

"Synthesis and Characterization of Bimetallic Single-Source Precursors (Ph<sub>3</sub>P)<sub>2</sub>M(μ-SEt)<sub>2</sub>E(SEt)<sub>2</sub> for MES<sub>2</sub> Chalcopyrite Materials (M = Cu, Ag and E = In, Ga, Al)" Kelsey R. Margulieux, Chivin Sun, Matthew T. Kihara, Adam C. Colson, <sup>[SEP]</sup>Lev N. Zakharov, Kenton H. Whitmire, Andrew W. Holland, and Joshua J. Pak, *European Journal of Inorganic Chemistry*, 2017, 2068–2077, DOI: 10.1002/ejic.201700115.

"A Multicomponent Metal-Organic Framework with a High Tolerance for Vacancy Defects" Lee, Seok; Doussot, Celine; Baux, Anthony; Liu, Lujia; Jameson, Geoffrey; Richardson, Christopher; Pak, Joshua J.; Trouselet, Fabien; Coudert, François-Xavier; Telfer, Shane, *Chem. Mater.* 2016, 28(1), 368–375, DOI: 10.1021/acs.chemmater.5b04306.

"Fabrication and Characterization of Thin Film Solar Cell Made From CuIn<sub>0.75</sub>Ga<sub>0.25</sub>S<sub>2</sub> Wurtzite Nanoparticles" Fengyan Zhang, Chivin Sun, Cyril Bajracharya, René G. Rodriguez, Joshua J. Pak, *Journal of Nanomaterials*, 2013, Article ID 320375, 5 pages, 2013. doi:10.1155/2013/320375.

"A Large-Scale Synthesis and Characterization of Quaternary CuIn<sub>x</sub>Ga<sub>1-x</sub>S<sub>2</sub> Chalcopyrite Nanoparticles via Microwave Batch Reactions" Chivin Sun, Richard D. Westover, Gary Long, Cyril Bajracharya, Jerry Harris, Alex Punnoose, René G. Rodriguez, and Joshua J. Pak\*, *Int. J. Chem. Eng.* 2011, Article ID 545234.

"Divergent Syntheses of Cu-In Bimetallic Single Source Precursors via Thiolate Ligand Exchange" Chivin Sun, Richard D. Westover, Kelsey R. Margulieux, Lev N. Zakharov, Andrew W. Holland\*, Joshua J. Pak\*, *Inorganic Chemistry*, 2010, 4756–4758.

"Controlled Stoichiometry for Quaternary CuIn<sub>x</sub>G<sub>1-x</sub>S<sub>2</sub> Chalcopyrite Nanoparticles from Single Source Precursors via Microwave Irradiation" Chivin Sun, Joseph S. Gardner, Gary Long, Cyril Bajracharya, Aaron Thurber, Alex Punnoose, Rene G. Rodriguez\*, and Joshua J. Pak\*, *Chem. Mat.* 2010, 26992701.

"Step-Wise Introduction of Thiolates in Copper Indium Binuclear Complexes" Kelsey R. Margulieux, Chivin Sun, Lev N. Zakharov, Andrew W. Holland\*, Joshua J. Pak\*, *Inorganic Chemistry*, 2010, 49(9), 3959-3961.

"A high yield synthesis of chalcopyrite CuInS<sub>2</sub> nanoparticles with exceptional size control" Chivin Sun, Joseph S. Gardner, Endrit Shurdha, Kelsey R. Margulieux, Richard D. Westover, Lisa Lau, Gary Long, Cyril Bajracharya, Chongmin Wang, Aaron Thurber, Alex Punnoose, Rene G. Rodriguez\*, and Joshua J. Pak\*, *J. Nanomat.* 2009, 748567.

"Extraction of Technetium as [Tc(II)(NO)(AHA)<sub>2</sub>H<sub>2</sub>O]<sup>+</sup> Species in the UREX Process" Patricia Paviet-Hartmann\*, Ana Nunez Gomez-Aleixandre, Joshua Pak, Amparo Glez Espartero, Frederic Poineau, Amber Wright, Edward Mausolf, and Kenneth R. Czerwinski, *Proceedings of the 17th International Conference on Nuclear Engineering*, 2009, ICONE 17- 75509.

- "Rapid and Size Control Synthesis of  $\text{CuInS}_2$  Nanoparticles via Microwave Irradiation." Gardner, J.S.; Shurdha, E.; Lau, L.D.; Wang, C.; Rodriguez, R.G.; Pak, J. J. *Nanoparticle Research*, 10(4), 633641, 2008.
- "Pulsed-Spray Radiofrequency PECVD of  $\text{CuInS}_2$  Thin Films," R.G. Rodriguez, D.J.V. Pulsipher, L.D. Lau, E. Shurdha, J.J. Pak, M.H. Jin, K.K. Banger, A.F. Hepp, *Plasma Chemistry and Plasma Processing* 26(2), 137-148, 2006.
- "Facile synthesis of 4,4',5,5'-tetraiododibenzo-24-crown-8 and its highly conjugated derivatives," E. Shurdha, J.L. Mayo, and J.J. Pak, *Tetrahedron Letters* 47, 233-237, 2006.
- "Synthesis and crystallographic characterization of a 'palladadehydrobenzo[19]annulene'," J.J. Pak, O.S. Darwish, T.J.R. Weakley, M.M. Haley, *J. Organomet. Chem.*, 683 (2), 430-434, 2003.
- "Diastereoselective Self-Assembly of a Pentacoordinate Siliconate Tetraanionic Molecular Square. A Mechanistic Investigation," J.J. Pak, J. Greaves, D.J. McCord, K.J. Shea, *Organometallics*, 21, 35523561, 2002.
- "Synthesis and Characterization of Annulene-Fused Pseudorotaxanes," J.J. Pak, T.J.R. Weakley, M.M. Haley, D.Y.K. Lee, J.F. Stoddart, *Synthesis*, 1256-1260, 2002.
- "Nonlinear Optical Properties of Dehydrobenzo[18]annulenes: Expanded Two-Dimensional Dipolar and Octupolar NLO Chromophores," A. Sarkar, J.J. Pak, G.W. Rayfield, M.M. Haley, *J. Mater. Chem.*, 11, 2943-2945, 2001.
- "Carbon Networks Based on Dehydrobenzoannulenes: Part 2 Synthesis of Expanded Graphdiyne Substructures," W.B. Wan, S.C. Brand, J.J. Pak, M.M. Haley, *Chem. Eur. J.*, 6, 2044-2052, 2000.
- "Stepwise Assembly of Site-specifically Functionalized Dehydrobenzo[18]annulenes," J.J. Pak, T.J.R. Weakley, M.M. Haley, *J. Am. Chem. Soc.*, 121, 8182-8192, 1999.
- "Macrocyclic Oligo(phenylacetylenes) and Oligo(phenyldiacetylenes)," M.M. Haley, J.J. Pak, S.C. Brand, *Topics in Current Chemistry (Carbon-Rich Compounds II)*, 201, Armin de Meijere (Ed.), Springer-Verlag: Berlin, 1999, 81-130.
- "One-Pot Desilylation/Dimerization of Ethynyl- and Butadiynyltrimethylsilanes. Synthesis of TetrayneLinked Dehydrobenzoannulenes," M.M. Haley, M.L. Bell, S.C. Brand, D.B. Kimball, J.J. Pak, W.B. Wan, *Tetrahedron Lett.*, 38, 7483-7486, 1997.
- "Synthesis and Crystallographic Characterization of a Platinadehydrobenzo[19]annulene," J.J. Pak, T.J.R. Weakley, M.M. Haley, *Organometallics*, 16, 4505-4507, 1997.
- "Carbon Networks Based on Dehydrobenzoannulenes: Preparation of Substructures of Graphdiyne," M.M. Haley, S.C. Brand, J.J. Pak, *Angew. Chem., Int. Ed. Engl.*, 36, 836-838, 1997.
- " $\alpha,\beta$ -Unsaturated Nitriles: An Effective Conjugate Addition with Potassium Phenyl Selenolate and Potassium Phenyl Sulfenylate," F.F. Fleming, J.J. Pak, *J. Org. Chem.*, 60, 4299-4301, 1995.