

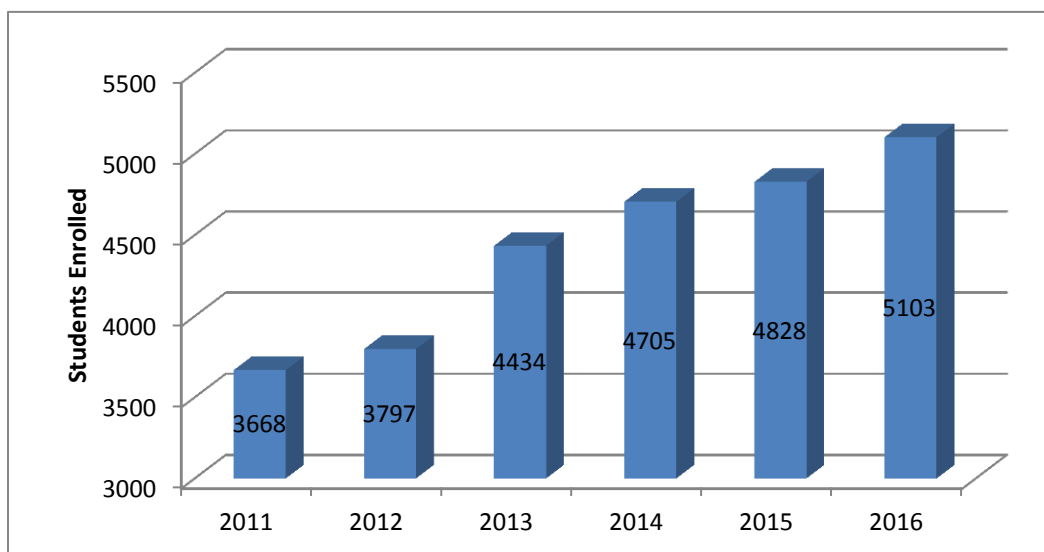
Department of Chemistry

Summary

As a part of the Ray P. Authement College of Sciences, the UL Lafayette Department of Chemistry consists of eleven tenured/tenure-track faculty, four instructors, two adjunct faculty, and three staff members. As an ACS certified department, the department currently (for the fall semester of 2016) has 73 chemistry majors enrolled in a Bachelor of Science (B.S.) program, as well as 67 pre-pharmacy majors. In addition, we offer minors in chemistry and forensics.

Enrollments

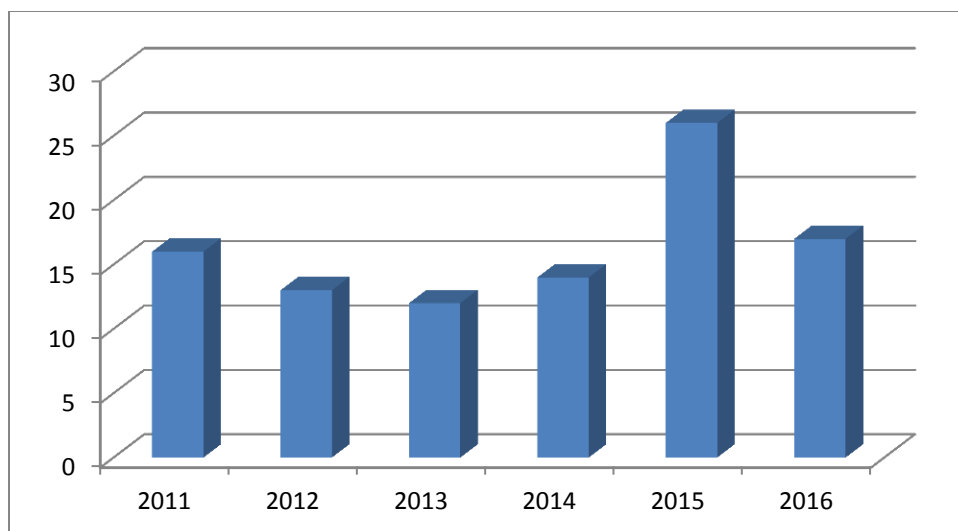
We graduate from 15-20 chemistry majors per year. Annual enrollments in departmental course offerings have increased dramatically, notably in the recent past, from 3,668 students in 2011 to 5,103 students in 2016, or a 39% increase over the past six years. This increase in demand for chemistry courses results in significant increases in faculty teaching loads, as course offerings are expanded to accommodate increasing demands.



Students enrolled in chemistry classes by calendar year, 2011 – 2016

Peer-Reviewed Journal Publications

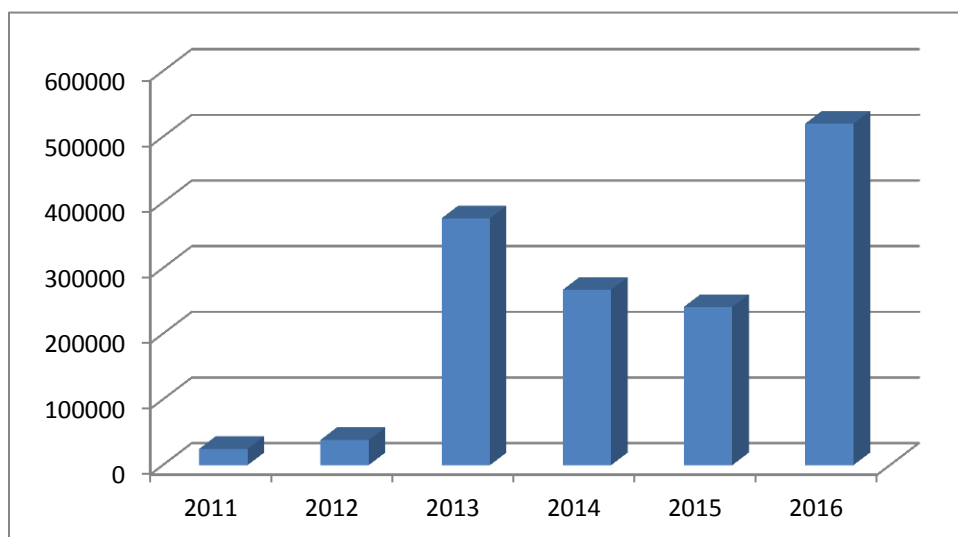
After one tenure-track hire in 2016, our faculty currently has eleven research-active members (Junk, Gallo, Knierim, Louka, Massoud, Perkins, Srivastava, Taylor, Wang, Xu, Yan). Between 2011 and 2016, the faculty of the Department of Chemistry produced 101 peer-reviewed publications, most of which appeared in prestigious journals. This amounts to 1.6 publications per research active faculty per year over the past six years (Dr. Wang only very recently joined our department). It should be noted that virtually all of this published research was accomplished with the active participation of undergraduate students.



Peer-reviewed publications by calendar year, 2011 – 2016

External Funding

Between 2011 and 2016, members the faculty of the Department of Chemistry served as Principal Investigators (Project Directors) for \$1.46 M in external funding. Most were multi-year awards; the graph below reflects starting years. It is noteworthy that a significant percentage of successful proposals resulted from intra- and interdepartmental collaboration, reflecting team effort and an interdisciplinary approach to research. In addition, significant funding was secured by faculty members co-authoring proposals with PI's external to the Department of Chemistry. For example, an award of \$1,010,901, co-authored by Dr. F.R. Louka in 2012, is noteworthy in this respect.



Funding by calendar year, 2011 – 2016, reflecting starting dates of external awards by chemistry faculty acting as Lead-PI's

Presentations

Between 2011 and 2016, the faculty of the Department of Chemistry has given 80 presentations, or approximately 8 presentations per research active faculty member. Thirty-two of these presentations were given to international audiences, 23 were by invitation.

Noted Accomplishments

Three of our faculty (Louka, Xu, Srivastava) have held, or are still holding, Distinguished Professorships. In addition, members of our faculty serve as editors of eight prestigious journals.

Editorship

- **W. Xu**, Journal of Materials, 2016.
- **W. Xu**, Journal Editorial Board Computational Biology and Bioinformatics, 2015.
- **W. Xu**, Journal Editorial Board *Journal of Biological Medicine*, 2015.
- **W. Xu**, Journal of Molecular and Translational Medicine, 2015.
- **S.S. Massoud**, Editor for an e-book series entitled "Material Science: Current and Future Developments" by Bentham Science Publishers, 2015.
- **S.S. Massoud**, Editorial Board of Magnetochemistry Journal, 2015.
- **S.S. Massoud**, Editorial Board of Journal of Advances in Chemistry, 2014.
- **S.S. Massoud**, Editorial Board of Journal of Modern Chemistry and Applications (JMCA), 2014.
- **S.S. Massoud**, Editorial Board of Dataset Papers in Materials Science, 2012- pres.
- **W. Xu**, Computational Biology and Bioinformatics (<http://www.sciencepublishinggroup.com/journal/news.aspx?journalid=112>), 2012-pres.
- **W. Xu**, Journal of Materials (<http://www.hindawi.com/journals/jmat/>), 2012-pres.
- **W. Xu**, Journal of Biological Medicine (<http://www.biomedbest.com/journals/editer.php?id=11>), 2012-present.
- **S.S. Massoud**, Member, Editorial Board, Dataset Papers in Materials Science, 2011-pres.
- **R.S. Srivastava**, Editor, Inorganic Journal of Chemistry, 2006 - pres.
- **R.S. Srivastava**, Editor, Electronic Journal of Chemistry, 2004 - pres.

Publications, Presentations, Editorships, and Talks

Journal Papers Published

2016

1. F.A. Mautner, R.C. Fischer, D.H. Tran, A.R. Acevedo, **S.S. Massoud**. Metal(II) Complexes of Compartmental Polynuclear Schiff Bases Containing Phenolate and Alkoxy Groups. *Crystals* **6**, 19 (2016) (invited). <http://www.mdpi.com/2073-4352/6/8/91/pdf>
2. **S.S. Massoud**, C.C. Ledet, **T. Junk**, S. Bosch, P. Comba, R. Herchel, J. Hošek, Z. Trávníček, R.C. Fischer, F.A. Mautner. Dinuclear Metal(II)-acetato Complexes Based on Bicompartamental 4-Chlorophenol: Synthesis, Structure, Magnetic Properties, DNA

- Interaction and Phosphodiester Hydrolysis. *Dalton Trans.* **45**, 12933-12950 (2016)
DOI: 10.1039/C6DT02596J
3. R. Herchel, Z. Dvořák, Z. Trávníček, M. Mikuriya, **F.R. Louka**, F.A. Mautner, **S.S. Massoud**. Cobalt(II) and Copper(II) Covalently and Non-covalently Dichlorido-bridged Complexes of an Unsymmetrical Tripodal pyrazolyl-pyridyl Amine Ligand: Structures, Magnetism and Cytotoxicity. *Inorg. Chim. Acta* **451** (2016), 102-110.
<http://dx.doi.org/10.1016/j.ica.2016.06.030>F.A. Mautner, C. Berger, E. Domian, R.C. Fischer, **S.S. Massoud**. “Synthesis and Characterization of Polymeric azido Zn(II) and Ni(II) Complexes Based on 3-Hydroxypyridine Co-ligand. *J. Mol. Struct.* **1122**, 234-238 (2016).
 4. F.A. Mautner, C. Berger, R.C. Fischer, **S.S. Massoud**. “Coordination Polymers of Azido and Thiocyanato Cd(II) and Zn(II) Complexes Based on 2,6-Lutidine-N-oxide. Synthesis, Characterization and Luminescent Properties”. *Inorg. Chim. Acta* **448**, 34-41 (2016). <http://dx.doi.org/10.1016/j.ica.2016.04.016>
 5. F.A. Mautner, C. Berger, R.C. Fischer, **S.S. Massoud**. Synthesis, Characterization and Luminescent Properties of Polymeric Cadmium(II) Bridged thiocyanato and Mononuclear Thiocyanato-zinc(II) Complexes of Pyridine-N-oxide Derivatives. *Polyhedron* **111**, 86-93 (2016). <http://dx.doi.org/10.1016/j.poly.2016.03.030>
 6. **S.S. Massoud**, **F.R. Louka**, M. Gazzaz, M.M. Henary, R.C. Fischer, F.A. Mautner. Polynuclear Copper(II) Complexes Bridged by Polycarboxylates of Aromatic and N-heterocyclic Compounds. *Polyhedron* **111**, 45-52 (2016).
<http://dx.doi.org/10.1016/j.poly.2016.03.013>
 7. F.A. Mautner, C. Berger, **S.S. Massoud**. Synthesis and Characterization of Two 1D Polymeric Zinc(II) Azido Complexes Derived from Pyridine-N-oxide Co-ligands. *J. Mol. Struct.* **1110**, 114-118 (2016).
 8. F.A. Mautner, C. Berger, R.C. Fischer, **S.S. Massoud**. Synthesis, Characterization and Luminescence Properties of Zinc(II) and Cadmium(II) Pseudohalide Complexes Derived from Quinoline-N-oxide. *Inorg. Chim. Acta* **439**, 69-76 (2016).
 9. G. Sanford, K.E. Walker, F.R. Fronczek, **T. Junk**. Novel organotellurium heterocycles derived from bis(2-Aminophenyl) Ditelluride. *J. Heterocycl. Chem.* (2016), online: 25 APR 2016 | DOI: 10.1002/jhet.2624.
 10. **Y. Wang**, P. Kryszewski, K. Matyjaszewski, S. Harisson. Radical Generation and Termination in SARA ATRP of Methyl Acrylate: Effect of Solvent, Ligand, and Chain Length. *Macromolecules* **49**, 2977-2984 (2016).
 11. R.P. Galhenage, K. Xie, **H. Yan**, G.S. Seuser, D.A. Chen. Understanding the Growth, Chemical Activity, and Cluster–Support Interactions for Pt–Re Bimetallic Clusters on TiO₂(110). *J. Phys. Chem. C* **120**, 20, 10866–10878 (2016).
 12. E. Nazaretski, **H. Yan**, K. Lauer, X. Huang, W. Xu, S. Kalbfleisch, Hui Yan, Li Li, N. Bouet, J. Zhou, D. Shu, R. Conley and Y. S. Chu. Nm-scale spatial resolution X-ray imaging with MLL nanofocusing optics: Instrumentational requirements and challenges. *AIP Conf. Proc.* 1764, 040001 (2016).
 13. S. Murru, C.S. Lott, B. McGough, **R.S. Srivastava**. Fe-Catalyzed Synthesis of Substituted N-Aryl Oxazolidines and N-Aryl Amino Alcohols.” *Organic & Biomolecular Chem.* **14**, 3681 (2016). DOI: 10.1039/C6OB00185H

14. R. Hill, **W. Xu**, M. Yoshimura. Role of an Adonolyl Cyclase Isoform in Ethanol's Effect on cAMP Regulated Gene Expression in NIH 3T3 Cells. *Biochem. and Biophys. Rep.* **8**, 162-167 (2016).
15. J.-Z. Liu, **W. Xu**, A. Christoserdov, R.K. Bajpaj. Glycerol Dehydratases: Biological Structures, Catalytic Mechanisms and Industrial Applications in 1,3-Propanediol Production by Naturally Occurring and Genetically Engineered Bacterial Strains. *Appl. Biochem Biotechnol.* **179**, 6, 1073-1100 (2016).
16. A. Odoux, D. Jindal, T.C. Tamas, B.W.H. Lim, D. Pollard, **W. Xu**. Experimental and Molecular Dynamics Studies Showed the CBP KIX Mutation affects the Stability of CBP:c-Myb Complex. *Computational Biol. Chem.* **62**, 47-59 (2016).

2015

17. J.P. Myers, F.R. Fronczek and **T. Junk**. "The first crystal structures of six- and seven-membered tellurium- and nitrogen-containing (Te-N) heterocycles: 2H-1,4-benzotellurazin-3(4H)-one and 2,3-dihydro-1,5-benzotellurazepin-4(5H)-one. *Acta Cryst.* **C72** (2015), 1-5.
18. Y. Liu, **T. Junk**, Y. Liu, N. Tzeng and **R. Perkins**. Benchmarking quantum mechanical calculations with experimental NMR chemical shifts of 2-HADNT. *Journal of Molecular Structure*, **1086** (2015), 43-8..
19. **E.R. Taylor**. The Thermodynamics of Time Travel. *Univl. J. Chem.* **3(2)** (2015), 60-64.
20. **E.R. Taylor**. Human Deep-Space Travel and Colonization—Technical Issues. *New Space* **3(3)** (2015), 154-164.
21. **E.R. Taylor**. Communicable Disease and Homeland Security: An Assessment of the U.S. 2014 Ebola Incident. *J. Homeland Sec. & Emerg. Management*, **12(3)** (2015), 17 pp. DOI 10:1515/jhssem-2015-0044.
22. F.A. Mautner, R.C. Fischer, M. Mikuriya, S. Tomohara, M.D. Deniger, **S.S. Massoud**. Structural Characterization of $\mu_{1,2}$ - and $\mu_{1,3}$ -bridged-squarato 1D Metal(II) Coordination Polymers *Polyhedron*, **102** (2015), 82-87.
23. **S.S. Massoud**, **T. Junk**, R. Herchel, Z. Travnicek, M. Mikuriya, R.C. Fischer, F.A. Mautner. Structural Characterization of Ferromagnetic Bridged-Acetato and-Dichlorido Copper(II) Complexes Based on Bicompartmental 4-*t*-Butylphenol. *Inorg. Chem. Commun.* **60** (2015), 1-3.
24. F.A. Mautner, M. Scherzer, C. Berger, R.C. Fischer, **S.S. Massoud**. Synthesis, Characterization and Luminescence Properties of Zinc(II) Complexes of Pseudohalides and Nitrite Derived from 4-Azido-pyridine. *Inorg. Chim. Acta*, **425** (2015), 46-51.
25. **S.S. Massoud**, M. Spell, C. Ledet, **T. Junk**, R. Herchel, R.C. Fischer, Z. Travnicek, F.A. Mautner. Magnetic and Structural Properties of Dinuclear Singly Bridged-Phenoxido Metal(II) Complexes. *Dalton Transactions*, **44** (2015), 2110-2121.
26. F.A. Mautner, M. Scherzer, C. Berger, R.C. Fischer, R. Vicente, **S.S. Massoud**. Synthesis and Characterization of Three New 1-D Polymeric $[M_2(4\text{-azidopyridine})_4(\mu_{1,1}\text{-N}_3)_2(\mu_{1,3}\text{-N}_3)_2]_n$ (M = Ni, Co, Cd) Complexes. *Polyhedron*, **85** (2015), 329-336.
27. F.A. Mautner, M. Mikuriya, Y. Naka, **F.R. Louka**, **S. S. Massoud**. Bonding $\mu_{1,3}$ - (*trans*) vs $\mu_{1,2}$ - (*cis*) in Squarato-bridging Dinuclear Copper(II) Complexes Derived from Pyridyl Amine Ligands. *Polyhedron*, **85** (2015), 110-116.
28. Y. Liu, Y. Liu, S. Murru, N. Tzeng, **R.S. Srivastava**. Quantum Mechanics Study of Repulsive π - π Interaction and Flexibility of Phenyl Moiety in the Iron Azodioxide Complex. *Molecular Structure*, **1097** (2015), 226-230.

29. F.A. Mautner, M. Scherzer, C. Berger, R.C. Fischer, R. Vicente, **S. S. Massoud**. Synthesis and Characterization of Five New Thiocyanato- and Cyanato-metal(II) Complexes with 4-Azidopyridine as Co-ligand. *Polyhedron*, **85** (2015), 20-26.
30. S. Murru, C.S. Lott, F.R. Fronczek, **R.S. Srivastava**. Fe-Catalyzed Direct α C-H Amination of Carbonyl Compounds. *Org. Lett.*, **17** (2015), 2122-2125.
31. Y. Liu, Y. Liu, **A.A. Gallo, K.D. Knierim, E.R. Taylor**, N. Tzeng. Performances of DFT methods implemented in G09 for simulations of dispersion-dominated CH- π in ligand-protein complex: A case study with glycerol-GDH. *Journal of Molecular Science*, **1084** (2015), 223-228.
32. H.R. Rizvi, M.J. Khattak, **A.A. Gallo**. Rheological and mechanistic characteristics of Bone Glue modified asphalt binders. *Construction and Building Materials*, **88** (2015) 64-73.
33. **H. Yan**, M. Cummings, F. Camino, **W. Xu**, M. Lu, X. Tong, N. Shirato, D. Rosenmann, V. Rose, E. Nazaretski. Fabrication and Characterization of CNT-based Smart Tips for Synchrotron Assisted STM. *Journal of Nanomaterials*, (2015), Article ID 492657.
34. Y. Sun, A. Fu, **W. Xu**, J.-R. Chao, S. Moshiach, S.W. Morris. Myeloid Leukemia Factor 1 interfered with Bcl-X_L to promote apoptosis and its function was regulated by 14-3-3. *Journal of Physiology and Biochemistry*, **71** (2015), 807-821.
35. Y. Wei, **W. Xu**. Application of Traditional Chinese Medicine in Cancer Treatment. *Jacobs Journal of Molecular and Translational Medicine*, (2015), 1(1):006.
36. X.-J. Xie, F.-N. Hsu, X. Gao, **W. Xu**, J.-Q. Ni, Y. Xing, L. Huang, H.-C. Hsiao, H. Zheng, C. Wang, Y. Zheng, A.M. Xiaoli, F. Yang, S.E. Bondos, J.-Y. Ji. CDK8-Cyclin C. Mediates Nutritional Regulation of Developmental Transitions through the Ecdysone Receptor in *Drosophila*. *PLOS Biology*, **13(7)** (2015), e1002207.
37. L. Gao, H. Ge, X. Huang, K. Liu, Y. Zhang, **W. Xu**, Y. Wang. <http://www.sciencedirect.com/science/article/pii/S092547731400032X> - af005. Systematically Ranking the Tightness of Membrane Association for Peripheral Membrane Proteins. *Molecular and Cellular Proteomics*, **14** (2015), 340-353.
38. F.A. Mautner, M. Mikuriya, N. Naka, **F.R. Louka, S.S. Massoud**. Bonding $\mu_{1,3}$ - (trans) vs. $\mu_{1,2}$ - (cis) in squarato-bridging dinuclear copper(II) complexes derived from pyridyl amine ligands. *Polyhedron*, **85** (2015), 110–116. <http://dx.doi:10.1016/j.poly.2014.08.040>.
39. **S.S. Massoud, F. R. Louka**, R. N. David, M.J. Dartez, Q.L. Nguyn, N.J. Labry, R.C. Fischer, F.A. Mautner. Five-coordinate metal(II) complexes based pyrazolyl ligands. *Polyhedron*, **90** (2015), 258–265.
40. **S.S. Massoud, F.R. Louka**, M.A. Abu-Elhassan, R. Vicente, F.A. Mautner. Magneto-structural properties of carbonato-bridged copper(II) complexes. Fixation of atmospheric CO₂. *New J. Chem.* **39** (2015), 5944-5952.
41. **S.S. Massoud, F.R. Louka**, F.A. Mautner. Polynuclear and Polymeric Squarato-Bridged Coordination Compounds. *Cryst. Eng. Comm*, **17** (2015), 7604-7617.
42. **S.S. Massoud, T. Junk, F.R. Louka**, R. Herchel, Z. Travnick, R. Fischer, F.A. Mautner. Synthesis, structure and magnetic characterization of dinuclear copper(II) complexes bridged by bicompartamental phenolate. *RSC Adv*, **5** (2015), 87139-87150.

2014

43. **F.R. Louka, S.S. Massoud, R. Perkins, W. Xu**, A.L. Roux, Q. Dutercq, R.C. Fischer, F.A. Mautner, H. Handa, Y. Hiraoka, G.L. Kreft, T. Bortolotto, H. Terenzi. Efficient hydrolytic cleavage of plasmid DNA by chloro-cobalt(II) complexes based on sterically hindered pyridyl tripod tetraamine ligands: Synthesis, crystal structure and DNA cleavage. *Dalton Transactions*, **43** (2014) 10086-10103.
44. **S.S. Massoud, T. Junk**, M. Mikuriya, N. Naka, F.A. Mautner. Synthesis, Structure and Magnetic Characterization of Dinuclear Copper(II) Complexes of 2,6-bis[bis(pyridine-2-ylmethyl)aminomethyl]-4-methylpyridine. *Inorg. Chem. Commun.*, **50** (2014), 48-50.
45. **S.S. Massoud**, M. Spell, Z.K. Haq, F.A. Mautner. *fac*-Cobalt(III)-azido Complexes Derived from Substituted Pyridyl Based Tridentate Amines. *Transition Metal Chem.*, **39** (2014), 585-591.
46. **S.S. Massoud, R.S. Perkins, F.R. Louka, W. Xu**, W.; A. Le Roux, Q. Dutercq, C. Roland, R.C. Fischer, F.A. Mautner, M. Handa, Y. Hiraoka, G.L. Kreft, T. Bortolotto, H. Terenzi. Efficient Hydrolytic Cleavage of Plasmid DNA by Chloro-cobalt(II) Complexes Based on Sterically Hindered Pyridyl Tripod Tetraamine Ligands: Synthesis, Crystal Structure and DNA Cleavage Activity. *Dalton Trans.*, **43** (2014), 10086-10103.
47. **S.S. Massoud**, M. Dubin, A.E. Guilbeau, M. Spell, R. Vicente, P. Wilfling, R.C. Fischer, F.A. Mautner. Azido- and Thiocyanato-cobalt(II) Complexes Based Pyrazole Ligands. *Polyhedron*, **78** (2014), 135-140.
48. **S.S. Massoud, A.A. Gallo**, M.J. Dartez, J.G. Gautreaux, R. Vicente, J.H. Albering, F.A. Mautner. Dinuclear Copper(II) Complexes Bridged by Imidazole-3,5-dicarboxylate. *Inorg. Chem. Commun.*, **43** (2014), 35-38.
49. S. Murru, B. McGough, **R.S. Srivastava**. Synthesis of Substituted Quinolines via Allylic Amination and Intramolecular Heck-Coupling. *Organic & Biomolecular Chemistry*, **12** (2014), 9133.
50. J. Davis, **R.S. Srivastava**. Oxorhenium-Catalyzed Deoxydehydration of Cellulosic Biomass. *Tetrahedron Lett.*, **55** (2014), 4178.
51. S. Murru, **R.S. Srivastava**. Iron-Catalyzed Selective Allylic C-H Amination of substituted 1,3-Dienes. *Eur. J. Org. Chem.*, **10** (2014), 2174-2181.
52. Y. Zheng, F.-N. Hsu, **W. Xu**, X.-J. Xie, X. Ren, X. Gao, J.-Q. Ni, J.-Y. Ji. A developmental genetic analysis of the lysine demethylase KDM2 mutations in *Drosophila melanogaster*. *Mechanisms of Development*, **133** (2014), 36-53.
53. **W. Xu**, B. Amire-Brahimi, X. Xie, L. Huang, J. Ji. All-atomic Molecular Dynamic Studies of Human CDK8: Insight into A-loop, Point Mutations and Binding with Its Partner CycC. *Computational Biol. and Chem.*, **51** (2014), 1-11.
54. J. Sun, S. Hao, M. Radle, **W. Xu**, I. Shelaev, V. Nadtochenko, V. Shuvalov, A. Semenov, H. Gordon, A. van der Est, J. H. Golbeck. Evidence that Histidine Forms a Coordination Bond to the A0A and A0B Chlorophylls and a Second H-Bond to the A1A and A1B Phylloquinones in M688HPsaA and M668HPsaB Variants of *Synechocystis* sp. PCC 6803. *Biochimica et Biophysica Acta*, **1837** (2014), 1362-1375.
55. C. Eckert, **W. Xu**, W. Xiong, S. Lynch, J. Ungerer, L. Tao, R. Gill, P.-C. Maness, J. Yu. Ethylene-forming enzyme and bioethylene production. *Biotechnology for Biofuels*, **7** (2014), 1-11.

56. L. Gao, C. Shen, L. Liao, X. Huang, K. Liu, W. Wang, L. Guo, W. Jin, F. Huang, **W. Xu**, Y. Wang. Functional proteomic discovery of Slr0110 as a central regulator of carbohydrate metabolism in *Synechocystis* sp. PCC 6803. *Molecular and Cellular Proteomics*, **13** (2014), 204-219.
57. F.A. Mautner, C. Berger, M.J. Dartez, Q.L. Nguyen, J. Favreau, **S.S. Massoud**. Cadmium(II) and Zinc(II) Azido Complexes with Different Nuclearity and Dimensionality. *Polyhedron*, **69** (2014) 48-54. <http://dx.doi.org/10.1016/j.poly.2013.11.019.2>.
58. **S.S. Massoud, E. Taylor**, Y. Liu, J. Grebowicz, R. Vicente, R. Lalancette, U. Mukhopadhyay, I. Bernal, S.F. Watkins. Synthesis, Structure, Thermal, Magnetic Properties and Quantum Mechanical Calculations of Bridged [Bis(di(2-pyridylmethyl)amine)-(μ₂-1,2-bis(4-pyridyl)ethane)-tetraperchlorato-dicopper(II)] Dihydrate Complex (**I**). *Cryst. Eng. Comm.*, **16** (2014) 175-183. <http://dx.doi:10.1039/C3CE41821A>.

2013

59. **T. Junk**, N.C. McMullen and F.R. Fronczek. Organotellurium Chemistry: Remarkably Facile Preparation of Benzo-1,3-Tellurazoles, *J. Heterocycl. Chem.*, **50** (2013), 120-124.
60. J.M. Watkins, F.R. Fronczek, R.A. Zehnder and **T. Junk**. 1-Chlorofuro[3,2-E][2,1,3]Benzoxatellurazole, *Acta Cryst.*, **C69** (2013), 156-167.
61. **T. Junk** and J.A. Carr. Preparation of Deuterium-Labeled Biotransformation Products Of 2,4,6-Trinitrotoluene. *J. Labelled Compds. Radiopharm*, **56** (2013), 344-246.
62. J. Liu, Q. Wang, J. Yan, X. Qin, L. Li, **W. Xu**, R. Subramaniam, R.K. Bajpai. Isolation and Characterization of A Novel Phenol Degrading Bacterial Strain Wust-C1. *Industrial & Engineering Chemistry Research*, **52(1)** (2013), 258-265.
63. **S.S. Massoud, R.S. Perkins, K. Knierim**, S.P. Comiskey, K.H. Otero, C.L. Michel, W.M. Juneau, J.H. Albering, F.A. Mautner, **W. Xu**. Effect of The Chelate Ring Size On The Cleavage Activity Of DNA By Copper(Ii) Complexes Containing Pyridyl Groups. *Inorganica Chimica Acta*, **43** (2013), 177-184.
64. **E.R. Taylor**. Domestic Thermodynamics or How Not to Burn the Brownies, *J. Culinary Sci. & Tech.*, **11(4)** (2013), 309-321 Doi: 10.1080/15428052.2013.798602
65. F.A. Mautner, J.H. Albering, R. Vicente, C. Andrepont, J.G. Gautreaux, **A.A. Gallo** and **S.S. Massoud**. Synthesis, Structure and Magnetic Investigations of Polycarboxylato-Copper (Ii) Complexes. *Polyhedron* **54** (2013), 158-163.
66. F.A. Mautner; **F.R. Louka**; J. Hofer, M. Spell, A. Lefèvre, A.E. Guilbeau, **S.S. Massoud**. One-Dimensional Cadmium Polymers with Alternative Di(Eo/Ee) and Di(Eo/Eo/Eo/Ee) Bridged Azide Bonding Modes. *Crystal Growth & Design*, **13** (2013), 4518-4528.
67. **S.S. Massoud, F.R. Louka**; Y.K. Obaid, R. Vicente, J. Ribas, R.C. Fischer, F.A. Mautner. Metal Ions Directing The Geometry And Nuclearity Of Azido-Metal(Ii) Complexes Derived From Bis(2-(3,5-Dimethyl-1h-Pyrazol-1-Yl) Ethyl)Amine. *Dalton Trans.*, **42** (2013), 3968-3978.
68. F.A. Mautner, M. Koikawa, M. Mikuriya, E.H. Harrelson, J.G. Gautreaux, **S.S. Massoud**. Copper(Ii)-Azide Complexes Constructed from Polypyridyl Amine Ligands, *Polyhedron*, **59** (2013), 17-23.

69. **S.S. Massoud**, A.E. Guilbeau, H.T. Luong, R. Vicente, J.H. Albering, R.C. Fischer, F.A. Mautner. Mononuclear, Dinuclear and Polymeric 1-D Thiocyanato- And Dicyanamido-Copper(Ii) Complexes Based On Tridentate Coligands. *Polyhedron*, **54** (2013), 26-33.
70. **S.S. Massoud**, K.J. Pujol, F.A. Mautner, S. Demeshko, S. Dechert, F. Meyer. Squarato-Metal(Ii) Complexes: Part 6[†]. Synthesis, Structure And Magnetic Characterization of an Usual Squarate-Based 1d Copper(Ii) Coordination Polymer Composed of Hexanuclear Entities and a Trinucleating Ligand Scaffold. *Inorg. Chem. Commun.*, **30** (2013), 65-68.

2012

71. S. David, **R.S. Perkins**, F.R. Fronczek, S. Kasiri, S.S. Mandal, **R.S. Srivastava**. Journal of Inorganic Biochemistry, **111** (2012), 33-39.
72. C. Nune, **W. Xu**, R.D.K. Misra. The Impact of Grafted Modification of Silicone Surfaces With Quantum-Sized Materials on Protein Adsorption and Bacterial Adhesion. *J Biomed Mater Res Part A*, **100a** (2012), 3197–3204.
73. R.D.K. Misra, B. Girase, V.K.C. Nune, **W. Xu**. Cellular Interactions and Modulated Osteoblasts Functions Mediated By Protein Adsorption. *Advanced Engineering Materials*, **14(5)** (2012), B247-B257.
74. S. Murru, **A.A. Gallo**, **R.S. Srivastava**. Direct Synthesis of Beta-Alkyl N-Aryl Aza Baylis- Hillman Adducts Via Nitroso-Ene Reaction. *Journal of Organic Chemistry*, **77(16)** (2012), 7119-7123.
75. **S.S. Massoud**, R. Vicente, P.R. Fontenot, **A.A. Gallo**, M. Mikuriya, J. H. Albering, F.A. Mautner. Polynuclear Croconato-Bridged- Copper (Ii) Complexes Derived from Tri- And Tetra-Dentate Amines. *Polyhedron*, **46** (2012), 66-73.
76. **F.R. Louka**; A.D. Stewart, E. Regel, F.A. Mautner; S. Demeshko, F. Meyer, **S.S. Massoud**. Squarato-Metal(Ii) Complexes: Part 5. Polynuclear Copper(Ii) Complexes Bridged By Squarate And Croconate Dianions, *Inorg. Chem. Commun.*, **22** (2012), 60-64.
77. **S.S. Massoud**, M.C. Lemieux, L.L. Le Quan, R. Vicente, J.H. Albering, F.A. Mautner. Dicyanamido-Metal(Ii) Complexes. Part 6: 1-D Polymeric Copper(Ii) Complexes Bridging by Dicyanamide. Effect of Copper(Ii) Salt on the Nature of the Polymeric Product.” *Inorg. Chim. Acta*, **388** (2012), 71-77.
78. **F.R. Louka**, L.T. Nguyen, J.H. Albering, F.A. Mautner; **S.S. Massoud**, Unprecedented Formation of a Doubly Bridged M-Peroxo-M-Pyrazolyldicarboxylato-Dicobalt(Iii) Complex. *Inorg. Chem. Commun.*, **15** (2012), 269-271.
79. **S.S. Massoud**, L. Le Quan, K. Gatterer, J.H. Albering, R.C. Fischer, F.A. Mautner. Structural Characterization of Five-Coordinate Copper(Ii), Nickel(Ii), and Cobalt(Ii) Thiocyanato Complexes Derived From Bis(2-(3,5-Dimethyl-1-Pyrazolyl)Ethyl)Amine. *Polyhedron*, **31** (2012), 601-606.
80. S.N. Shukla, P. Gaur, R. Mehrotra, **R.S. Srivastava**. Experiences During Synthesis of a Dinucleating Spacer Incorporating 2-Chloropyridine Units Through Sandmeyer Reaction. *E-Journal Of Chemistry*, **9(2)**, (2012), 593-597.
81. S. Murru, K.M. Nicholas, **R.S. Srivastava**. Ruthenium (Ii) Sulfoxide-Catalyzed Hydrogenolysis of Glycols and Epoxides. *J. Mol. Catalysis A*, (2012), 460-464.
82. S. Stanowski, K.M. Nicholas, **R.S. Srivastava**. [Cp*Ru(Co)₂]₂-Catalyzed Hydrodeoxygenation and Hydrocracking of Diols And Epoxides. *Organometallics*, **31** (2012), 515-518.

83. R.P. Mason, R.F. Jacob, R. Kubant, R. Jacoby, **F.R. Louka**, J. Corbalan, T. Malinski. Effects of Angiotensin Receptor Blockers On Endothelial Nitric Oxide Release -The Role of Enos Variants. *Br. J. Clin. Pharmacol.*, (2012), Doi: 10.1111/J.1365-2125.2012.04189
84. **W. Xu**, L. Xue, Y. Sun, A. Henry, J.M. Battle, M. Micault, and S.W. Morris. Bcl10 Is an Essential Regulator for A20 Gene Expression. *Journal of Physiology and Biochemistry*, **69** (2013) 821-834.

2011

85. **W. Xu**, J.Y. Ji. Dysregulation of Cdk8 In Tumorigenesis. *Journal Of Genetics And Genomics*, **38** (2011), 439-452.
86. B. Girase, D. Depan, J.S. Shah, **W. Xu**, R.D.K. Misra. Silver–Clay Nanohybrid Structure for Effective and Diffusion-Controlled Antimicrobial Activity, *Materials Science And Engineering C*, **31** (2011), 1759-1766.
87. Y.M. Liu, **A.A. Gallo**, **W. Xu**, R. Bajpai, J. Florian. Ch···H Interactions Do Not Contribute to The Hydrogen Transfer Catalysis by Glycerol Dehydratase. *The Journal of Physical Chemistry B*, **115(41)** (2011), 11162-11166.
88. **W. Xu**, Y.C. Wang, E. Taylor, A. Laujac, L.Y. Gao, S. Savikhin, P.R. Chitnis. Mutational Analysis of Photosystem I of *Synechocystis* Sp. Pcc 6803: The Role Of Four Conserved Aromatic Residues in the J-Helix Of Psab. *Plos One*, 6(9): (E24625), (2011) 1-11.
89. **S.S. Massoud**, **F.R. Louka**, **W. Xu**, **R.S. Perkins**, R. Vicente, J.H. Albering, F.A. Mautner. Dna Cleavage by Structurally Characterized Dinuclear Copper(Ii) Complexes Based on Triazine. *Eur. J. Inorg. Chem.*, **2011(23)** (2011) 3469-3479.
90. **W. Xu**, J.A. Craft, P.R. Fontenot, M. Barens, **K.D. Knierim**, J.H. Albering, F.A. Mautner, **S.S. Massoud**. Effect of the Central Metal Ion on the Cleavage of DNA by [M(Tpa)Cl]ClO₄ Complexes (M = Coⁱⁱ, Cuⁱⁱ And Znⁱⁱ, Tpa = Tris(2-Pyridylmethyl)Amine): An Efficient Artificial Nuclease for Dna Cleavage. *Inorganica Chimica Acta*, **373** (2011), 159-166.
91. A.M. Alhazmi, P.R. Albuquerque, **T. Junk**. Halogen Exchange in Near-Critical Water, *Green and Sustainable Chemistry*. **1** (2011), 128-131.
92. S. Ayalasomayajula, R. Subramaniam, **A.A. Gallo**, S. Dufreche, M. Zappi, R. Bajpai. *Industrial & Engineering Chemistry Research* 110729082356010 (2011), Doi: 1021/Ie2011000s.
93. S. Murru, **A.A. Gallo**, **R.S. Srivastava**. Gold-Catalyzed Synthesis of 3-Arylindoles Via Annulation Of Nitrosoarenes And Alkynes. *Acs Catalysis*, **1** (2011), 29-31.
94. S. Murru, **A.A. Gallo**, **R.S. Srivastava**. Copper-Catalyzed Direct Synthesis of 3-Arylindoles. *Eur. J. Org. Chem.*, (2011), 2035-2038.
95. **R.S. Srivastava**, R. Bertrand Iii, **A.A. Gallo**, K.M. Nicholas. Cu(I)/Cu(Ii)- Catalyzed Allylic Amination of Alkenes. *Tetrahedron Letters*, **52** (2011), 3478-3480.
96. F.A. Mautner, J.H. Albering, E.V. Harrelson, **A.A. Gallo**, and **S.S. Massoud**. N-Bonding Vs. S-Bonding in Thiocyanato-Copper (Ii) Complexes. *J. Molecular Structure*, **1006** (2011), 570-575.
97. **F.R. Louka**, M L. Spell, J. Grebowicz, J.H. Albering, F.A. Mautner, **S.S. Massoud**. Coordination Chemistry Of 1,4-Bis[Bis(2-Pyridylmethyl)-Aminomethyl]Benzene with Copper(Ii). *J. Mol. Struct.*, **995** (2011), 103-108.

98. F.A. Mautner, J.H. Albering, M. Corbella, **F.R. Louka**, **S.S. Massoud**. A Unique Unit Cell Containing Simultaneous Doubly and Triply Copper(I) Complexes Bridging by 2,4-Pyridine Dicarboxylate. Synthesis, Structural Characterization and Magnetic Properties. *Inorg. Chem. Commun.*, **14** (2011), 702-705.
99. **S.S. Massoud**, F.A. Mautner, **F.R. Louka**, S. Demeshko, S. Dechert, F. Meyer. Diverse Coordination of Polynuclear Copper(I) Complexes Constructed from Benzene Tetracarboxylate. *Inorg. Chim. Acta*, **370** (2011), 435-443.
100. **S.S. Massoud**, **F.R. Louka**, T.L. Nguyen, M. Mikuriya, J.H. Albering, F.A. Mautner. Structural and Magnetic Characterization of 1-D Copper Complexes Constructed From Pyrazole-3,5- Dicarboxylate Bridging Multi Cu(I) Centers. *Inorg. Chim. Acta*, **366** (2011), 394-398.
101. S.N. Shukla, P. Gaur, H. Kaur, **R.S. Srivastava**. Synthesis, Spectroscopic Characterization and Antibacterial Activity of Some Chloro Dimethylsulphoxide/ Tetramethylenesulphoxide Ruthenium (Ii)/(Iii) Complexes With 1, 2, 3-Benzotriazole, *Acta Chim. Slov.* **58**, (2011), 1.

Book Chapters

102. **T. Junk**, Book Chapter “Recent Advances in the Preparation and Characterization of Te, N-Containing Heterocycles”, in “Tellurium: Properties, Uses and Research”, Ed. D. Grey, Nova Science Publishers, ISBN 978-1-53610-555-1, pp. 107-136, **2016**.
103. W. Xu and Y. Wang, Chapter: Structure and Function of Cyanobacterial Photosystem in Photosynthesis: Structures, Mechanisms, and Applications, Series: Advances in Photosynthesis and Respiration. Eds., M.M. Najafpour, G.F. Moore, H.J.M. Hou, S.I. Allakhverdiev. Springer, 2015.

Conference Papers Published

104. **S.S. Massoud**, Recent Developments of the Fixation of Atmospheric CO₂ by Transition Metals and Lanthanide Complexes. Invited plenary lecture. *The 2nd International Conference on Past and Present Research Systems of Green Chemistry, Orlando, FL USA*, September 14-16 (2015).
105. **S.S. Massoud**, **F.R. Louka**, **R. Perkins**, F.A. Mautner, H. Terenzi. Cobalt(II) Complexes as Efficient Artificial Nucleases for Hydrolytic Cleavage of DNA. *249th ACS Nat. Meeting, Denver, CO*, March 22-26, INOR 807 (2015).
106. **F.R. Louka**, F.A. Mautner, **S.S. Massoud**. Carbonato-bridged Copper(II) Complexes formed via Fixation of Atmospheric CO₂. *249th ACS Nat. Meeting, Denver, CO*, March 22-26, INOR 230 (2015).
107. A. Jefferson, **R.S. Srivastava**. Re-catalyzed deoxydehydration of diols to olefins using hydroaromatic as reducing agent. The 6th Joint Great Lakes/Central Regional Meeting of the American Chemical Society. Grand Rapids, MI, May 27-30, Paper ID:51 (2015).
108. S. Murru, **R.S. Srivastava**. Synthesis of Organo Nitrogen Compounds and N-Heterocycles via Allylic C-H Amination. ID 2125317, *249th ACS National Meeting, 22-26th March, Denver, CO* (2015).
109. S. Murru, C. S. Lott, B. McGough, **R.S. Srivastava**. Fe-Catalyzed Synthesis of 3-Aryl-4-Propenyl Oxazolidines and N-Aryl Aminoalcohols” (2015). ACS Joint

- Southeastern/Southwest Regional Meeting, Paper # 305; Nov 4 -7, Memphis, TN (2015).
110. E. Nazaretski, **H. Yan**, K. Lauer, X. Huang, W. Xu, S. Kalbfleisch, H. Yan, L. Li, N. Bouet, J. Zhou, D. Shu, R. Conley, and Y. S. Chu. Nm-scale spatial resolution x-ray imaging with MLL nanofocusing optics: Instrumentational requirements and challenges. 23rd International Congress on X-ray Optics and Microanalysis (ICXOM23 conference), NY (2015).
 111. Kascak, P.L. Klerks, **F.R. Louka**, K.M. Satbhai, A. Graziano, S. Osman. The interaction between benthic bioturbators and microbes on the fate of hydrocarbons in sediment – 1, sediment characteristics and PAH levels. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Houston, TX, Feb. 2 (2015).
 112. P. Morandi, S. Osman, P.L. Klerks, **F.R. Louka**. Investigating the effect of bioturbators vs. ecofriendly adsorbents on pyrene concentrations. Society of Environmental Toxicology and Chemistry (SETAC) South Central Regional Annual Meeting Lafayette, LA, May 28 – 30 (2015).
 113. **F.R. Louka**, S. Osman, P. Morandi, P.L. Klerks. Comparing the effect of ecofriendly adsorbents and bioturbators on the concentration pyrene. International Conference of Green Chemistry, Orlando, FL, September 14 – 16 (2015).
 114. H.R. Rizvi, M.J. Khattak, **A.A. Gallo**. Bone Glue modified asphalt: A step toward energy conservation and environment friendly modified asphalt. Hindawi Pub Corp. Volume 2014, Article ID 807043, 5 pages: <http://dx.doi.org/10.1155/2014/807043>
 115. S. Murru, **R.S. Srivastava**, Copper-Catalyzed Asymmetric Allylic Amination: A Novel Method for Chiral N-Aryl Allyl Amines, Abstracts of Papers, 244th ACS National Meeting & Exposition. Philadelphia, Pa, United States, August 19-23, (2012), Inor-336.

Colloquia and Seminar Talks

1. **F.R. Louka**. Comparing the effect of ecofriendly adsorbents and bioturbators on the concentration pyrene. Invited talk by the International Conference of Green Chemistry, Orlando, FL. September 14 – 16 (2015).
2. **W. Xu**. Invited talk on undergraduate student research. LS-LAMP/UBMS Program. University of Louisiana at Lafayette, February, 27 (2014)
3. **E.R. Taylor**. How not to Burn Brownies. Smart Festival (UL Lafayette Sponsored), Lafayette, La, October 25 (2013).
4. **A.A. Gallo**. Biodiesel Synthesis from Alligator Fat. Beifang University of Nationalities, Yinchuan China, June (2013).
5. **S.S. Massoud**. Development of Efficient Artificial Nucleases for Dna Cleavage. Mononuclear Cobalt(II) Complexes Based Pyridyl Tripod Amines. Kumamoto University, Kumamoto-Japan, October 14 (2013).
6. **S.S. Massoud**. Metal-Ion Binding Properties In Nucleoside Monophosphates and Their Constituents. Shimane University, Matsue-Japan, October 16 (2013).
7. **S.S. Massoud**. Metal-Ion Binding Properties in Nucleoside Monophosphates and Their Constituents. Okayama University of Science Okayama-Japan, October 17 (2013).
8. **S.S. Massoud**. Metal-Ion Binding Properties in Nucleoside Monophosphates and Their Constituents. Kwansai Gakuen University, Sanda-Japan, October 18 (2013).

9. **S.S. Massoud.** DNA Cleavage by Cobalt(Ii) And Copper(Ii) Complexes Derived From Pyridyl Based Ligands. Factors Affecting Dna Cleavage. Kwansei Gakuen University, Sanda-Japan, October 8 (2012).
10. **S.S. Massoud.** DNA Cleavage by Cobalt(Ii) and Copper(Ii) Complexes Derived From Pyridyl Based Ligands. Factors Affecting Dna Cleavage. Okayama University of Science, Okayama-Japan, October 11 (2012).
11. **S.S. Massoud.** DNA Cleavage by Cobalt(Ii) and Copper(Ii) Complexes Derived From Pyridyl Based Ligands. Factors Affecting Dna Cleavage, Shimane University, Matsue-Japan, October 13 (2012).

Invited Conference and Workshop Talks

1. **W. Xu.** Function and Structure of CBP and NCOA. Beifang University of Nationality, Yinchuan, China, June 23 (2016).
2. **R.S. Srivastava.** Metal-catalyzed asymmetric allylic amination. Keynote speaker. International Conference on Industrial Chemistry, New Orleans, LA, June 27-28 (2016).
3. **R.S. Srivastava.** Metal-catalyzed asymmetric C-H amination of alkenes. 27th International Conference on Organometallic Chemistry (ICOMC), Melbourne, Australia, July 17-22 (2016).
4. **S.S. Massoud,** Keynote lecturer at the International Conference of Polymer Chemistry, Atlanta, GA, USA, November 14-16 (2016).
5. **S.S. Massoud.** Artificial nucleases for efficient DNA cleavage by mono- and di-nuclear metal(II) complexes. The 6th International Conference on Nuclei Acid-Protein Chemical and Structural Biology for Novel Drug Discovery, Chingdu-China, p 44-45, May 26-28 (2016).
6. **S.S. Massoud.** Recent Developments of the Fixation of Atmospheric CO₂ by Transition Metals and Lanthanide Complexes. *2nd International Conference on Past and Present Research Systems of Green Chemistry.* Orlando, FL USA, September 14-16, 2015.
7. **W. Xu.** Invited talk: Function and Structure of c-Myb and CBP. Ningxia Medical School, Yinchuan, China July 1 (2015).
8. **W. Xu.** Invited talk: Function and Structure of Cyanobacterial Photosystem I Complex. Beifang University of Nationality, Yinchuan, China, June 28-July 3 (2015).
9. **W. Xu.** Poster Presentation: Proteins from Fundamentals to Function. Gordon Research Conferences. Holderness, NH, June 14-19 (2015).
10. **S.S. Massoud, F.R. Louka, F.A. Mautner, Y. Naka, M. Mikuriya.** Squarato-Bridging Copper(II) Complexes Derived from Polypyridyl Amine Ligands. 2014 Symposium on Coordination Compounds as Molecular Magnetic Materials. Kwansei Gakuin University – School of Science and Technology, Sanda, Japan, October 11, p-19 (2014).
11. **M. Mikuriyaa, Y. Naka, T. Junk, S.S. Massoud, F.A. Mautner.** Dinuclear Copper(II) Complexes of 2,6-Bis[bis(pyridine-2-ylmethyl)aminomethyl]-4-methylphenol. 2014 Symposium on Coordination Compounds as Molecular Magnetic Materials, Kwansei Gakuin University – School of Science and Technology, Sanda, Japan, October 11, p-42 (2014).
12. **S. S. Massoud.** *Kumamoto Seminar on Complex-based Supramolecule. Kumamoto University – Graduate School of Science and Technology, Kumamoto, Japan, (invited).*

- Development of Efficient Artificial Nucleases for DNA Cleavage. Mononuclear Cobalt(II) Complexes Based Pyridyl Tripod Amines. October 9, p-20 (2013).
13. **W. Xu.** Bioinformatics and Computational Biochemistry, Bioinformatics and Genetic Evolution. Beifang University of Nationality, Yinchuan, China, May 30-31 (2012).
 14. **W. Xu.** Biochemical function and structure of B-cell Leukemia/Lymphoma 10 (Bcl10). Conference: 86th Annual Meeting of Louisiana Academy of Sciences. Louisiana State University at Alexandria, Louisiana, March 3 (2012).
 15. **W. Xu.** Effect of Adenylyl Cyclase Isoform Specificity on CREB Activation by Ethanol Stimulation. Louisiana Biomedical Research Network 10th Annual Meeting, Baton Rouge, Louisiana, January 27-29 (2012).
 16. **W. Xu.** Development of algorithm for 3-D structural comparison with case study of protein kinases. Industry Advisory Board Meeting, NSF Center for Visual & Decision Informatics, The Hub CityView. Philadelphia, PA 19103, November 13-15 (2012).
 17. **W. Xu.** Biochemistry research and education. Beifang University of Nationality, Yinchuan, China, June 3-8 (2013).
 18. **S.S. Massoud, F.A. Mautner.** *2013 Symposium on Coordination Compounds as Molecular Magnetic Materials. Kwansai Gakuin University – School of Science and Technology, Sanda, Japan*, (invited). 1D and 2D Cadmium Polymers with Alternative Bridged Azido Bonding Modes, October 20, p-20 (2013).
 19. **W. Xu.** Biochemistry research and education. Beifang University of Nationality, Yinchuan, China, June 3-8 (2013).
 20. **S.S. Massoud, R. Vicente, F.A. Mautner.** *2012 Symposium on Coordination Compounds as Molecular Magnetic Materials. Kwansai Gakuin University – School of Science and Technology, Sanda, Japan*, (invited lecture). Azido-Metal(II) Complexes, Diverse Coordination of Bis(2-(3,5-dimethylpyrazolyl)-ethyl)amine with Divalent Metal Ions. October 6, p-18 (2012).
 21. **W. Xu.** Biochemistry and bioinformatics. Beifang University of Nationality, Yinchuan, China, December 14-20 (2011).
 22. **W. Xu.** A Planned National Science Foundation Industry/University Cooperative Research Center. Center for Visual & Decision Informatics. The Union League of Philadelphia, Philadelphia, PA, May 3-4 (2011).
 23. **W. Xu.** Mutational Analysis of Photosystem I Of *Synechocystis* Sp. Pcc 6803: The Role Of Four Conserved Aromatic Residues In The J-Helix Of Psab, Conference: 85th Annual Meeting Of Louisiana Academy Of Sciences, Monroe, La, February 26 (2011).

Contributed Presentations

2016

1. S. Murru, **R.S. Srivastava.** Pd-catalyzed synthesis of 2-acylindolines via intramolecular Heck-coupling and C-H oxidation. ACS Southwest Regional Meeting (SWRM) Galveston, TX, November 10-13 (2016).
2. A. Odoux, D. Jindal, T.C. Tamas, B.W.H. Lim, D. Pollard, **W. Xu.** Experimental and molecular dynamics studies showed the CBP KIX mutation affects the stability of CBP:c-Myb complex. 90th Annual Meeting of Louisiana Academy Alexandria, LA, April 23 (2016).

3. L. Luo, A. Chistoserdov, S. Savikhin, J.H. Golbeck, **W. Xu**. A hydrogen bond to the A0 chlorophyll a molecule of Photosystem I influences the spectral properties of A0. South Central Branch American Society of Microbiology 2016 Annual Conference, Lafayette, La, October 28-29 (2016).
4. **A.A. Gallo**, J. Davis. Selective reduction of carbonyl and nitro groups by fruits and vegetables. The 89th meeting of the Louisiana Academy of Sciences, Alexandria, LA, April 23 (2016).
5. K. Martin, **A.A. Gallo**, **T. Junk**. Development of a Supercritical Flow Reactor and its Application for Biodiesel Preparation. The 89th meeting of the Louisiana Academy of Sciences, Alexandria, LA, April 23 (2016).
6. **A.A. Gallo**, **T. Junk**. Biodiesel from alligator fat using supercritical methanol via laboratory scale flow reactor. International Conference on Industrial Chemistry, New Orleans, LA, June 27-28 (2016).
7. P.L. Klerks, S. Osman, M. E. Hoag, F. Fazal-Ur-Rehman, A. Kascak, **F.R. Louka**. Sediment Bioturbation Affects the Fate of Pyrene in Laboratory Mesocosms. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL, Feb. 2 (2016).
8. **F.R. Louka**, S. Osman, A.M. Cazan, P. Morandi, M. Hoag, P.L. Klerks. Investigating pyrene levels in water and sediment samples in presence of bioturbators. 251th American Chemical Society National Meeting, San Diego, CA, March 13-17 (2016).
9. **F.R. Louka**, S. Osman, A. Shaik, T. Carme. Investigating the efficiency of economical adsorbents in removal of polycyclic aromatic hydrocarbons. International Conference of Green Chemistry, Las Vegas, Nevada, September 19-21 (2016).
10. **F.R. Louka**, A. Shaik, T. Terracina, N. Khamidullina. Effective Ecofriendly Adsorbents For Removal of Individual Polycyclic Aromatic Hydrocarbons. Honors meeting, Lafayette, Louisiana, November 18 (2016).
11. P.L. Klerks, A. Cazan, A. Kascak, A. Shaik, N. Adhikary, A. Chistoserdov, **F.R. Louka**. Effects of razor clams and ghost shrimp on the distribution and fate of hydrocarbons in nearshore environments. Society of Environmental Toxicology and Chemistry (SETAC) World Congress / SETAC North America 37th Annual Meeting, Orlando, FL, Nov 6-10, (2016).

2015

12. F.R. Fronczek, Y. Liu, **T. Junk**. Tellurium-containing heterocycles: Tellurazoles, tellurazinones, tellurazepinones. 88th Meeting of the Louisiana Academy of Sciences, Thibodeaux, LA, Mar 14 (2015).
13. G. Sanford, K.E. Walker, F.R. Fronczek, **T. Junk**. Organotellurium Chemistry: Synthesis and Characterization of Te, N-Containing Heterocycles. 71st Southwest Regional Meeting of the American Chemical Society, Memphis, TN, Nov.4-7 (2015).
14. P.L. Klerks, A.M. Cazan, A. Kascak, S. Osman, Y.M. Hoag, P. Morandi, **F. R. Louka**. The interplay between biota and pollutants: Ghost shrimp affect environmental conditions and aromatic hydrocarbon distribution in laboratory mesocosms Society of Environmental Toxicology and Chemistry (SETAC) Meeting. Salt Lake City, UT, Nov 1-5 (2015).
15. **F.R. Louka**, F. A. Mautner, **S. S. Massoud**. Carbonato-bridged copper(II) complexes formed via fixation of atmospheric CO₂. 249th American Chemical Society National Meeting, Denver, CO, March 22-26, (2015).

2014

16. C. Dupont, P. Spiller, R. Bajpai, **A.A. Gallo**, **T. Junk**. Biodiesel from alligator fat. A comparison between supercritical and conventional transesterification conditions. ENFL paper # 289. 247th ACS National Meeting, Dallas, TX, March 16-20 (2014).
17. P. Spiller, **T. Junk**, **A.A. Gallo**. Biodiesel from alligator fat. Louisiana Academy of Sciences, Alexandria, LA, March 12 (2014).
18. **F.R. Louka**, P.L. Klerks, N. Deb Adhikary, A. Kascak, D.L. Felder, A. Oguma, G. Ducharme, A. Chistoserdov. The interaction between sediment bioturbators and sediment microbes on the distribution and degradation of oil in sediment. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Mobile, AL, Jan. 26-30 (2014).
19. **F.R. Louka**, K.M. Satbhai, P.L. Klerks, P. L. Effects of petroleum hydrocarbons and their interactions on mate guarding behavior in the amphipod *Hyaella Azteca* South Central Society of Environmental Toxicology and Chemistry (SC-SETAC). San Marcos, TX, May 30 - June 1 (2014).
20. **F.R. Louka**, A. Chistoserdov, N. Deb Adhikary, A. Kascak, K.M. Satbhai, C. Louviere, P.L. Klerks. Effect of bioturbators on the degradation and distribution of polycyclic aromatic hydrocarbons in sediment. 248th American Chemical Society National Meeting. San Francisco, CA. August 10-14, (2014).
21. **F.R. Louka**, **S.S. Massoud**, F.A. Mautner, Y. Naka, M. Mikuriya. Squarato-Bridging Copper(II) Complexes Derived from Polypyridyl Amine Ligands Symposium on Coordination Compounds as Molecular Magnetic Materials. Kwansei Gakuin University – School of Science and Technology, Sanda, Japan, October 11, (2014).
22. **F.R. Louka**, A. Kascak, N. Deb Adhikary, A. Chistoserdov, P.L. Klerks. The effect of bioturbation by the Ghost shrimp *Lepidophthalmus louisianensis* on hydrocarbon degradation and distribution. SETAC North America 35th Annual Meeting, Vancouver, Canada. November 9-13 (2014).
23. **S.S. Massoud**. Efficient Hydrolytic Cleavage of Plasmid DNA by Chloro-cobalt(II) Complexes. Kwansei Gakuin University – School of Science and Technology, Sanda, Japan, October 10 (2014).
24. S. Murru, **R.S. Srivastava**. Iron-Catalyzed Selective Allylic C-H Amination of Substituted 1,3-Dienes. Paper ID: 19103. 247th ACS National Meeting. Dallas, TX, 16-20th Mar (2014).
25. **W. Xu**. Ethanol Adenylyl Cyclase Pathway. NIH Workshop on Protein 3-D Structure and Function. Pittsburgh, Pennsylvania May 19-23 (2014).

2013

26. J.P. Myers P.R. Albuquerque, **T. Junk**. Unusual halogen exchange reactions in near-critical water. Poster presentation, 68th Southwest Regional Meeting of the American Chemical Society. Baton Rouge, LA, Nov. 4-7 (2013).
27. **A.A. Gallo**, M. Dartez, F.A. Mautner, **S.S. Massoud**. Dinuclear Copper (II) Complexes of Imidazole-4,5-Dicarboxylate. Poster presentation, Southwest ACS meeting. Waco, TX, Nov. 16-19 (2013).
28. C. Dupont, **A.A. Gallo**, R. Bajpai, **T. Junk**. Biodiesel from alligator fat using supercritical solvent conditions. Poster presentation, Southwest ACS meeting. Waco, TX, Nov. 16-19 (2013).

29. S. Murru, **A.A. Gallo**, **R.S. Srivastava**. Novel synthesis of beta-alkyl N-aryl Aza Baylis-Hillman adducts. Poster presentation, Louisiana Academy of Sciences, Grambling LA, March (2013).
30. **T. Junk**, E. Rallon, M. Spell, F.A. Mautner, **S.S. Massoud**. Binucleating Phenolic Compounds. SWRM Regional ACS Meeting. Waco, TX, November 16-19 (2013).
31. **F.R. Louka**, Q.L. Nguyen, F.A. Mautner, **S.S. Massoud**. Cadmium(II) Polymers Bridged Azide with Different Dimensionality. GEN INORG SWRM 465, SWRM Regional ACS Meeting. Waco, TX, November 16-19 (2013).
32. **A.A. Gallo**, M.J. Dartez, F.A. Mautner, **S.S. Massoud**. Dinuclear Copper(II) Complexes of Imidazole-4,5-Dicarboxylate. GEN INORG SWRM 466. SWRM Regional ACS Meeting. Waco, TX, November 16-19 (2013).
33. **S.S. Massoud**. Development of Efficient Artificial Nucleases for DNA Cleavage. Mononuclear Cobalt(II) Complexes Based Pyridyl Tripod Amines, p-20, (invited lecture). *Kumamoto Seminar on Complex-based Supramolecule. Kumamoto University – Graduate School of Science and Technology, Kumamoto, Japan, October 9 (2013).*
34. **S.S. Massoud**, F.A. Mautner. 1D and 2D Cadmium Polymers with Alternative Bridged Azido Bonding Modes (invited lecture). *2013 Symposium on Coordination Compounds as Molecular Magnetic Materials. Kwansei Gakuin University – School of Science and Technology, Sanda, Japan, October 20, p-20, (2013).*
35. **R.S. Srivastava**. Metal catalyzed group transfer reactions: Allylic amination vs. hetero Diels-Alder reaction of 1,3-butadienes. Smolenice, Slovakia, June 2-7 (2013).
36. **P.L. Klerks**, A. Oguma, E. Blankson, C. Curtis, M. Goodwin, **F.R. Louka**, A. Chistoserdov. The effect of sediment bioturbators on the hydrocarbon distribution in hydrocarbon-dosed mesocosms. *The Society of Environmental Toxicology and Chemistry North America 34th Annual Meeting. Nashville, TN, 17-21 November (2013).*

2012

37. **A.A. Gallo**, R. Bajpai, S. Ayalomasajula. Recovery of lipids and biodiesel production from alligator fat. Oral presentation and abstracted. Louisiana Academy of Sciences, Alexandria, LA, March (2012).
38. **A.A. Gallo**, C. Andrepont, K. Pujol, F.A. Mautner, J. Albering, R. Vicente, **S.S. Massoud**. Copper (I) complexes bridges by polycarboxylate anions. Poster presentation, Southwest ACS meeting. Baton Rouge, LA, November (2012).
39. **F.R. Louka**, R. Vicente, J.H. Albering, R.C. Fischer, M. Scherzer, F.A. Mautner, **S.S. Massoud**. Metal Ions Direct the Geometrical and Nuclearity of Azido-Metal(II)-bis(2-(3,5-dimethylpyrazol-1-yl)ethyl)amine Complexes. SWRM Regional ACS Meeting, GEN INORG SWRM 249, Baton Rouge, LA, November 4-7 (2012).
40. **A.A. Gallo**, C. Andrepont, F.A. Mautner; J.H. Albering, R. Vicente, **S.S. Massoud**. Copper(II) Complexes Bridged by Polycarboxylate Anions. SWRM Regional ACS Meeting. GEN INORG SWRM, Baton Rouge, LA, November 4-7 (2012).
41. **S.S. Massoud**, R. Vicente, F.A. Mautner. Azido-Metal(II) Complexes. Diverse Coordination of Bis(2-(3,5-dimethylpyrazolyl)-ethyl)amine with Divalent Metal Ions (invited lecture). *2012 Symposium on Coordination Compounds as Molecular Magnetic Materials, Kwansei Gakuin University – School of Science and Technology, Sanda, Japan, October 6, p-18 (2012).*

42. **R.S. Srivastava**, S. Murru, K.M. Nicholas. Ruthenium(II) Sulfoxides-Catalyzed Hydrogenolysis of Glycols and epoxides. Baton Rouge, LA, November 4-7 (2012).
43. **R.S. Srivastava**, S. Murru. Copper-catalyzed asymmetric allylic amination: A novel method for chiral N-aryl allyl amines, Philadelphia, PA, August 19-23 (2012).

2011

44. **S.S. Massoud, W. Xu, F.R. Louka**, F.A. Mautner. *Zing Coordination Chemistry Conference 6*, Cancun, México (lecture). DNA Cleavage by Cobalt(II) and Copper(II) Complexes Derived from Pyridyl Based Ligands. Factors Affecting DNA Cleavage. December 9-13, P30 (2011).
45. **F.R. Louka, A.A. Gallo**, L. Le Quan, M.C. Lemieux, L.M. Nguyen, R. Vicente, F.A. Mautner, **S.S. Massoud**. *Zing Coordination Chemistry Conference 6*, Cancun, México. 1-D Polymeric Copper(II) Complexes Bridging by Dicyanamide. December 9-13, P81 (2011).
46. **F.R. Louka**, M. Spell, T. Arnold, F.A. Mautner S. Demeshko, F. Meyer, **S.S. Massoud**. Polynuclear Copper(II) Complexes Bridged by Squarate and Croconate Dianions. GEN INORG SWRM 488. SWRM Regional ACS Meeting, Austin, TX. November 9-12 (2011).
47. J. Kitchena, **S.S. Massoud**, J. Grebowicz. Thermal Properties of Cu(II) Dinuclear Complexes. SRC-10, Houston, TX. Spring (2011).
48. S. Sylvain, K.M. Nicholas, **R.S. Srivastava**. Low Valent Ruthenium-catalyzed Hydrodeoxygenation and Hydrocracking of Diols and Epoxides to Fuels and Value-Added Chemicals, OMCOS 16, Shanghai, China, July 22-28 (2011).
49. B. Leake, F.R. Fronczek, **R.S. Srivastava**. Catalytic Conversion of Cellulose-Derived Carbohydrates to Fuels and Value-Added Chemicals, **85th Annual Meeting** University of Louisiana at Monroe (ULM) Saturday, February 26 (2011).
50. **R.S. Srivastava**. Lean Energy Workshop. Organized by Industrial Assessment Center, UL Lafayette. Co-sponsored by ISAM and ISPE. Hilton Garden Inn, Lafayette, January 24-25 (2011).

Patents

- **R.S. Srivastava** and S. Murru. Method of Producing Chiral N-substituted Allyl Amine Compounds. *US Patent* 1,418,540 (2016).

Journal Referees

- **S. S. Massoud**: *Chem A Eur. J.*, 2016.
- **S. S. Massoud**: *Chrystals*, 2016.
- **S.S. Massoud**: *J. Mol. Struct.*, 2016
- **S.S. Massoud**: *J. Cluster Chem.*, 2016
- **T. Junk**: *Journal of Thermal Analysis and Calorimetry (JTAC)*, 2015.
- **S.S. Massoud**: *Inorg. Chem.*, 2015.
- **S.S. Massoud**: *Dalton Transactions*, 2015.
- **S.S. Massoud**: *RSC Advances*, 2015.
- **S.S. Massoud**: *J. Inorg. Biochem.*, 2015.
- **S.S. Massoud**: *New J. Chemistry*, 2015.
- **S.S. Massoud**: *Zeitschrift für anorganische und allgemeine Chemie (ZAAC)*, 2015.

- **S.S. Massoud:** *Comments in Inorg. Chem.*, 2015.
- **S.S. Massoud:** *Inorg. Chem. Commun.*, 2015.
- **S.S. Massoud:** *Inorg. Chim. Acta*, 2015.
- **S.S. Massoud:** *Polyhedron*, 2015.
- **S.S. Massoud:** *Spectroscopic Letters*, 2015.
- **S.S. Massoud:** *Chemical Papers*, 2015.
- **R. S. Srivastava:** *JACS*, 2015.
- **R. S. Srivastava:** *Organometallics*, 2015.
- **R. S. Srivastava:** *Organic & Biomolecular Chemistry*, 2015.
- **R. S. Srivastava:** *Catalysis Science & Technology*, 2015.
- **Hui Yan:** *Applied Catalysis*, 2015.
- **August A. Gallo:** *Universal Journal of Chemistry*, 2015.
- **August A. Gallo:** *Chemosphere*, 2015.
- **S.S. Massoud:** *European J. Medicinal Chem.*, 2014.
- **S.S. Massoud:** *J. Chem. Soc., Pakistan*, 2014.
- **S.S. Massoud:** *J. Nanoparticle Research*, 2014.
- **S.S. Massoud:** *Phosphorus, Sulfur, and Silicon and the Related Elements*, 2014.
- **S.S. Massoud:** *RSC Advances*, 2014.
- **S.S. Massoud:** *Zeitschrift für Anorganische und Allgemeine Chemie*, 2014.
- **S.S. Massoud:** *Australian J. Chem.*, 2014.
- **S.S. Massoud:** *Inorg. Chim. Acta*, 2014.
- **S.S. Massoud:** *International J. Inorganic Chem.*, 2014.
- **S.S. Massoud:** *Arabian J. Chemistry*, 2014.
- **F.R. Louka:** *Advances in Chemistry*, 2014.
- **W. Xu:** *Journal of Plant Physiology*, 2014.
- **W. Xu:** *Chemical Research in Toxicology*, 2014.
- **W. Xu:** *Frontiers in Genetics*, 2014.
- **W. Xu:** *Cell Physiol Biochem*, 2014.
- **W. Xu:** *International J. of Biochemistry and Biophysics*, 2014.
- **W. Xu:** *Bioorganic & Medicinal Chemistry Letters*, 2014.
- **T. Junk:** *Heteroatom Chemistry*, 2014.
- **T. Junk:** *Thermal Analysis and Calorimetry*, 2014.
- **T. Junk:** *Moroccan Journal of Chemistry*, 2014.
- **W. Xu:** *Inorganica Chimica Acta*, 2013.
- **W. Xu:** *Inorganica Chimica Acta*, 2013.
- **W. Xu:** *Optical Materials*, 2013.
- **W. Xu:** *PLoS ONE*, 2013.
- **T. Junk:** *Phosphorus, Sulfur, and Silicon and the Related Elements*, 2013.
- **S.S. Massoud:** *Inorg. Chem.* 2013.
- **S.S. Massoud:** *RSC Advances* 2013.
- **S.S. Massoud:** *J. Electroanalytical* 2013.
- **S.S. Massoud:** *Polyhedron* 2013.
- **R.S. Srivastava:** *Applied Catalysis A*, 2013.
- **R.S. Srivastava:** *European Journal of Medicinal Chemistry*, 2013.

- **R.S. Srivastava:** *ChemMedChem*, 2013.
- **W. Xu:** *Inorganica Chimica Acta*, 2012.
- **W. Xu:** *Biology*, 2012.
- **W. Xu,** *Chinese Journal of Chemistry*, 2012.
- **W. Xu:** *PLoS ONE*, 2012.
- **S.S. Massoud:** *Inorg. Chem.* 2012.
- **S.S. Massoud:** *Organometallic Chem.* 2012
- **S.S. Massoud:** *Inorg. Chim. Acta* 2012.
- **S.S. Massoud:** *RSC Advances* 2012.
- **S.S. Massoud:** *New J. Chem.* 2012.
- **S.S. Massoud:** *Phosphorus, Sulfur, and Silicon and the Related Elements* 2012.
- **S.S. Massoud:** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy* 2012.
- **R.S. Srivastava:** *Spectra. Chim. Acta A*, 2012.
- **R.S. Srivastava:** *Electronic Journal of Chemistry*, 2012.
- **R.S. Srivastava:** *Electronic Journal of Chemistry*, 2012.
- **R.S. Srivastava:** *RSC Advances*, 2012.
- **W. Xu:** *European Journal of Medicinal Chemistry*, 2011.
- **S.S. Massoud:** *Inorg. Chim. Acta* 2011.
- **S.S. Massoud:** *Inorg. Chem. Commun.* 2011.
- **S.S. Massoud:** *J. Mol. Struct.* 2011.
- **S.S. Massoud:** *Polyhedron* 2011.
- **S.S. Massoud:** *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*, 2011.
- **R.S. Srivastava:** *Inorganica Chimica Acta*, 2011.
- **R.S. Srivastava:** *Journal of Organic Chemistry*, 2011.
- **R.S. Srivastava:** *Inorg. Chim. Acta*, 2011.
- **R.S. Srivastava:** *Catalysis Communication*, 2011.
- **R.S. Srivastava:** *Polyhedron*, 2011.
- **K. Knierim:** *Journal of Chemical Education*, 2010 - present
- **A.A. Gallo:** *Journal of Chemical Education*, 2010 - present

Other

Organized Special Sessions and Conferences

- **Salah S. Massoud:** Chair of the *Coordination Chemistry Session* of the 249th ACS *National Meeting*, Denver, CO, March 23-26 (2015).
- **K. Knierim:** Vice-Chair of Mechanisms of Pitting Corrosion symposium at the NACE Corrosion 2013 conference, Orlando, FL, March (2013).
- **K. Knierim:** Chair of Mechanisms of Pitting Corrosion symposium at the NACE Corrosion 2012 conference. Salt Lake City, UT, March (2012).
- **S.S. Massoud:** Organizer, *Bioinorganic Sessions in SWRM-Regional Meeting*. Baton Rouge, November 4-7 (2012).

- **A.A. Gallo:** Chair of the chemistry division of the Louisiana Academy of Sciences, (2000-pres).

Undergraduate – Notable Figures

- **S.S. Massoud,** supervised 18 undergraduate students in Chemistry 362/462 (2015).
- **F.R. Louka,** supervised 70 undergraduate students in Chemistry 362/462- undergraduate research (2008-2015).
- S.Y. Osman, student, and winner of the American Chemical Society (ACS) Outstanding Undergraduate Analytical Chemist Award, supervisor **F.R. Louka** (2015).
- **A.A. Gallo,** supervised over 40 undergraduate students during the period 2008-2013 in Chemistry 362/462- undergraduate research.
- **S.S. Massoud,** supervised over 34 undergraduate students during the period 2008-2013 in Chemistry 362/462- undergraduate research.
- **F.R. Louka,** supervised 14 undergraduate students during the period 2008-2013 in Chemistry 362/462- undergraduate research.

Awards and Honors

- **F.R. Louka,** Outstanding Teaching Award, Ray Authement College of Sciences (2016).
- **S.S. Massoud,** Outstanding Contribution in Reviewing Papers for *Inorganica Chimica Acta*, Elsevier (2015)
- **F.R. Louka,** Marvin and Warren Boudreaux / BoRSF Professorship in Chemistry Awardee (2015)
- **S.S. Massoud,** Boudreaux/BORSF Professorship (2002-2017).
- **F.R. Louka,** Marvin and Warren Boudreaux / BoRSF Professorship in Chemistry #4. (2015- present)
- **F.R. Louka,** Undergraduate Research Mentoring award 2014.
- **R.S. Srivastava,** Distinguished Professor Award, R.A.P. College of Sciences, 2013.
- **W. Xu,** Candidacy on the Fulbright Specialists Roster, the J. William Fulbright Foreign Scholarship Board, the U.S. Department of State's Bureau of Education and Cultural Affairs, and the Council for International Exchange of Scholars, 2012-2017.
- **F.R. Louka,** Summer Research Award Summer, 2012.
- **F.R. Louka,** Marvin and Warren Boudreaux / BoRSF Professorship in Chemistry #4. 2012- present.
- **W. Xu,** Boudreaux/BORSF Professorship, 2008-2014
- **R.S. Srivastava,** Boudreaux/BoR Distinguished Professor, 2001-present.

Other Professional Activities

2016

- **F.R. Louka.** Economical Micro-scale Vacuum Assisted DigiFILTER Assembly in Chemistry Labs. STEP Technology grant, \$13,901.
- **F.R. Louka.** Economical Micro scale Equipment in Chemistry Labs. STEP Technology grant, \$16,843.
- **W. Xu.** Structural and Functional Studies of Photosystem I to Enhance Undergraduate Education through Research. UL Undergraduate Research Mini-Grant, \$2,000.

- **R.L. Simon (PI), A.A. Gallo.** Organic Chemistry Laboratory Equipment Grant. STEP Technology Fund, \$3666.
- **R.L. Simon (PI).** Purchase of Chemistry Laboratory and Demonstration Equipment”, STEP Technology grant, \$501.64
- **T. Junk, A.A. Gallo,** Purchase of an Attenuated Total Reflectance (ATR) Tool for Chemistry to Conduct Infrared Spectroscopy on Solids, UL STEP Fund, \$5,602.
- **K.D. Kierim,** director of regional Science Olympiad.
- **A.D. Leonard,** classified the entire Library of EZTest questions (more than 2000 questions from Carey, *Organic Chemistry* 10th ed. McGraw Hill, 2017), by Bloom’s Taxonomy, difficulty level, topic, and subtopic.

2015

- **A.D. Leonard,** classified the entire Library of EZTest questions (more than 2000 questions from Carey, *Organic Chemistry* 10th ed. McGraw Hill, 2017), by Bloom’s Taxonomy, difficulty level, topic, and subtopic.
- **A.D. Leonard, C.S. Langley, J. Roy.** Achieving A Successful Online STEM Class. Presentation at Student Retention Summit, University of Louisiana at Lafayette. March 2015.
- **T. Junk,** Raman Spectroscopy in Chemistry Labs, UL STEP program, \$10,655.
- **W. Xu,** judge for Junior Division of Biochemistry Louisiana Region VI Science and Engineering Fair.
- **W. Xu,** judge for High School Senior Division on Protein Modeling. Louisiana Region II 26th Annual Science Olympiad.
- **W. Xu,** Judge for the Graduate Student Research & Project Symposium. University of Louisiana at Lafayette.
- **F.R. Louka (PI).** Applying New Techniques in Analytical Chemistry Laboratories: UL Instructor Mini-grant, \$700.

2014

- **Wellman, D.L., Xu, W. (co-PI) Gallo, A. (co-PI).** Installation of a Smart Classroom. UL STEP program, \$30,000, 2014.
- **W. Xu,** hosted Darren Jindal, a student from Stanford University, and two visiting professors from China: L. Huang and Y. Wei.
- **R.S. Srivastava,** served as Graduate faculty representative on the committee of C. U. Chukwunonye, M.S. candidate, Department of Physics.
- **A.D. Leonard,** classified the entire library of 2000+ questions from Smith, General, Organic, and Biological Chemistry, 2nd ed. for the McGraw Hill Connect Online Homework System by Bloom’s Taxonomy, difficulty level, topic, and subtopic.
- **F.R. Louka (PI).** Enhancement of Instrumental Analysis Laboratory Techniques: UL Instructor Mini-grant, \$849 (2014).
- **A.A. Gallo,** served as Chemistry Section Chair of the Louisiana Academy of Sciences.
- **K. Knierim,** served as director of the regional Science Olympiad.
- **K. Knierim,** was elected secretary of the faculty senate.

2013

- **W. Xu**, Judge for the Graduate Student Research & Project Symposium, University of Louisiana at Lafayette, 2013.
- **E.R. Taylor**, interviewed by Lynda Edwards, Daily Advertiser, 10 Sept 2013, concerning use of chemical weapons by Syria, article appeared in print, 11 Sept 2013.
- **E.R. Taylor**, interviewed by Jim Hummel, KATC TV for segment on ammonium nitrate and its hazards to communities, aired at 22:00 hr news, 4 Nov 2013.
- **E.R. Taylor**, served as Acting Dept. Head, Summer Semesters, Summer 2008-2013.
- **A.A. Gallo**, visiting Professor, Beifang University of Nationalities, Yinchuan, China, May-June 2013.
- **R.S. Srivastava**, Ph.D. Thesis evaluation report of V. Kalpana, University of Madras, India. Synthesis, Characterization and Application of Novel Dendrimers with Ether, Triazole as Branching and Benzoheteroazole, Thiazole as Surface and Synthesis of Heterocalxarenes, July 2013.
- **R.S. Srivastava**, Ph.D. Thesis evaluation report of Santosh Kumar Sahoo. Indian Institute of Technology, Guwahati, Assam, India. Development & Application of Transition Metal Catalysts for the Construction of Heterocycles, February 2013.
- **F.R. Louka**, supervised French Interns Guénaëlle de Lorgeril and Gerard Ducharme, 2013.

2012

- **K. Knierim, S.S. Massoud**, Instructional Improvement Mini-Grant, 2012-13.
- **T. Junk, A.A. Gallo**, Step Grant Funding for Smart Classroom, 2012.
- **S.S. Massoud**, reviewed textbook: Inorganic Chemistry by Hagerman: Chapters 1, 2, 8, 9, 10 and 11, W.H. Freeman & Co, 2012.
- **S.S. Massoud**, editorial board of *Dataset Papers in Materials Science*, 2012-present
- **S.S. Massoud, K. Knierim**, instructional Mini-Grant fund for purchasing overhead projector, – UL Lafayette, funded, 2012.
- **F.R. Louka**, Instructor Mini-grant: Enhancement of Teaching Techniques in Chemistry Lectures. \$475, 2012.
- **F.R. Louka**, upgraded the Analytical Lab, supervised procurement, installation, and methods development for new gas chromatograph and atomic absorption spectrophotometer funded by College, 2012.
- **R.S. Srivastava**, S. Murru, method of producing Chiral N-Substituted Allyl Amine Compounds. *International Patent*, pending, 2012.
- **R.S. Srivastava**, hired Post-Doc Dr. Siva Murru, December 2009-November 2012.

2011

- **S.S. Massoud**, reviewed textbook: *Inorganic Chemistry* by Shriver & Atkins, 5th Edn: all chapters, W.H. Freeman & Co, 2011.
- **F.R. Louka**, Instructor Mini-Grant: Improvement of Teaching Techniques In Chemistry Lecture. \$850, 2011.
- **F.R. Louka**, Instructor Mini-Grant: Enhancing The Analytical Chemistry Laboratories, \$850, 2011.

- **W. Xu**, judge for High School Senior Division Of Chemistry. Louisiana Region Vi Science and Engineering Fair, 2011.
- **W. Xu**, judge for High School Senior Division on Protein Modeling. Louisiana Region Ii 23rd and 24th Annual Science Olympiad, 2011-2012.

Pre-2009 and Continuing

- **W. Xu**, reviewed Biochemistry book chapters (Tymoczko, Mckee & Mckee, Sandler, Voet, Miesfeld & Mcevoy), 2007-Present.
- **K. Knierim**, Director for Louisiana Region 2 Science Olympiad, 2000-Present.
- **E.R. Taylor**, judge, Parish regional science fair in Senior Biochemistry category, every year (generally March), 1984-present.
- **F.R. Louka**, advisor for pre-pharmacy students, between 40-50 students/semester. 2007-present.
- **F.R. Louka**, serves as a chair or member of several University and departmental committees, 2007- present.
- **F.R. Louka**, serves as a judge in the Science Olympiad, 2007-present.

Offices Held and Professional Memberships

- **A.A. Gallo**, member: American Chemical Society (1973-pres.), Louisiana Academy of Sciences (1985-pres.). Co- advisor, UL Student affiliates of the American Chemical Society (2008-2013). President, UL Chapter of Sigma Xi (2004-2008).
- **T. Junk**, member: Phi Lambda Upsilon (1994-pres.), American Chemical Society (1995-pres.), Sigma Xi (1996-pres.), Louisiana Academy of Sciences (2009-pres.), American Association for the Advancement of Science (2005-pres.).
- **K. Knierim**, member: American Chemical Society (1975 – Pres.), Sigma Xi (1983 – Pres.), National Association Of Corrosion Engineers (2010 – Pres.); Director, Regional Science Olympiad (1998 – Pres.)
- **F. R. Louka**, member, American Chemical Society (2007-Pres.)
- **S.S. Massoud**, member, American Chemical Society (2001-Pres.)
- **R.S. Perkins**, member, American Chemical Society (1967-pres.)
- **R.S. Srivastava**, member: American Chemical Society (1993-pres.), Advisory Board, Asian Journal of Chemistry (2010-pres.), Sigma Xi (2010 – pres.)

Graduate Student Production

Graduate

- N.S.M. Ahmed. Kinetics and Electrochemical Studies on Some Ion-Pairs in Mixed Solvents. Ph.D. thesis submitted to Alexandria University, Alexandria, Egypt, 2015. External Examiner: **S.S. Massoud**.
- M. Ganesh, thesis evaluation. Indian Institute of Technology. Guwahati, Assam, India. R.S. 2015, **R.S. Srivastava**.
- A.K. Visvesvaraya, thesis evaluation. Technological University, Belagavi, Karnataka, India, 2015, **R.S. Srivastava**.

- R. Hill, Ethanol-Adenylyl Cyclase Pathway. Ph.D., LSU, 2015, Member of Committee: **W. Xu**.
- S. Singh, Title of the Final Defense: Spatial relationships based protein structure representation for alignment free comparison, local structural motif discovery and hierarchical classification, Member of Committee, 2015, **W. Xu**.
- A. Kascak, Ph.D. student, "Determining the Interactions Between the Ghost shrimp *Lepidophthalmus louisianensis* and Crude Oil." Member of committee, 2015, **F.R. Louka**.
- V.K. Chaitanya Nune. Interplay between Structure and Cell-Biomaterial Interactions in Orthopedic Implants. Ph.D., UL, 2014. Member of committee: W. Xu.P.K. Surya. Mechanical Property Anisotropy in High Strength Niobium Microalloyed Spiral-Welded Linepipe Steels. Ph.D., UL, 2014, Member of committee: **W. Xu**.
- R. Hill. Ethanol-Adenylyl Cyclase Pathway. Ph.D., LSU, 2014. Member of committee: W. Xu. G. Nakka. Crystallization phenomenon of various polymers on carbon nanotubes. M.S., UL, 2014, Member of committee: **W. Xu**.
- S. Guin. Transition Metal Catalyzed C-C and C-O Bond Formation via C-H Activation. Indian Institute of Technology, Assam, India, Ph.D., 2014. Member of committee: **R.S. Srivastava**.
- K. Satbhai. Interaction of petroleum hydrocarbons phenanthrene and dibenzothiophene and their effects on reproductive behavior in amphipod *Hyalella Azteca*. Spring 2012-present. Member of committee: **F.R. Louka**.
- S. Sovine. Heterogeneous catalysis of glycerol to propylene glycol over copper chromite. Member of committee: MS, 2012, **A.A. Gallo**.

Funding

2016

- **R.S. Srivastava** (PI), C. Murru. Studies on Catalytic Asymmetric C-H Amination of Alkenes. PI-NSF, \$375,000 (2016-2019).
- **R.S. Srivastava**. Enantioselective C-H Amination of Alkenes and Carbonyl Compounds and Novel Application Thereof. Natl. Institutes of Health, \$145,000 (2016-2019)

2015

- V. Raghavan, **W. Xu**. Development of an Algorithm and a Tool for Accurate Comparison of Protein and Chemical 3-D Structures. Board of Regents Support Fund (LEQSF(2015-18)-RD-B-06), \$182,679, 2015-2018.
- **W. Xu**, R.K. Bajpai, A.Y. Chistoserdov, **A.A. Gallo**, **T. Junk**, **R.S. Perkins**, **R.S. Srivastava**. Integrating Analytical Ultracentrifugation into Chemistry Teaching and Research Laboratories for Undergraduates Majoring in Chemistry, Biology and Engineering. Board of Regents Support Fund (LEQSF(2015-16)-ENH-TR-34), \$58,366, 2015 – 2016.

2014

- **W. Xu (PI), A.A. Gallo (Co-PI), R.S. Perkins (Co-PI), T. Junk (Co-PI), R.S. Srivastava (Co-PI), R. Bajpai (Co-PI).** Integration of a Florescence spectrometer into chemistry and biochemistry. BoR- ENH, \$32,000, 2014.
- **R.S. Srivastava (PI).** Transition-metal catalyzed asymmetric nitrogenation of hydrocarbons (olefins): Method development and its synthetic applications to valuable chemicals. BOR-ITRS, \$225,000, 2014-2017.
- **W. Xu (PI).** Structure-function studies of ethylene-forming enzyme based on a theoretical 3-D model. National Science Foundation's EPSCoR Award (LEQSF-EPS(2015)-PFUND-425). BoRSF, \$10,000, 2014-2015.

2013

- **W. Xu,** Principal Investigator. Research Competitiveness Subprogram, Board of Regents Support Fund. Biochemical and Spectroscopic Characterizations of the Site-directed Mutants around Accessory Chlorophylls, A₀, A₁ and F_X of *Synechocystis* sp. PCC 6803, \$150,917, 2013–2016.
- **R.S. Srivastava,** Principal Investigator. BoRSF-LEQSF (ITRS). Copper-Catalyzed Asymmetric Allylic Amination: Method development, Mechanistic studies and its Synthetic application. \$225,000, 2013-16.

2012

- R.K. Bajpai, A.Y. Chistoserdov, **A.A. Gallo, F. Louka, W. Xu (PI), R.S. Perkins, R.S. Srivastava, E.R. Taylor.** Enhancement Program, Board of Regents Support Fund. Enhancement of Spectroscopy and Macromolecule Characterization Techniques in Undergraduate Laboratories for Chemistry, Biology and Engineering Majors. \$38,261, 2012–2014.
- **F.R. Louka,** Co-PI of a proposal submitted to Gulf of Mexico Research Initiative (GoMRI). The effect of sediment bioturbators on the biological degradation of petroleum in coastal ecosystems. \$1,010,901, 2012-2015.

2011

- **W. Xu,** Principal Investigator. A sub-award of NIH *LEQSF (2010-15)-INBRE*, Effect of Adenylyl Cyclase Isoform Specificity on CREB Activation by Ethanol Stimulation. \$24,809, 2011–2012.