PUBLICATIONS: (November 2016)

Book Chapters:
“Molecular Clips and Tweezers with Corannulene Pincers”
Sygula, A.; Collier, W.
Chapter 1 in “Fragments of Fullerenes and Carbon Nanotubes: Design Synthesis, Unusual Reactions, and Coordination Chemistry”

“Synthesis and Chemistry of Polycyclic Aromatic Hydrocarbons with Curved Surfaces: Buckybowls”
Sygula, A.; Rabideau, P. W.

"Polynuclear Aromatic Hydrocarbons with Curved Surfaces: Hydrocarbons Possessing Carbon Frameworks Related to Buckminsterfullerene"
Rabideau, P. W., Sygula, A.

"Conformational Analysis of 1,3-Cyclohexadiene and Related Hydrocarbons".
Rabideau, P.W.; Sygula, A.

Refereed Publications:

Invited auto-review in Synlett Cluster Issue “Synthesis of Non-planar Polyaromatic Compounds”
Sygula, A.
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78. “Concave-Convex Stacking of Curved Conjugated Networks: Benchmark Calculations on the Corannulene Dimer”

77. “Chemistry on a Half-Shell: Synthesis and Derivatization of Buckybowls”

76. “Determination of the Binding Affinity, Packing, and Conformation of Thiolate and Thione Ligands on Gold Nanoparticles”

75. “Acid Cleavable Surface Enhanced Raman Tagging for Protein Detection”

74. “Sensitive Carbohydrate Detection Using Surface Enhanced Raman Tagging”

73. “Ultrasensitive Detection of Malondialdehyde with Surface Enhanced Raman Spectroscopy”

72. “Inclusion Complexes of Buckycatcher with C60 and C70”


69. “Radiometric Raman Spectroscopy for Quantification of Protein Oxidative Damage”
68. “π-π Stacking of Curved Carbon Networks: The Corannulene Dimer”
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58. “Hexahapto Corannulene Buckybowl Complexes of Iridium, Including Ring-to-Ring Migration”

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50. “A Simple, Large-Scale Synthesis of the Corannulene System”
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49. “Non-Pyrolytic Syntheses of Buckybowls: Corannulene, Cyclopentacorannulene, and a Semibuckminsterfullerene”
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48. "Enzymatic and Nonenzymatic Production of Free Radicals from the Carcinogens 4-Nitroquinoline N-Oxide and 4-Hydroxyaminoquinoline N-Oxide"
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44. "The First Example of $\eta^8$ Coordination of the Lithium Cations with the Cyclooctatetrenyl Anion: Crystal Structure of Li$_2$(dibenzo[a,e]cyclooctatetraene)(TMEDA)$_2$"
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3. "MNDO Studies on Relative Stabilities of Monosubstituted Pyridine Tautomers"
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