A. Abboud (1998). *Polyhedron* 17, 725-736.
- 140) "Conducting Poly(3,4-alkylenedioxythiophene) Derivatives as Fast Electrochromics With High Contrast Ratios." Kumar, A., Welsh, D.M., Morvant, M.C., Abboud, K.A. and Reynolds, J.R. (1998). *Chem. Mater.*, 10, 896-902.
- 139) "Electrococrystallization and Characterization of Phosphonium-Baesd Radical Anion Salts [MePh $_3$][Pd(dmit) $_2$] $_3$ and [Ph $_4$ P][Pd(dmit) $_2$] $_3$: Comparison to Related Pd and Ni Isologues." Pullen, A.E., Faulmann, C., Liu, H.-L., Tanner, D.B., Abboud, K.A. and Reynolds, J.R. (1998). *Inorg. Chim. Acta*, 282, 90-95.
- 138) "2,5-Diethoxy-1,4-bis(3,4-ethylenedioxy-2-thienyl)benzene and its tetrahydrofuran 0.33-solvate." Abboud, Khalil A.; Irvin, David J.; Reynolds, John R. (1998). *Acta Cryst. C54*, 1994-1997.
- 137) "7,8-Dihydroxy-(7R,8S,10bR)-5,6,7,8,9,10-hexahydro[1.3]oxazolo[4,3-a]isoquinolin-3-one." Abboud, K. A.; Butora, G.; Fearnley, S. P.; Gum, A. G.; Stabile, M. R.; Hudlicky, T. (1998). *Acta Cryst. C54*, 1162-1164.
- 136) "Advanced intramolecular Diels-Alder study toward the synthesis of (-)-morphine: Structure correction of a previously reported Diels-Alder product." Butora, G.; Gum, A. G.; Hudlicky, T.; Abboud, K. A. *Synthesis*, 1998, 275-278.
- 135) "Oxidation of the Zwitterionic Tungsten Amide (CO)5WNPhNPhC(OMe)Ph with Br $_2$ and PCl $_5$. Formation of [(PhN)W(CO)2X2] $_2$ and (PhN)W(CO)2X2L (X = Br, Cl; L = MeCN, Me $_3$ C $_6$ H $_2$ NH $_2$ and i-BuNH $_2$). He, Y., Abboud, K.A.; McElwee-White, L. (1998). *J. Chem. Soc., Dalton Trans.*, 1998, 3373-3378.
- 134) "Oxidation of Metal Carbynes in the Presence of Alkynes. Alkyne Addition vs. H-Shift in the Carbene Intermediate." Torracca, K.E.; Abboud, K.A.; McElwee-White, L. (1998). *Organometallics*, 20, 4413-4416.
- 133) "Reaction of the Iodo-bridged Tungsten Dimer [I $_2$ (CO)2W(NPh)] $_2$ with LiOCH $_3$." He, Y.; Abboud, K.A.; McElwee-White, L. (1998). *Polyhedron*, 17, 3477-3484.
- 132) "Metallacyclopentane Formation: A deactivation Pathway for Olefin Metathesis Catalysts." S.-Y. S. Wang, Daniel VanderLende, K.A. Abboud and J. M. Boncella (1998). *Organometallics* 17(12), 2628-2635.
- 131) "Carbonylation of Amines With a Tungsten(IV) Carbonyl Complex." McCusker, J.E., Abboud, K.A. and McElwee-White, L. (1997). *Organometallics*, 16, 3863-3866.
- 130) "Electrically Conducting Materials Based on -Tetrathiooxalato Bridged Bimetallic Ni(II) Anionic Complexes." Pullen, A. E.; Zeltner, Olk, R. -M.; S., Hoyer, E.; Abboud, K. A. & Reynolds, J. R. (1997). *Inorg. Chem.*, 36, 4163-4171.

- 129) "Structure and Physical Properties of a new 1:1 Cation-Radical Salt z-(BEDT-TTF)PF₆" H.-L. Liu, L.-K. Chou, K. A. Abboud, B. H. Ward, G. E. Fanucci, G. E. Granroth, E. Canadell, M. W. Meisel, D. R. Talham and D. B. Tanner (1997). *Chem. Mater.*, 9, 1865-1877.
- 128) "Carbonylchloro(eta₅-cyclopentadienyl)(1-ethoxybutylidene)ruthenium." Khalil A. Abboud, Jiango Yin and William Jones (1997). *Acta Cryst. C53*, IUCR9700011.
- 127) "trans-Bis[4-amino-3,5-bis(2-pyridyl)-1,2,4-triazole-N1,N']copper(II) Bis(tetrafluoroborate)." Alan J. Jiricitano, . Shaun O. Sommerer and Khalil A. Abboud (1997). *Acta Cryst. C53*, 434-436.
- 126) "Outer Sphere Metal-to-Ligand Charge Transfer in Organometallic Ion Pairs." Lucian A. Lucia, Khalil A. Abboud and Kirk S. Schanze (1997). *Inorg. Chem.* 36, 6224-6234.
- 125) "Chemoenzymatic and Electrical Oxidation in the Synthesis of Octahydroisoquinolines for Conversion to Morphine. Relative Merits of Radical vs. Acid-catalyzed Cyclization." Mary Ann Endoma, gabor Butora, Christopher D. Claeboe, Tomas Hudlicky and Khalil A. Abboud (1997). *Tetrahedron Lett.* 38, 8833-8836.
- 124) "Polyhydroxylated Tetrahydronaphthalene Dimers: Synthesis and Molecular Properties". Michel Desjardins, Marie-Christine Lallemand, Tomas Hudlicky and Khalil A. Abboud. *Syn. Lett.* 1997, 728-730.
- 123) "The Correct Structures of "Dihydrothiamine": Resolution of a Long-Standing Controversy." Zoltewicz, J.A.; Dill, C.D.; Abboud, K.A. (1997). *J. Org. Chem.*, 62(20), 6760-6766.
- 122) "Mechanistic Study of Ligand-Induced Direct \square -H Transfer." S.-Y. S. Wang, K. A. Abboud, and J. M. Boncella (1997). *J. Am. Chem. Soc.*, 119, 11990-11991.
- 121) "2-Acetylpyridinium salicyloylhydrazone chloride dihydrate at 173K." Khalil A. Abboud, Carlos G. Ortiz, Ruth C. Palenik & Gus J. Palenik (1997). *Acta Cryst. C53*, 1622-1623.
- 120) " \square , \square -Difluoro- \square -Lactone and its Non-Fluorinated Analog". Khalil A. Abboud, Rogelio Ocampo & William R. Dolbier, Jr. (1997). *Acta Cryst. C53*, 1923-1926.
- 119) "Chlorobis(N,N'-di-2-pyridyl ketone oximato)gold(III) Hydrate." Shaun S. Sommerer, Cora E. MacBeth, Alan J. Jercitano & Khalil A. Abboud (1997), *Acta Cryst. C53*, 1551-1553.
- 118) "Fully Conjugated and Planar, Chalcogen-Rich Ni(II) and Cu(II) Tetrathiooxalato Bridged Bimetallic Complexes for Molecular Conductors." Pullen, A. E.; Abboud, K. A.; Reynolds, J. R.; Piotraschke, J.; Olk, R. M.; Zeltner, S.; Hoyer, E. And Reynolds, J.R. (1997). *Synth. Met.* 86, 1791-1793.
- 117) "Electrococrystallization, Structure and Electronic Properties of the dmit-Based Salt (CH₃(C₆H₅)₃P)[Ni(dmit)₂]₃." Pullen, A. E.; Liu, H. L.; Tanner, D. B.; Abboud, K. A. & Reynolds, J. R. (1997). *J. Mater. Chem.*, 7, 377-380.
- 116) "A New Generation of [Ni(dmit)₂] Based Molecular Conductors." Pullen, A. E.; Olk, R. -M.; Zeltner, S.; Hoyer, E.; Abboud, K. A. & Reynolds, J. R. (1997). *Inorg. Chem.*, 36, 958-959.
- 115) "Diastereomers of a Cofacial Ternaphthalene and Two Azaternaphthalenes. Syntheses and Barriers to Isomerization." Zoltewicz, J.A., N.M. Maier, S. Lavieri, I. Ghiviriga, K.A. Abboud and W.M.F. Fabian (1997). *Tetrahedron* 53, 5379-5388.
- 114) "Chemoenzymatic Synthesis of Unnatural Amino Acids. Approach to Morphine Synthesis." Gonzalez, D.; Schapiro, V.J.; Seoane, G.; Hudlicky, T. & Abboud, K.A. (1997). *J. Org. Chem.* 62, 1194-1195.

- 113) "3',4',6'-tri-O-acetyl-2-deoxy-2-N-phthalimido- \square -D-glucopyranosyl- \square (1' \square 4)-1-O-p-nitrophenyl-2,3-di-O-benzoyl-6-O-pivaloyl- \square -D-glucopyranoside." Stan S. Toporek, Benjamin A. Horenstein and Khalil A. Abboud (1997). *Acta Cryst.* C53, 742-744.
- 112) "Bis(di -dipyridylmethanediol,N,N')palladium(II) Chloride Tetrahydrate and Dichloro(-dipyridylmethanediol, N,N')gold(III) Chloride." Sommerer, Shaun O., Jircitano, Alan J., Westcott, Barry L., Abboud, Khalil A. and Bauer, Jeanette A. Krause (1997). *Acta Cryst.* C53, 707-710.
- 111) "Synthesis, Structure, Characterization, and Reactivity of Novel Borane-and Borate-Containing Ruthenocenes." H. Jerrold Miller, Brent S. Strickler, Khalil A. Abboud, James M. Boncella, David E. Richardson (1997). *Organometallics*, 16, 1628-1634.
- 110) "Synthesis, Characterization and X-ray Crystal Structures of W(VI) Alkyl Complexes with Chelating Diamide and Imido Co-Ligands." J. M. Boncella, R. L. Huff, S. Y. Wang, D. D. VanderLende and K. A. Abboud (1997). *J. Organomet. Chem.* 530, 59-70. (Invited paper).
- 109) "Reactions of Chelate-Stabilized Tungsten (VI) Dialkyl Complexes with tBuNC: Synthesis and Characterization of New Square Pyramidal and Trigonal Bipyramidal W(VI) Complexes." R. Leigh Huff, Shu-Yu S. Wang, Khalil A. Abboud, and James M. Boncella (1997). *Organometallics*, 16, 1779-1785.
- 108) "A Chelate-Stabilized Tungsten Imido Monoalkyl Complex,[o-C₆H₄(NSiMe₃)₂](PhN)W(CH₂CMe₃)(Cl)]." Shu-Yu S. Wand, James M. Boncella and Khalil A. Abboud (1997). *Acta Cryst.* C53, 436-438.
- 107) "2,3,4,6-Tetra-O-acetyl-p-nitrophenyl--D-glucopyranoside." Khalil A. Abboud, Stan S. Toporek & Benjamin A. Horenstein (1997). *Acta Cryst.* C53, 118-120.
- 106) "The Stereochemical Course of the Reduction of an \square -D-Ribofuranose." Khalil A. Abboud, Ian B. Parr & Benjamin A. Horenstein (1997). *Acta Cryst.* C53, 245-247.
- 105) "Total Synthesis of Rhizoferrin, An Iron Chelator." Raymond J. Bergeron, MeiGuo Xin, Richard E. Smith, Markus Wollenweber, James S. McManis and Khalil A. Abboud (1997). *Tetrahedron*, 53(2), 427-434.
- 104) "Bis(triphenylphosphine)Palladium Cycloheptadienynylum Tetrafluoroborate: A Palladium Complex of Tropyne". Jerzy Klosin, Khalil A. Abboud, W. M. Jones (1996). *Organometallics*, 15, 2465-2468.
- 103) "Crystal Structure, Reactivity, and Photochemical Properties of Tungsten(0) Zwitterionic Amido Complex (CO)₅WNPhNPhC(OMe)Ph." Massey, S.T.; Barnett, N.D.; Abboud, K.A. and McElwee-White, L. (1996). *Organometallics*, 15, 4625-4631.
- 102) "(2,2'(1,2'-Bicyclohexenyl))bis(triphenylphosphine)platinum(0) Tetrahydrofuran Solvate." K.A. Abboud, Z. Lu & W.M. Jones (1996). *Acta Cryst.* C52, 1909-1911.
- 101) "Cis-Fused Decalone and a Bicyclo[4.3.1]decanone Ring System." Khalil A. Abboud, Yongping Xie and Eric J. Enholm, (1996). *Acta Cryst.* C52, 1829-1831.
- 100) "Aqua[2,6-diacetylpyridinedi(benzoic acid hydrazone)nitratocobalt(II) Nitrate at 173K." Khalil A. Abboud, Ruth C. Palenik and Gus J. Palenik (1996). *Acta Cryst.* C52, 2994-2996.
- 99) "Tetraaqua[2,6-diacetylpyridinedi(acetic acid hydrazone)]yttrium(III) Nitrate Trihydrate. Synthesis, Crystal Structure and ⁸⁹Y, ¹³C, ¹H-NMR." S.P., Summers; K.A. Abboud; W.S. Brey; B. Bechtel, R.C. Palenik & G.J. Palenik (1996). *Polyhedron*, 15, 3101-3106.
- 98) "Chemoenzymatic Synthesis of The Morphine Skeleton Via Radical Cyclization And a C10-C11 Closure." Gabor Butora, Tomas Hudlicky, Stephen P. Fearnley, Andrew G. Gum, Michele R. Stabile & Khalil A. Abboud (1996). *Tetrahedron Lett.*, 37, 8155-8158.

- 97) "Toluene-Dioxygenase-Mediated cis-Dihydroxylation of Aromatics in Enantioselective Synthesis. Iterative Glycoconjugate Coupling Strategy and Combinational Design for the Synthesis of Oligomers of nor-Saccardies, Inositol and Psuedosugars with Interesting Molecular Properties." Tomas Hudlicky, Khalil A. Abboud, David A. Entwistle, Rulin Fan, Rakesh Maurya, Andrew J. Thorpe, Joel Bolonick and Brian Myers (1996). *Synth. Org. Chem.* 7, 897-911.
- 96) "Catena-Poly[Silver- \square -(dis-2-pyridylketone)-N,O:N',O'] tetrafluoroborate." Shaun O. Sommerer, Barry L. Westcott, Alan J. Jircitano and Khalil A. Abboud (1996). *Acta Cryst.*, C52, 1426-1428.
- 95) "Two forms of Bromo(Cycloheptatrienylidene)bis(triphenylphosphine)Platinum(II)." Jerzy Klosin, William M. Jones and Khalil A. Abboud (1996). *Acta Cryst.* C52, 1101-1104.
- 94) "Concise Synthesis of 1,2-L-chiro-Inositol Conjugates and Oligomers: A Novel Class of Saccharide Mimics with Promising Molecular Properties." Tomas Hudlicky, Khalil A. Abboud, Joel Bolonick, Rakesh Maurya, Michele L. Stanton & Andrew J. Thorpe. *J. Org. Chem., Chem. Comm.* 1996, 1717-1718.
- 93) "Competition Between $\square\ \square$ Donation and $\square\text{-C-H}$ Agostic Interactions in Complexes of the Type $Tp^*\text{Ta}(\text{=CH-t-Bu})(X)(Y)$; X = halide, NR_2 , OR, Tp^* = hydridotris(3,5-dimethylpyrazolyl)borate." J. M. Boncella, M. L. Cajigal and K. A. Abboud (1996). *Organometallics* 15, 1905-1912.
- 92) "Convenient Synthesis of Julolidines Using Benzotriazole." Alan R. Katritzky, Bogumila Rachwal Stanislaw Rachwal & Khalil A. Abboud (1996). *J. Org. Chem.* 16, 3117-3126.
- 91) "Extensively Conjugated Dianionic Tetrathiooxalate Bridged Copper(II) Complexes for Synthetic Metals." Pullen, A. E.; Zeltner, S.; Olk, R. -M.; Hoyer, E.; Abboud, K. A. & Reynolds, J. R. (1996). *Inorg. Chem.* 35, 4420-4426.
- 90) "Optical and Transport Properties of $[\text{M(dmit)}_2]$ Organic Conductors." Liu, H. -L.; Tanner, D. B.; Pullen, A. E.; Abboud, K. A. & Reynolds, J. R. (1996). *Phys. Rev. B*, 53, 10557-10568.
- 89) "Synthesis and Crystal Structures Of Hydridotris(3,5-dimethylpyrazolyl)borateTa(V)(=N-2,6-i- $\text{Pr}_2\text{C}_6\text{H}_3)(X)\text{Cl}$, (X = Cl, n-BuO)." J. M. Boncella, M. L. Cajigal, A. S. Gamble and K. A. Abboud (1996). *Polyhedron*, 15, 2071-2078.
- 88) "Sodium Hydrogen Dipicolinate Picolinic acid Trihydrate: Synthesis, Structure, and Valence Bond Sum." K. Browning, K.A. Abboud & G.J. Palenik (1996). *J. Chem. Cryst.*, 25, 851-855.
- 87) "Platinum-Molybdenum Complexes of Cyclic Tropyne, Cumulenes and Alkynes." Jerzy Klosin, Khalil A. Abboud, W. M. Jones (1996). *Organometallics*, 15, 596-603.
- 86) "The Synthesis and Structure of Two Novel Metal Di-2-Pyridyl Ketone Oxime Dimers." Shaun O. Sommerer, Barry L. Westcott, Alan J. Jircitano and Khalil A. Abboud (1996). *Inorganica Chimica Acta*, 238, 149-153.
- 85) "Synthesis and Electrochemistry of Heterobimetallic Ru/Pt and Mo/Pt Complexes." Orth, S.D.; Terry, M.R.; Abboud, K.; Dodson, B.; McElwee-White, L (1996). *Inorganic Chemistry*, 35, 916-922.
- 84) "Oxidation of the Zwitterion $(\text{CO})_5\text{WNPhNPhC(OMe)Ph}$ with I_2 . Formation of Tungsten (IV) Imido Complexes and a Tungsten (VI) Metallacycle." Barnett, N.D.R.; Massey, S.T.; McGowan, P.C.; Wild, J.J.; Abboud, K.A. & McElwee-White, L (1996). *Organometallics*, 15, 424-428.
- 83) "The Preparation, Structure and Properties of an Anionic Tetrameric Copper Complex Containing a Planar, Eight-Membered Ring Core." Pullen, A.E.; Piotraschke, J.; Abboud, K.A. & Reynolds, J.R (1996). *Inorg. Chem.* 35, 793-796.

- 82) "Structure of the 1:1 Complex formed from 4-Picoline N-oxide and 4-Nitrobenzoic Acid." R. Moreno-Fuquen, J. Valderrama-Naranjo, Khalil A. Abboud and C. Strouse (1995). *Anais. Assoc. Bras. Quim.*, 44, 34-41.
- 81) "Fully Conjugated Transition Metal Complexes for the Synthesis of New Electrically Conducting Materials." Anthony E. Pullen, Jens Piotraschke, Khalil A. Abboud, John R. Reynolds, Hsiang-Lin Liu and David B. Tanner. *Polym. Mater. Sci. Eng., Symp. Proc.* 1995, 17, 341-342.
- 80) "Trans-Ni(Mes)(NHPh)(PMe₃)₂: A Monomeric Ni(II) Amide Complex." Daniel D. VanderLende, James M. Boncella, and Khalil A. Abboud (1995). *Acta Cryst.*, C51, 591-593.
- 79) "Trans-Ni(Mes)[N(Ph)C(O)N(H)CMe₃](PMe₃)₂." Jonathan M. Penney, James M. Boncella, and Khalil A. Abboud (1995). *Acta Cryst.*, C51, 2269-2271.
- 78) "Three- \square BEDT-TTF salts." Khalil A. Abboud, Liang-Kuei Chou, Marven B. Clevenger, Glennison F. de Oliveira and Daniel R. Talham (1995). *Acta Cryst.*, C51, 2356-2362.
- 77) "Dication Salts of BEDT-TTF." Liang Kuei Chou, Marven B. Clevenger, Glennison deOliveira , Khalil A. Abboud and Daniel R. Talham (1995). *Synthetic Metals* , 70, 1125-1126.
- 76) "Salicylaldehyde Semicarbazone:Acetic Acid H-bonded Complex." S.P. Summers, G.J. Palenik & K.A. Abboud (1995). *Acta Cryst.*, C51, 1707-1709.
- 75) "Mechanism of the Formation of a Tungsten (VI) Alkylidene Complex which Undergoes Reversible Metallation of an Ancillary Ligand." W. M. Vaughan, K. A. Abboud and J. M. Boncella (1995). *J. Am. Chem. Soc.*, 117, 11015-11016.
- 74) "Monomeric Ni(II) Amide Complexes. Synthesis, Reactivity and Ligand Dynamics." D. D. VanderLende, K. A. Abboud, J. M. Boncella (1995). *Inorg. Chem.*, 34, 5319-5326.
- 73) "Revised Structure and Convergent Synthesis of the Neurotoxic Quaterpyridine Isolated from the Hoplonemetrine Sea Worm." Michael P. Cruskie, John A. Zoltewicz and Khalil A. Abboud (1995). *J. Org. Chem.*, 60, 7491-7495.
- 72) "Synthesis and Molecular Structure of Two Zirconocene Complexes of Cyclooctatrienyne." Yanguo Yin, Jerzy Klosin, Khalil A. Abboud, W. M. Jones, (1995). *Tetrahedron Lett.* 1995, 3107-3110.
- 71) "Synthesis and Reactivity of Platinum Complexes of Cyclic Alkynes and Tropynes." Jerzy Klosin, Khalil. A. Abboud, W.M. Jones, (1995). *Organometallics* , 14, 2892-2902.
- 70) "Extensively Conjugated Bimetallic (\square -Tetrathiooxalato)Copper(II) (Bu₄N)₂ [(C₃S₅)CuC₂S₄Cu(C₃S₅)] for Electrically Conducting Charge Transfer Complexes." Piotraschke, J.; Pullen, A.E.; Abboud, K.A. & Reynolds, J.R (1995). *Inorg. Chem.*, 34, 4011-4012
- 69) "The Synthesis and Crystal Structure of (2a \square ,8a \square ,8b \square)-3,6,6,8b-tetramethyl-4-acyl-2a,7,8,8a-hexahydro-2H-naphtho[1,8-bc]furan-2-one." Khalil A. Abboud, Ivani Malvestiti and Merle A. Battiste (1995). *Acta Cryst.* C51, 995-997.
- 68) "Synthesis and Reactivity of Tris(pyrazolyl)borate-Stabilized Molybdenum Imido Alkylidene Complexes." William M. Vaughan, Khalil A. Abboud and James M. Boncella (1995). *Organometallics*, 14, 1567-1577.
- 67) "Dication Salts of the Organic Donor Bis(ethylenedithio)tetrathiafulvalene." Liang Kuei Chou, Manuel A. Quijada, Marven B. Clevenger, Glennison deOliveira, Khalil A. Abboud, David B. Tanner and Daniel R. Talham, (1995). *Chem. Mater.* 7, 530-534.

- 66) "Preparation and Properties of a Ruthenium Complex of a 1-Silaallene." Jianguo Yin, Jerzy Klosin, Khalil A. Abboud and William M. Jones (1995). JACS 117, 3298-3299.
- 65) "Fully Conjugated Transition Metal Complex for the Synthesis of New Electrically Conducting Materials." Anthony E. Pullen, Jens Piotraschke, Khalil A. Abboud, John R. Reynolds, Hsiang-Lin Liu and David B. Tanner, (1995). Poly. Mater. Sci. Eng. 72, 321-322.
- 64) "Synthesis of Chelate-Stabilized Molybdenum Alkylidene Complexes and its Hydrolysis Products: Crystal Structures of $\text{TpMo}(\text{CH}_2\text{C}(\text{Me})_2\text{Ph})(\text{NAr})(\text{O})$ and $[\text{TpMo}(\text{NAr})(\text{O})]_2\text{O}$." William M. Vaughan, Khalil A. Abboud and James M. Boncella (1995). J. Organometallic Chemistry, 485, 37-43.
- 63) "Free Radical Approach to Directed Aldol-Type Reactions Promoted by Stannyll(IV) Enolates." Eric J. Enholm, Yongping Xie and Khalil A. Abboud (1995). J. Org. Chem. 60, 1112-1113.
- 62) "Synthesis of a Square Pyramidal Tungsten(VI) Alkylidene Complex With a Bis(amide) Chelate Ligand." Daniel D. Vander Lende, Khalil A. Abboud and James M. Boncella (1994). Organometallics. 13, 3378-3381.
- 61) "Structure- and Orientation-Dependent Magnetic Susceptibility of Tetramethylammonium Nickel Nitrite, $\text{CH}_3)_4\text{N}[\text{Ni}(\text{NO}_2)_3]$: An S=1 One-Dimensional Heisenberg Antiferromagnet." L.-K. Chou, K.A. Abboud, D.R. Talham, W.W. Kim and M.W. Meisel (1994). Chemistry of Materials, 6, 2051-2055.
- 60) "Structural Studies of Some 5-(perfluoroalkenyl) Uracils." Henryk Koroniak, Piotr Fiedorow, Donata Pluskota, Piotr Karwatka and Khalil A. Abboud, (1994). J. Mol. Struct. 323, 215-221.
- 59) "The Crystal Structure of Di(2-Pyridinium) Methanediol Nitrate." Shaun O. Sommerer, Barry L. Westcott T.L. Fribe and Khalil A. Abboud (1994). Acta Cryst. C50, 2013-2015.
- 58) "Structure of A Chelate-Stabilized Molybdenum Imido Alkylidene Complex: $\text{TpMo}(\text{CHC}(\text{Me})_2\text{Ph})(\text{NAr})(\text{OTf})$." William M. Vaughan, James M. Boncella, and Khalil A. Abboud (1994). Acta Cryst. C51, 1075-1078.
- 57) "Synthesis of New Tetrafluorobenzo Heteroaromatic Compounds." William R. Dolbier, Jr., Conrad Burkholder, Khalil A. Abboud, and David Loehle (1994). J. Org. Chem. 59, 7688-7694.
- 56) "Synthesis, Characterization, and Crystal Structures of Monomeric and Dimeric Palladium (II) Amide Complexes." Lawrence A. Villanueva, Khalil A. Abboud and James M. Boncella (1994). Organometallics , 13, 3921-3931.
- 55) "Formation of Pentadienal Complexes by Protonation of 1-Alkylcyclopropyl Molybdenum Carbynes." Mark D. Mortimer, John D. Carter, Khalil A. Abboud and Lisa McElwee-White (1994). JACS 116, 8629-8637.
- 54) "Tungsten (IV) Imido Complexes from Oxidation of a Protected Zero-Valent Nitrene Precursor." Patrick C. McGowan, Scott T. Massey, Khalil A. Abboud and Lisa McElwee-White (1994). JACS 116, 7419-7420.
- 53) "Synthesis of a ROMP Catalyst Containing a Chelating Bis-Amide Ligand." Daniel D. VanderLende, Khalil A. Abboud and James M. Boncella (1994). Polymer Preprints , 35(1), 691-695.
- 52) "The Structure of TMNIN: A one-Dimensional S=1 Heisenberg Antiferromagnet." L-K. Chou, K.A. Abboud, D.R. Talham, W.W. Kim and M.W. Meisel (1994). Physica B. 194-196, 311-312.
- 51) "Synthesis and Structures of Bismuth(III) Complexes With Nitrilotriacetic Acid, Ethylenediamintetraacetic Acid and Diethylenetriaminepentaacetic Acid." Stephen P. Summers, Khalil A. Abboud, Samuel R. Farrah and Gus J. Palenik (1994). Inorg. Chem. 33, 88-92.

- 50) "Structures of Catena-Poly[(nitro-O:O') Silver(I)-□-(di-2-pyridyl Ketone-N:N')] and Di-2-Pyridyl Ketone." Shaun O. Sommerer, Barry L. Westcott and Khalil A. Abboud (1994). *Acta Cryst.* C50, 48-52.
- 49) "Crystal Characterization and Low Temperature Magnetic Investigation of 1D-HAF Materials TMNIN and NINAZ". L.-K. Chou, K.A. Abboud, D.R. Talham, W.W. Kim, P.J.C. Signore, N.W. Meisel, N. Fujiwara and T. Goto, *Bull. Am. Phys. Soc.* 1993, 38, 497.
- 48) "Structure of Dichloro(2,6-diacetylpyridine dioxime - □□□N,N',N'')Copper(III) 1.5 Hydrate." K. A. Abboud, R.C. Palenik and G.J. Palenik (1993). *Acta Cryst.* C50, 525-528.
- 47) "Dication Salt of Bis(ethylenedithio)tetrathiafulvalene: Preparation and Crystal Structure of two BEDT-TTF(ClO₄)₂." Khalil A. Abboud, Marven B. Clevenger, Glenisson F. de Oliviera and Daniel R. Talham, (1993). *J. Chem. Soc, Chem Commu.n*, 1560-1562.
- 46) "Preparation of a Zirconocene Complex of cyclohexen-3-yne and a 1,2,3-cyclohexatriene." Jianguo Yin, Khalil A. Abboud and William M. Jones, (1993). *JACS* 115, 8859-8860.
- 45) "Metallaindenes of Molybdenum, Tungsten and Ruthenium." J. Yang, J. Yin, K.A. Abboud and W.M. Jones (1993). *Organometallics*, 13,971-978.
- 44) "Synthesis and Structure of Trimethylphosphinezirconocene-3-Methyl-1,2-cyclohexadiene." First Metal Complex of a Six Membered Allene. Jianguo Yin, Khalil A. Abboud and William M. Jones, (1993). *JACS* 115, 3810-3811.
- 43) "Structure of a Phosphazene-Aniline Compound." Khalil A. Abboud, Lawrence A. Villanueva & James M. Boncella (1993). *Acta Cryst.* C49, 1848-1850.
- 42) "Structure of Cyclo-1,1',4,4'-bis(1,1,3,3-tetramethyldisiloxanediyl)dibenzene." Khalil A. Abboud, Dennis W. Smith, jr., and Kenneth B. Wagner (1993). *Acta Cryst.* C49, 1845-1848.
- 41) "Branched Chain Carbohydrate Lactones From a SmI₂ - Promoted Sereal Deoxygenation - Carbonyl Addition Reaction." Enholm, E.J., Jiang, S. and Abboud, K.A. (1993). *J. Org. Chem.* 58, 4061-4069.
- 40) "Platinum(0) Complexes of Cyclic Alkynes and Allenes from Base Induced Dehydrohalogenation of Bromocycloalkenes." Zheng Lu, Khalil A. Abboud and William M. Jones, (1993). *Organometallics* 12, 1471-1474.
- 39) "The Structure of Di-2-pyridyl Ketone-Hydrate Platinum (II) Chloride Tetrahydrate." Shaun O. Sommerer and Khalil A. Abboud, (1993). *Acta. Cryst.* C49, 1152-1154.
- 38) "Structure of a Coupled Carbohydrate and Terpene 2." Khalil A. Abboud, Eric J. Enholm and Shujun Jiang, (1993). *Acta Cryst.* C49, 1234-1237.
- 37) "Structure at 198 K of a Chiral Tricyclic aminochloride, C₁₀H₁₇N.1/2HCL." K. A. Abboud, R.E. Davis, K.-M. Chen & J K. Whitsell, (1993). *Acta Cryst.* C49, 936-938.
- 36) "Structure of a Coupled Carbohydrate and Terpene 1." Khalil A. Abboud, Eric J. Enholm and Shujun Jiang, (1993). *Acta Cryst.* C49, 776-778.
- 35) "Structure of Bis(triphenylphosphine)Platinum Cyclodienynylum Fluoroborate: The Tropylium Equivalent of Benzyne." Zheng Lu, Khalil A. Abboud and William M. Jones, (1992). *JACS* 114, 10991-10992.
- 34) "Structure of a densely oxygenated carbocycle 2." Khalil A. Abboud, Eric J. Enholm & Antigone Trivellas, (1992). *Acta Cryst.* C48, 1695-1698.

- 33) "Reactions of Palladium Amide Complexes with Dimethylcetylenedicarboxylate. Palladium Mediated C-N Bond Formation." Lawrence A. Villaneuva, Khalil A. Abboud & James M. Boncella (1992). *Organometallics*, 11, 2963-2965.
- 32) "Synthesis of Stable W(VI) Imido-alkylidene Complexes: Crystal Structure of an Air Stable Cationic Alkyledine Complex." Laura L. Blosch, Alan S. Gamble, Khalil A. Abboud & James M. Boncella (1992). *Organometallics*, 11, 2342-2344.
- 31) "Structure of [(1,2- \square^2 -1,3,5,7-Cycloheptatetraene]bis (triphenylphosphine) platinum(0)." Khalil A. Abboud, Zheng Lu & William M. Jones, (1992). *Acta Cryst.* C48, 909-912.
- 30) "Structure of a densely oxygenated carbocycle 1." Khalil A. Abboud, Eric J. Enholm & Antigone Trivellas, (1992). *Acta Cryst.* C48, 370-372
- 29) "Synthesis and Characterization of trans-(Me₃P)₂Pd(C₆H₄C(H)=NPr)(NPh), X-ray Crystal Structure analysis of [(Me₃P)₃Pd(C₆H₄C(H)=NPr)(NPh)][BF₄]." Lawrence A. Villaneuva, Khalil A. Abboud & James M. Boncella (1991). *Organometallics*, 10, 2969-2972.
- 28) "Synthesis of an air, moisture and thermally stable W(VI) oxo-alkylidene complex." Laura L. Blosch, Khalil A. Abboud & James M. Boncella (1991). *JACS.* 113, 7066-7068.
- 27) "The Crystal Structure of (\square^5 -Cyclopentadienyl)(1,2,3,4,4a,10a- \square^6 -2-Methyldibenzo [b,e][1,4] Dioxin) Fe(II) Hexafluorophosphate." K.A. Abboud, S.H. Simonsen, A. Pió rko & R.G. Sutherland (1991). *Acta Cryst.* C47, 1198-1202.
- 26) "The Crystal Structure of three thiophene derivatives." K.A. Abboud, M.A. Fox and S.H. Simonsen, (1991). *Acta Cryst.* C47, 782-787.
- 25) "Structure of Cis-9,10-Dibenzyl-9,10-dihydroanthracene at 198 K." K.A. Abboud, S.H. Simonsen, R.S. Prasad, and R.M. Roberts, (1991) *Acta Crysta.*, C47, 880-882.
- 24) "Absolute Configuration of Three ent-Beyerene Derivatives." K.A. Abboud, S.H. Simonsen, T.J. Mabry & Esther F. Lee, (1991). *Acta Cryst.* C47, 782-787.
- 23) "Structure of 10,11-Dihydro-5,10-ethano-5H-dibenzo[a,d] cycloheptene." K.A. Abboud, S.H. Simonsen, C.S. Tyllick, and R.M. Roberts, (1991) *Acta Crysta.*, C47, 672-674.
- 22) "Structure of 10,11-Dihydro-5,10-ethano-5H-dibenzo[a,d] cyclohepten-11-one." K.A. Abboud, S.H. Simonsen, C.S. Tyllick, and R.M. Roberts, (1991) *Acta Crysta.*, C47, 670-672.
- 21) "Redetermination of the Structure of Bi(9-10-dihydro-9,10-Anthracenediyl) at 198K." K.A. Abboud, S.H. Simonsen and R.M. Roberts, (1990). *Acta Cryst.* C46, 2494-2496.
- 20) "Structure of (\square^5 -Cyclopentadienyl) (\square^6 -p-isopropylnitrobenzene) Fe(II) Hexafluorophosphate." K.A. Abboud, S.H. Simonsen, A. Pió rko & R.G. Sutherland, (1990). *Acta Cryst.*, C47, 860-862.
- 19) "The Crystal Structure of 1,2,3,4,5,6-Hexa-O-acetyl-myo-inositol." K.A. Abboud, S.H. Simonsen, R.J. Voll, and E.S. Younathan, (1990). *Acta Cryst.* C46, 2208-2210.
- 18) "The Crystal Structure of.(\pm) -Encecanescin." K.A. Abboud, S.H. Simonsen, T.J. Mabry & N. Fang, (1990). *Acta Cryst.* C46, 1563-1566.

- 17) "The Crystal Structure of S-(3a \square ,4a \square ,7a \square ,7b \square)-Octahydro-4-(4-biphenylyl)-1H-5H-dicyclopenta-[b,d]-pyrole." K.A. Abboud, R.E. Davis, M.A. Minton & James K. Whitesell, (1990). *Acta Cryst.* C46, 1553-1556.
- 16) "The Crystal Structure of {3aS-[3a \square ,4a \square ,7a \square ,7b \square]}-4-(decahydro-1H-dicyclopenta-[b,d]-pyrol-4-yl)5,6-dihydro-5-methyl-6-(1-methylethyl)-2H-pyran-2-one." K.A. Abboud, R.E. Davis, M.A. Minton & James K. Whitesell, (1990). *Acta Cryst.* C46, 1551-1553.
- 15) "The Crystal Structure 9-Oxo-1-thioanthracene-carbonitrile 10,10-dioxide." K.A. Abboud, S.H. Simonsen, A. Pió rko & R.G. Sutherland. (1990). *Acta Cryst.* C46, 1178-1179.
- 14) "The Crystal Structure of (\square^6 -Thianthrene) (\square^5 -Cyclopentadienyl) Fe(II) Hexafluorophosphate." K.A. Abboud, V.M. Lynch, S.H. Simonsen, A. Pió rko & R.G. Sutherland, (1990). *Acta Cryst.* C46, 1018-1022.
- 13) "Structure at 173K of a 1,2-bis(1-naphthyl)cyclopentene." John P. Feagins, Khalil A. Abboud, Mark A. Minton, James K. Whitsell & Raymond E. Davis, (1990). *Acta Cryst.* C46, 711-713..
- 12) "Sesquiterpene Lactones, Flavanones and a Diterpene acid from *Viguiera Laciniata*." K.A. Abboud, S.H. Simonsen, T.J. Mabry, and G. Fang, (1989). *Phytochemistry*, 28, 2409-2414.
- 11) "Structure at 173K of a Chiral, Tricyclic Aminonitrobenzene." C₁₆H₂₀N₂O₂; Kuo-Ming Chen, James K. Whitsell, Daniel S. Price, Khalil A. Abboud & Raymond E. Davis, (1989). *Acta Cryst.* C46, 148-150.
- 10) "The Crystal Structure of a Non-Planar Flavanol, 5,7,2'-Trihydroxy-3,6,8,4',5'-pentamethoxyflavone." K.A. Abboud, S.H. Simonsen, T.J. Mabry, N. Fang, (1989). *Acta Cryst.* C45, 1788-1792.
- 9) "Structure of 9,10-Dihydro-10,9-propenoanthracene." K.A. Abboud, S.H. Simonsen, C. Tylick, and R.M. Roberts, (1988). *Acta Cryst.* C44, 1684-1686.
- 8) "Terpenoids from *Ageratina Saltillensis*." Nianbai Fang, Sanggong Yu, Tom J. Mabry, Khalil A. Abboud, Stanley H. Simonsen, (1988). *Phytochemistry*, 27, 3187-3196.
- 7) "Sesquiterpene Lactons from *Gaillardia Pulchella*." Sanggong Yu, Nianbai Fang, Tom J. Mabry, Khalil A. Abboud, Stanley H. Simonsen , (1988). *Phytochemistry*, 27, 2887-2891.
- 6) "The X-Ray crystal structure of DL-(1,3,5/2,4)-1,2,3,4-Tetraacetoxy-5-(acetoxymethyl) cyclohexane." Steven F. Watkins, Khalil A. Abboud, Nhuan P. Ngheim, Ronald J. Voll, and Ezzat S. Younathan, (1986). *Carbohyd. Res.* , 158, 7-12.
- 5) "The X-Ray crystal structure of the Mixed Metal Salt Ba[Pt_{0.59}Ni_{0.41}(CN)₄].4H₂O." Ph.D. dissertation, Louisiana State University at Baton Rouge, 1985.
- 4) "The X-Ray crystal structure of 2,5-Anhydro-(1,3,4,6-O-²H₄)-D-Mannitol." Ph.D. dissertation, Louisiana State University at Baton Rouge, 1985.
- 3) "The X-Ray crystal structure of 2,5-Anhydro-D-Mannitol." Steven F. Watkins, Khalil A. Abboud, Ronald J. Voll, Theodore A.W. Koerner,jr., and Ezzat S. Younathan, (1983). *Carbohyd. Res.*, 119, 49-54.
- 2) "V. Molecular structures of Acetate-bridged Dimers of a 2-arylpyridine and a 2,6-diarylpyridine cyclometallated by Palladium (II)." J. Selbin, K. Abboud, S.F. Watkins, M.A. Gutierrez and F.R. Fronczek, (1983). *J. Organomet. Chem.*, 241, 259-271.
- 1) "Di- μ -chloro-bis[chloro(\square^6 -p-cymene) Osmium (II)]." S.F. Watkins, F.R. Fronczek, K.A. Abboud, (1982). *Acta Cryst.*, B38, 270-275.