

# Frank W Lewis

## List of Publications by Citations

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37  
papers

1,286  
citations

16  
h-index

35  
g-index

41  
ext. papers

1,457  
ext. citations

4.6  
avg, IF

4.16  
L-index

#	Paper	IF	Citations
37	Highly efficient separation of actinides from lanthanides by a phenanthroline-derived bis-triazine ligand. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 13093-102	16.4	250
36	Use of soft heterocyclic N-donor ligands to separate actinides and lanthanides. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3414-28	5.1	204
35	BTBPs versus BTPHens: some reasons for their differences in properties concerning the partitioning of minor actinides and the advantages of BTPHens. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 4993-5005	5.1	103
34	Hydrophilic sulfonated bis-1,2,4-triazine ligands are highly effective reagents for separating actinides(III) from lanthanides(III) selective formation of aqueous actinide complexes. <i>Chemical Science</i> , <b>2015</b> , 6, 4812-4821	9.4	84
33	Lanthanide speciation in potential SANEX and GANEX actinide/lanthanide separations using tetra-N-donor extractants. <i>Inorganic Chemistry</i> , <b>2013</b> , 52, 3429-44	5.1	78
32	Direct Selective Extraction of Actinides (III) from PUREX Raffinate using a Mixture of CyMe4BTBP and TODGA as 1-cycle SANEX Solvent Part III: Demonstration of a Laboratory-Scale Counter-Current Centrifugal Contactor Process. <i>Solvent Extraction and Ion Exchange</i> , <b>2013</b> , 31, 519-537	2.5	59
31	Role of ligands in catalytic water oxidation by mononuclear ruthenium complexes. <i>Coordination Chemistry Reviews</i> , <b>2015</b> , 304-305, 88-101	23.2	58
30	Development of Highly Selective Ligands for Separations of Actinides from Lanthanides in the Nuclear Fuel Cycle. <i>Synlett</i> , <b>2011</b> , 2011, 2609-2632	2.2	51
29	Synthesis and Evaluation of Lipophilic BTBP Ligands for An/Ln Separation in Nuclear Waste Treatment: The Effect of Alkyl Substitution on Extraction Properties and Implications for Ligand Design. <i>European Journal of Organic Chemistry</i> , <b>2012</b> , 2012, 1509-1519	3.2	40
28	From BTBPs to BTPHens: The Effect of Ligand Pre-Organization on the Extraction Properties of Quadridentate Bis-Triazine Ligands. <i>Procedia Chemistry</i> , <b>2012</b> , 7, 231-238		37
27	Complexation of lanthanides, actinides and transition metal cations with a 6-(1,2,4-triazin-3-yl)-2,2,6,6-tetrapyridine ligand: implications for actinide(III)/lanthanide(III) partitioning. <i>Dalton Transactions</i> , <b>2012</b> , 41, 9209-19	4.3	34
26	Protection from neurodegeneration in the 6-hydroxydopamine (6-OHDA) model of Parkinson's with novel 1-hydroxypyridin-2-one metal chelators. <i>Metallomics</i> , <b>2015</b> , 7, 867-76	4.5	33
25	Solvent Extraction and Fluorescence Spectroscopic Investigation of the Selective Am(III) Complexation with TS-BTPH. <i>Solvent Extraction and Ion Exchange</i> , <b>2016</b> , 34, 126-140	2.5	32
24	Interaction of 6,6'-bis(5,5,8,8-tetramethyl-5,6,7,8-tetrahydro-1,2,4-benzotriazin-3-yl)-2,2',6',6'-tetrapyridine (CyMe4-BTTP) with some trivalent ions such as lanthanide(III) ions and americium(III). <i>Dalton Transactions</i> , <b>2010</b> , 39, 5172-82	4.3	31
23	1,2,4-Triazines in the Synthesis of Bipyridine Bisphenolate ONNO Ligands and Their Highly Luminescent Tetradentate Pt(II) Complexes for Solution-Processable OLEDs. <i>Inorganic Chemistry</i> , <b>2018</b> , 57, 3825-3832	5.1	23
22	The Separation of Americium(III) from Europium(III) by Two New 6,6'-Bistriazinyl-2,2'-Bipyridines in Different Diluents. <i>Solvent Extraction and Ion Exchange</i> , <b>2011</b> , 29, 551-576	2.5	22
21	Exploring the Subtle Effect of Aliphatic Ring Size on Minor Actinide-Extraction Properties and Metal Ion Speciation in Bis-1,2,4-Triazine Ligands. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 428-437	4.8	15

20	Separation of the Minor Actinides Americium(III) and Curium(III) by Hydrophobic and Hydrophilic BTPhen ligands: Exploiting Differences in their Rates of Extraction and Effective Separations at Equilibrium. <i>Solvent Extraction and Ion Exchange</i> , <b>2018</b> , 36, 115-135	2.5	14
19	Unexpected formation of 10-iodo- and 10-chlorocamphor under halosulfonylation conditions, and convenient routes to 10-chloro- and 10-bromocamphor. <i>Tetrahedron: Asymmetry</i> , <b>2009</b> , 20, 1531-1535		14
18	Anomalously Large Chiral Sensitivity in the Dissociative Electron Attachment of 10-Iodocamphor. <i>Physical Review Letters</i> , <b>2016</b> , 116, 093201	7.4	11
17	TS-BTPhen as a promising hydrophilic complexing agent for selective Am(III) separation by solvent extraction. <i>Nukleonika</i> , <b>2015</b> , 60, 815-820	1	11
16	Preliminary investigations on novel camphor-derived chiral sulfones: completely stereoselective formation of tricyclic $\beta$ -hydroxy sulfones from 8- and 10-functionalized camphor derivatives. <i>Tetrahedron</i> , <b>2011</b> , 67, 7517-7528	2.4	11
15	Influence of diluent alkyl substitution on the extraction of Am(III) and Eu(III) by a 6,6'-bis(1,2,4-triazin-3-yl)-2,2'-bipyridine ligand dissolved in alkylated cyclohexanone diluents. <i>Radiochimica Acta</i> , <b>2012</b> , 100, 747-752	1.9	10
14	Efficient masking of corrosion and fission products such as Ni(II) and Pd(II) in the presence of the minor actinide Am(III) using hydrophilic anionic or cationic bis-triazines. <i>Chemical Communications</i> , <b>2015</b> , 51, 9189-92	5.8	8
13	Modelling of the Am(III) / Cm(III) kinetic separation effect observed during metal ion extraction by bis-(1,2,4)-triazine ligands. <i>Separation Science and Technology</i> , <b>2018</b> , 53, 277-285	2.5	8
12	Rapid selective separation of americium/curium from simulated nuclear forensic matrices using triazine ligands. <i>Radiochimica Acta</i> , <b>2015</b> , 103, 687-694	1.9	7
11	Design and evaluation of bi-functional iron chelators for protection of dopaminergic neurons from toxicants. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 3105-3123	5.8	6
10	The Circuitous Journey from Malonamides to BTPHens. <i>Strategies and Tactics in Organic Synthesis</i> , <b>2013</b> , 177-202	0.2	6
9	Plutonium coordination and redox chemistry with the CyMe-BTPhen polydentate N-donor extractant ligand. <i>Chemical Communications</i> , <b>2018</b> , 54, 12582-12585	5.8	6
8	Novel 1-hydroxypyridin-2-one metal chelators prevent and rescue ubiquitin proteasomal-related neuronal injury in an in vitro model of Parkinson's disease. <i>Archives of Toxicology</i> , <b>2020</b> , 94, 813-831	5.8	4
7	Thermodynamic parameters of Am(III), Cm(III) and Eu(III) extraction by CyMe <sub>4</sub> -BTPhen in cyclohexanone from HNO <sub>3</sub> solutions. <i>Journal of Chemical Thermodynamics</i> , <b>2020</b> , 141, 105955	2.9	4
6	Spin-polarized electron transmission through chiral halocamphor molecules. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , <b>2018</b> , 51, 21LT01	1.3	4
5	Synthesis and Evaluation of a Novel Hydrophilic 6,6'-Bis(1,2,4-triazin-3-yl)-2,2'-bipyridine Ligand for Separating Actinide(III) from Lanthanide(III). <i>Synlett</i> , <b>2015</b> , 27, 1-5	2.2	3
4	An improved synthesis of 10-isobornylsultone. <i>Tetrahedron: Asymmetry</i> , <b>2014</b> , 25, 1150-1152		2
3	Synthesis of $\beta$ -Amino Alcohols via the Reduction of Lactamides Derived from Ethyl (2S)-Lactate with Borane-Methyl Sulfide. <i>Synlett</i> , <b>2009</b> , 2009, 1923-1928	2.2	2

- 2 The diastereoselective Meth-Cohn epoxidation of camphor-derived vinyl sulfones. *Tetrahedron: Asymmetry*, **2012**, 23, 643-649 1
- 1 An Overview of Multifunctional Metal Chelators as Potential Treatments for Neurodegenerative Diseases **2017**, 399-414 0