

PUBLICATION LIST

Richard J. Staples

1. "Electrochemical Interconversion of Pt(II) and Pt(IV) Tertiary Phosphine Complexes" L. Chen, J.A. Davies, R.J. Staples, *Inorg. Chim. Acta*, **1989**, *163*, 11-18.
[https://doi.org/10.1016/S0020-1693\(00\)87137-6](https://doi.org/10.1016/S0020-1693(00)87137-6)
2. "*trans*-Chlorohydridobis(tri-*p*-tolyl}phosphine)platinum(II), C₄₂H₄₃ClP₂Pt" J.A. Davies, A. A. Pinkerton, R.J. Staples, *Acta Cryst.*, **1990**, *C46*, 48-51.
<https://doi.org/10.1107/S0108270189004919>
3. "Electrochemical Approaches to Transition Metal Mediated C-H Bond Activation" J.A. Davies, R.J. Staples. Chapter in the C-H Activation Volume of the "Molecular Structure and Energetics Series", VCH Publishers, New York, **1990**, 379-410.
4. "Electrochemical Reduction of Platinum(II) Complexes Containing Bidentate Tertiary Phosphine Ligands: Evidence For The Generation of Non-linear Two-Coordinate Complexes" J.A. Davies and R.J. Staples, *Polyhedron*, **1991**, *10*, 899-908.
[https://doi.org/10.1016/0020-1693\(94\)04227-m](https://doi.org/10.1016/0020-1693(94)04227-m)
5. "C-X and C-H Cleavage by Electrochemically Generated Non-linear [PtL₂] Complexes" J.A. Davies and R.J. Staples, *Polyhedron*, **1991**, *10*, 909-917.
[https://doi.org/10.1016/s0277-5387\(00\)86908-9](https://doi.org/10.1016/s0277-5387(00)86908-9)
6. "Decarboxylation of Triphenylphosphine Gold(I) Carboxylates" J.P. Fackler, Jr., Md. N.I. Khan, R.J. Staples, C. King, and R.E.P. Winpenny, *Organometallics*, **1991**, *10*, 2178-2183. <https://doi.org/10.1021/om00053a021>
7. "Self Assembly of Isostructural Copper(I)-Silver(I) Butterfly Clusters with 2-Mercaptothiazoline: Syntheses and Structures of (PPh₃)₂Cu₄(C₃H₄NS₂)₄, [(C₅H₅N)Cu₄(C₃H₄NS₂)₄]_n, (PPh₃)₂Ag₄(C₃H₄NS₂)₄, (PPh₃)₂Ag₂Cu₂(C₃H₄NS₂)₄" J.P. Fackler, Jr., C.A. López, R.J. Staples, S. Wang and R.E.P. Winpenny *J. Chem. Soc., Chem. Commun.*, **1992**, 146-148. <https://doi.org/10.1039/c39920000146>
8. "Luminescent Mononuclear Gold(I) Phosphines" C. King, Md. N.I. Khan, R.J. Staples and J.P. Fackler, Jr. *Inorg. Chem.*, **1992**, *31*, 3236-3238.
<https://doi.org/10.1021/ic00041a013>
9. "The Structure and Characterization of Isomeric Cobalt(II) Diphenylphosphinate Polymers" S.-J. Liu, R.J. Staples and J.P. Fackler, Jr. *Polyhedron*, **1992**, *11*, 2427-2430.
[https://doi.org/10.1016/s0277-5387\(00\)83536-6](https://doi.org/10.1016/s0277-5387(00)83536-6)
10. "The Structure of *trans*-dicyanobis(triphenylphosphine)Pt(II) Dimethanol Solvate." Md. N.I. Khan, R.J. Staples, S. Wang and J.P. Fackler, Jr. *Acta Cryst.*, **1992**, *C48*, 2213-2215.
<https://doi.org/10.1107/S0108270192003512>

11. "Copper complexes with dipyridylmethane. The synthesis and X-ray structures of bis(dipyridylmethane)copper(II) perchlorate, and dichloro- μ -dichloro-bis(dipyridylmethane)dicopper(II)." E. Spodine, J. Manzur, M.T. Garland, J.P. Fackler, Jr., R.J. Staples and B.T. Bancroft *Inorg. Chim. Acta*, **1993**, 203, 73-80.
[https://doi.org/10.1016/s0020-1693\(00\)82907-2](https://doi.org/10.1016/s0020-1693(00)82907-2)
12. "Electrochemistry of Platinum Phosphine Complexes: C-H and C-X Activation by Highly Reactive Intermediates" J.A. Davies, L. Chen, C.T. Eagle and R.J. Staples. In "Molecular Electrochemistry of Inorganic, Bioorganic and Organometallic Compounds" Edited by A.J.L. Pombeiro and J.A. McCleverty, NATO ASI Series, Kluwer Academic Publishers, **1993**, pgs 351-356.
13. "Structure of *bis*(triphenylphosphine)gold(I) Hexafluorophosphate, $[\text{Au}(\text{PPh}_3)_2]\text{PF}_6$, **1** and *bis*(triphenylphosphine)gold(I) Nitrate, $[\text{Au}(\text{PPh}_3)_2]\text{NO}_3$, **2**." R.J. Staples, C. King, Md. N.I. Khan, R.E.P. Winpenny and J.P. Fackler, Jr. *Acta Cryst.*, **1993**, C49, 472-475.
<https://doi.org/10.1107/s0108270192008680>
14. "Synthesis and Characterization of Dinuclear Gold (I) Ring and Open Ring Complexes Containing Saturated and Unsaturated Dithiol Bridging Ligands and Phosphine or Bis(diphosphine) Donor Ligands. Crystal Structures of $[\text{Au}_2(\mu\text{-S}(\text{CH}_2)_3\text{S})(\mu\text{-dppm})]$ **1**, $[\text{Au}_2(\mu\text{-MNT})(\text{PPh}_3)_2]$ **2**, $[\text{Au}_2(\mu\text{-S}_2\text{C}_6\text{H}_4)(\text{PPh}_3)_2]$ **3**, and $[\text{Au}_4(\mu\text{-S}_2\text{C}_6\text{H}_3\text{-CH}_3)_2(\text{PEt}_3)_2]$ **4**." R.M. Dávila, A. Elduque, T. Grant, R.J. Staples, J.P. Fackler, Jr. *Inorg. Chem.*, **1993**, 32, 1749-1755. <https://doi.org/10.1021/ic00061a035>
15. "Small Clusters of Copper Triad Compounds with Bridging Sulfur Ligands-form Rings and Chains to Butterflies and Cubanes" J.P. Fackler, Jr., R.M. Dávila, D.C.W. Liu, C. López, T. Grant, C. McNeal, R.J. Staples, T. Carlson In "The Chemistry of the Copper and Zinc Triads" Edited by A.J. Welch and S.K. Chapman, Royal Society of Chemistry, **1993**, Cambridge, UK, pgs 181-188. <https://doi.org/10.1002/chin.199423301>
16. "The Structure of $[\text{3,5-(C}_6\text{H}_5)_2\text{C}_3\text{H}_2\text{N}_2]_4$. A 3,5-Diphenylpyrazole Tetramer Linked by Hydrogen Bonds." R.G. Raptis, R.J. Staples, C. King, J.P. Fackler, Jr. *Acta Cryst.*, **1993**, C49, 1716-1719. <https://doi.org/10.1107/S0108270193005980>
17. "Structural Isomers of $[\text{Au}(\text{CH}_2)_2\text{PPh}_2]_2\text{Br}_4$. Part II. Crystal Structures of *cis/cis*- $[\text{Au}(\text{CH}_2)_2\text{PPh}_2]_2\text{Br}_4$ and the Cationic A-Frame $[(\mu\text{-Br})(\text{Au}(\text{CH}_2)_2\text{PPh}_2)_2\text{Br}_2][\text{IBr}_2]$." R.G. Raptis, H.H. Murray, R.J. Staples, L.C. Porter and J.P. Fackler, Jr. *Inorg. Chem.*, **1993**, 32, 5576-5581. <https://doi.org/10.1021/ic00076a026>
18. "Syntheses and X-Ray Structural Characterizations of Three Coordinate Au(I) and Ag(I) Complexes with the Potentially Tetradentate Ligand Tris(2-(diphenylphosphino)ethyl)amine, NP_3 : $[\text{Au}_2(\text{NP}_3)_2](\text{BPh}_4)_2$, $\text{Au}(\text{NP}_3)\text{PF}_6$, $\text{Au}(\text{NP}_3)\text{NO}_3$, and $\text{Ag}(\text{NP}_3)\text{PF}_6$. The Au(I) Compounds are Luminescent." M.N.I. Khan, R.J. Staples, C. King, J.P. Fackler, Jr., R.E.P. Winpenny *Inorg. Chem.*, **1993**, 32, 5800-5807. <https://doi.org/10.1021/ic00077a025>

19. "Synthesis of Dinuclear Gold(I) "Ring" Complexes Containing 1,1-Dicyanoethene 2,2-dithiolate-S,S and Bis(diphosphines) as Bridging Ligands. X-Ray Crystal Structure of $[\text{Au}_2(\mu\text{-}i\text{-MNT})(\mu\text{-dppee})]$." R.M. Dávila, A. Elduque, R.J. Staples, M. Harlass and J.P. Fackler, Jr. *Inorg. Chim. Acta*, **1994**, 217 (no. 1-2), 45-49. [https://doi.org/10.1016/0020-1693\(93\)03741-r](https://doi.org/10.1016/0020-1693(93)03741-r)
20. "Structure of Trichloro(triphenylphosphine)gold(III), $[\text{AuCl}_3\{\text{P}(\text{C}_6\text{H}_5)_3\}]$ " R.J. Staples, A. Elduque, T. Grant and J.P. Fackler, Jr. *Acta Cryst.*, **1994**, C50, 39-40. <https://doi.org/10.1107/S0108270193006043>
21. "Structure of Dichlorobis(μ -Hydroxo)bis(μ_3 -Oxo)octaphenyltetraauric(IV), $[\text{Sn}_4\text{Cl}_2\text{Ph}_2(\text{O})_2(\text{OH})_2(\text{C}_6\text{H}_5)_8]$." R.A. Kresinski, R.J. Staples, J.P. Fackler, Jr. *Acta Cryst.*, **1994**, C50, 40-41. <https://doi.org/10.1107/S0108270193006018>
22. "Synthesis and Structural Characterization of $\text{Au}_4(\text{MNT})(\text{dppee})_2 \cdot 0.25\text{CH}_2\text{Cl}_2$: A Gold(I) Metal-Olefin Complex in which the Olefin Orientation Relative to the Coordination Plane Involving the Metal is Defined." R.M. Dávila, R.J. Staples and J.P. Fackler, Jr. *Organometallics*, **1994**, 13, 418-420. <https://doi.org/10.1021/om00014a007>
23. "Synthesis and Structural Characterisation of $[(\text{PTA})_3\text{Au}]_2\text{Au}_2(i\text{-MNT})_2 \cdot \frac{1}{2}(\text{CH}_3)_2\text{CO} \cdot \frac{1}{2}\text{CH}_3\text{CN}$, An Example of Unsupported Au(I)...Au(I) Interactions with $[\text{Au}(\text{PTA})_3]^+$, giving a Non-Linear Tetranuclear Chain {PTA = Phosphatriazaadamantane, $i\text{-MNT} = [\text{S}_2\text{C}_2(\text{CN})_2]^{2-}$ }." J.P. Fackler, Jr., R.J. Staples, Z. Assefa *J. Chem. Soc., Chem. Comm.*, **1994**, 431-432. <https://doi.org/10.1039/c39940000431>
24. "Bis(tri-*n*-Butylphosphine)gold Tetraphenylborate." J.P. Fackler, Jr., R.J. Staples, M.N.I. Khan, R.E.P. Winpenny *Acta Cryst.*, **1994**, C50, 191-193. <https://doi.org/10.1107/S0108270193007279>
25. "Benzenethiolato(triphenylphosphine)gold(I)" J.P. Fackler, Jr., R.J. Staples, A. Elduque and T. Grant *Acta Cryst.*, **1994**, C50, 520-523. <https://doi.org/10.1107/S0108270193009254>
26. "(*o*-Methoxybenzenethiolato)(triphenylphosphine)gold(I) Diethyl Ether Solvate" J.P. Fackler, Jr., R.J. Staples, R. Raptis *Acta Cryst.*, **1994**, C50, 523-525. <https://doi.org/10.1107/S0108270193008157>
27. "Pyridine-2-thiolato-N,S-bis(triphenylphosphine) Platinum(II) Hexafluorophosphate-Chloroform Solvate." S. Wang, R.J. Staples and J.P. Fackler, Jr. *Acta Cryst.*, **1994**, C50, 889-891. <https://doi.org/10.1107/S0108270193011813>
28. "Syntheses, Characterizations, Luminescence Properties and Electronic Structures of Gold(I) Bis(phosphine)-Xanthate Complexes." Z. Assefa, R.J. Staples, J.P. Fackler, Jr. *Inorg. Chem.*, **1994**, 33, 2790-2798. <https://doi.org/10.1021/ic00091a020>
29. "Two Crystalline Polymorphs of *tris*(2-Cyanoethyl)phosphinegold(I) Chloride, $[\text{Au}(\text{C}_9\text{H}_{12}\text{N}_3\text{P})\text{Cl}]$." J.P. Fackler, Jr., R.J. Staples, M.N.I. Khan and R.E.P. Winpenny *Acta Cryst.*, **1994**, C50, 1020-1023. <https://doi.org/10.1107/S0108270193013472>

30. "[$(\text{Ph}_2(\text{n-Bu})\text{P})\text{Au}\{(\text{Ph}_2\text{PS})_3\text{C}\}\} \cdot \text{CH}_3\text{CN}$: An Irregular Three Coordinated Au(I) Complex." R.J. Staples, S. Wang, J.P. Fackler, Jr., S.O. Grim and E. deLaubenfels *Acta Cryst.*, **1994**, C50, 1242-1244. <https://doi.org/10.1107/S0108270194000570>
31. "3,5-diphenyl-1,2-dithiolium di-iodo Gold(I)" R.J. Staples, S. Wang, and J.P. Fackler, Jr. *Acta Cryst.*, **1994**, C50, 1580-1582. <https://doi.org/10.1107/S0108270194000582>
32. "Syntheses and Characterizations of $\text{Au}_2\text{MNT}(\text{PR}_3)_2$ (R= Me, Et, OPh, Cy). Study of Structural Features of Open Ring Complexes as a Function of Tertiary Phosphine and Phosphite Cone Angle." R.M. Dávila, R.J. Staples, M.M. Harlass, L.J. Kyle, A. Elduque, J.P. Fackler, Jr. *Inorg. Chem.*, **1994**, 33, 5940-5945. <https://doi.org/10.1021/ic00103a049>
33. "*Bis*(triethylphosphine)gold(I) *bis*(1,2-Benzenedithiolato-S,S')gold(III), $[\text{Au}(\text{P}(\text{C}_2\text{H}_5)_3)_2][\text{Au}(\text{S}_2\text{C}_6\text{H}_5)_2]$." R.M. Dávila, R.J. Staples and J.P. Fackler, Jr. *Acta Cryst.*, **1994**, C50, 1898-1899. <https://doi.org/10.1107/S01082701940005780>
34. "Activation of Dinuclear Gold(I) Ylide Complexes by Lewis Acids. The Isomerization of $\text{trans-}[\text{Au}(\text{CH}_2)_2\text{P}(\text{C}_6\text{H}_5)(\text{CH}_3)]_2$, and the Crystal Structures of $[\text{Au}(\text{CH}_2)_2\text{P}(\text{C}_6\text{H}_5)(\text{CH}_3)]_2$, $[\text{Au}(\text{CH}_2)_2\text{P}(\text{C}_6\text{H}_5)(\text{CH}_3)]_2[\text{SO}_2]_2$, $[\text{Au}(\text{CH}_2)_2\text{P}(\text{C}_6\text{H}_5)_2]_2[\text{SO}_2]_2$ and $[\text{Au}(\text{CH}_2)_2\text{P}(\text{C}_6\text{H}_5)(\text{CH}_3)]_2[\text{S}_2\text{CNEt}_2]_2$." D.D. Heinrich, R.J. Staples and J.P. Fackler, Jr. *Inorg. Chim. Acta.*, **1995**, 229, 61-75. [https://doi.org/10.1016/0020-1693\(94\)04227-m](https://doi.org/10.1016/0020-1693(94)04227-m)
35. "Syntheses, Structure and Spectroscopic Properties of Gold(I) Complexes of 1,3,5-Triaza-phospha-adamantane. The Correlation of the Supramolecular Au---Au Interaction and the photoluminescence of species $(\text{TPA})\text{AuCl}$ and $(\text{TPAH})\text{AuCl}^+$." Z. Assefa, R.J. Staples, B.G. McBurnett, J.P. Fackler, Jr., B. Assman, K. Angermaier, H. Schmidbaur *Inorg. Chem.*, **1995**, 34, 75-83. <https://doi.org/10.1021/ic00105a016>
36. "The Trimetallic Cation $[\text{Hg}_2\text{Pt}(\text{CH}_2\text{P}(\text{S})\text{Ph}_2)_4]^{2+}$ in $[\text{Hg}_2\text{Pt}(\text{CH}_2\text{P}(\text{S})\text{Ph}_2)_4]\text{X}_2$, X= BPh_4^- , PF_6^- . An Isoelectronic Analogue of $\text{Au}_2\text{Pt}(\text{CH}_2\text{P}(\text{S})\text{Ph}_2)_4$ with Different Chemical Properties." T.F. Carlson, J.P. Fackler, Jr., R.J. Staples, and R.E.P. Winpenny *Inorg. Chem.*, **1995**, 34, 426-431. <https://doi.org/10.1021/ic00106a003>
37. "Molecular Structure of Dimethyldiphenylphosphonium Iodide, $[\text{PPh}_2(\text{CH}_3)_2]\text{I}$, **1** and Dimethyldiphenylphosphonium Bromide, $[\text{PPh}_2(\text{CH}_3)_2]\text{Br}$, **2** " R.J. Staples, T. Carlson, S. Wang, J.P. Fackler, Jr. *Acta. Cryst.*, **1995**, C51, 498-500. <https://doi.org/10.1107/S0108270194009157>
38. "Synthesis and Structural Characterization of the Luminescent Gold(I) Complex $[\text{MeI.TPA})_3\text{Au}]\text{I}_3$. Use of NaBPh_4 as a Phenyl-Transfer Reagent to Form $[\text{Me.TPA})\text{AuPh}](\text{BPh}_4)$ and $(\text{TPA})\text{AuPh}$." J.M. Forward, J.P. Fackler, Jr., and R.J. Staples. *Organometallics*, **1995**, 14, 4194-4198. <https://doi.org/10.1021/om00009a022>
39. "Excited States of Gold(I) Compounds, Luminescence and Gold-Gold Bonding" J.P. Fackler, Jr., Z. Assefa, J.M. Forward, R.J. Staples *Metal Based Drugs*, **1994**, 1, 459-466. <https://doi.org/10.1155/MBD.1994.459>

40. "Crystal structure of bis(triphenylphosphoranylidene)ammonium *bis*(1,2-dicyano-1,2-dithiolato) gold(III)." R.J. Staples, Z. Assefa, J.P. Fackler, Jr. *Zeitschrift Für Kristallographie*, **1995**, 210, 379-380. <https://doi.org/10.1524/zkri.1995.210.5.379>
41. "Crystal structure of phenylethoxycarbene-tungsten-pentacarbonyl, (CO)₅W(C(OC₂H₅)C₆H₅)" R.J. Staples, D.M. Potts, J.C. Yoder *Zeitschrift Für Kristallographie*, **1995**, 210, 381-382. <https://doi.org/10.1524/zkri.1995.210.5.381>
42. "Bis(triphenylphosphoranylidene)ammonium Bis(1,2-benzenedithiolato) gold(III)." R.J. Staples, J.P. Fackler, Jr., R.M. Dávila, T.E. Albreit *Zeitschrift Für Kristallographie*, **1995**, 210, 383-384. <https://doi.org/10.1524/zkri.1995.210.5.383>
43. "Trans bis(1,3,5-triaza-7-phosphaadamantane)bis(cyano)platinum(II), (TPA)₂Pt(CN)₂." Z. Assefa, B.G. McBurnett, R.J. Staples, J.P. Fackler, Jr. *Acta Cryst.*, **1995**, C51, 1742-1743. <https://doi.org/10.1107/S0108270195002915>
44. "Structures and Spectroscopic Properties of Gold(I) Complexes of 1,3,5-Triaza-7-phosphaadamantane (TPA). Part 2. Multiple-State Emission From (TPA)AuX (X = Cl, Br, I) Complexes." Z. Assefa, B.G. McBurnett, R.J. Staples, J.P. Fackler, Jr. *Inorg. Chem.*, **1995**, 34, 4965-4972. <https://doi.org/10.1021/ic00124a009>
45. "Bis(tricyclohexylphosphine)gold(I) *bis*(1,2-dicyano-1,2-dithiolato) gold(III)." R.J. Staples, J.P. Fackler, Jr. *Zeitschrift Für Kristallographie*, **1995**, 210, 696-697. <https://doi.org/10.1524/zkri.1995.210.9.696>
46. "Syntheses and Structural Characterizations of Two New Cu-S Clusters of Dialkyldithiophosphates. A Sulfide Centered Cu₈ Cube, {Cu₈[S₂P(OⁱPr)₂]₆(μ₈-S)}, and a Distorted Octahedral {Cu₆[S₂P(OEt)₂]₆.2H₂O} Cluster." C.W. Liu, T. Stubbs, R.J. Staples, J.P. Fackler, Jr. *J. Am. Chem. Soc.*, **1995**, 117, 9778-9779. <https://doi.org/10.1021/ja00143a030>
47. "Bis(bis(triphenylphosphoranylidene)ammonium) bis(cyanodithiocarbimate)-gold(I), [PPN]₂[Au₂(S₂CNCN)₂]." Z. Assefa, R.J. Staples, J.P. Fackler, Jr. *Acta Cryst.*, **1995**, C51, 2271-2273. <https://doi.org/10.1107/s0108270195004628>
48. "Luminescence Studies of Gold(I) Thiolate Complexes." J.M. Forward, D. Bohmann, J.P. Fackler, Jr, R.J. Staples *Inorg. Chem.*, **1995**, 34, 6330-6336. <https://doi.org/10.1021/ic00129a019>
49. "Europium(III) Tris[dicyanoArgentate(I)], Eu[Ag(CN)₂]₃.3H₂O." Z. Assefa, R.J. Staples, J.P. Fackler, Jr., H.H. Patterson, G. Shankle *Acta Cryst.*, **1995**, C51, 2527-2529. <https://doi.org/10.1107/s0108270195008596>
50. "Syntheses and Structural Characterization of Tetrahedral Four-Coordinate Gold(I) Complexes. An Example of a Hydrogen-Bond Directed Supramolecular Assembly." J.M. Forward, Z. Assefa, R.J. Staples, J.P. Fackler, Jr. *Inorg. Chem.*, **1996**, 35, 16-22. <https://doi.org/10.1021/ic950560c>

51. "Bis-(1,3,5-Triaza-7-Phosphaadamantane)Au(I) Chloride, (TPA)₂AuCl." Z. Assefa, R.J. Staples, J.P. Fackler, Jr. *Acta Cryst.*, **1996**, C52, 305-307. <https://doi.org/10.1107/s0108270195008183>
52. "Crystal structure of 1-*n*-buthyliodo-1-azonia-3,5-diaza-7-phosphaadamantane oxide, (C₆H₁₂PN₃(CH₂)₄I)." J.M. Forward, R.J. Staples J.P. Fackler, Jr. *Zeitschrift für Kristallographie* **1996**, 211, 129-130. <https://doi.org/10.1524/zkri.1996.211.2.129>
53. "Crystal structure of 1-methyl-1-azonia-3,5-diaza-7-phosphaadamantane 7-oxide tetraphenylborate, (C₆H₁₂PON₃CH₃)B(C₆H₅)₄." J.M. Forward, R.J. Staples J.P. Fackler, Jr. *Zeitschrift für Kristallographie*, **1996**, 211, 131-132. <https://doi.org/10.1524/zkri.1996.211.2.131>
54. "Self Assembly of Copper(I) and Silver(I) Butterfly Clusters with 2-Mercaptothiazoline." C.A. López, J.P. Fackler, Jr., R.J. Staples, S. Wang, R.E.P. Winpenny *Craotica Chemica Acta*, **1995**, 68, 793-823. <https://hrcak.srce.hr/136694>
55. "Monospiroaryloxyphosphazenes: Crystal and Molecular Structure of *p*-Fluorophenoxy Derivatives Containing the 1,2-Phenylenedioxy and 2,3-Napthalenedioxy Groups." A. Vij, R.J. Staples, R.L. Kirchmeier and J.M. Shreeve *Acta Cryst. C*, **1996**, C52, 2515-2520. <https://doi.org/10.1107/s0108270196005859>
56. "Luminescent Tris(3-ethyl-1,5-diaza-3-azonia-7-phosphatricyclo[3.3.1.1^{3,7}]-decane-P)gold(I) Tetraiodide Trihydrate, [(EtTPA)₃Au]I₄.3H₂O" J.M. Forward, R.J. Staples, C.W. Liu, J.P. Fackler, Jr. *Acta Cryst. C*, **1997**, C53, 195-197. <https://doi.org/10.1107/s0108270196012486>
57. "Crystal structure of cis-PtCl[P(C₆H₅)₃]₂(C₇H₅N₂). A Platinum Complex Containing a Monodentate Indazolato Ligand." R.J. Staples, R.G. Raptis and J.P. Fackler, Jr. *Zeitschrift für Kristallographie*, **1997**, 212, 157-158. <https://doi.org/10.1524/zkri.1997.212.2.157>
58. "Synthesis and single-crystal X-ray structures of [(^tBuNP)₂(^tBuN)₂]MCl₂, M= Zr, Hf: The first transition-metal bis(alkylamido)cyclodiphosph(III)azane complexes." L. Grocholl, L. Stahl, R.J. Staples *J. Chem. Soc., Chem. Comm.*, **1997**, 1465-1467. <https://doi.org/10.1039/a702606d>
59. "Monomeric, Four-Coordinate Group 4 Metal Complexes with Chelating Bis(*tert*-butylamido)cyclodisilazane Ligands: Syntheses and Molecular Structures of {(MeSiN^tBu)₂(N^tBu)₂}MCl₂ and {(MeSiN^tBu)₂(N^tBu)₂}MMe₂, M= Zr, Hf" L. Grocholl, V. Huch, L. Stahl, R.J. Staples, P. Steinhart, A. Johnson *Inorg. Chem.*, **1997**, 36, 4451-4457. <https://doi.org/10.1021/ic970287+>
60. " Substitution and Reduction Reactions of Halogenated Dinuclear Gold Ylide Complexes with Anionic Sulfur Reagents. The Molecular Structures of {Au[μ-(CH₂)₂PPh₂]}₂(DTP)₂ (1), {Au[μ-(CH₂)₂PMe₂]}₂(MTP)₂(3), anit-{[AuBr(MTP)[μ-(CH₂)₂PPh₂]} C₆H₆ (4), {Au[μ-(CH₂)₂PPh₂]}(MTP)Br(5), and {Au₂(μ-CH₂)₂[μ-(CH₂)₂PPh₂]}(DTP)₂(7), MTP=[CH₂ P(S)Ph₂]⁻, DTP = [S₂PPh₂]⁻" D.C. Neitling, R.J. Staples, J.P. Fackler, Jr. *Inorg. Chim. Acta*, **1997**, 263, 35-48. [https://doi.org/10.1016/s0020-1693\(97\)05595-3](https://doi.org/10.1016/s0020-1693(97)05595-3)

61. "Crystal structure of 1,2,3 α ,9,10,10a-hexahydro-10a β -methyl-3-phenyl-phenanthrene, C₂₁H₂₂." R.J. Staples, W.v.E. Doering, J. Benkhoff *Zeitschrift für Kristallographie New Crystal Structures*, **1997**, 212, 433-434. <https://doi.org/10.1524/ncrs.1997.212.jg.433>
62. "Crystal structure of 1,4 α ,9,10,10a-hexahydro-10a β -methyl-3-phenyl-phenanthrene, C₂₁H₂₂." R.J. Staples, W.v.E. Doering, J. Benkhoff *Zeitschrift für Kristallographie New Crystal Structures*, **1997**, 212, 435-436. <https://doi.org/10.1524/ncrs.1997.212.jg.435>
63. "Regarding the Structures and Fluxionality of Tricyclopentadienylaluminum Compounds." J.D. Fisher. P.H.M. Budzelaar, P.J. Shapiro, R.J. Staples, G.P.A. Yap, A.L. Rheingold *Organometallics*, **1997**, 16, 871-879. <https://doi.org/10.1021/om9610049>
64. "Structures of bis(N,N'-Dimethylthiourea)gold(I) Perchlorate Complex, (1) [Au(SC(NHCH₃)₂)₂][ClO₄] and bis(N,N-Diethylthiourea)gold(I) Perchlorate Complex, (2), [Au(SC(NHCH₂CH₃)₂)₂][ClO₄]." R.J. Staples, J.P. Fackler, Jr., J. Costamagna *Acta Cryst. C.*, **1997**, C53, 1555-1558. <https://doi.org/10.1107/s0108270197008317>
65. "Crystal structure of bis(benzonitrile)dichloropalladium(II), [PdCl₂(NCC₆H₅)₂]." R.J. Staples, P. A. Swiatek *Zeitschrift für Kristallographie, New Crystal Structures*, **1998**, 213, 212. <https://doi.org/10.1524/ncrs.1998.213.14.212>
66. "Crystal structure of (tetraphenylarsonium)gold(III) bromide, [AsPh₄]AuBr₂." R.J. Staples, R.A. Butcher *Zeitschrift für Kristallographie, New Crystal Structures*, **1998**, 213, 213-214. <https://doi.org/10.1524/ncrs.1998.213.14.213>
67. "The First Sandwich Silver Cluster of a Trinuclear Cyclic Gold(I) Complex." A. Burini, J.P. Fackler, Jr., R. Galassi, B.R. Pietroni, R.J. Staples *J. Chem. Soc. Chem Commun.*, **1998**, 95-96. <https://doi.org/10.1039/a706795j>
68. "Crystal structure of [methylenediphenylthiophosphinate(V)-C']-iodo- μ -[dimethylenediphenylphosphato(V)-C',C']digold(II), {Au[μ -(CH₂)₂P(C₆H₅)₂]}₂[CH₂P(S)(C₆H₅)₂][I]." R.J. Staples, D.C. Neitling, J.P. Fackler, Jr. *Zeitschrift für Kristallographie, New Crystal Structures*, **1998**, 213, 227-429. <https://doi.org/10.1524/ncrs.1998.213.14.441>
69. "Crystal structure of hexaaquanickel(II) perchlorate dihydrate, [Ni(H₂O)₆][ClO₄]₂*2H₂O." R.J. Staples, T.L. Hatfield, D.T. Pierce *Zeitschrift für Kristallographie, New Crystal Structures*, **1998**, 213, 243-444. <https://doi.org/10.1524/ncrs.1998.213.14.257>
70. "The Synthesis and characterization of α -Re₂Cl₄(depe)₂ and α -W₂Cl₄(depe)₂" K.M. Carlson-day, J.L. Eglin, K.M. Huntington, R.J. Staples *Inorganic Chim. Acta*, **1998**, 271, 49-56. [https://doi.org/10.1016/s0020-1693\(97\)05893-3](https://doi.org/10.1016/s0020-1693(97)05893-3)
71. "Dinuclear gold(I) dithiophosphonate complexes: formation, structure and reactivity" W.E. Zyl, R.J. Staples, J.P. Fackler, Jr. *Inorg. Chem. Commun.*, **1998**, 1, 51-54. [https://doi.org/10.1016/s1387-7003\(98\)00013-6](https://doi.org/10.1016/s1387-7003(98)00013-6)

72. "Heteroatom Derivatives of Cyclopentadienylaluminum: X-ray Crystal Structure of $(\eta^5\text{-C}_5\text{H}_5)(2,6\text{-}t\text{-Bu-4-Me-C}_6\text{H}_2\text{O})_2\text{Al}$ " J.D. Fisher, P.J. Shapiro, P.M.H. Budzelaar, R.J. Staples *Inorg. Chem.*, **1998**, 37, 1295 -1298. <https://doi.org/10.1021/ic970376m>
73. "Polycyclic Bis(tert-butylamido)cyclodiphosph(III)azene Complexes of Lithium and Magnesium: Syntheses, Molecular Structures and Their Relationship to Isoelectronic Cyclodisilazane Derivatives." I. Schranz, L. Stahl, R.J. Staples *Inorg. Chem.*, **1998**, 37, 1493 -1498. <https://doi.org/10.1021/ic971201f>
74. "Syntheses and Molecular Structures of Bis(tert-butylamido)cyclodiphosph(III)-azane Cage Complexes of Thallium(I) and Indium(II). " L. Grocholl, I. Schranz, L. Stahl, R.J. Staples *Inorg. Chem.*, **1998**, 37, 2496-2499. <https://doi.org/10.1021/ic9716316>
75. "Synthesis of Dirhenium Species with Benzamidate Ligands *via* the Hydrolysis of Benzonitrile" C.B. Bauer, T.E. Concolino, J.L. Eglin, R.D. Rogers, R.J. Staples *J. Chem. Soc., Dalton Trans.*, **1998**, 2813-2817. <https://doi.org/10.1039/A801746H>
76. "1,3-Di(tert-butyl)-2,4-ditert-butylamido)-2,4-dimethylcyclodisilazane: A Chelating Ancillary Amide Ligand for Transition Metals" L. Grocholl, L. Stahl, R.J. Staples *Inorg. Chem.*, **1998**, 37, 5036-5038. <https://doi.org/10.1021/ic9801140>
77. "Tetrahedral, octahedral, cubal and centered cubal dithiolate clusters and cages of Cu(I) and Ag(I)." J.P. Fackler, Jr., R.J. Staples, C.W. Liu, R. Theron, C. Lopez, J.T. Pitts *Pure and Applied Chemistry*, **1998**, 70, 839-844. <https://doi.org/10.1351/pac199870040839>
78. "Copper(I) 1,1-Dithiolate Cluster Transformations. Synthesis of $[\text{Bu}_4\text{N}]_6[\text{Cu}_6(\text{S},i\text{-MNT})_6]$, $i\text{-MNT} = [\text{S}_2\text{CC}(\text{CN})_2]^-$, from $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$ with Sulfur. Reaction of Cyclic Hexanuclear Complexes with Phosphine to give the Tetrahedral $[\text{Bu}_4\text{N}]_4[\text{Cu}_4(\text{S},i\text{-MNT})_4]$ which Oxidizes in Solution to Give the Homocubane $[\text{Bu}_4\text{N}]_4[\text{Cu}_8(i\text{-MNT})_6]$ and $[\text{Bu}_4\text{N}]_2[\text{Cu}(i\text{-MNT})_2]$." C.W. Liu, R.J. Staples, J.P. Fackler, Jr. *Coord. Chem. Rev.*, **1998**, 174, 147-177. [https://doi.org/10.1016/S0010-8545\(98\)00049-6](https://doi.org/10.1016/S0010-8545(98)00049-6)
79. "Structural and spectroscopic comparisons of tris(2-(diphenylphosphino)-ethyl)aminecopper(I) tetraphenylborate, $[(\text{NP}_3)\text{Cu}](\text{BPh}_4)$, with gold(I) and silver(I) $[(\text{NP}_3)\text{M}]\text{X}$ ($\text{X} = \text{BPh}_4, \text{NO}_3, \text{PF}_6$) complexes." J.P. Fackler, Jr., J.M. Forward, T. Grant, R.J. Staples. *J. Molecular Spectroscopy*, **1998**, 470, 151-160. [https://doi.org/10.1016/S0022-2860\(98\)00477-3](https://doi.org/10.1016/S0022-2860(98)00477-3)
80. "Crystal structure of 1,1-Trimethylenebis[4-(hydroxyiminomethyl)pyridinium bromide] Hydrate " C.D. Bustamante, R.J. Staples *Zeitschrift für Kristallographie, New Crystal Structures*, **1999**, 214, 141-142. <https://doi.org/10.1515/ncrs-1999-0171>
81. "C₂-Symmetric Copper(II) Complexes as Chiral Lewis Acids. Scope and Mechanism of Catalytic Enantioselective Aldol Additions of Enolsilanes to (Benzyloxy)acetaldehyde." D.A. Evans, M.C. Kozlowski, J.A. Murry, C.S. Burgey, K.R. Campos, B.T. Connell, R.J. Staples *J. Am. Chem. Soc.*, **1999**, 121, 669-685. <https://doi.org/10.1021/ja9829822>

82. "Polycyclic bis(amido)cyclodiphosphazane complexes of antimony(III) and bismuth(III): syntheses, molecular structures and solution behavior." D.F. Moser, I. Schranz, M.C. Grerrety, L. Stahl, R.J. Staples *J. Chem. Soc., Dalton Trans.*, **1999**, 5, 751-758. <https://doi.org/10.1039/A807207H>
83. "Crystal structure of 4,4-dimethyloxazolidine-2-thione, C₅H₉NOS" T. Gray, C.E. Laplaza, R.J. Staples *Zeitschrift für Kristallographie, New Crystal Structures*, **1999**, 214, 230. <https://doi.org/10.1515/ncrs-1999-0240>
84. "Crystal structure of anhydrous tetraethylammonium Chloride, [(CH₃CH₂)₄N]Cl" R.J. Staples *Zeitschrift für Kristallographie, New Crystal Structures*, **1999**, 214, 231-232. <https://doi.org/10.1515/ncrs-1999-0241>
85. "Synthesis of multiply-bonded dichromium complexes with a variety of formamidine ligands" K.M. Carlson-Day, J.L. Eglin, C. Lin, L.T. Smith, R.J. Staples, D.O. Wipf *Polyhedron*, **1999**, 18, 817-824. [https://doi.org/10.1016/S0277-5387\(98\)00362-3](https://doi.org/10.1016/S0277-5387(98)00362-3)
86. "Structural and spectroscopic characterization of dirhenium acetamidate products resulting from the hydrolysis of acetonitrile." T.E. Concolino, J.L. Eglin, R.J. Staples *Polyhedron*, **1999**, 18, 915-921. [https://doi.org/10.1016/S0277-5387\(98\)00381-7](https://doi.org/10.1016/S0277-5387(98)00381-7)
87. "Characterization of Luminescent, Homoleptic, Three-Coordinate, Water Soluble Au(I) Complex of Trisulfonated Triphenylphosphine (TPPTS) as the Cesium Salt Cs₈[Au(TPPS)₃]*5.25H₂O." J.P. Fackler, Jr., T.A. Grant, B.E. Hanson, R.J. Staples, *Gold Bulletin*, **1999**, 32, 20-23. <https://doi.org/10.1007/BF03214785>
88. "Crystal Structures of the Cobalt(III), Nickel(II), Copper(II) and Zinc(II) Complex of 2-thio-6-picoline N-Oxide." D.X. West, C.A. Brown, J.P. Jasinski, J.M. Jasinski, R.M. Heathwaite, D.G. Fortier, R.J. Staples, R.J. Butcher *J. Chem. Cryst.*, **1998**, 28, 853-860. <https://doi.org/10.1023/A:1022886116342>
89. "Preparation and Structure of Two Ditungsten Compounds Synthesized with the 3,5-Dichlorophenylformamidinate Ligand." K.M. Carlson-Day, J. L. Eglin, L. Smith, R.J. Staples *Inorganic Chemistry*, **1999**, 38, 2216-2220. <https://doi.org/10.1021/ic9810642>
90. "Coordination Chemistry of Lanthanides at "High" pH: Synthesis and Structure of Pentadecanuclear Complex of Europium(III) with Tyrosine." R. Wang, Z. Zheng, T. Jin, R.J. Staples *Angew. Chem. Int. Ed.*, **1999**, 38, 1813-1815. [https://doi.org/10.1002/\(sici\)1521-3773\(19990614\)38:12<1813::aid-anie1813>3.0.co;2-3](https://doi.org/10.1002/(sici)1521-3773(19990614)38:12<1813::aid-anie1813>3.0.co;2-3)
91. "A Molybdenum-Iron-Sulfur Cluster Containing Structural Elements Relevant to the P-Cluster of Nitrogenase." F. Osterloh, Y. Sanakis, R.J. Staples, E. Münck, R.H. Holm *Angew. Chem. Int. Ed.*, **1999**, 38, 2066-2070. [https://doi.org/10.1002/\(sici\)1521-3773\(19990712\)38:13/14<2066::aid-anie2066>3.0.co;2-k](https://doi.org/10.1002/(sici)1521-3773(19990712)38:13/14<2066::aid-anie2066>3.0.co;2-k)
92. "Lipophilic 4-Isoxazolyl-1,4-dihydropyridines: Synthesis and Structure-Activity Relationships." N.R. Natale, M.E. Rogers, R.J. Staples, D.J. Triggle, and A. Rutledge *J. Med. Chem.*, **1999**, 42, 3087-3093. <https://doi.org/10.1021/jm980439q>

93. "Crystallographic and Spectroscopic Characterization of Tetrakis(μ -N,N'-diarylformamidinato)dichlorodirhenium (III, III) Compounds." J. L. Eglin, C. Lin, T. Ren, L. Smith, R.J. Staples and D. O. Wipf *European Journal of Inorganic Chemistry*, **1999**, 2095-2103. [https://doi.org/10.1002/\(sici\)1099-0682\(199911\)1999:11<2095::aid-ejic2095>3.0.co;2-t](https://doi.org/10.1002/(sici)1099-0682(199911)1999:11<2095::aid-ejic2095>3.0.co;2-t)
94. "Ring Opening of Dilithio Bis(amido)cyclodiphosphazanes As a Route to 1,3-Diaza-2,2'-phosphazene Gallium Complexes." I. Schranz, D.F. Moser, L. Stahl, R.J. Staples *Inorg. Chem.*, **1999**, 38, 5814-5819. <https://doi.org/10.1021/ic990553e>
95. "A study of two geometric isomers of 1,1'-bi-3-cyanocyclohex-2-enylidene." Y. Wang, W.v.E. Doering, R.J. Staples *J. Chem. Cryst.*, **1999**, 29, 977-982. <https://doi.org/10.1023/A:1009594532547>
96. "Characterization of $[\text{Re}_2\text{Cl}_3(\text{dppm})_2(\text{NCCH}_3)_2][\text{Cl}]$ and $[\text{Re}_2\text{Cl}_3(\mu\text{-dppm})_2(\text{NCC}_6\text{H}_5)_2][\text{Cl}]$ via Two-Dimensional NMR Spectroscopic Techniques." T.E. Concolino, J.L. Eglin, C.E. Hadden, R.P. Hicks, R.J. Staples, E.J. Valente, J.D. Zubkowski *Journal of Cluster Science*, **2000**, 11, 109-123. **Special Volume JP 65th** <https://doi.org/10.1023/A:1009012731250>
97. "Synthesis, Characterization and X-ray Crystallography of a Series of Ditungsten Complexes with Bis(diphenylphosphino)Amine." J.L. Eglin, L.T. Smith, R.J. Staples, E.J. Valente, J.D. Zubkowski *J. Organomet. Chem.*, **2000**, 596, 136-143. **Special Volume AFC 70th** [https://doi.org/10.1016/s0022-328x\(99\)00610-5](https://doi.org/10.1016/s0022-328x(99)00610-5)
98. "Syntheses and Structures of Heterobicyclic Bis(*tert*-butylamido)cyclodiphosph(III)azane Compounds Having Phosphorus(III) and Arsenic(III) Centers." I. Schranz, L.P. Grocholl, L. Stahl, R.J. Staples, A. Johnson *Inorg. Chem.*, **2000**, 39, 3037-2041. <https://doi.org/10.1021/ic991405r>
99. "Speciation and Mechanistic Studies of Chiral Copper(I) Schiff Base Precursors Mediating Asymmetric Carbenoid Insertion Reactions of Diazoacetates into the Si-H Bond of Silanes." L.A. Dakin, P.C. Ong, J.S. Panek, R.J. Staples, P. Stavropoulos *Organometallics*, **2000**, 19, 2896-2908. <https://doi.org/10.1021/om0003786>
100. "Luminescent Chains Formed from a Neutral, Triangular Gold Complexes Sandwiching Tl(I) and Ag(I). Structures of $\{\text{Ag}([\text{Au}(\mu\text{-}N^3, C^2\text{-bzim})]_3)_2\}\text{BF}_4 \cdot \text{CH}_2\text{Cl}_2$, $\{\text{Tl}([\text{Au}(\mu\text{-}N^3, C^2\text{-bzim})]_3)_2\}\text{PF}_6 \cdot 0.5\text{THF}$, bzim = 1-Benzylimidazolate, and $\{\text{Tl}([\text{Au}(\mu\text{-}C(\text{OEt})=\text{NC}_6\text{H}_4\text{CH}_3)]_3)_2\}\text{PF}_6 \cdot \text{THF}$, with MAu_6 , M = Ag^+ , Tl^+ Cluster Cores." A. Burini, R. Bravi, J.P. Fackler, Jr., R. Galassi, T.A. Grant, M.A. Omary, B.R. Pietroni, R.J. Staples *Inorg. Chem.*, **2000**, 39, 3158-3165. <https://doi.org/10.1021/ic991492n>
101. "Functional Aspects of Gif-type Oxidation of Hydrocarbons Mediated by Iron Picolinate H_2O_2 -Dependent Systems: Evidence for the Generation of Carbon- and Oxygen-Centered Radicals." S. Kiani, A.S. Tapper, R.J. Staples, P. Stavropoulos *J. Am. Chem. Soc.*, **2000**, 122, 7503-7517. <https://doi.org/10.1021/ja000063h>

102. "Oxygenation of Hydrocarbons Mediated by Mixed-Valent Basic Iron Trifluoroacetate and Valence-Separated Component Species under Gif-type Conditions Involves Carbon- and Oxygen-Centered Radicals." A.S. Tapper, J.R. Long, R.J. Staples, P. Stavropoulos *Angew. Chem. Int. Ed.*, **2000**, 39, 2343-2346. [https://doi.org/10.1002/1521-3773\(20000703\)39:13<2343::aid-anie2343>3.0.co;2-t](https://doi.org/10.1002/1521-3773(20000703)39:13<2343::aid-anie2343>3.0.co;2-t)
103. "Ethyl 4-[1-(5,5-Dimethyl-1,3-Dioxanyl)]-Ethyl-5-Methyl-3-Isoxazolyl Carboxylate" P. Zhou, J.D. Fisher, R.J. Staples, A. Vij, N.R. Natale *Acta Cryst. C*, **2000**, C56, 1146-1147. <https://doi.org/10.1107/s0108270100008489>
104. "Supramolecular Chain Assemblies Formed by Interaction of a Molecular Acid Complex of Mercury with-Base Trinuclear Gold Complexes" A. Burini, J.P. Fackler, Jr., R. Galassi, T. A. Grant, M. A. Omary, M. A. Rawashdeh-Omary, B. R. Pietroni, R. J. Staples *J. of the Am. Chem. Soc.*, **2000**, 122(45), 11264-11265. <https://doi.org/10.1021/ja0024690>
105. " Structural and Functional Characteristics of Rhenium Clusters Derived from Redox Chemistry of the Triangular $[\text{Re}^{\text{III}}_3(\mu\text{-Cl})_3]$ Core Unit." D. Neuman, P. Paraskevopoulou, N. Psaroudakis, K. Mertis, R.J. Staples, P. Stavropoulos *Inorg. Chem.*, **2000**, 39, 5530-5537. <https://doi.org/10.1021/ic000449t>
106. " Synthesis, Characterization, and Reactivity of Ferrous and Ferric Oxo/Peroxo Pivalate Complexes in Relation to Gif-type Substrate Oxygenation of Substrates." R. Celenligil-Cetin, R.J. Staples, P. Stavropoulos *Inorg. Chem.*, **2001**, 39, 5838-5846. <https://doi.org/10.1021/ic000261+>
107. "Trispirocyclic Bis(dimethylaluminum)bis(amido)cyclodiphosph(V)azanes" G.R. Lief, C.J. Carrow, L. Stahl, R.J. Staples *Organometallics*, **2001**, 20, 1629-1635. <https://doi.org/10.1021/om000916e>
108. "Crystal structure of bis(4-methylimidazole)bis(4-methylimidazole)gold(III)-methanol(1/2)" R.J. Staples *Zeitschrift für Kristallographie, New Crystal Structures*, **2001**, 311-313. <https://doi.org/10.1524/ncrs.2001.216.14.321>
109. "Crystal structure of 4-phenylimidazole" R.J. Staples, L.H. Sonderegger *Zeitschrift für Kristallographie, New Crystal Structures*, **2001**, 313-314. <https://doi.org/10.1524/ncrs.2001.216.14.323>
110. "Titanium complexes of bis(1-amido)cyclodiphosph(III)azanes and bis(1-amido)cyclodiphosph(V)azanes: facial versus lateral coordination." D.F. Moser, C.J. Carrow, L. Stahl, R.J. Staples *J. Chem. Soc., Dalton Trans.*, **2001**, 1246-1252. <https://doi.org/10.1039/B007877H>
111. "Crystal Structure of Isopropyl Phosphine Sulfide. (Synthesis, $^{31}\text{P}\{^1\text{H}\}$ NMR and)" B. M. Segal, R.J. Staples *Acta Cryst. E*, **2001**, 57, o432-o433. <https://doi.org/10.1107/S1600536801004767>

112. "Crystal structures of copper(II) complexes of 2-formylpyridine substituted thiosemicarbazones; the first example of a coordinated thiosemicarbazone with a thiol function." D.X. West J.K. Swearingen, T.J. Romack, I.S. Billeh, J.P. Jasinski, Y. Li and R.J. Staples, *J. of Mol. Struct.*, **2001**, 570, 129-136. [https://doi.org/10.1016/s0022-2860\(01\)00471-9](https://doi.org/10.1016/s0022-2860(01)00471-9)
113. "Influence of Extrinsic Factors on Electron Transfer in a Mixed-Valence Fe²⁺/Fe³⁺ Complex: Experimental Results and Theoretical Considerations." C. Achim, E.L. Bominaar, R.J. Staples, E. Münck, R.H. Holm *Inorg. Chem.*, **2001**, 40, 4389-4403. <https://doi.org/10.1021/ic010498l>
114. "Syntheses and Structures of Bis(azido)- and Bis(*tert*-butoxy)cyclodistibazanes." D. C. Haagensohn, L. Stahl, R. J. Staples, *Inorg Chem.*, **2001**, 40, 4491-4493. <https://doi.org/10.1021/ic010247c>
115. "Dithiophosphinates of Gold(I). Oxidative addition of Cl₂ to a neutral, dinuclear gold(I) dithiophosphinate complex. X-ray crystal structures of [AuS₂P(C₂H₅)₂]₂, [AuS₂PPh₂]₂, Au₂(CH₂)₂PMe₂(S₂PPh₂), and Au₂Cl₂[(CH₂)₂PMe₂][S₂PPh₂]." W.E. Zyl, J.M. Lopez-de-Luzuriaga, J.P. Fackler, Jr., R. J. Staples *Canad. J. Chem.*, **Brian James edition, 2001**, 79, 896-903. <https://doi.org/10.1139/v01-019>
116. "Crystal Structure of Tetraphenyl Phosphonium Sulfate" R.J. Staples *Zeitschrift für Kristallographie, New Crystal Structures*, **2001**, 216, 395-396. <https://doi.org/10.1524/ncrs.2001.216.14.417>
117. "Mono- and di-nickellazaphosphiranes of mono- and bis-(amido)cyclodiphosph(III)azanes." G.R. Lief, C.J. Carrow, L. Stahl, R.J. Staples *Chem. Commun.*, **2001**, 17, 1562-1563. <https://doi.org/10.1039/b105359k>
118. "Tandem Chain Extension-Aldol Reaction: Syn Selectivity with a Zinc Enolate." S. Lai, C.K. Zercher, J.P. Jasinski, S.N. Reid, R.J. Staples *Org. Lett.*, **2001**, 26, 4169-4171. <https://doi.org/10.1021/ol016788n>
119. "Halide-Templated Assembly of Polynuclear Lanthanide-Hydroxo Complexes." R. Wang, H. D. Selby, H. L., M. D. Carducci, T. Jin, Z. Zheng, J. W. Anthis, and R. J. Staples *Inorg. Chem.*, **2002**, 41, 278-286. <https://doi.org/10.1021/ic010859x>
120. "Nickel(II) Complexes with Tetra- and Pentadentate Aminopyridine Ligands: Synthesis, Structure, Electrochemistry, and Reduction to Nickel(I) Species." S.V. Kryatov, B.S. Mohanraj, V.V. Tarasov, O.P. Kryatova, E.V. Rybak-Akimova, R.J. Staples, A.Y. Nazarenko *Inorg. Chem.*, **2002**, 41, 923-930. <https://doi.org/10.1021/ic010397n>
121. "Syntheses and Structures of *P*-Anilino-*P*-chalcogeno- and *P*-Anilino-*P*-iminodiazasilaphosphetidines and Their Group 12 and 13 Metal Compounds." D.C. Haagensohn, D.F. Moser, L. Stahl, R.J. Staples *Inorg. Chem.*, **2002**, 41, 1245-1253. <https://doi.org/10.1021/ic010973f>

122. "Toward synthetic models for high oxidation state forms of Photosystem II active site metal cluster: the first tetranuclear manganese cluster containing a $[\text{Mn}_4(\mu\text{-O}_5)]^{6+}$ core." S. Mukhopadhyay, R.J. Staples, W. H. Armstrong *Chem. Commun.*, **2002**, 8, 864-865. <https://doi.org/10.1039/b111554e>
123. "Dinuclear Gold(I) Dithiophosphate Complexes: Synthesis, Luminescent Properties, and Structures of $[\text{AuS}_2\text{PR}(\text{OR}')_2]_2$ (R = Ph, R' = C₅H₉) **2**, (R=4-C₆H₄OMe, R' = (1S,5R, 2S)-(-)-menthyl) **3** and (R=Fc, R' = (CH₂)₂(CH₂)₂OMe) ." W. E. van Zyl, Fackler, Jr., J. M. Lopez-de-Luzuriaga, A. Mohamed, R. J. Staples *Inorg. Chem.*, **2002**, 41, 4579-4589. <https://doi.org/10.1021/ic0201856>
124. "The Diphenylmethylenethiophosphinate (MTP) Ligand in Gold(I), Platinum(II), Lead(II), Thallium(I), and Mercury(II) Complexes. " J.P. Fackler, Jr, E.Galarza, G. Garzon, A.M. Mazany, H.H. Murray, M.A. R. Omary, R. Raptis, R.J. Staples, W.E.V Zyl, S. Wang. Article in "Inorganic Syntheses, Volume 33" edited by Dimitri Coucouvanis, Wiley Publishers, New York, **2002**, pp. 171-180.
124. "Syntheses, Structure and Photoluminescence Properties of the 1-Dimensional Chain Compounds $[(\text{TPA})_2\text{AuCN}]$, **1** and $(\text{TPA})\text{AuCl}$, **2**, (TPA= 1,3,5-Triaza-7-Phosphaadamantane)." Z. Assefa, Mohammad A. Omary, B.G. McBurnett, J.P. Fackler, Jr., H.H. Patterson, R.J. Staples *Inorg. Chem.*, **2002** 41(24), 6274-6280. <https://doi.org/10.1021/ic025784r>
125. "Stable supramolecular dimer of self-complementary benzo-18-crown-6 with pendant protonated amino arm." O.P. Kryatova, S.V. Kryatov, R.J. Staples, and E.V. Rybak-Akimova *Chem. Commun.*, **2002**, (24), 3014-3015. <https://doi.org/10.1039/b209235b>
127. "Crystal Structure of 3-Bromochromone, C₉H₅BrO₂." V. Huang, R.J. Staples, *Zeitschrift für Kristallographie, New Crystal Structures*, **2002**, 217, 554. <https://doi.org/10.1524/ncrs.2002.217.jg.554>
128. "Crystal Structure of 6-Methylnictinamide" J.C. Schlenker, R.J. Staples, *Zeitschrift für Kristallographie, New Crystal Structures*, **2002**, 217, 555-556. <https://doi.org/10.1524/ncrs.2002.217.jg.555>
129. "A Lariat-Functionalized Copper(II) Diiminedioxime Complex" S. Kiani, A.B. Packard, R.J. Staples, *Acta Cryst. C*, **2002**, C58, 593-595. <https://doi.org/10.1107/s0108270102019911>
130. "Unique Structure Activity Relationship for 4-Isoxazolyl-1,4-dihydropyridines." G.W. Zamponi, S.C. Stotz, R.J. Staples, T.M. Andro, J.K. Nelson, V. Hulubei, A. Blumenfeld, N.R. Natale *J. Med. Chem.*, **2003**, 46, 87-96. <https://doi.org/10.1021/jm020354w>

131. "Nickel(II) and copper(II) complexes with pyridine-containing macrocycles bearing an aminopropyl pendant arm: synthesis, characterization, and modifications of the pendant amino group." A.M. Herrera, R.J. Staples, S.V. Kryatov, A.Y. Nazarenko, E.V. Rybak-Akimova, *J. Chem. Soc., Dalton Trans.*, **2003**, (5), 846 – 856. This article received 174 hits in March making it one of the top ten articles viewed.
<https://doi.org/10.1039/b211489e>
132. "Bis(tert-butylamido)- and bis(arylamido)cyclodiphosph(III)azane complexes of Ti, V, Zr and Hf: ligand substituent effects and coordination number." D.F. Moser, L. Grocholl, L. Stahl, R.J. Staples, *J. Chem. Soc., Dalton Trans.*, **2003**, (7), 1402-1410.
<https://doi.org/10.1039/b211009a>
133. "Tungsten to Tungsten Quadruple Bonds: Over 30 years of Research, 50 Structurally Characterized Compounds, and 100 Known Compounds." J.L. Eglin, L.T. Smith, R.J. Staples *Inorg. Chim. Acta*, **2003**, 351, 217-224. [https://doi.org/10.1016/s0020-1693\(03\)00123-3](https://doi.org/10.1016/s0020-1693(03)00123-3)
134. "Three-Coordinate Luminescent, Water-Soluble Gold(I) Phosphine Complexes: Structural Characterization and Photoluminescence Properties in Aqueous Solution." Z. Assefa, J.M. Forward, T. A. Grant, R.J. Staples, B.E. Hanson, A.A. Mohamed, J.P. Fackler, Jr., *Inorg. Chim. Acta*, **2003**, 352, 31-45. [https://doi.org/10.1016/s0020-1693\(03\)00134-8](https://doi.org/10.1016/s0020-1693(03)00134-8)
135. "Syntheses and Structures of Dinuclear Gold(I) Dithiophosphonate Complexes and the Reaction of the Dithiophosphonate Complexes with Phosphines: Diverse Coordination Types." A. Maspero, I. Kani, A.A. Mohamed, M.A. Omary, R.J. Staples, J.P. Fackler, Jr., *Inorg. Chem.*, **2003**, 42, 5311-5319. <https://doi.org/10.1021/ic034114y>
136. "(S)-N-(1-Phenethyl-piperidin-3-ylmethyl)-N-phenyl-propionamide, C₂₃H₃₀N₂" L. Shao, G.D. Cuny, J.R. Hauske, R.J. Staples, *Acta Cryst. E*, **2003**, E59, o1398-o1399.
<https://doi.org/10.1107/s1600536803015654>
137. "Reactions at the azomethine C=N bonds in the nickel(II) and copper(II) complexes of pyridine containing Schiff base macrocyclic ligands." A.M. Herrera, G.V. Kalayda, J.S. Disch, J.P. Wikstrom, I.V. Korendovych, R.J. Staples, C.F. Campana, A.Y. Nazarenko, T.E. Haas, E.V. Rybak-Akimova *J. Chem. Soc., Dalton Trans.*, **2003**, 23, 4482-4492.
<https://doi.org/10.1039/b308557k>
138. "Nickel(II) Cyclidenes with Appended Ethylpyridine Receptor Centers as Molecular Tweezers for Dicarboxylic Acids" J. Disch, R.J. Staples, T.E. Concolino, T.E. Haas, E.V. Rybak-Akimova *Inorg. Chem.* **2003**, 42, 6749-6763.
<https://doi.org/10.1021/ic0345572>
139. "Nucleophilic Reactivity and Oxo/Sulfido Substitution Reactions of M^{VI}O₃ Groups (M=Mo, W)" D.V. Partyka, R.J. Staples, R.H. Holm *Inorg. Chem.* **2003**, 42, 7877-7886.
<https://doi.org/10.1021/ic0301851>

140. "Analysis of the Crystal Structures of 1,3-Di-*tert*-butyl-2,3-dihydro-1*H*-1,3,2-diazasilol-2-ylidene and 1,3-Di-*tert*-butyl-2,2-dichloro-1,3-diaza-2-sila-4-cyclopentene." J.S. Becker, R. J. Staples, R.G. Gordon *Crystal Research and Technology*, **2004**, 39, 85-88.
<https://doi.org/10.1002/crat.200310153>
141. "Syntheses and crystal structures of mono- and bi-metallic zinc compounds of symmetrically-and asymmetrically-substituted bis(amino)cyclodiphosph(V)azanes." G.R. Lief, D.F. Moser, L. Stahl, R.J. Staples *J. of Organomet. Chem.*, **2004**, 689, 1110-1121.
<https://doi.org/10.1016/j.jorganchem.2004.01.007>
142. "Structures and luminescence of mononuclear and dinuclear base-stabilized gold(I) pyrazolate complexes" A.A. Mohamed, T. Grant, R.J. Staples, J.P. Fackler, Jr. *Inorganica Chimica Acta*, **2004**, 357, 1761-1766.
<https://doi.org/10.1016/j.ica.2003.12.006>
143. "A New High-Spin Iron(III) Complex with a Pentadentate Macrocyclic Amidopyridine Ligand: A Change from Slow Single-Ion Paramagnetic Relaxation to Long-Range Antiferromagnetic Order in a Hydrogen-Bonded Network " I.V. Korendovych, R.J. Staples, W.M. Reiff, E.V. Rybak-Akimova *Inorg. Chem.* **2004**, 43(13), 3930-3941.
<https://doi.org/10.1021/ic0351601>
144. "Shape-Shifting Tetranuclear Oxo-Bridged Manganese Cluster: Relevance to Photosystem II Water Oxidase Active Site " S. Mukhopadhyay, H.J. Mok, R.J. Staples, W.H. Armstrong *J. Am. Chem. Soc., (Communication)* **2004**, 126, 9202-9204.
<https://doi.org/10.1021/ja0475508>
145. "Metallophilic Interactions in Closed-Shell d¹⁰ Metal-Metal Dicyanide Bonded Luminescent Systems Eu[Ag_xAu_{1-x}(CN)₂]₃ and Their Tunability for Excited State Energy Transfer " J.C.F. Colis, R. Staples, C. Tripp, D. Labrecque, H. Patterson *J. Phys. Chem. B* **2005**, 109, 102-109. <https://doi.org/10.1021/jp046717g>
146. "Structural studies of lanthanide ion complexes of pure gold, pure silver and mixed (gold-silver) dicyanides" J.C.F. Colis, C. Larochelle, R. Staples, R. Herbst-Irmer, H. Patterson *J. Chem. Soc., Dalton Trans.*, **2005**, 4, 675-679. <https://doi.org/10.1039/b413967d>
147. " Hammett ¹³C NMR and X-ray studies of π -allylpalladium phosphinooxaline chiral ligand complexes " P.B. Armstrong, L.M. Bennett, R.N. Constantine, J.L. Fields, J.P. Jasinski, R.J. Staples, R.C. Bunt *Tet. Letters* **2005**, 46, 1441-1445.
<https://doi.org/10.1016/j.tetlet.2005.01.032>
148. "Tuning Tetranuclear Manganeses-Oxo Core Electronic Properties: Adamantane-Shaped Complexes Synthesized by Ligand Exchange" C.E. Dube, S. Mukhopadhyay, P.J. Bontatebus, Jr., R.J. Staples, W.H. Armstrong *Inorg. Chem.* **2005**, 44, 5161-5175.
<https://doi.org/10.1021/ic050183w>
149. "Crystal structure of 6-bromochromone, C₉H₅BrO₂" R.J. Staples, W. Lea *Zeitschrift für Kristallographie, New Crystal Structures*, **2005**, 220, 371-372.
<https://doi.org/10.1524/ncrs.2005.220.3.371>

150. "Crystal structure of α -methyl-2-naphthalene-methanol, $C_{12}H_{11}OH$ " R.J. Staples, S. George *Zeitschrift für Kristallographie, New Crystal Structures*, **2005**, 220, 383-384.
<https://doi.org/10.1524/ncrs.2005.220.3.383>
151. "Reversal of polarization in amidophosphines: neutral- and anionic- κP coordination vs. anionic- $\kappa P, N$ coordination and formation of nickelaazaphosphiranes." I. Schranz, G.R. Lief, C.J. Carrow, D.C. Haagensohn, L. Grochell, L. Stahl, R.J. Staples, R. Boomishankar, A. Steiner *J. Chem. Soc., Dalton Trans.*, **2005**, 20, 3307-3318.
<https://doi.org/10.1039/b507040f>
152. "Crystal structure of *S,R*-(+)-*N*-methylephedrine, $C_{11}H_{17}NO$ " R.J. Staples, A.A. Spencer *Zeitschrift für Kristallographie, New Crystal Structures*, **2005**, 220, 437-438.
<https://doi.org/10.1524/ncrs.2005.220.3.437>
153. "Crystal structure of *R,S*-(-)-*N*-methylephedrine, $C_{11}H_{17}NO$ " R.J. Staples, E. Cho *Zeitschrift für Kristallographie, New Crystal Structures*, **2005**, 220, 543-544.
<https://doi.org/10.1524/ncrs.2005.220.4.543>
154. "Anion Binding to Monotopic and Ditopic Macrocyclic Amides" I.V. Korendovych, M. Cho, P.L. Butler, R.J. Staples, E.V. Rybak-Akimova *Organic Letters*, **2006**, 8, 3171-3174. <https://doi.org/10.1021/ol060786r>
155. "Prenylated Stilbenes and Their Novel Biogenetic Derivatives from *Artocarpus chama*" Y-H. Wang, A-J. Hou, D-F. Chen, M. Weiller, A. Wendel, R.J. Staples *European Journal of Organic Chemistry*, **2006**, 15, 3457-33463.
<https://doi.org/10.1002/ejoc.200600278>
156. "8-*epi*-Salvinorin B: crystals structure and affinity at the κ opioid receptor" T.A. Munro, K.K. Duncan, R.J. Staples, W. Xu, L.Y. Liu-Chen, C. Beguin, W.A. Carlezon, Jr., B.M. Cohen *Beilstein Journal of Organic Chemistry*, **2007**, 31. <https://doi.org/10.1186/1860-5397-3-1>
157. "Observation of a Mixed-Metal Transition in Heterobimetallic Au/Ag Dicyanide Systems." S.R. Hettiarachchi, B.K. Schaefer, R.L. Yson, R.J. Staples, R. Herbst-Irmer, H.H. Patterson *Inorg. Chem.*, **2007**, 46, 6997-7004. <https://doi.org/10.1021/ic700780k>
158. "Hydroxide-promoted Core Conversions of Molybdenum-Iron-Sulfur Edge-Bridged Double Cubanes: Oxygen-Ligated Topological P^N Clusters." M.L. Hlavinka, T. Miyaji, R.J. Staples, R.H. Holm *Inorg. Chem.*, **2007**, 46, 9192-9200.
<https://doi.org/10.1021/ic701070w>
159. "Crystal structure of 8-methyl-8-azabicyclo(3.2.1)octan-3-one, $C_8H_{13}NO$ " R.J. Staples, Y. Qi *Zeitschrift für Kristallographie, New Crystal Structures*, **2007**, 222, 225-226.
<https://doi.org/10.1524/ncrs.2007.0093>
160. "Crystal structure of 5-Bromopyrimidine, $C_4H_3N_2Br$ " R.J. Staples, V. Lee *Zeitschrift für Kristallographie, New Crystal Structures*, **2007**, 222, 227-228.
<https://doi.org/10.1524/ncrs.2007.0094>

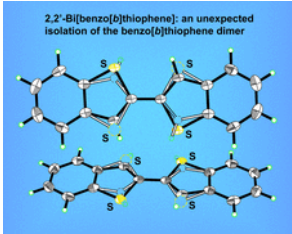
161. "Crystal structure of *bis*(5-bromo-*s*-hydroxyphenyl)ethanedione, C₁₄H₁₈Br₂O₄ " R.J. Staples *Zeitschrift für Kristallographie, New Crystal Structures*, **2007**, 222, 267-268. <https://doi.org/10.1524/ncrs.2007.0113>
162. "Crystal structure of *N*-(4-chlorophenyl)-2-cyanoacetamide, C₉H₇ClN₂O " R.J. Staples, N. Vidnovio *Zeitschrift für Kristallographie, New Crystal Structures*, **2007**, 222, 269-270. <https://doi.org/10.1524/ncrs.2007.0114>
163. "Structural report for Sc[(*R,R*)-norephedrine-pybox](OTf)₃ dimeric complex " R.J. Staples, Y. Aye *Journal of Chemical Crystallography*, **2008**, 38, 52-59. <https://doi.org/10.1007/s10870-007-9278-6>
164. "Synthesis, Characterization, and Reactivity of Iron Trisamido-Amine Complexes that Undergo both Metal- and Ligand-Centered Oxidative Transformations " R. Celenligil-Cetin, P. Paraskevopoulou, Y. Sanakis, R.J. Staples, E. Sinn, N.R. Rath, P. Stavropoulos *Inorg. Chem.*, **2008**, 47, 1165-1172. <https://doi.org/10.1021/ic702154z>
165. "Oxidative Ligand Rearrangement due to Incipient Aminyl Radicals in the Oxidation of Iron(II) Species with Dioxygen " R. Celenligil-Cetin, P. Paraskevopoulou, R. Dinda, N. Ialio, Y. Sanakis, A.M. Rawashdeh, R.J. Staples, E. Sinn, P. Stavropoulos *European J. Inorg. Chem.*, **2008**, 5, 673-677. <https://doi.org/10.1002/ejic.200701297>
166. "(*S*)-(+)-1-(2-Bromophenyl)ethanol R.J. Staples and J.W. Medley *Acta Cryst.*, **2008**, E64, 0301. <https://doi.org/10.1107/s1600536807059260>
167. "Heterocarbenioids of germanium and tin and their polyhedral oxidation products. The case for thermodynamic product control in group 14 chalcogenides " I. Schranz, L. Grocholl, C.J. Carrow, L. Stahl, R.J. Staples *J. Organomet. Chem.*, **2008**, 693, 1081-1095. <https://doi.org/10.1016/j.jorganchem.2007.12.031>
168. "Crystal structure of Triethylammonium Trichloro(triethylamino)cobaltate(II) " L. Stahl, L. Grocholl, R.J. Staples *Zeitschrift für Kristallographie, New Crystal Structures*, **2008**, 223, 75-76. <https://doi.org/10.1524/ncrs.2008.0033>
169. "Anion and Carboxylic Acid Binding to Monotopic and Ditopic Amidopyridine Macrocycles " I.V. Korendovych, M. Cho, O.V. Makhlynets, P.L. Butler, R.J. Staples, E.V. Rybak-Akimova *Journal of Organic Chemistry*, **2008**, 73, 4771-4782. <https://doi.org/10.1021/jo800128r>
170. "Effect of Pendant Arm Position and Length on the Structure and Properties of Nickel Aromatic Dicarboxylate Coordination Polymers Incorporating a Kinked Organodiimine" M.A. Braverman, R.J. Staples, R.M. Supkowski, R.L. Laduca, Jr *Polyhedron.*, **2008**, 27, 2291-2300. <https://doi.org/10.1016/j.poly.2008.04.038>

171. "N- versus O-Silylation in *cis*-[(tBuHN)O=P(μ -NtBu)₂P=O(NHtBu)] and [(Me₂Si(μ -NtBu)₂P=O(NHPh))]. Solid-State Structures of Their Silylation Products, of Cocrystalline *cis*-[(tBuHN)O=P(μ -NtBu)₂P=O(NHtBu)], and of {[(Me₂Si(μ -NtBu)₂P=O(N(SiMe₃)Ph)]VCl₃}" D.C. Hagenson, G.R. Lief, L. Stahl, R.J. Staples *J. Organomet. Chem.*, **2008**, 693, 2748-2754.
<https://doi.org/10.1016/j.jorganchem.2008.05.023>
172. "Synthesis, Properties, and Structure of Tethered Molybdenum Alkylidenes" K.S. Lokare, R.J. Staples, and A.L. Odom *Organometallics* **2008**, 27, 5130-5138.
<https://doi.org/10.1021/om800650v>
173. "A Chiral Self-Catenated Dual-Ligand Coordination Polymer Constructed from Three Distinct Interwoven Helical Motifs Interconnected by One-Dimensional Chains." D. Martin, R.J. Staples, and R.L. LaDuca Jr *Inorganic Chemistry* **2008**, 47, 9754-9756.
<https://doi.org/10.1021/ic801471e>
174. "Metalloradical Complexes of Manganese and Chromium Featuring an Oxidatively Rearranged Ligand." R. Celenligil-Cetin, P. Paraskevopoulou, N. Lalioti, Y. Sanakis, R.J. Staples, N.P. Rath and P. Stavropoulos *Inorganic Chemistry* **2008**, 47, 10996-11009.
<https://doi.org/10.1021/ic801219u>
175. "Synthesis, Crystal Structure, and Magnetic Properties of Two-Dimensional Divalent Metal Glutarate/Dipyridylamine 2-D Coordination Polymers, with a Single Crystal-to Single Crystal Transformation in the Copper Derivative." M.R. Montney, R.J. Staples, R.M. Supkowski and R.L. LaDuca Jr *J. Solid State Chemistry* **2009**, 182, 8-17.
<https://doi.org/10.1016/j.jssc.2008.09.020>
176. "A Simple and Expedient Method for the Preparation of N-Chlorohydantoins." D.C. Whitehead, R.J. Staples, B. Borhan *Tetrahedron Letters* **2009**, 50, 656-658.
<https://doi.org/10.1016/j.tetlet.2008.11.091>
177. "Synthesis and Characterization of a Tetramethyl Furanone Functionalized Diiminedioxime, a Potential Ligand for ⁶⁴Cu radiopharmaceuticals and its Copper(II) and Nickel(II) Complexes." S. Kiani, R.J. Staples, S.T. Treves, A.B. Packard *Polyhedron.*, **2009**, 28, 775-781. <https://doi.org/10.1016/j.poly.2008.12.006>
178. "Crystal structure, crystal morphology, and surface properties of an investigational drug." Y.-H Kiang, C.-Y. Yang, R.J. Staples, J. Jona *International Journal of Pharmaceutics* **2009**, 368, 76-82. <https://doi.org/10.1016/j.ijpharm.2008.09.062>
179. "Crystal structure of R(+)-2-bromo- α -methyl benzylalcohol " R.J. Staples, P. A. Wood *Zeitschrift für Kristallographie, New Crystal Structures*, **2009**, 224, 119-120.
<https://doi.org/10.1524/ncrs.2009.0055>
180. "Crystal structure of isopropyl-N-(3-chlorophenyl)carbamate, Chloropropham, C₁₀H₁₂ClNO₂ " R.J. Staples, J.A. Gingold *Zeitschrift für Kristallographie, New Crystal Structures*, **2009**, 224, 121-123. <https://doi.org/10.1524/ncrs.2009.0048>

181. "One-Step Route to 2,3-Diaminopyrroles Using a Titanium-Catalyzed Four-Component Coupling" W. Barnea, S. Majumder, R.J. Staples, and A.L. Odom *Organometallics* **2009**, 28, 3876-3881. <https://doi.org/10.1021/om9001928>
182. "Absolute configuration of 3,3'-diphenyl-[2,2'-binaphthalene]-1,1'-diol revisited." P.L. Polvarapu, A.G. Petrovic, S.E. Vick, W.D. Wulff, H.Reng, Z. Ding, R.J.Staples *J. Organic Chemistry* , **2009**, 74, 5451-5457. <https://doi.org/10.1021/jo901013z>
183. "Pyrazole Synthesis using a Titanium-Catalyzed Multicomponent Coupling reaction and Synthesis of Withasomnine" S. Majumder, K.R. Gipson, R.J. Staples, and A.L. Odom *Advanced Synthesis & Catalysis*, **2009**, 351, 2013-2023. <https://doi.org/10.1002/adsc.200900293>
184. "Getting the Sterics Just Right: A Five-Coordinate Iridium Trisboryl Complex that Reacts with C—H Bonds at Room Temperature." G.G. Chotana, B.A. Vanchura, II, M.K. Tse, R.J. Staples, R.E. Maleczka, Jr, M.R. Smith, III *Chem. Comm.*, **2009**, 5731-5733 <https://doi.org/10.1039/b914736e>
185. "Steric and counterion effects on structure of dipicolylamine nickel complexes" J.P. Wikstrom, A.S. Filatov, R.J. Staples, C.R. Guifarro, E.V. Rybak-Akimova *Inorg. Chim. Acta*, **2010**, 363, 884-890. <https://doi.org/10.1016/j.ica.2009.12.041>
186. "Bisamidate and Mixed Amine/amide NiN₂S₂ Complexes as Models for Nickel Containing Acetyl Coenzyme Synthase and Superoxide Dismutase: An Experimental and Computational study " Vaidyanathan, M.; Thomas, J.; Staples, R.; McCracken, J.; Shearer, J.; Hegg, E. L. *Inorg. Chem.* **2010**, 49, 5393-5406. <https://doi.org/10.1021/ic9023053>
187. "Electronic Effects in Iridium C-H Borylations: Insights from Unencumbered Substrates and Variation of Boryl Ligand Substituents." B.A. Vanchura, II, S.M. Preshlock, P.C. Roosen, V.A. Kallepalli, R.J.Staples, R.E. Maleczka, D.A. Singleton, Jr, M.R. Smith, III *Chem. Comm.*, **2010**, 46, 7724-7726. <https://doi.org/10.1039/c0cc02041a>
188. "Structure Change Associated with the [M^{II/III}-Triazacyclononane-N,N',N''-triacetate (TCA)]⁻⁰ Electron Transfers (M =Mn, Fe, and Ni): Crystal Structure for [Fe^{II}(H₂O)₆][Fe^{II}(TCA)]₂ " T.L. Hatfield, R.J. Staples, and D.T. Pierce *Inorg. Chem.* **2010**, 49, 9312-9320. <https://doi.org/10.1021/ic100933t>
189. "(Ferrocenylthiophosphonato- κ S)(triphenylphosphane- κ P)gold(I) dichloromethane monosolvate " H. Walt, A. Muller, R.J. Staples, W.E. Van Zyl *Acta Cryst.* **2010**, E66, m1364-m1365. <https://doi.org/10.1107/s1600536810039255>
190. " [μ -Bis(diphenylphosphanyl)acetonitrile- κ^2 P:P]S)(triphenylphosphane- κ P)bis-[chloridogold(I)]" S.V. Sithole, R.J. Staples, W.E. Van Zyl *Acta Cryst.* **2011**, E67, m64-m65. <https://doi.org/10.1107/s1600536810049834>
191. "On the Chlorenium Source in Asymmetric Chlorolactonization Reaction." R. Yousefi, D.C. Whitehead, J.M. Mueller, R.J. Staples and B. Borhan *Organic Letters*. **2011**, 13, 608-611. <https://doi.org/10.1021/ol102850m>

192. "Preparation, Solid State Characterization, and Single Crystal Structure Analysis of N-(4-(6-(4-(trifluoromethyl)phenyl)pyrimidin-4-yloxy)benzo[*d*]thiazol-2-yl)acetamide Crystal Forms." M. L. Peterson M.K. Stanton, R.C. Kelly. R.J. Staples and A. Cheng *Cryst. Eng. Comm.* **2011**, *13*, 1170-1180. <https://doi.org/10.1039/C0CE00544D>
193. "A Catalytic Asymmetric Chlorocyclization of Unsaturated Amides." A. Jaganathan, A. Garzan, D.C. Whitehead, R.J. Staples and B. Borhan *Agnew Chem. Int. Ed Engl.* **2011**, *11*, 2593-2596. <https://doi.org/10.1002/anie.201006910>
194. "Synthesis and Hydroamination Catalysis with 3-Aryl Substituted Pyrrolyl and Dipyrrolylmethane Titanium (IV) Complexes." D.L. Swartz, R.J. Staples, A.L. Odom *Dalton Transactions* **2011**, *11*, 7762-7768. <https://doi.org/10.1039/c1dt10127g>
195. "Bis[bis(diphenylphosphinoyl)acetonitrile- k^2O,O'] copper(II)." S.V. Sithole, R.J. Staples, W.E. Van Zyl *Acta Cryst.* **2011**, *E67*, m1217. <https://doi.org/10.1107/s1600536811031564>
196. "A second polymorph of Chlorido(hydroxydiphenylphosphane)gold(I)." S.V. Sithole, R.J. Staples, W.E. Van Zyl *Acta Cryst.* **2011**, *E67*, m1328-m1239. <https://doi.org/10.1107/s1600536811035732>
197. "Development of a Formal Catalytic Asymmetric [4+2] Addition of Ethyl-2,3-Butadienoate with Acyclic Enones." K.D. Ashtekar, R.J. Staples and B. Borhan *Org. Lett.* **2011**, *13*, 5732-5735. <https://doi.org/10.1021/ol202301f>
198. "Synthesis of a New Class of β -Iodo N-Alkenyl 2-Pyridones." S.Z. Tasker, B.M. Brandsen, K.A. Ryu, G.S. Snapper, R.J. Staples, R.L. DeKock and C.E. Anderson *Org. Lett.* **2011**, *13*, 6224-6227. <https://doi.org/10.1021/ol202679t>
199. "Selectivity in the Addition Reactions of Organometallic Reagents to Aziridine-2-carboxaldehydes: The Effects of Protecting Groups and Substitution Patterns." A. Kulshrestha, J.M. Schomaker, D. Holmes, R.J. Staples, J.E. Jackson and B. Borhan *Chem. Eur. J.* **2011**, *17*, 12326-12339. <https://doi.org/10.1002/chem.201101168>
200. "Evaluation of Donor and Steric Properties of Anionic Ligands on High Valent Transition Metals." S.A. DiFranco, N.A. Maciulis, R.J. Staples, R.J. Batrice and A.L. Odom *Inorg. Chem.* **2012**, *51*, 1187-1200. <https://doi.org/10.1021/ic202524r>
201. "Gold(I) complexes of neutral, anionic, and oxidized bis(diphenylphosphine)acetonitrile." S.V. Sithole, R.J. Staples and W.E. van Zyl *Inorg. Chem. Commun.* **2012**, *15*, 216-220. <https://doi.org/10.1016/j.inoche.2011.10.030>
202. "Double Stereodifferentiation in Catalytic Asymmetric Aziridination of Imines Prepared from α -Chiral Amines." L. Huang, Y. Zhang, R.J. Staples, R.H. Huang, W.D. Wulff *Chem. Eur. J.* **2012**, *18*, 5302-5313. <https://doi.org/10.1002/chem.201102520>
203. "Absolute Configuration for 1,n-Glycols: A Non-Empirical Approach to Long Range Stereochemical Determination." X. Li, C.E. Burrell, R.J. Staples and B. Borhan *JACS* **2012**, *12*, 9026-9029. <https://doi.org/10.1021/ja2119767>

204. "3,4-Dihydroxypyrrolidines via Modified Tandem Aza-Payne/Hydroamination Pathway." A. Kulshrestha, N. S. Marzjarani, K.D. Ashtekar, R. Staples and B. Borhan *Org. Lett.* **2012**, 14(14), 3592-3594. <https://doi.org/10.1021/ol301204w>
205. "Optimization of tricyclic Nec-3 necroptosis inhibitors for *in vitro* liver microsomal stability." S. Choi, H. Keys, R.J. Staples, J. Yuan, A. Degterev, G.D. Cuny *Bioorganic and Medicinal Chemistry Letters* **2012**, 22, 5685-5688. <https://doi.org/10.1016/j.bmcl.2012.06.098>
206. "Tetrabutylammonium tetrakis(trimethylsilylanolato)ferrate(1-)." M. Hay, R. Staples, A. Lee *Acta Cryst.* **2012**, E68, m1186. <https://doi.org/10.1107/S1600536812035337>
207. "Oxygen atom transfer mediated by an iron(IV)/iron(III) macrocyclic complex containing pyridine and tertiary amine donors." W. Ye, R.J. Staples, and E.V. Rybak-Akimova *J. Inorganic Biochem.* **2012**, 115, 1-12. <https://doi.org/10.1016/j.jinorgbio.2012.05.004>
208. "Multifaceted Interception of 2-Chloro-2-Oxoacetic Anhydrides: A Catalytic Asymmetric Synthesis of β -Lactams" L. Huang, W. Zhao, R.J. Staples and W.D. Wulff *Chem. Sci.* **2013**, 4, 622-628. <https://doi.org/10.1039/c2sc21240d>
209. "Crystal structure study and investigation of Solid-state cyclization for AMG 222 a Channel Hydrate" Y.-H. Kiang, K. Nagapudi, J. Liu, R.J. Staples, J. Jona *International Journal of Pharmaceutics* **2013**, 368, 299-306. <https://doi.org/10.1016/j.ijpharm.2012.11.029>
210. "Rational Synthesis of All *All*-Homocalixarenes." A.V. Predeus, V.G. Gopalsamuthiram, R.J. Staples and W.D. Wulff *Angew. Chem. Int. Ed Engl* **2013**, 52, 911-915. <https://doi.org/10.1002/anie.201206785>
211. "Single-Site N–N Bond Cleavage by Mo(IV): Possible Mechanisms of Hydrazido(1–) to Nitrido Conversion." S.A. DiFranco, R.J. Staples and A.L. Odom *Dalton Transactions* **2013**, 42, 2503-2539. <https://doi.org/10.1039/c2dt32643d>
212. "Control of Self-Penetration and Dimensionality in Luminescent Cadmium Succinate Coordination Polymer via Isomeric Dipyridylamide Ligands." J. Uebler, A.L. Pochodylo, R.J. Staples and R. L. LaDuca *Crystal Growth & Design* **2013**, 13, 2220-2232. <https://doi.org/10.1021/cg4003302>
213. "A hexanuclear gold(I) metallatriangle derived from a chiral dithiophosphate: Synthesis, structure, luminescence and oxidative bromination reactivity." M.N. Pillay, B. Omondi, R.J. Staples and W.E. van Zyl *Cryst. Eng. Comm.* **2013**, 15, 4417-4421. <https://doi.org/10.1039/c3ce40496j>
214. "Kinetic Resolution of Unsaturated Amides in a Chlorocyclization Reaction: Concomitant Enantiomer Differentiation and Face Selective Alkene Chlorination by a Single Catalyst." A. Jaganthan, R.J. Staples and B. Borhan *JACS* **2013**, 135, 14806-14813. <https://doi.org/10.1021/ja407241d>

215. "Synthesis, Spectral, X-ray Crystallography, electrochemistry, DNA/protein binding and radical scavenging activity of new palladium (II) complexes containing triphenylarsine." P. Kalaivani, R. Prabhakaran, M.V. Kaveri, R. Huang, R.J. Staples, K. Natarajan *Inorg. Chim. Acta*, **2013**, 405, 415-426. <https://doi.org/10.1016/j.ica.2013.06.038>
216. "A 4-Coordinate Ru(II) Imido: Unusual Geometry, Synthesis, and Reactivity." A.K. Singh, B.G. Levine, R.J. Staples, A.L. Odom *Chem. Comm.*, **2013**, 49, 10799-10801. <https://doi.org/10.1039/c3cc46596a>
217. "Synthesis of Diazonium Tetrachloroaurate(III) Precursors for Surface Grafting." S.N. Neil, SA.. Orefuwa, A.T. Overton, R.J. Staples, A.A. Mohamed *Inorganics*, **2013**, 1,70-84. <https://doi.org/10.3390/inorganics1010070>
218. "Luminescent Zinc Terephthalate Coordination Polymers with Pyridylnicotinamide Ligands: Effect of Added Base and Nitrogen Donor Disposition on Topology." R.L. LaDuca, J.S. Goldsworthy, R.J. Staples *J. Mol. Structure*, **2014**, 1062, 116-124. <https://doi.org/10.1016/j.molstruc.2014.01.042>
219. "Titanium-Catalyzed, One-Pot Synthesis of 2-Amino-3-cyanopyridines." A.A. Dissanayake, R.J. Staples, A.L. Odom *Adv. Syn. & Cat.*, **2014**, 70, 547-549. <https://doi.org/10.1002/adsc.201301046>
220. "2,2-Bibenzothiophene: an unexpected isolation of benzo β thiophene dimer." E.Y. Cheung, L.D. Pennington, M.D. Bartberger and R.J. Staples *Acta Cryst. C.*, **2014**, C70, 547-549. **Cover illustration**
<https://doi.org/10.1107/s2053229614009401>
- 
221. "Silyl Phosphorus and Nitrogen Donor Chelates for Homogeneous Ortho Borylation Catalysis." B. Ghaffari; S.M. Preshlock; D.L. Plattner; R.J. Staples; R.E. Maleczka, Jr; P.E. Maligres; S.W. Krska; M.R. Smith, III *J. Am. Chem. Soc.*, **2014**, 136, 14345-14348. <https://doi.org/10.1021/ja506229s>
222. "Catalytic Asymmetric α -Iminol Rearrangement- New Chiral Platforms." X. Zhang, R.J. Staples, A.L. Rheingold, W.D. Wulff *J. Am. Chem. Soc.*, **2014**, 136, 13971-13974. <https://doi.org/10.1021/ja5065685>
223. "The iso-VAPOL ligand: Synthesis, solid-state structure and its evaluation as a BORAX catalyst." A.K. Gupta, X. Zhang, R.J. Staples, W. D. Wulff *Catalysis Science & Technology*, **2014**, 4, 4406-4415. <https://doi.org/10.1039/c4cy00742e>
224. "Crystal structure of a samarium(III) nitrate chain cross-linked by a bis-carbamoylmethylphosphine oxide ligand." J.A. Stoscup, R.J. Staples, S.M. Biros *Acta Cryst.* **2014**, E70, 188-191. <https://doi.org/10.1107/s1600536814020078>

225. "Crystal structure of pentakis(ethylenediamine-k₂N,N')lanthanum(III) trichloride-ethylenediamine-dichloromethane(1/1/1)." H.T. Sartain, R.J. Staples, S.M. Biros *Acta Cryst.* **2014**, E70, 424-426. <https://doi.org/10.1107/s1600536814023289>
226. "Temperature-dependent polymorphism and magnetic properties of three-dimensional copper pyromellitate coordination polymers containing 4,4'-dipyridylamine." D. Basu, J.E. Mizze, R.J. Staples, R.L. LaDuca *J. Solid State. Chem.*, **2015**, 225, 222-230. <https://doi.org/10.1016/j.jssc.2014.12.021>
227. "Divalent metal diphenate dipyridylamine coordination polymers: Supramolecular polytypism and a rare 5-connected topology based on arc-like hexanuclear clusters." L.E. Weingartz, J.H. Nettleman, G.A. Farmum, R.J. Staples, R.L. LaDuca *Polyhedron*, **2015**, 89, 168-181. <https://doi.org/10.1016/j.poly.2015.01.016>
228. "Crystal structures of 1-(4-chlorophenyl)-2-(diphenylphosphoryl)ethan-1-one and 1-(diphenylphosphoryl)-3,3-dimethylbutan-2-one." E.G. Leach, A.A. Kulesza, R.J. Staples, S.M. Biros *Acta Cryst.* **2014**, E71, 523-527. <https://doi.org/10.1107/S2056989015006994>
229. "Crystal structure of bis(3,3-dimethyl-2-oxobutyl)diphenylphosphonium bromide chloroform monosolvate." A.A. Kulesza, R.J. Staples, S.M. Biros *Acta Cryst.* **2015**, E71, o339-0340. <https://doi.org/10.1107/S205698901500763X>
230. "Structural Chemistry and Properties of Metal Oxalates Containing a Long-Spanning Dipyridyl Ligand: Chain, Interpenetrated Diamondoid, Threaded-Loop Layer, and Self-Penetrated Topologies." M. Robinson, J. Mizzi, R.J. Staples, R.L. LaDuca *Crystal Growth & Design* **2015**, 15, 2260-2271. <https://doi.org/10.1021/acs.cgd.5b00040>
231. "Conformational Isomerism in Solid State of AMG 853-Structure Studies Using Solid-State Nuclear Magnetic Resonance and X-ray Diffraction." Y.-H. Kiang, K. Nagapudi, T. Wu, M.L. Peterson, J. Jona, R.J. Staples, P.W. Stephens *J. Pharm. Chem.* **2015**, 104, 2161-2168. <https://doi.org/10.1002/jps.24457>
232. "Selection of a Suitable Physical Form and Development of a Crystallization Process for a PDE10A Inhibitor Exhibiting Enantiotropic Polymorphism." Y.-H. Kiang, E.A. Bercot, Q. Wu, J. Liu, R.R. Milburn, D.E. Cohen, C.J. Borths, R.E. Saw, R.J. Staples, C. Davis, O.R. Thiel *Organ. Proc. Res. And Dev.*, **2015**, 19, 1849-1858. <https://doi.org/10.1021/acs.oprd.5b00031>
233. "Distinct Proton and Water Reduction Behavior with a Cobalt(III) Electrocatalyst Based on Pentadentate Oximes." D. Basu, S. Mazumder, X. Shi, R.J. Staples, H.B. Schlegel, C.N. Verani *Angew. Chem.*, **2015**, 54, 7139-7143. <https://doi.org/10.1002/anie.201501410>
234. "Th(IV) complexes with cis-ethylenebis(diphenylphosphine oxide): X-ray structures and NMR solution studies." P.T. Moris, R.J. Staples, S.M. Biros *Polyhedron*, **2016**, 114, 2-12. <https://doi.org/10.1016/j.poly.2015.05.016>

235. "C/O/P/S cycles derived from oxidative intramolecular disulfide (-S-S-) coupling of ferrocenyl dithiophosphonates." M. N. Pillay, H. V. D. Walt, R. J. Staples, W. Van Zyl *J. Organometallic Chem.*, **2015**, 749, 33-39.
<https://doi.org/10.1016/j.jorganchem.2015.05.052>
236. "Highly stereoselective, intermolecular haloetherification and haloesterification of allyl amides." B. Soltanzadeh, A. Jaganathan, R.J. Staples, B. Borhan *Agnew Chem. Int. Ed Engl.* **2015**, 54, 9517-9522. <https://doi.org/10.1002/anie.201502341>
237. " Reversible Borylene Formation from Ring-Opening of Pinacolborane and Other Intermediates Generated From 5-Coordinate Trisboryl Complexes: Implications for Catalytic C–H Borylation." B.Ghaffari, B. A. Vanchura, II, G. A. Chotana, R. J. Staples, D. Holmes, R.E. Maleczka, Jr., M.R. Smith, III *Organometallics*, **2015**, 34, 4732-4740
<https://doi.org/10.1021/acs.organomet.5b00525>
238. "Synthesis and Structure of Chromium(VI) Nitrido Cyclopentadienyl Complexes" B.S. Billow, R.D. Bemowski, S.A. DiFranco, R. J. Staples, A.L. Odom *Organometallics*, **2015**, 34, 4567-4573. <https://doi.org/10.1021/acs.organomet.5b00661>
239. "Crystal structure of 3,5-dimethylphenyl 2-nitrobenzenesulfonate of 2,4-dinitrophenyl-4-toluenesulfonate: A new polymorph." I.P. Atanasova, S. Riley, S.M. Biros, R.J. Staples, F.N. Ngassa *Acta Cryst.* **2015**, E71, 1045-1047.
<https://doi.org/10.1107/S2056989015015078>
240. "Crystal structure of 2,4-dinitrophenyl-4-toluenesulfonate: A new polymorph." T.A. Cooley, S. Riley, S.M. Biros, R.J. Staples, F.N. Ngassa *Acta Cryst.* **2015**, E71, 1085-1088. <https://doi.org/10.1107/S2056989015015650>
241. "Phosphorescent Nanocluster Light Emitting Diodes." P. Kuttipillai, R. Lunt, R.J. Staples, B. Levine, Y. Zao, C. Traverse *J. Advanced Materials*, **2016**, 28, 320-326.
<https://doi.org/10.1002/adma.201670012>
242. "Crystal structure of N-((1S,2S)-2-aminocyclohexyl)-2,4,6-trimethylbenzene-sulfonamide." F.N. Ngassa, S.M. Biros, R.J. Staples *Acta Cryst.* **2015**, E71, 1521-1524.
<http://doi.org/10.1107/S205698901502191X>
243. "Evaluation of the Coordination Preferences and Catalytic Pathway of Heteroaxial Cobalt Oximes towards Hydrogen Generation." D. Basu, S. Mazumder, J. Niklas, D. Wanniarachchi, X. Shi, R.J. Staples, O. Poluektov, H.B. Schlegel, C.N. Verani *Chem. Sci.*, **2016**, 7(5), 176-188. <https://doi.org/10.1039/C5SC04214C>
244. "Unsubstituted and Substituted Copper Malonate Coordination Polymers with Isomeric Dipyridylamide Ligands: Chain, Layer, Diamondoid, and Self-Penetrated Topologies." B.S. Stone, R.J. Staples, R.L. LaDuca *Inorg. Chim Acta.*, **2016**, 446, 176-188.
<https://doi.org/10.1016/j.ica.2016.03.015>

245. " *f*-Element coordination and extraction selectivity of a carbamoylmethylphosphine oxide ligand based on a tripodal phosphine oxide scaffold." K.A. Coburn, D.A. Hardy, M.G. Patterson, S.N. McGraw, M.T. Peruzzi, F. Boucher, B. Beelen, H.T. Sartain, T. Neils, C.L. Lawrence, R.J. Staples, S.M. Biros *Inorg. Chim Acta.*, **2016**, 449, 94-106. <https://doi.org/10.1016/j.ica.2016.05.003>
246. "Crystal structure of Phenyl 2,4,5-trichlorobenzenesulfonate." S. Riley, S.M. Biros, R.J. Staples, F.N. Ngassa *Acta Cryst.* **2016**, E72, 789-792. <https://doi.org/10.1107/S2056989016007325>
247. "Electronic Modulation of the SOMO-HOMO Energy Gap in Iron(III) Complexes towards Unimolecular Current Rectification." L.D. Wickranasinghe, S. Mazumder, K.K. Kpogo, R.J. Staples, H.B. Schlegel, C.N. Verani *Chemistry, A European Jnl.*, **2016**, 22, 10786-10790. <https://doi.org/10.1002/chem.201602444>
248. "Reprint of: Divalent metal diphenate dipyridylamine coordination polymers: Supramolecular polytypism and a rare 5-connected topology based on arc-like hexanuclear clusters." L.E. Weingartz, J.H. Nettleman, G.A. Farnum, R.J. Staples, R.L. LaDuca *Polyhedron* **2016**, 114, 459-471. <https://doi.org/10.1016/j.poly.2016.05.043>
249. "Catalyst Controlled Multicomponent Aziridinations of Chiral Aldehydes." M. Mukherjee, Y. Zhou, Y. Dai, A.K. Gupta, V.R. Pulgam, R.J. Staples, W.D. Wulff, *Chem. Eur. J.* **2017**, 23, 2552-2556. <https://doi.org/10.1002/chem.201605955>
250. "Highly Regio- and Enantioselective Vicinal Dihalogenation of Allyl Amides." B. Soltanzadeh, A. Jaganathan, Y. Yi, H. Yi, R.J. Staples, B. Borhan *J. AM. Chem. Soc.*, **2017**, 139, 2132-2135. <https://doi.org/10.1021/jacs.6b09203>
251. "Assembly of a Mononuclear Ferrous site using a Bulky Aldehyde-Imidazole Ligand." J. Li, M. Molenda, S. Biros, R. J. Staples, F.A. Chavez *Inorg. Chim Acta.*, **2017**, 464, 152-156. <https://doi.org/10.1016/j.ica.2017.05.028>
252. "High-Field NMR Spectroscopy Reveals Aromaticity-Modulated Hydrogen Bonding (AMHB) in Heterocycles." T. Kakeshpour, J. Bailey, M. Jenner, D. Howell, R.J. Staples, D. Holmes, J. Wu, J. Jackson *Agnew Chem. Int. Ed Engl* **2017**, 56, 9842-9846. <https://doi.org/10.1039/c7ob01708a>
253. "Formation of hydrazones and stabilized boron-nitrogen heterocycles in aqueous solution from cabohydrazides and *ortho*-formylphenylboronic acids." H. Gu, T.I. Chio, Z. Lei, R.J. Staples, J. S. Hirschi, S. Bane *Org. and Biomol. Chem.*, **2017**, 15, 7543-7548. <https://doi.org/10.1039/c7ob01708a>
254. " X-ray crystallographic, luminescence and NMR studies of phenacyldiphenylphosphine oxide with Ln(III) ions Sm, Eu, Gd, Tb and Dy." E.G. Leach, J.R. Shady, A.C. Boyden, A.L. Emig, A.T. Henry, E.K. Connor, R.J. Staples, S. Schaertel, E.J. Werner, S.M. Biros *Dalton Transactions*, **2017**, 46, 15458-15469. <https://doi.org/10.1039/C7DT02678A>

255. "Synthesis and reactivity of a 4His enzyme model complex." J.Li, A. Banerjee, T.A.Hasse, R. Loloee, S.M. Biros, R.J. Staples, F.A. Chavez *RCS Adv.*, **2017**, 7, 50713-50719. <https://doi.org/10.1039/C7RA09456F>
256. "Thermally-Induced Proton-Coupled Electron Transfer (PCET) using [Fe(tacn)₂](OTf)₂ (tacn = 1,4,7-triazacyclononane)." J. Li. D. Preston, B. Shay, R. Loloee, M. Sevilla, R.J. Staples, F. Chavez *Eur. J. Inorg. Chem.*, **2017**, 46, 5529-5535. <https://doi.org/10.1002/ejic.201701190>
257. "Microwave Synthesis of Charge-Compensated Dodecaborates Bearing Exohedral Boron-Phosphorus Connectivities." J. Blazejewski, R.J. Staples, Z. Lincoln, M. Lee, J. Dopke *Inorg. Chim. Acta*, **2018**, 473, 263-267. <https://doi.org/10.1016/j.ica.2017.12.027>
258. "Syntheses, density functional and sparkle PM6 semi empirical theoretical studies of O,O'-dialkyl/alkylenedithiophosphate derivatives of tin(IV) phthalocyanine adducts." A. El khaldy , A.M. Mkadmh, R.J. Staples, Y. Boni, A. Abu-Shanab, Z.S. Safi, N.A. Wazzan *Journal of Molecular structure.*, **2018**, 1167, 294-304. <https://doi.org/10.1016/j.molstruc.2018.04.039>
259. "Divergent topologies in luminescent and nitrobenzene-detecting zinc diphenate coordination polymers with flexible dipyridyamide ligands." B.L. Martinez, A.D. Shrode, R.J. Staples, R.L. LaDuca *Polyhedron*, **2018**, 151, 369-380. <https://doi.org/10.1016/j.poly.2018.04.043>
260. "Cobalt-Catalyzed C-H Borylation of Alkyl Arenes and Heteroarenes Including the First Selective Borylations of Secondary Benzylic C-H Bonds." C. Jaysundra, D. Sabasovs, R. J. Staples, J. Oppenheimer, M.R. Smith, R. E. Malecka *Organometallics*, **2018**, 37, 1567-1574. <https://doi.org/10.1021/acs.organomet.8b00144>
261. "Crystal structure of cis-[1,2-bis(diphenylphospanyl)ethane- κ^2 -P,P']dichloridoplatinum(II) chloroform disolvate: a new polymorph." J. Mugemana, J. Bender, R.J. Staples, S.M. Biros *Acta Cryst.*, **2018**, E74, 998-1001. <https://doi.org/10.1107/S2056989018008836>
262. "Crystal structure of N-allyl-4-methylbenzenesulfonamide." Z.S. Patel, A.C. Stevens. E.C. Brookout, R.J. Staples, S.M. Biros, F.N. Ngassa *Acta Cryst.*, **2018**, E74, 1126-1129. <https://doi.org/10.1107/S2056989018010290>
263. "Crystal structures of 2-bromo-1,1,1,3,3,3-hexamethyl-2-(trimethylsilyl)trisilane and 2-bromo-1,1,1,3,3,3-hexaisopropyl-2-(triisopropylsilyl)trisilane." E.M. Gulotty, R.J. Staples, S.M. Biros, P.P Gaspar, N.P. Rath, R.W. Winchester *Acta Cryst.*, **2018**, E74, 1142-1146. <https://doi.org/10.1107/S2056989018009696>
264. "Spin-Doctoring Cobalt Redox Shuttles for Dye-Sensitized Solar Cells." J. Baillargeon, Y. Xie, A.L. Raithel, B. Ghaffari, R.J. Staples, T. W. Hamann *Inorg. Chem.*, **2018**, 57, 11633-11645. <https://doi.org/10.1021/acs.inorgchem.8b01772>

265. "Three Monomeric Compounds Containing the Dipyrimidine-2-thiolategold(I) Anion." N.L. Neils, S.M. Biros, R.J. Staples, B. Wackerle, R. Harrison *Polyhedron*, **2019**, *157*, 474-478. <https://doi.org/10.1016/j.poly.2018.10.043>
266. "Synthesis, Spectral Characterization and Antibacterial Activity of Dichloro-Gold(III) O, O'-Dialkyl and Alkylene dithiophosphates; Crystal structure of [S₂POCMe₂CMe₂O] AuCl₂." G. Dnyaneshwar, A. Janen, Y. Boni, R. J. Staples, A. A. S. Elkhaldy *Phosphorus, Sulfur and Silicon and Related Elements*, **2018**, *193*, 871-876. <https://doi.org/10.1080/10426507.2018.1521405>
267. "Phosphine Interactions with High Oxidation State Metals" K.E. Aldrich, B.S. Billow, R.J. Staples, A. Odom *Polyhedron*, **2019**, *159*, 284-297. <https://doi.org/10.1016/j.poly.2018.11.027>
268. "Measurement of the Dissociation of Eu^{II}-Containing Cryptates Using Murexide" C.U. Lenora, R.J. Staples, M.J. Allen *Inorg. Chem.*, **2020**, *59*, 86-93. (AOP Feb19, 2019) <https://doi.org/10.1021/acs.inorgchem.8b03605> This article is part of the *Innovative f-Element Chelating Strategies* special issue to appear first of 2020.
269. "Total Synthesis of (–)-Salinosporamide A via a Late Stage C-H Insertion." H. Gholami, A. Kulshrestha, O. Favor, R.J. Staples, B. Borhan *Angew Chem. Int. Ed.*, **2019**, *58/30*, 10110-10113. <https://doi.org/10.1002/anie.201907852>
270. "Epitaxial Stabilization of Tetragonal Cesium Tin Iodide." L. Wang, P. Chen, P.S. Kuttipillai, I. King, R.J. Staples, K. Sun, R.R. Lunt *ACS Applied Materials & Interfaces*, **2019**, *11(35)*, 32076-32083. <https://doi.org/10.1021/acsami.9b05592>
271. "Au(I)-Catalyzed Synthesis of Trisubstituted Indolizines from 2-Propargloxy pyridines and Methyl Ketones." M.D. Rossler, C.T. Hartgerink, E.E. Zerill, B.L. Boss, A.K. Frndak, M.M. Mason, L.A. Nickerson, E.O. Romero, J.E. Van De Burg, R.J. Staples, C.E. Anderson *Organic Letters*, **2019**, *21*, 5591-5595. <https://doi.org/10.1021/acs.orglett.9b01929>
272. "Topochemical Synthesis of Single-Crystalline Hydrogen-bonded Crosslinked Organic Frameworks and Their Guest-induced Elastic Expansion." X. Jiang, X. Cui, A. Duncan, L. Li, R. Hughes, R.J. Staples, Y. Wu, E. Alexandrov, D. Proserpio *J. Am. Chem. Soc.* **2019**, *141*, 10915-10923. <https://doi.org/10.1021/jacs.9b05232>
273. "Heterodimetallic Ferrocenyl Dithiophosphonate Complexes of Nickel(II), Zinc(II) and Cadmium(II) as Sensitizers for TiO₂-Based Dye-Sensitized Solar Cells." T.J. Ajayi, M. Ollengo, L.L. Roux, M.N. Pillay, R.J. Staples, S.M. Biros, K. Wenderich, B. Mei, W.E. van Zyl *Chemistry Select*, **2019**, *4*, 7416-7424. <https://doi.org/10.1002/slct.201900622>
274. "Crystal structure of two bis-carbamoylmethylphosphine oxide(CMPO) compounds." A.I. VanerWeide, R.J. Staples, S.M. Biros *Acta Cryst.*, **2019**, *E75*, 991-996. <https://doi.org/10.1107/S205698901900820X>

275. "Electronic and Structural Comparisons Between Iron(II/III) and Ruthenium(II/III) Imide Analogs." K.E. Aldrich, B.S. Fales, A.K. Singh, R.J. Staples, B.G. Levine, J.A. McCracken, M.R. Smith III, A. Odom *Inorg. Chem.*, **2019**, 58, 11699-11715.
<https://doi.org/10.1021/acs.inorgchem.9b01672>
276. "catena-Poly[[diaquacadmium(II)]- μ -2,3-(4-carboxylatophenyl)propionate]." F.C. Ezenyilimba, R.J. Staples, R.L. La Duca *IUCrData*, Vol4, Part7, x190994
<https://doi.org/10.1107/S2414314619009945>
277. "Syntheses and crystal structures of 2-methyl-1,1,2,3,3-pentaphenyl-2-silapropane and 2-methyl-1,1,3,3-tetraphenyl-2-silapropan-2-ol". A. Williams, M. Brown, R.J. Staples, S.M. Biros, W.R. Winchester *Acta Cryst.*, **2019**, E75, 1339-1343.
<https://doi.org/10.1021/acs.bioconjchem.9b00534>
278. " β -Hydroxy-stabilized boron-nitrogen heterocycles enable rapid and efficient C-terminal protein modification." H. Gu, S. Ghosh, R.J. Staples, S.L. Bane *Bioconjugate Chemistry*, **2019**, 30, 2604-2613. <https://doi.org/10.1021/acs.bioconjchem.9b00534>
279. "Syntheses and crystal structures of 2-methyl-1,1,2,3,3-pentaphenyl silapropane and 2-methyl-1,1,3,3-tetraphenyl silapropan-2-ol." A. Williams, M. Brown, R.J. Staples, S.M. Biros, R.W. Winchester *Acta Cryst.*, **2019**, E75, 1339-1343.
<https://doi.org/10.1107/S2056989019011265>
280. "Structure and chemical analysis of major specialized metabolites produced by the lichen *Evernia prunastri*." R. Staples, R.L. Laduca, L. Roze, R. Beaudry, A. Fryday, AV. Koptina, A.L. Schillmiller, B. Smith, J.E. Linz, M. Laivenieks, F. Trail, *Chem. Biodivers.*, **2020**, 17(1), E1900465 <https://doi.org/10.1002/cbdv.201900465>
281. "Synthesis of Chromium(II) Complexes with Chelating Bis(alkoxide) Ligand and Their Reactions with Organoazides and Diazoalkanes." S.S. Kurup, R.J. Staples, R.L. Lord, S. Groysman *Molecules* **2020**, 25, 273-280. <https://doi.org/10.3390/molecules25020273>
282. "Crystal structure of 4-methyl-N-(4-methylbenzyl)benzenesulfonamide." B.A. Stenfors, R.J. Staples, S.M. Biros, F.N. Ngassa *Acta Cryst.*, **2020**, E76, 235-238.
<https://doi.org/10.1107/S2056989020000535>
283. "Crystal structure of 1-[(4-methylbenzene)sulfonyl]pyrrolidine." B.A. Stenfors, R.J. Staples, S.M. Biros, F.N. Ngassa *Acta Cryst.*, **2020**, E76, 452-455.
<https://doi.org/10.1107/S205698902000208X>
284. "Low-Spin Cobalt(II) Redox Shuttle by Isocyanide Coordination." A.L. Raithel, T.-Y. Kim, K. Nielsen, R.J. Staples, T.W. Hamann *Sustainable Energy & Fuels* **2020**, 4(5), 2497-2507. <https://doi.org/10.1039/D0SE00314J>
285. "Catalytic Asymmetric Aziridination of Benzhydryl Imines and Diazo Acetate Esters with BOROX Catalysts from 3,3'-Disubstituted VANOL Ligands." Y. Guan, Z. Lu, X. Yin, A. Mohammadlou, R.J. Staples, W.D. Wulff *Synthesis* **2020**, 52, 2073-2091.
<https://doi.org/10.1055/s-0039-1690860>

286. "The Synthesis of Functionalized 3-Aryl- and 3-Heteroaryloxazolidin-2-ones and Tetrahydro-3-Aryl-1,3-oxazin-2-ones via the Iodocyclocarbamation Reaction. Access to Privileged Chemical Structures and Scope and Limitations of the Method." A. Bell, A. Boomsma, N. Flikweert, R. Hohlman, S Zhang, R. Blankespoor, S.M. Biros, R.J. Staples, S. Brickner, M. Barbachyn, *J. of Org. Chem.*, **2020** 85(10), 6323-6337.
<https://doi.org/10.1021/acs.joc.9b03400>
287. "Asymmetric Catalytic Meerwein-Ponndorf-Verley Reduction of Ketones[−] with Aluminum(III)-VANOL Catalysts." L. Zheng, X. Yin, A. Mohammadlou, R. Sullivan, Y. Guan, R.J. Staples, W.D. Wulff, *ACS Catalysis.*, **2020**, 10, 7188-7194
<https://dx.doi.org/10.1021/acscatal.0c01734>
288. "Two beta-phosphorylamide compounds as ligands for Sm³⁺, Eu³⁺ and Tb³⁺: X-Ray crystallography and luminescence properties." A.R. Lear, J. Lenters, M.G. Patterson, R.J. Staples, E.J. Werner, S.M. Biros *Molecules* **2020**, 25, 2971
<https://doi.org/10.3390/molecules25132971>
289. "Crystal structure of N,N-diisopropyl-4-methylbenzenesulfonamide." B.A. Stenfors, R.J. Staples, S.M. Biros, F.N. Ngassa *Acta Cryst.*, **2020**, E76, 1018-1021.
<https://doi.org/10.1107/S2056989020007185>
290. "Crystal structure of 4-methyl-N-propylbenzenesulfonamide." B.A. Stenfors, R.C, Collins, J.R.J. Duran, R.J. Staples, S.M. Biros, F.N. Ngassa *Acta Cryst.*, **2020**, E76, 1070-1074. <https://doi.org/10.1107/S2056989020007756>
291. "Syntheses and crystal structures of anhydride 4-oxatetracyclo{5.3.2.0^{2,6}.0^{8,10}}dodec-11-ene-3,5-dione and the related imide 4-(4-bromophenyl)-4-azatetracyclo[5.3.2.0^{2,6}.0^{8,10}]dodec-11-ene-3,5-dione." A. Hulsman, I. Lorenzana, T. Schultz, B. Squires, B.A. Stenfors, M. Tolonen, R.J. Staples, S.M. Biros, W.R. Winchester *Acta Cryst.*, **2020**, E76, 1311-1315.
<https://doi.org/10.1107/S2056989020009512>
292. "Silver(I) Bis(phosphanyl amino)naphthalene Complexes: Synthesis, Structures, and Density Functional Theory (DFT) Calculations." F.S.W. Potwana, M.N. Pillay, R.J. Staples, P. Singh, W.v. Zyl *Inorganica Chimica Acta* **2021**, 515, 12004.
<https://doi.org/10.1016/j.ica.2020.120041>
293. "Extraordinary Phase Coherence Length in Epitaxial Halide Perovskites." K. Nasyedkin, I. King, L. Shang, P. Chen, L. Wang, R.J. Staples, K. Sun, R.R. Lunt, J. Pollanen *Condensed Matter*, **2020**, 1-23. <https://arxiv.org/abs/2009.05170>
294. "An Azo-bridge Triazole Derived from Tetrazine." A. Yu, R.J. Staples, J.M. Shreeve, Z. Anorg. Allg. Chem., **2020**, 646(22), 1799-1804. <https://doi.org/10.1002/zaac.202000343>
295. "A Duo/Trio of Triazoles as very Thermostable and Insensitive Energetic Materials." Y. Tang, Z. Yin, A.K. Chinnanni, R.J. Staples, J.M. Shreeve *Inorg. Chem.*, **2020**, 59(23), 1776-1774. <https://doi.org/10.1021/acs.inorgchem.0c03014>

296. "Very thermostable energetic materials based on a fused-triazole." Y., Tang, Z. An, A. K. Chinnam, R. J. Staples, J. M. Shreeve, *New J. Chem* **2021**, *45*, 85-91. <https://doi.org/10.1039/D0NJ05152G>
297. "Ritter-Enabled Catalytic Asymmetric Chloroamidation of Olefins." D. C. Steigerwald, B. Soltanzadeh, A. Sarkar, C. C. Morgenstern, R.J. Staples, B. Borhan *Chemical Science*. **2021**, *12*(5), 1834-1842. <https://doi.org/10.1039/d0sc05224h>
298. "Hydrogen bond system generated by nitroamino rearrangement: new character for designing next generation energetic materials." L. Hu, R.J. Staples, J.M. Shreeve, *Chem. Comm*, **2021**, *57*(5), 603-606. <https://doi.org/10.1039/d0cc07101c>
299. "HFOX – 1-Amino-1-hydrazino-2,2-dinitroethylene as a precursor to trifluoromethyl, dinitro or trinitro-based energetic 1,2,4-triazoles." A.K. Chinnam, R.J. Staples, J.M. Shreeve *Organic Letters*, **2021**, *23*, 76-80. <https://dx.doi.org/10.1021/acs.orglett.0c03736>
300. "Long-range Stereodirecting Participation across a Glycosidic Linkage om Glycosylation Reactions." W. Yang, J. Zhang, C.-W. Yang, S. Ramadan, R.J. Staples, X. Huang *Organic Letters*, **2021**, *23*(4), 1153-1156. <https://dx.doi.org/10.1021/acs.orglett.0c03394>
301. "Mono-N-oxidation of Heterocycle-Fused Pyrimidines." Y. Tang, K. Li, A.K. Chinnam, R.J. Staples, J.M. Shreeve, *Dalton Trans.*, **2021**, *50*(6), 2143-2148. <https://doi.org/10.1039/D0DT03260C>
302. "One-step synthesis to an insensitive explosive: N,N"-bis(1H-tetrazol-5yl)methyl)nitramide (BTMNA)." Y. Tang, K. Li, A.K. Chinnam, R.J. Staples, J.M. Shreeve, *Chem. Eng. Journal*, **2021**, *415*, 128697. <https://doi.org/10.1016/j.cej.2021.128697>
303. "Synthesis and energetic properties of trifluoromethyl-substituted 2-nitro-[1,2,4]triazole[1,5-a]pyrimidine derivatives." A.K. Chinnam, R.J. Staples, J.M. Shreeve *J. Florine Chemistry*, **2021**, *245*, 109743. <https://doi.org/10.1016/j.jfluchem.2021.109743>
304. "Taming nitroformate through encapsulation with nitrogen-rich hydrogen-bonded organic frameworks." J. Zhang, Y.Feng, R.J. Staples, J. Zhang, J.M. Shreeve, *Nat. Communications*, **2021**, *12*, 2146. <https://doi.org/10.1038/s41467-021-22475-8>
305. " Crystal structure of Tris(2-dicyclohexylphosphino-2,6-dimethoxy-1,1-biphenyl-κP) μ-oxoethenylidene -triangular-trigold(I) bis(trifluoromethanesulfonylimide)." C. T. Hartgerink, R.J. Staples, C.E. Anderson *Acta Cryst.*, **2021** *E77*, 537-541. <https://doi.org/10.1107/S2056989021003844>
306. "Energetic compounds based on new fused triazolo[4,5]pyridazine ring: Nitroimino lights up energetic performance." L. Hu, R.J. Staples, J.M. Shreeve, *CEJ*, **2021**, *420*(part1) 129839. <https://doi.org/10.1016/j.cej.2021.129839>



307. "Synthesis and Crystallographic Characterization of X-Substituted 2,4-Dinitrophenyl-4'-phenylbenzenesulfonates." B.A. Stenfors, R.J. Staples, S.M. Biros, F.N. Ngassa *Chemistry*, **2021**, 2(2), 591-599. *Memorial Issue Dedicated to Dr. Howard D. Flack: The Man behind the Flack Parameter*. <https://doi.org/10.3390/chemistry2020036>
308. "Selective synthesis of bis-(3-(3-(trifluoromethyl)-1H-1,2,4-triazol-5-yl)-4,4'-azo and azoxy furan derivatives." A. Kumar, R.J. Staples, J.M. Shreeve, *J. Organic Chemistry*, **2021**, 86, 7781-7786. <https://doi.org/10.1021/acs.joc.1c00531>
309. "Energetic Tricyclic Polynitropyrazole and Its Salts: Proton-Locking Effect of Guanidium Cations." Y. Tang, W. Huang, A. Kumar, J. Singh, R.J. Staples, J.M. Shreeve, *Inorganic Chemistry*, **2021**, 60, 8339-8345. <https://doi.org/10.1021/acs.inorgchem.1c01202>
310. "Dual anticancer and antibacterial activities of bismuth compounds based of asymmetric [NN'O] ligands." A.K. Chinnam, I.M. Marzano, D. Tomco, R.J. Staples, E.H. Lizarazo-Jaimes, D. A. Gomes, M. Bucciarelli-Rodriguez, W. Guerra, I.P.de Souza, C.N. Verani, E.C. Pereira-Maia *Journal of Inorganic Biochemistry* **2021**, 222, 111522. <https://doi.org/10.1016/j.jinorgbio.2021.111522>
311. " Synthesis, identification, density functional and Hirshfeld surface studies of 2,2'-disulfanediylbis(tetrahydro-4H-cyclopenta[d][1,3,2]dioxaphosphole-2-sulfide)." A.M. Mkadmh, Z.S. Safi, A.A. Elkhaldy, R.J. Staples, S. Kaya, G. Serdaroglu *Journal of Computational Chemistry*, **2021**, 1-12. <http://doi.org/10.1002/jcc.26720>
312. " One Step Closer to an Ideal Insensitive Energetic Molecule: 3,5-diamino-6-hydroxy-2-oxide-4-nitropyrimidone and its Derivatives." J. Zhang, Y. Feng, Y. Bo, R.J. Staples, J. Zhang, J.M. Shreeve *Journal of American Chemistry Society*, **2021**, 143, 12665-12674. <https://doi.org/10.1021/jacs.1c05292>
313. "Extraordinary Phase Coherence Length in Epitaxial Halide Perovskites." K. Nasyedkin, I. King, L. Zhang, P. Chen, L.Wang R.J. Staples, R. Lunt, J. Pollanen, *iScience*, **2021**, 24,102912. <https://doi.org/10.1016/j.isci.2021.102912>
314. "A Heteromeric Carboxylic Acid Based Single-Crystalline Crosslinked Organic Framework." R. Liang, J Samanta. B. Shao, M. Zhang, R.J. Staples, A.D. Chen, M. Tang, Y. Wu, I. Aprahamian, C. Ke *Ange. Chemie.*, **2021**, 60, 23176-23181. <http://dx.doi.org/10.1002/anie.202109987>
315. "Assembling Nitrogen-rich, Thermally Stable, and Insensitive Energetic Materials by Polycyclization." A. Kumar, J. Singh, R.J. Staples, J.M. Shreeve, *Chem. Eng. J.*, **2022**, 431(part3) 133235. <https://doi.org/10.1016/j.cej.2021.133235>
316. "Bridged and Fused Triazolic Energetic Frameworks with an Azo Building Block towards Thermally Stable and Applicable Propellant Ingredients." Q. Yu, F. Li, P. Yin, S-P, Pang, R.J. Staples, J.M. Shreeve *J. Mater. Chem: Mater. Ener. And Sust.*, **2021**, 9(41), 24903-24908. <https://doi.org/10.1039/D1TA07520A>

317. "Pyrazole bridges ensure highly stable and insensitive bistetrazoles." J. Singeh, J.P. Hooper, J.M. Shreeve *Chem. Eng. Journal*, **2022**, 431 (Part4) 133282
<https://doi.org/10.1016/j.cej.2021.133282>
318. "1,2-Bis(5-(trinitromethyl)-1,2,4-oxadiazol-3-yl)diazene: A Water Stable, High-Performing Green Oxidizer." A.K. Chinnam, R.J. Staples, J.M. Shreeve *Dalton Trans.*, **2021**, 50(46), 16929-16932. <https://doi.org/10.1039/D1DT03496K>
319. "Nucleophilic Catalyzed Structural Binary Cleavage of a Fused [5,5]-bicyclic Compound." A. K. Chinnam, R.J. Staples, J.M. Shreeve, *Organic Letters*, **2021**, 23, 9408-9412. <https://doi.org/10.1021/acs.orglett.1c03534>
320. "Probing Catalyst Function-Electronic Modulation of Chiral Polyborate Anionic Catalysts." W.E.G. Osminski, Z. Lu, W. Zhao, A. Mohammadlou, E.C. Matthews, V.M. Canestraight, R.J. Staples, C.J. Allen, J.S. Hirshi, W.D. Wulff *J. Org. Chem.*, **2021**, 86, 17762-17773. <https://doi.org/10.1021/acs.joc.1c01769>
321. "Bis(3-(trinitromethyl)-1H-1,2,4-triazol-5-yl)methanone: A mildly acidic high-performing energetic material." A.K. Chinnam, J. Singh, R.J. Staples, J.M. Shreeve *Chem. Eng. Journal*, **2021**, 433, 13352. <https://doi.org/10.1016/j.cej.2021.133520>
322. "One Step Closer to an Ideal Insensitive Energetic Molecule: 3,5-diamino-6-hydroxy-2-oxide-4-nitropyrimidone and its Derivatives." J. Zang, Y. Feng, Y. Bo, R.J. Staples, J.M. Shreeve *J. Am. Chem. Soc.* **2021**, 143, 12665-12674.
<https://doi.org/10.1021/jacs.1c05292>
323. "An Ultra-dynamic anion-cluster-based organic framework." J. Samanta, R.W. Dorn, W. Zhang, X. Jiang, M. Zhang, R.J. Staples, A.J. Rosini, C. Ke. *ACS Chem*, **2022**, 8(1), 253-267. <https://doi.org/10.1016/j.chempr.2021.11.014>
324. "Pushing the Limit of Nitro Groups on a Pyrazole Ring with Energy-Stability Balance." J. Singh, R.J. Staples, J.M. Shreeve *Applied Mat. And Interfaces.*, **2021**, 13(51), 61357-61364. <https://doi.org/10.1021/acsami.1c21510>
325. "Functionalized planar aromatic rings as precursors to energetic N,N'-(4,6-dinitro-1,3-phenylene)dinitramide and its salts." J. Singh, S. Sohan, R.J. Staples, J.M. Shreeve, *Materials Chemistry Frontiers* **2022**, 6(7), 933-938.
<https://doi.org/10.1039/D2QM00092J>
326. "pH-Controlled forms of 1-amino-1-hydrazino-2,2-dinitroethylene (HFOX): selective reactivity of amine and hydrazinyl groups with aldehydes or ketones." A.K. Chinnam, R.J. Staples, J.M. Shreeve, *Materials Advances* **2022**, 3(10), 4289-4294.
<https://doi.org/10.1039/D2MA00307D>
327. "Nitro-based and nitro-free tri-cationic azole salts: a unique class of energetic green tri-ionic salts obtained from the reaction with nitrogen-rich bases." A.K. Chinnam, R.J. Staples, G. Zhao, J.M. Shreeve *Materials Advances* **2022**, 3(12), 5012-5018.
<https://doi.org/10.1039/D2MA00406B>

328. "Synthesis of diphenyl-(2-Thienyl)phosphine, its chalcogenide derivatives and a series of novel complexes of lanthanide nitrates and triflates." T. Luster, H.J. Van de Roovaart, K.J. Korman, G. G. Sands, K.M. Dunn, A. Spyker, R.J. Staples, S. M. Biros, J.E. Bender *Dalton Trans.*, **2022**, 51, 9103-9115. <https://doi.org/10.1039/D2DT01570F>
329. "Engineering bistetrazoles:(E)-5,5'-(ethene-1,2-diyl)bis(1H-tetrazol-1-ol) as a new planar high-energy-density material." J. Singh, R.J. Staples, J.M. Shreeve *Material Advances*, **2022**, 3(14), 6062-6068. <https://doi.org/10.1039/D2MA00664B>
330. "Synthesis of Ester-Substituted Indolizines from 2-Propargyloxypyridines and 1,3-Dicarbonyls." H. Bos, D. Dreher, C. Hartgernink, C. Colin, R.J. Staples, C. Anderson *The Journal of Organic Chemistry.*, **2022**, 87(15), 10241-10249. <https://doi.org/10.1021/acs.joc.2c01219>
331. "Synthesis of a high-energy-density material through rapid replacement of crystal water of hydrates." J. Zhang, Y. Feng, Y. Bo, A.K. Chinnam, J. Singh, R.J. Staples, X. He, K. Wang, J. Zhang, J.M. Shreeve *Chem*, **2022**, 8(10), 2678-2687. <https://doi.org/10.1016/j.chempr.2022.06.007>
332. " Construction of Highly Thermostable and Insensitive Three-Dimensional Energetic Salts Based on [1,2,5]Oxadiazolo[3,4-d]pyrimidine ." A. K. Chinnam, R.J. Staples, J.M. Shreeve *Organic Let.*, **2022**, 24(41), 7544-7548. <https://doi.org/10.1021/acs.orglett.2c02889>
333. "Crystal structure of chlorido[diphenyl(thiophen-2-yl)phosphine-κP]gold(I)" T. Neils, A. LaDuca, J.E. Bender, R.J. Staples, S.M. Biros *Acta Cryst. Vol E*, **2022**, 78(10), 1044-1047. <https://doi.org/10.1107/S2056989022009227>
334. "Energetic Salts of Sensitive N,N'-(3,5-Dinitropyrazine-2,6-diyl)dinitramide Stabilized through Three-Dimensional Intermolecular Interactions." J. Singh, A.K. Chinnam, R.J. Staples, J.M. Shreeve *Inorg. Chem.*, **2022**, 61(41), 1643-16500. <https://doi.org/10.1021/acs.inorgchem.2c02800>
335. "FOX-7 based nitrogen rich green energetic salts: Synthesis, characterization, propulsive and detonation performance." S. Lal, R.J. Staples, J.M. Shreeve *Chem. Eng. Journal*, **2023**, 139600. <https://doi.org/10.1016/j.cej.2022.139600>
336. "Highly Selective Nitroamino Isomerization Guided by Proton Transport Dynamics: Full-Nitroamino Imidazole[4,5-d]pyridazine Fused-Ring System." Y. Wang, L. Hu, R.J. Staples, S. Pang, J. J.M. Shreeve *Appl. Mater. Interfaces.*, **2022**, 14(47), 52971-52978. <https://doi.org/10.1021/acsami.2c16250>
337. "Effects of nitric acid concentration for nitration of fused [1,2,5]oxadiazolo[3,4-d]pyrimidine-5,7-diamine" A.K. Chinnam, Y. Tang, R.J. Staples, J.M. Shreeve *Dalton Trans.*, **2022**, 51(47), 17987-17993. <https://doi.org/10.1039/D2DT03255D>
338. "A Crosslinked Ionic Organic Framework for Efficient Iodine and Iodide Remediation in Water." M. Zhang, J Samanta, B.A. Atterberry, R. Staples, R. Rossini, C. Ke *Angew. Chem. Int. Ed.*, **2022**, 61, e20221489. <https://doi.org/10.1002/anie.202214189>

339. "Balancing Energy and Stability of Nitroamino-1,2,4-Oxadiazoles through a Planar Bridge." J. Singh, R.J. Staples, M. Shreeve *Organic Letters*, **2022**, 24(48), 8832-8836. <https://doi.org/10.1021/acs.orglett.2c03623>
340. "Photoswitching Properties of 5-Methoxy-2(2-phenyldiaxenyl) Pyridine." J.T. Foy, J.Hoylt, N. Ta, R.J.Staples, C. Ehm *Chemistry Select*, **2022**, 7(47), e202204517. <https://doi.org/10.1002/slct.202204517>
341. "Molecular Switch Cobalt Redox Shuttle with a Tunable Hexadentate Ligand" A.L. Raithel, W.E. Meador, T-Y Kim, R.J. Staples, J.H. Delcamp, T.W. Hamann *JACS*, **2023**, 145(2), 1367-1377. <https://doi.org/10.1021/jacs.2c12017>
342. "Crystal structure of (Z)-(ethane-1,2-diyl)(bis(diphenylphosphine sulfide) and its complex with Pt^{II} dichloride" B. Rawls, J Cunningham, J.E. Bender, R.J. Staples, S.M. Biros, *Acta Cryst.*, **2023**, E79, 28-32. <https://doi.org/10.1107/S2056989022011847>
343. "Bisnitramide-Bridged N-Substituted Tetrazoles with Balanced Sensitivity and High Performance." A.K. Chinnam, R.J. Staples, J.M. Shreeve *Org. Lett.* **2023**, 25, 1481-1485. <https://doi.org/10.1021/acs.orglett.3c00170>
344. "Design and synthesis of phenylene-bridged isoxazole and tetrazole-1-ol based energetic materials of low sensitivity." S. Lal, R.J. Staples, J.M. Shreeve *Dalton Trans.*, **2023**, 52(11), 3449-3457. <https://doi.org/10.1039/d3dt00166k>
345. "A mixed phosphine sulfide/selenide structure as an instructional example for how to evaluate the quality of a model." S. Parkin. J. Cunningham, B. Rawls, J.E. Bender, R.J. Staples, S.M. Biros *Acta Cryst.*, **2023**, E79, 28-32. <https://doi.org/10.1107/S2056989023002700>
346. "Crystal structure of tert-butyl 3,6-diiodocarbazole-9-carboxylate." E.N. Sielaff, R.J. Staples, S.M. Biros *Acta Cryst.*, **2023**, E79, 345-348. <https://doi.org/10.1107/S205698902300230X>
347. "Increasing the limits of energy and safety in tetrazoles: dioximes as unusual precursors to very thermostable and insensitive energetic materials " J. Singh, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2023**, 11, 12896-12901. <https://doi.org/10.1039/d2ta09324c>
348. "Thiol and H₂S-Mediated NO Generation from Nitrate at Copper(II)" P. Gosh, M. Stauffer, M.E. Ahmed, J.A. Bertke, R.J. Staples, T.H. Warren *JACS* , **2023**, 145(22), 12007-12012. <https://doi.org/10.1021/jacs.3c00394>
349. "A. Lewis Acid-controlled Enantiodivergent Epoxidation" A. Mohammadlou, C. Joshi, B.P. Smith, L. Zheng, V.M. Canestraight, S. Torabikohlouni, S.M. Taimoory, S.A. Corio, B. Borhan, R. Staples, V. Mathew, W. Wulff *ChemRxiv.*, **2023**, 1-9. (May 8, 2023) <https://doi.org/10.26434/chemrxiv-2023-cdpqb>
350. "C-H··· π Interactions disrupt Electrostatic interactions between non-aqueous electrolyte solubility" S. Samaroo, C. Hengesbach, C. Bruggeman, N.G.G. Carducci, L. Mtemeri,

- R.J. Staples, T. Guarr, D.P. Hickey *NATURE CHEMISTRY*, **2023**, 15(10), 1365-1373.
<https://www.nature.com/articles/s41557-023-01291-1>
351. "Structure Guided Design of VANOL-imidodiphosphorimidate Catalysts for the Catalytic Enantioselective Bromo Spiroketalization Reaction" A. Mohammadlou, A. Chakraborty, M. Maday, X. Yin, L. Zheng, H. Gholami, K. Ashtekar, R. Staples, B. Borhan, W. Wulff {*ChemRxiv*, (Feb 8, 2023)} *ACS Catalysis* **2024**, 14, 1, 426-436.
<https://doi.org/10.1021/acscatal.3c04773?urlappend=%3Fref%3DPDF&jav=VoR&rel=cite-as>
 352. "FOX-7 derived nitramines: Novel propellants and oxidizers for solid rocket propulsion." S. Lal, R.J. Staples, J.M. Shreeve *Chem. Eng. Journal*, **2023**, 468, 143737.
<https://doi.org/10.1016/j.cej.2023.143737>
 353. "Design and Synthesis of High-Performance Planar Explosives and Solid Propellants with Tetrazole Moieties." S. Lal, R.J. Staples, J.M. Shreeve *Org. Lett.*, **2023**, 25, 5100-5104. <https://doi.org/10.1021/acs.orglett.3c01816>
 354. "A Dihydrazone as a remarkably nitrogen-rich thermostable and insensitive energetic material." J. Singh, R.J. Staples, J.M. Shreeve *Org. Lett.*, **2023**, 25(32), 6082-6086.
<https://doi.org/10.1021/acs.orglett.3c02240>
 355. "Trinitromethyl-triazolone (TNMTO): a highly dense oxidizer." S. Lal, R.J. Staples, J.M. Shreeve *Dalton Trans.*, **2023**, 52, 12341-12346. <https://doi.org/10.1039/d3dt02232c>
 356. "Energetic performance of trinitromethyl nitrotriazole (TNMNT) and its energetic salts." S. Lal, R.J. Staples, J.M. Shreeve *Chem. Comm.*, **2023**, 59(75), 11276-11279.
<https://doi.org/10.1039/D3CC03909A>
 357. "Crystal structure of a (carboxymethyl)triethylazanium bromide-2-(triethylazaniumyl) acetate (1/1) hydrogen-bonded dimer." F.M. Carlson, R.J. Staples, S.M. Biros *Acta Cryst.*, **2023**, E79(9), 800-803. <https://doi.org/10.1107/S2056989023006850>
 358. "Influence of metal on coordination geometry and solution dynamics in complexes of *cis*-ethylenebis(diphenylphosphine oxide) and Ln(OTf)₃ (Ln = La, Sm, Lu) X-ray crystal structures and NMR titration studies." G.G. Sands, G. Ertle, J. Mugemana, R.J. Staples, J. E. Binder, S.M. Biros *Polyhedron*, **2023**, 245, 116659.
<https://doi.org/10.1016/j.poly.2023.116659>
 359. "Tripodal Organic cages with Unconventional CH---O Interactions for Perchlorate Remediation in Water." J. Samanta, M. Tang, M. Zhang, R.P. Hughes, R.J. Staples, C. Ke *J. Am. Chem. Soc.*, **2023**, 145(40), 21723-21728.
<https://doi.org/10.1021/jacs.3c06379>

360. "Ortho-Alkoxy-benzamide Directed Formation of a Single Crystalline Hydrogen-bonded Crosslinked Organic Framework and Its Boron Trifluoride Uptake and Catalysis." F. Li, E. Li, K. Samanta, Z. Zheng, L. Wu, A.D. Chen, O.K. Farha, R.J. Staples, J. Niu, K. Schmidt-Rohr, C. Ke *Angew. Chem. Int. Ed.*, **2023**, e203,11601. <https://doi.org/10.1002/anie.202311601>
361. "Manipulating nitration and stabilization to achieve high energy." J. Singh, R.J. Staples, J.M. Shreeve *Science Advances*, **2023**, 9(46), eadk3754. <https://doi.org/10.1126/sciadv.adk3754>
362. "Green Light Promoted Iridium(III)/Copper(I)-Catalyzed Addition of Alkynes to Aziridinoquinoxalines Through the Intermediacy of Azomethine Ylides" O. Zhelavskiy, S. Parikh, R.J. Staples, P. Zimmerman, P. Nagorny *Angew. Chem.* **2024**, 63(12), e202318876. <https://doi.org/10.1002/anie.202318876>
363. "Manipulating sensitivities of planar oxadiazole-based high performing energetic materials." A.K. Chinnam, J. Singh, R.J. Staples, J.M. Shreeve *J. Heterocyclic Chem.*, **2024**, 506-513. <https://doi.org/10.1002/jhet.4777>
364. "Nitroiminotriazole (NIT) based potential solid propellants: synthesis, characterization, and applications." S. Lal, R.J. Staples, J.M. Shreeve *Dalton Trans.*, **2024**, 53, 903. <https://doi.org/10.1039/D3DT03954D>
365. "Highly stable poly-nitro components achieved through supramolecular encapsulation." J. Zhang, J. Zhang, J. Singh, W. Wu, R.J. Staples, J. Zhang, J.M. Shreeve *J. Mater. Chem. A*, **2024**, 12, 5918-5923. <https://doi.org/10.1039/D3TA07665B>
366. "A domino reaction from a sensitive azide: the impact of positional isomerism on chemical reactivity featuring ortho azido/nitro substituted derivatives." V. Thaltiri, J. Singh, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2024**, 12, 9546-9551. <https://doi.org/10.1039/d4ta00633j>
367. "Azidomethyl-bisoxadiadiazol-linked-1,2,3-triazole-(ABT)-based potential liquid propellant and energetic plasticizer." S. Lal, R.J. Staples, J.M. Shreeve *Dalton Trans.*, **2024**, 53, 7100-7104. <https://doi.org/10.1039/d4dt00638k>
368. "Ultradynamic Isoreticularly Expanded Porous Crystals." Y. Zhang, R-R. Liang, B. Atterberry, F. Li, R.J. Staples, J. Zhang, J. Samanta, C. Ke *JACS.*, **2024**, 146(22), 15525-15537. <https://doi.org/10.1021/jacs.4c04245>
369. "Open-Cage Copper Complexes Modulate Coordination and Charge Transfer." E. Firestone, R.J. Staples, T.W. Hamann *Inorg. Chem.*, **2024**, 63(26), 12081-12088. <https://doi.org/10.1021/acs.inorgchem.4c01046>
370. "Energetic multifunctionalized nitro/nitramino isomeric pyrazole-tetrazole hybrids: enhancing density and detonation properties through hydrogen bonding and π - π interactions." V. Thaltiri, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2024**, 12(27), 16729-16734. <https://doi.org/10.1039/d4ta03084b>

371. "Sandwiching high energy frameworks by taking advantage of π -philic molecular recognition." J. Singh, R.J. Staples, M. Fabin, J.M. Shreeve *J. Mater. Chem. A*, **2024**, 12(28), 17501-17509. <https://doi.org/10.1039/D4TA02521K>
372. "Copper Catalyzed Sp³ C-H Alkenylation" T.-A. Chen, R. J. Staples, T. Warren {*ChemRxiv*, (May 28, 2024)} *Chem. Sci.*, 2024, 15(42), 17685-17690. <https://doi.org/10.1039/D4SC03430A>
373. "Porous organic crystals crosslinked by free-radical reactions." K. Samanta, J. Mi, A.D. Chen, F. Li, R.J. Staples, A.J. Rossini, C. Ke *Chem. Comm.*, **2024**, 60, 7311-7314. <https://doi.org/10.1039/D4CC02454K>
374. "Understanding the Stability of Highly Nitrated Sensitive Pyrazole Isomers." J. Singh, V. Thaltiri, R.J. Staples, J.M. Shreeve *Organic Letters.*, **2024**, 26, 5946-5950. <https://doi.org/10.1021/acs.orglett.4c01870>
375. "Energetic derivatives substituted with trinitrophenyl: improving the sensitivity of explosives." Q. Yu, Y-C. Chen, Z. Li, W. Yi, R.J. Staples, J.M. Shreeve *Dalton Trans.*, **2024**, 53, 18467-18472. <https://doi.org/10.1039/D4DT02070G>
376. "Crystal structure of tris(2-aminoethyl)methane capped carbamoylmethylphosphine oxide compound." B.G. Wackerle, E.J. Werner, R.J. Staples, S.M. Biros *Acta Cryst.*, **2024**, E80(9), 993-996. <https://doi.org/10.1107/S2056989024008478>
377. "An Organometallic Erbium Bismuth Cluster Complex Comprising a Bi₆⁶⁻ Zintl Ion." F. Benner, E.R. Pugliese, R.Q. Marsden, R.J. Staples, N.F. Chilton, S. Demir *Inorg. Chem.*, **2024**, 63(43), 20250-20256. <https://doi.org/10.1021/acs.inorgchem.4c02636>
378. "Advancing energy safety via stepwise nucleophilic substitution on tetrazine." J. Singh, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2024**, 12(44), 30548-30557. <https://doi.org/10.1039/D4TA06039C>
379. "Electrocatalytic ammonia oxidation by pyridyl substituted ferrocenes." E.Md. Ahmed, R.J. Staples, T.R. Cundari, T.H. Warren *JACS*, **2025**, 147(8), 6514-6522. (accepted 1-16-2025) *ChemRxiv*(2024, 1-10)
380. "Tailoring the Energetic Properties of Pyrazole Hybrids Through Functionalization with Dinitromethyl and N-Hydroxytetrazole." V. Thaltiri, R.J. Staples, J.M. Shreeve *J. Organic Chem.*, **2024**, 89(24), 18612-18618. <https://doi.org/10.1021/acs.joc.4c02543>
381. "Syntheses and crystal structure of the imides 4-(2-phenylethyl)-and 4-[2-(4-hydroxyphenyl)ethyl]-4-azateracyclo[5.3.2.0^{2,6}.O^{8,10}]dodec-11-ene-3,5-dione." J.P Bajko, R.J. Staples, S.M. Biros *Acta Cryst.*, **2024**, E80(12), 1318-1321. <https://doi.org/10.1107/S2056989024011253>
382. "Synthesis of insensitive, high-density energetic materials through molecular self-assembly." J. Zhang, J. Zhang, R.J. Staples, J. Zhang, J.M. Shreeve *J. Mater. Chem. A*, **2025**, 13(7), 5164-5168. <https://doi.org/10.1039/D4TA07871C>

383. "Isomer-driven pyrazole Frameworks: structural and zwitterionic insights for advanced energetics." V. Thaltiri, R.J. Staples, J. Burch, A. Bera, S.R. Vennapusa, J.M. Shreeve *J. Mater. Chem. A*, **2025**, *13*, 9394-9401. <https://doi.org/10.1039/D5TA00372E>
384. "Synthesis, characterization and reactions of Vinylbis(trimethylsilyl)silyl anion." E.M. Gulotty, G.D. Kortman, N.E. Proctor, R.J. Staples, S.M. Biroš, M. Bremer, W.R. Winchester *J. Organometallics Chem.*, **2025**, *1031*, 123589. <https://doi.org/10.1016/j.jorganchem.2025.123589>
385. "Coordination-driven safer and sustainable energetic materials." J. Singh, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2025**, *13(16)*, 11475-11485. <https://doi.org/10.1039/D5TA01130B>
386. "Strategies for balancing safety in oxadiazole tetrazole derivatives: the role of the oxime group." P. Saini, J. Singh, V. Thaltiri, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2025**, *6*, 3338-3343. <https://doi.org/10.1039/D5MA00150A>
387. "Strategic integration of nitroimino and dinitromethyl explophores onto tetrazole: K₂DNMNAT as a material with enhanced thermal stability and optimized oxygen balance." P. Saini, J. Singh, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2025**, *13*, 17421-17428. <https://doi.org/10.1039/D5TA02595H>
388. "Crystal structure of bis-4-aza-tetra-cyclo[5.3.2.0^{2,6}.0^{8,10}]dodec-11-ene-3,5-dione compound." J.C. Yu, R.J. Staples, S.M. Biroš *Acta Cryst.*, **2025**, *E81(5)*, 425-428. <https://doi.org/10.1107/S2056989025003500>
389. "Bistetrazoles Featuring Ultra Thermal Stability." J. Singh, R.J. Staples, J.M. Shreeve *Organic Letters.*, **2025**, *27(22)*, 5681-5685. <https://doi.org/10.1021/acs.orglett.5c01438>
390. "Regioisomeric Switching via Thermal rearrangement: Toward Safer High-Performance Energetic Materials." V. Thaltiri, R.J. Staples, J.M. Shreeve *ACS Appl. Mater. Interfaces*, **2025**, *17*, 38122-38130. <https://doi.org/10.1021/acsami.5c07772>
391. "Macrocyclic Side Chain Crowding Enables Tunable Curvature from Planar to Wrinkled and Wavy Hydrogen-Bond Sheets." J.R. Pathan, X. Pang, S.C. Olsen, A.M. Abarna, R.J. Staples, J. Samanta, V.B. Birman, C. Ke *JACS.*, **2025**, *147(32)*, 28570-28576. <https://doi.org/10.1021/jacs.5c07383>
392. "Getting crystals your crystallographer will treasure: a beginner's guide " R.J. Staples *Acta Cryst.*, **2025**, *E81(10)*, 895-905. <https://doi.org/10.1107/S2056989025007807>
Invited: education and outreach.
393. "A Neutral Dy(II) Bis(Amide): Synthesis, Magnetism, and a P₄²⁻ Complex." R. Jena, F. Benner, R.J. Staples, S. Demir, A.L. Odom *Inorg. Chem.*, **2025**, *64(41)*, 20643-20651. <https://doi.org/10.1021/acs.inorgchem.5c02908>
394. "Dancing with the Performance of 2-(Nitrooxy)ethan-1-aminium Nitrate (NOEAN): A Green Energetic Oxidizer for Solid Rocket Propulsion." S. Lal, R.J. Staples, J.M. Shreeve *Organic Letters.*, **2025**, *27(43)*, 12183-12187. <https://doi.org/10.1021/acs.orglett.5c04014>

395. "A base-assisted one-pot cyclization and potassium association route to a very thermally stable bistetrazole salt." P. Saini, J. Singh, R.J. Staples, J.M. Shreeve *J. Mater. Chem. A*, **2025**, 13, 37427-37434. <https://doi.org/10.1039/D5TA05027H>
396. "Design and synthesis of thermally robust pyrazine-tetrazole hybrids as high-nitrogen energetic materials." J. Singh, R.J. Staples, J.M. Shreeve *Mater. Adv*, **2025**, 6(24), 9568-9574. <https://doi.org/10.1039/D5MA01131K>
397. "High performance and insensitive energetic compounds from the intelligent assembly of nitramino/gem-nitromethyl group and oxadiazoles." F. Chen, Q. Yu, Z. Guo, K. Peng, W. Zhou, W. Yi, R.J. Staples, J.M. Shreeve *Mater. Adv.*, **2025**, 6(23), 9203-9208. <https://doi.org/10.1039/D5MA00829H>
398. "How Far Can Trinitromethyl Substitution Be Pushed on a Single 1,2,3-Triazole Ring?" J. Singh, H. Gao, R.J. Staples, J.E. Burch, J.M. Shreeve *Organic Letters.*, **2025** 28(1), 299-303. <https://doi.org/10.1021/acs.orglett.5c04680>
399. "From anion-centric to cation-enabled energetics: planar tetrazine frameworks with enhanced stability." J. Singh, R.J. Staples, J.M. Shreeve *Mater. Adv*, **2025**, 14(9), 5204-5212. <https://doi.org/10.1039/D5MA01131K>
400. "Concomitant polymorphism in oxime-bridged pyrazole-tetrazole energetic materials." J. V. Thaltiri, R.J. Staples, J.M. Shreeve *Mater. Adv*, **2026**, 14, 2695-2699. <https://doi.org/10.1039/d5ta09791f>
401. "Dense and Durable Energetics: Pyrazine-coupled Oxadiazole Frameworks." A.K. Yadav, R.J. Staples, J.M. Shreeve *Organic Letter.*, **2026** 28(5), 1628-1633. <https://doi.org/10.1021/acs.orglett.5c05096>
402. "Pyrazine-bridged polynitro triazoles for high energy and practical stability." A.K. Yadav, R.J. Staples, J.M. Shreeve *Maters. Chem. Frontiers*, **2026** 10, 1147-1154. <https://doi.org/10.1039/d5qm00880h>
403. "Potassium trinitromethyl tetrazole (TNMT-K): a new member of the primary explosive family." L. Sohan, R.J. Staples, J.M. Shreeve *Materials Horizons*, **2026**, 13(11), 5668-5671. <https://doi.org/10.1039/D6MH00019C>
404. "Thermally driven tetrazine-to-triazole ring contraction mediated by hydroxylammonium cations." J. Singh, R.J. Staples, J.M. Shreeve *Materials Horizons*, **2026**, ASAP. <https://doi.org/10.1039/D6MH00643D>
405. "Topological Control of Dual Protonic–Electronic Conduction in Metal–Organic Frameworks." H. Qing, P Chandra, J.Y.M. Chan, R.J. Staples, T-D. Li, Weiyang Li, K.A. Mirica *JACS*, **2026**, 148, 29742-28753. <https://doi.org/10.1021/jacs.6c05964>
406. "Five imide derivatives of 4-azatetracyclo[5.3.2.0^{2,6}.0^{8,10}]dodec-11-ene-3,5-dione: hydrogen bonding and intermolecular interactions." T. Meade. M. Fedewa, N. Owen, L.G.W. Fedewa, R.J. Staples, S.M. Biros *Acta Cryst.*, **2026**, C82, 425-428. <https://doi.org/10.1107/S2053229626007199>.

407. "Thermally robust tetrazine-based energetic materials via hydrogen-bond and coordination engineering for practical high temperature applications." J. Singh, R.J. Staples, J.M. Shreeve *Industrial Chemistry & Materials*, **2026**, ASAP.
<https://doi.org/10.1039/d6im00151c>
408. "3D potassium energetic metal-organic framework enables safer lead-free primary energetic materials with positive oxygen balance." V. Thaltiri, R.J. Staples, J.M. Shreeve *Materials Horizons*, **2026**, ASAP. <https://doi.org/10.1039/d6mh01110a>
409. "Nitroimine-encoded conformational locking: a molecular switch for planarity and stability." J. Singh, R.J. Staples, J.M. Shreeve *Materials Horizons*, **2026**, ASAP.
<https://doi.org/10.1039/d6mh00935b>
410. "Synthesis, characterization, DFT calculations, and crystal structures of [Ru₂(O₂CCF₃)₂(CO)₄L₂]: trifluoroacetate-bridged dimeric ruthenium(I) sawhorse complexes bearing phosphine ligands" D.C. Brown, I.J. Stern, R.J. Staples, A.R. Keim, Y. Nguyen, T.J. Malosh *Acta Cryst.*, 2026, *E82*, 849-853.
<https://doi.org/10.1107/S2056989026006316>

SELECTED PRESENTATIONS:

1. "Getting Crystals your crystallographer will treasure." R.J. Staples, *Invited Speaker*, Rigaku School for Practical Crystallography, January 2024 Edition.
2. "Largest Problem: Getting a crystal and what is it worth to the researcher to have the structure." R.J. Staples, *Invited Speaker*, as part of: "**Economics of Crystallography**" *Session*, American Crystallographic Annual Meeting **July 2021**.
3. "The Good, the Challenging and the Fast." R.J. Staples, *Invited Speaker*, Rigaku US Meeting, April 2021.
4. "Instrument Repair to Data Collection to Colleague." R.J. Staples, *Invited Speaker*, ACS Spring Meeting, 2019, In Honor of Dr. Rybak-Akimova. INOR-0860.
5. "Applications of Single Crystal X-ray Diffraction Techniques and How to get the Crystals. A tool to help answer chemical questions." R.J. Staples, *Invited Speaker*, Grand Valley State University, Feb 24, 2017.
6. "Crystallography for Undergraduate Research Universities through Collaborations" R.J. Staples, *invited speaker*, American Crystallographic Annual Meeting, July 2016.
7. "Applications of Single Crystal X-ray Diffraction Techniques and How to get the Crystals. A tool to help answer chemical questions." R.J. Staples, *invited speaker*, Amgen Inc, and Eisai Research Inc, Feb. 2016.
8. "Applications of X-ray Crystallographic Techniques. A tool to help answer chemical questions." R.J. Staples, *invited speaker*, Department of Chemistry, Michigan State University, April 2014.

9. "Crystal Growth and Mounting.", 2010, Webinar Speaker, Bruker AXS, <http://www.bruker-webinars.com>.
10. "Applications of X-ray Crystallographic Techniques. A tool to help answer chemical questions." R.J. Staples, *invited speaker*, NES-APS/AAPT Fall Meeting, November 2-3, 2001, The Convergence of Chemistry and Physics.
11. "Getting Crystals Your Crystallographer Will Treasure." R.J. Staples, *invited speaker*, Third Annual MIT/Bruker Symposium on Crystallographic Chemical Analysis, January 31, 1998.
12. "The Unique Chemistry of Gold(I)." R.J. Staples, Industry-University Cooperative Chemistry Program, Texas A&M University, Sept. 1994, *Outstanding Oral Presentation Winner*.
13. "Dinuclear Gold(I) Complexes: Structural Comparison of [Au₂(□-dithiolate)(trialkylphosphine)₂] Complexes." R.J. Staples; R.M. Dávila, L.J. Kyle; C.E. Anderson; J.P. Fackler, Jr. 49th ACS Southwest Regional Meeting, October, 1993, Austin, TX, abstract # 113.
14. "Investigation of the Chemistry of Linear Trinuclear Metal Complexes, [Au₂Pt(MTP)₄] and [Au₂Pb(MTP)₄]." R.J. Staples; R.G. Raptis; S. Wang; J.P. Fackler, Jr. 206th ACS National Meeting, Chicago, IL Aug. 1993, abstract # 561.
15. "Metal-Metal Interactions" R.J. Staples, Industry-University Cooperative Chemistry Program, Texas A&M University, Sept. 1993.
16. "Photoluminescent Properties of Mononuclear and Dinuclear Gold(I) Phosphine(Thio) Complexes: Comparison of Solid State vs. Solution State." R.J. Staples; Z. Assefa; J.P. Fackler, Jr. 48th ACS Southwest Regional Conference, Poster Session, Lubbock, TX, Oct. 1992, abstract # 174.
17. "Reaction Chemistry of Trinuclear Methylenethiophosphinate (MTP) Complexes: Anchimeric Metal Participation." R.J. Staples; T.F. Carlson; J.P. Fackler, Jr. 47th ACS Southwest Regional Conference, San Antonio, TX abstract # 150.
18. "Formation of Cu(I), Ag(I) and a Cu(I)-Ag(I) Mixed Butterfly Clusters with 2-mercatothiazoline." C.A. López; R.J. Staples; R.E.P. Winpenny; S. Wang; J.P. Fackler, Jr. and R. Lattimer(BF Goodrich) **Gordon Conference on Inorganic Chemistry**, July 1991.
19. "Structural Isomers of Diphenylphosphinate Cobalt Polymers and Formation of a Pyridine Adduct, [Co(O₂PPh₂)₂]_n, [Co₂(O₂PPh₂)₄]_n, [Co(O₂PPh₂)Py]_n." R.J. Staples; S.-J. Liu; J.P. Fackler, Jr. ACA Annual Meeting, University of Toledo, Toledo, Ohio, July 1991, abstract # PE11.
20. "Reactivity of Electrochemically Generated Platinum Phosphine Complexes." J.A. Davies; R.J. Staples. Sigma Xi Research Symposium, University of Toledo, Toledo, Ohio, May 1988 and May 1989.

SELECTED INVITED ACTIVITIES:

1. 2006, 2011,2015, NSF MRI Proposal Review Board. Proposal review panels

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