

A Sampling of the Scientific Publications

Authored by

Members of the Chemistry Program at
UHCL

2004

2003

1	Lu, J. Y. Coordination Chem. Reviews, 2003, 246, 345-365. Crystal Engineering of Cu-Containing Metal-Organic Coordination Polymers Under Hydrothermal Conditions .
2	Lu, J. Y. and Schauss, V. Inorg. Chem. Commun. 2003, 6, 1332. A novel double-helical-chain coordination polymer constructed from 2,2'-biphenyldicarboxylate-linked binuclear-copper motif .
3	Lu, J. Y. and Babb, A. M. Chem. Commun. 2003, 1346. A unique eclipsed 2-D coordination polymer with removable iodine molecules in the open-channel structure .
4	Lu, J. Y. and Norman, C. Polyhedron, 2003, 22, 235. Synthesis and Structure of Two New Coordination Polymers Featuring Noncentrosymmetric Inclusion of Hydrogen-Bonded Species .
5	Armentano, D.; de Munno, G.; Lloret, F.; Julve, M.; Curcio, J.; Babb, A. M.; Lu, J. Y. New J. Chem. 2003, 27, 161. Oxalate And 2,2'-Bipyrimidine As Bis-Chelating Ligands In The Honeycomb Layered Compound $\{[Fe_2(bpym)(ox)_2] \cdot 5H_2O\}_n$.
6	Zhu, L-G.; Xiao, H-P., Lu, J. Y. Inorg. Chem. Commun. 2003, in press. In-Air Structural Transformation Observed From The Synthesis of A New Mixed-Ligand Coordination Polymer .
7	Wei Zou, Edith Lacroix, Zerong Wang and Shih-Hsiung Wu, Synthesis of thio-C-glycosides from 2'-carbonylalkyl C-glycosides by a tandem β -elimination and intramolecular hetero-Michael addition , Tetrahedron Lett. 2003, 44, 4431.
8	Zerong Wang, Huawu Shao, Edith Lacroix, Shih-Hsiung Wu, Harold J. Jennings and Wei Zou, Epimerization of 2'-Carbonylalkyl-C-Glycosides via Enolation, β -

	Elimination and Intramolecular Cycloaddition, J. Org. Chem. 2003, 68, 8097.
9	Daniel Zerong Wang and Andrew Streitwieser, Aggregation and Reactivity of the Cesium Enolate of 6-Phenyl- α -tetralone: Comparison with the Lithium Enolate, J. Org. Chem. 2003, in press.
10	Zhang, C, Hughes, JB (2003), Bacterial Energetics, Stoichiometry and Kinetic Modeling of 2,4-Dinitrotoluene Biodegradation in a Batch Respirometer, Environmental Toxicology and Chemistry, (In Review)
11	Daprato, RC, Zhang, C, Spain, JC, Hughes, JB (2003), Modeling the Aerobic Bioremediation of Dinitrotoluene Contaminated Soil in a Slurry Reactor, Water Research, (In Review).
12	Zhang, C, Fortner, JD, Hughes, JB (2003), Kinetics and Stoichiometry of Dinitrotoluene Mineralization to Support in-situ Vadose Zone Bioremediation, Proceeding of 7th International Symposium on In Situ and On-Site Bioremediation, Battelle Press, Columbus, Editors: Andrea Leeson, etc. (In Press).
13	Fortner, JD, Zhang, C, Spain, JC, Hughes, JB (2003), Soil Column Evaluation of Factors Controlling Biodegradation of DNT in the Vadose Zone, Environmental Science and Technology, 37(15):3382-3391.

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1	Zhang, C, Hughes, JB (2003), Biodegradation Pathways of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX) by <i>Clostridium acetobutylicum</i> Cell-Free Extract, Chemosphere, 50:665-671.
2	Lu, J. Y. and Schauss, V. CrystEngComm, 2002, 4, 623. Two Cu(II) Complexes Synthesized by Using A Solid-state Compound With An Extended Crystal Structure As The Copper-Ion Source.
3	Lu, J. Y. and Schauss, V. Eur. J. Inorg. Chem. 2002, 1945. A Novel Nanostructured Open-Channel Coordination Polymer With an Included Fused-Polyiodide Ring.
4	Lu J. Y. and Kohler, E. E. Inorg. Chem. Commun. 2002, 5, 196. A Non-Interpenetrating 3-D Coordination Polymer Built From Binuclear Cd Units Elaborated With Square-Pyramidal Geometry of Cadmium.
5	Lu, J. Y. and Macias, J. CrystEngComm. 2002, 4, 17. An Unprecedented Tetrahedral Zinc Mutual-Face-Insertion Coordination Polymer With Both Covalent and Double-Hydrogen Bonding Interactions.
6	Lu, J. Y. and Schauss, V. Inorg. Chem. Commun. 2002, 5, 1028. The 3-D CuO (Tenorite) as Copper-Ion Source Afforded The First 1,4-Naphthalenedicarboxylate Bridged Coordination Dimer Linked Via Triple-Hydrogen-Bonding Water Molecule Into a 2-D Network.
7	Lu, J. Y.; Macias, J.; Lu, J. and Cmaidalka, J. E. Cryst. Growth & Design, 2002, 2, 485. An Unforeseen Chemical Rearrangement of Pyridinecarboxylate to Oxalate Under Hydrothermal Conditions Afforded the First Oxalato and Isonicotinato Mixed-

7	Fu, A.; Lu, J. Y.; Huang, X. and Li, J. J. <i>Alloys and Compounds</i> , 2001, 319, 89-93. ZnCl ₂ (4,4'-bpy): A One-Dimensional Coordination Polymer With Two Isomorphic Phases.
8	Lu, J. Y. and Babb, A. M. <i>Inorg. Chem. Commun.</i> 2001, 4, 716. A New 3-D Neutral Framework Coordination Polymer Constructed via Square Pyramidal Binuclear Cu(II) and Nicotinato-Ligand.
9	Lu, J. Y.; Schroeder, T. J.; Babb, A. M. and Olmstead, M. <i>Polyhedron</i> , 2001, 20, 2445. Two New Coordination Polymers Differentiated by C-H...O Hydrogen Bonding.
10	Lu, J. Y.; Reynolds, A. L. and Runnels, K. A. <i>CrystEngComm</i> . 2001, 34, 144. A New Metal-Organic Structure with Alternating One-Dimensional Serpentine Ribbon Chains and Two-Dimensional Layer Networks of Different Topology.
11	Lu, J. Y.; Runnels, K. A. and Norman, C. <i>Inorg. Chem.</i> 2001, 40, 4516. A New Metal-Organic Polymer with Large Grid Acentric Structure Created by Unbalanced Inclusion Species and Its Electrospun Nanofibers.
12	Mills, W. R. and Benson, J. 2001. Influence of simulated microgravity on morphological and biochemical characteristics of the green alga, <i>Chlorella pyrenoidosa</i> . NASA/ASEE Summer Faculty Fellowship Program Final Report, Johnson Space Center, pp. 15-1 to 15-15.
13	Andrew Streitwieser, Yeong-Joon Kim and Daniel Ze-Rong Wang, Why Is Alkylation of an Enolate Accompanied by So Much Polyalkylation? , <i>Organic Letters</i> , 2001, 3, 2599.
14	Wei Zou, Zerong Wang, Edith Lacroix, Shih-Hsiung Wu, Harold J. Jennings, Multifunctionalized a,b-cyclopentenones from C-2 and C-4-olopyranosyl compounds: a stereospecific rearrangement initiated by base , <i>Carbohydrate Research</i> , 2001, 334, 223.
15	Zhang,C, Hughes,JB, Daprato,RC, Nishino,SF, Spain,JC (2001). "Bioslurry Treatment of Dinitrotoluene Contaminated Soils: Process Feasibility and Strategies for Low-cost Monitoring," Proceeding of the International Conference on Environmental Concerns and Emerging Abatement Technologies, Volume I, Beijing, China, 2001.
16	Zhang,C, Hughes,JB, Daprato,RC, Nishino,SF, Spain, JC (2001), Remediation of Dinitrotoluene Contaminated Soils from Former Ammunition Plants: Soil Washing Efficiency and Effective Processes Monitoring in Bioslurry Reactors, <i>Journal of Hazardous Materials</i> , 2676(2001):1-16.

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1	A.J.MacDermott, The Ascent of Parity-Violation: Exochirality in the Solar System and Beyond , invited review for <i>Festschrift for Prof Stephen F.Mason, FRS</i> , <i>Enantiomer</i> 5 153-168 (2000)
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2	Daniel Zerong Wang, Yeong-Joon Kim and Andrew Streitwieser, Aggregation and Alkylation of Enolates of 2-Phenyl-a-tetralone and 2,6-Diphenyl-a-tetralone, J. Amer. Chem. Soc. 2000, 122, 10754
3	Sanchez, R. and Lubertino, G., Process for the Benign Direct Fixation and Conversion of Nitrogen Oxides, United States Patent 6,068,823 (2000).
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6	Mills, W. R. 2000. Growth and metabolism of the green alga, <i>Chlorella pyrenoidosa</i> , in simulated microgravity. NASA/ASEE Summer Faculty Fellowship Program Final Report, Johnson Space Center, pp. 10-1 to 10-14.

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1	Lu, J. Y.; Cabrera, B.; Wang, R. and Li, J. Inorg. Chem. 1999, 38, 4608. "Cu-bpy-X (X = Cl, Br; bpy = 4, 4'-bipyridine) Coordination Polymers: The Stoichiometric Control and Structural Relations of [(CuX)2bpy] and [CuBrbpy]."
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4	Daniel Zerong Wang and Andrew Streitwieser, Theoretical study of the proton affinities in some aromatic compounds, Theoretical Chemistry Account, 1999, 102, 78.
5	Andrew Streitwieser and Daniel Zerong Wang Aggregation and reactivity of the lithium enolate of 2-biphenylcyclohexanone in Tetrahydrofuran, J. Amer. Chem. Soc., 1999, 121, 6213.
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1	Lu, J. Y.; Cabrera, B.; Wang, R. and Li, J. <i>Inorg. Chem.</i> 1998, 37, 4480. "Chemical Rearrangement under Hydrothermal Conditions: Formation of Polymeric Chains [(CuX) ₂ (dpiz)] and [(CuX) ₃ (dpiz)] (X = Cl, Br; dpiz = Dipyrido[1,2-a:2',3'-d]imidazole) and Crystal Structures of [(CuX) ₂ (C ₁₀ H ₇ N ₃)] and [(CuX) ₃ (C ₁₀ H ₇ N ₃)]."
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