Jason B Love

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3811127/publications.pdf

Version: 2024-02-01

96	4,414	101543 36	114465 63
papers	citations	h-index	g-index

101	101	101	3009
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solvent extraction: the coordination chemistry behind extractive metallurgy. Chemical Society Reviews, 2014, 43, 123-134.	38.1	364
2	Reduction and selective oxo group silylation of the uranyl dication. Nature, 2008, 451, 315-317.	27.8	257
3	Pentavalent uranyl complexes. Coordination Chemistry Reviews, 2009, 253, 1973-1978.	18.8	211
4	Challenges and opportunities in the recovery of gold from electronic waste. RSC Advances, 2020, 10, 4300-4309.	3.6	159
5	Uranyl oxo activation and functionalization by metal cation coordination. Nature Chemistry, 2010, 2, 1056-1061.	13.6	153
6	Strongly coupled binuclear uraniumâ€“oxo complexes from uranyl oxo rearrangement and reductive silylation. Nature Chemistry, 2012, 4, 221-227.	13.6	149
7	Selective Oxo Functionalization of the Uranyl Ion with 3d Metal Cations. Journal of the American Chemical Society, 2006, 128, 9610-9611.	13.7	130
8	A Simple Primary Amide for the Selective Recovery of Gold from Secondary Resources. Angewandte Chemie - International Edition, 2016, 55, 12436-12439.	13.8	116
9	Singleâ€Electron Uranyl Reduction by a Rareâ€Earth Cation. Angewandte Chemie - International Edition, 2011, 50, 887-890.	13.8	115
10	Oxo-Functionalization and Reduction of the Uranyl Ion through Lanthanide-Element Bond Homolysis: Synthetic, Structural, and Bonding Analysis of a Series of Singly Reduced Uranylâ€“Rare Earth 5f¹-4f^{<i>n</i>} Complexes. Journal of the American Chemical Society, 2013, 135, 3841-3854.	13.7	107
11	Uranyl Complexation by a Schiff-Base, Polypyrrolic Macrocycle. Inorganic Chemistry, 2004, 43, 8206-8208.	4.0	100
12	Thermal and Photochemical Reduction and Functionalization Chemistry of the Uranyl Dication, [U^{VI}O₂]²⁺. Chemical Reviews, 2019, 119, 10595-10637.	47.7	96
13	Dioxygen Reduction at Dicobalt Complexes of a Schiff Base Calixpyrrole Ligand. Angewandte Chemie - International Edition, 2007, 46, 584-586.	13.8	95
14	A macrocyclic approach to transition metal and uranyl Pacman complexes. Chemical Communications, 2009, , 3154.	4.1	95
15	Organometallic neptunium(III) complexes. Nature Chemistry, 2016, 8, 797-802.	13.6	88
16	Recycling copper and gold from e-waste by a two-stage leaching and solvent extraction process. Separation and Purification Technology, 2021, 263, 118400.	7.9	78
17	Macrocyclic diiminodipyrromethane complexes: structural analogues of Pac-Man porphyrins. Chemical Communications, 2003, , 2508-2509.	4.1	75
18	Inner-sphere vs. outer-sphere reduction of uranyl supported by a redox-active, donor-expanded dipyrrin. Chemical Science, 2017, 8, 108-116.	7.4	64

#	Article	IF	Citations
19	Encapsulation of a Magnesium Hydroxide Cubane by a Bowl-Shaped Polypyrrolic Schiff Base Macrocycle. Journal of the American Chemical Society, 2011, 133, 7320-7323.	13.7	61
20	Design and Synthesis of Binucleating Macrocyclic Clefts Derived from Schiff-Base Calixpyrroles. Chemistry - A European Journal, 2007, 13, 3707-3723.	3.3	60
21	Binuclear Cobalt Complexes of Schiff-Base Calixpyrroles and Their Roles in the Catalytic Reduction of Dioxygen. Inorganic Chemistry, 2009, 48, 5195-5207.	4.0	60
22	Tailoring dicobalt Pacman complexes of Schiff-base calixpyrroles towards dioxygenreduction catalysis. Chemical Communications, 2010, 46, 710-712.	4.1	59
23	Exploiting outer-sphere interactions to enhance metal recovery by solvent extraction. Chemical Communications, 2013, 49, 1891.	4.1	55
24	Switchable Ï€-coordination and Câ€“H metallation in small-cavity macrocyclic uranium and thorium complexes. Chemical Science, 2014, 5, 756-765.	7.4	53
25	New Chemistry from an Old Reagent: Mono- and Dinuclear Macrocyclic Uranium(III) Complexes from [U(BH4)3(THF)2]. Journal of the American Chemical Society, 2014, 136, 10218-10221.	13.7	53
26	Control of Oxo-Group Functionalization and Reduction of the Uranyl Ion. Inorganic Chemistry, 2015, 54, 3702-3710.	4.0	51
27	Oxo Group Protonation and Silylation of Pentavalent Uranyl Pacman Complexes. Angewandte Chemie - International Edition, 2011, 50, 9456-9458.	13.8	50
28	Controlled Deprotection and Reorganization of Uranyl Oxo Groups in a Binuclear Macrocyclic Environment. Angewandte Chemie - International Edition, 2012, 51, 12584-12587.	13.8	47
29	Double-pillared cobalt Pacman complexes: synthesis, structures and oxygen reduction catalysis. Dalton Transactions, 2012, 41, 65-72.	3.3	46
30	Reduction of carbon dioxide and organic carbonyls by hydrosilanes catalysed by the perrhenate anion. Catalysis Science and Technology, 2017, 7, 2838-2845.	4.1	42
31	Uranyl to Uranium(IV) Conversion through Manipulation of Axial and Equatorial Ligands. Journal of the American Chemical Society, 2018, 140, 3378-3384.	13.7	42
32	Catalytic one-electron reduction of uranyl(<scp>vi</scp>) to Group 1 uranyl(<scp>v</scp>) complexes via Al(<scp>iii</scp>) coordination. Chemical Communications, 2015, 51, 5876-5879.	4.1	40
33	Subtle Interactions and Electron Transfer between U^{III}, Np^{III}, or Pu^{III} and Uranyl Mediated by the Oxo Group. Angewandte Chemie - International Edition, 2016, 55, 12797-12801.	13.8	40
34	Oxoâ€“Groupâ€14â€Element Bond Formation in Binuclear Uranium(V) Pacman Complexes. Chemistry - A European Journal, 2013, 19, 10287-10294.	3.3	38
35	Ligand Modifications for Tailoring the Binuclear Microenvironments in Schiff-Base Calixpyrrole Pacman Complexes. Inorganic Chemistry, 2009, 48, 7491-7500.	4.0	37
36	A DFT study of the single electron reduction and silylation of the Uâ€“O bond of the uranyl dication in a macrocyclic environment. Chemical Communications, 2009, , 2402.	4.1	36

#	Article	IF	Citations
37	Uranium rhodium bonding in heterometallic complexes. Dalton Transactions, 2017, 46, 5540-5545.	3.3	36
38	Tuneable separation of gold by selective precipitation using a simple and recyclable diamide. Nature Communications, 2021, 12, 6258.	12.8	36
39	Computational Density Functional Study of Polypyrrolic Macrocycles: Analysis of Actinyl-Oxo to 3d Transition Metal Bonding. Inorganic Chemistry, 2008, 47, 11583-11592.	4.0	35
40	Uranium(III) Coordination Chemistry and Oxidation in a Flexible Small-Cavity Macrocycle. Organometallics, 2015, 34, 2114-2117.	2.3	35
41	Earlyâ€"late, mixed-metal compounds supported by amidophosphine ligands. Dalton Transactions, 2004, , 1960-1970.	3.3	33
42	Selective Anion Binding by a Cofacial Binuclear Zinc Complex of a Schiff-Base Pyrrole Macrocycle. Inorganic Chemistry, 2011, 50, 3116-3126.	4.0	32
43	Axially Symmetric Uâˆ'Oâˆ'Lnâ€•and Uâˆ'Oâˆ'Uâ€Containing Molecules from the Control of Uranyl Reduction with Simple fâ€Block Halides. Angewandte Chemie - International Edition, 2017, 56, 10775-10779.	13.8	32
44	Evaluation of Simple Amides in the Selective Recovery of Gold from Secondary Sources by Solvent Extraction. ACS Sustainable Chemistry and Engineering, 2019, 7, 15019-15029.	6.7	32
45	Recent Advances in the Deoxydehydration of Vicinal Diols and Polyols. Chemistry - an Asian Journal, 2019, 14, 3782-3790.	3.3	30
46	Controlling uranyl oxo group interactions to group 14 elements using polypyrrolic Schiff-base macrocyclic ligands. Dalton Transactions, 2016, 45, 15902-15909.	3.3	29
47	Double uranium oxo cations derived from uranyl by borane or silane reduction. Chemical Communications, 2018, 54, 3839-3842.	4.1	29
48	Differential uranyl(v) oxo-group bonding between the uranium and metal cations from groups 1, 2, 4, and 12; a high energy resolution X-ray absorption, computational, and synthetic study. Chemical Science, 2019, 10, 9740-9751.	7.4	29
49	Co-linear, double-uranyl coordination by an expanded Schiff-base polypyrrole macrocycle. Dalton Transactions, 2012, 41, 6595.	3.3	28
50	Anion Receptor Design: Exploiting Outer-Sphere Coordination Chemistry To Obtain High Selectivity for Chloridometalates over Chloride. Inorganic Chemistry, 2015, 54, 8685-8692.	4.0	28
51	Multi-electron reduction of sulfur and carbon disulfide using binuclear uranium(<scp>iii</scp>) borohydride complexes. Chemical Science, 2017, 8, 3609-3617.	7.4	27
52	Towards dipyrrins: oxidation and metalation of acyclic and macrocyclic Schiff-base dipyrromethanes. Dalton Transactions, 2015, 44, 2066-2070.	3.3	26
53	Controlled Photocatalytic Hydrocarbon Oxidation by Uranyl Complexes. ChemCatChem, 2019, 11, 3786-3790.	3.7	26
54	Using Chiral Ligand Substituents To Promote the Formation of Dinuclear, Doubleâ€Stranded Iron, Manganese, and Zinc Mesocates. European Journal of Inorganic Chemistry, 2007, 2007, 5286-5293.	2.0	25

#	Article	IF	Citations
55	Olefin Epoxidation in Aqueous Phase Using Ionicâ€Liquid Catalysts. ChemSusChem, 2016, 9, 1773-1776.	6.8	25
56	The Influence of the Hofmeister Bias and the Stability and Speciation of Chloridolanthanates on Their Extraction from Chloride Media. Solvent Extraction and Ion Exchange, 2016, 34, 579-593.	2.0	25
57	Polynuclear alkoxyâ€“zinc complexes of bowl-shaped macrocycles and their use in the copolymerisation of cyclohexene oxide and CO₂. Dalton Transactions, 2019, 48, 4887-4893.	3.3	25
58	Theoretical exploration of uranyl complexes of a designed polypyrrolic macrocycle: structure/property effects of hinge size on Pacman-shaped complexes. Dalton Transactions, 2012, 41, 8878.	3.3	24
59	Deoxydehydration of vicinal diols and polyols catalyzed by pyridinium perrhenate salts. Catalysis Science and Technology, 2017, 7, 5644-5649.	4.1	23
60	A Simple Primary Amide for the Selective Recovery of Gold from Secondary Resources. Angewandte Chemie, 2016, 128, 12624-12627.	2.0	22
61	Catalytic epoxidation by perrhenate through the formation of organic-phase supramolecular ion pairs. Chemical Communications, 2015, 51, 3399-3402.	4.1	20
62	Macrocyclic Platforms for the Construction of Tetranuclear Oxo and Hydroxo Zinc Clusters. Organometallics, 2015, 34, 2608-2613.	2.3	19
63	Benzoquinonoid-bridged dinuclear actinide complexes. Dalton Transactions, 2017, 46, 11615-11625.	3.3	18
64	Proton Chelating Ligands Drive Improved Chemical Separations for Rhodium. Inorganic Chemistry, 2019, 58, 8720-8734.	4.0	18
65	Equatorial ligand substitution by hydroxide in uranyl Pacman complexes of a Schiff-base pyrrole macrocycle. Dalton Transactions, 2010, 39, 3501.	3.3	17
66	Relativistic DFT and experimental studies of mono- and bis-actinyl complexes of an expanded Schiff-base polypyrrole macrocycle. Dalton Transactions, 2016, 45, 15910-15921.	3.3	15
67	Subtle Interactions and Electron Transfer between U^{III}, Np^{III}, or Pu^{III} and Uranyl Mediated by the Oxo Group. Angewandte Chemie, 2016, 128, 12989-12993.	2.0	15
68	Understanding the Recovery of Rare-Earth Elements by Ammonium Salts. Metals, 2018, 8, 465.	2.3	15
69	Synthesis and structures of anionic rhenium polyhydride complexes of boronâ€“hydride ligands and their application in catalysis. Chemical Science, 2020, 11, 9994-9999.	7.4	15
70	A Comparison of the Selectivity of Extraction of [PtCl6]2â€“ by Mono-, Bi-, and Tripodal Receptors That Address Its Outer Coordination Sphere. Inorganic Chemistry, 2016, 55, 6247-6260.	4.0	14
71	Mono- and Dinuclear Macrocyclic Calcium Complexes as Platforms for Mixed-Metal Complexes and Clusters. Inorganic Chemistry, 2016, 55, 840-847.	4.0	14
72	On the Extraction of HCl and H₂PtCl₆ by Tributyl Phosphate: A Mode of Action Study. Solvent Extraction and Ion Exchange, 2017, 35, 531-548.	2.0	14

#	Article	IF	Citations
73	Interactions of vanadium(<scp>iv</scp>) with amidoxime ligands: redox reactivity. Dalton Transactions, 2018, 47, 5695-5702.	3.3	14
74	Optimization of process parameters for the selective leaching of copper, nickel and isolation of gold from obsolete mobile phone PCBs. Cleaner Engineering and Technology, 2021, 4, 100180.	4.0	13
75	Triggering Redox Activity in a Thiophene Compound: Radical Stabilization and Coordination Chemistry. Angewandte Chemie - International Edition, 2017, 56, 7939-7943.	13.8	11
76	Earth-Abundant Mixed-Metal Catalysts for Hydrocarbon Oxygenation. Inorganic Chemistry, 2018, 57, 5915-5928.	4.0	11
77	Selective oxo ligand functionalisation and substitution reactivity in an oxo/catecholate-bridged U^{IV}/U^{IV} Pacman complex. Chemical Science, 2020, 11, 7144-7157.	7.4	11
78	Tantalum Recycling by Solvent Extraction: Chloride Is Better than Fluoride. Metals, 2020, 10, 346.	2.3	11
79	Câ€“H Borylation Catalysis of Heteroaromatics by a Rhenium Boryl Polyhydride. ACS Catalysis, 2021, 11, 7394-7400.	11.2	11
80	The Supramolecular and Coordination Chemistry of Cobalt(II) Extraction by Phosphinic Acids. European Journal of Inorganic Chemistry, 2018, 2018, 1511-1521.	2.0	10
81	EPR/ENDOR and Computational Study of Outer Sphere Interactions in Copper Complexes of Phenolic Oximes. Inorganic Chemistry, 2015, 54, 8465-8473.	4.0	9
82	Axially Symmetric Uâ˘’Oâ˘’Lnâ€•and Uâ˘’Oâ˘’Uâ€Containing Molecules from the Control of Uranyl Reduction with Simple fâ€Block Halides. Angewandte Chemie, 2017, 129, 10915-10919.	2.0	7
83	Isocyanide and Phosphine Oxide Coordination in Binuclear Chromium Pacman Complexes. Organometallics, 2013, 32, 6879-6882.	2.3	6
84	Inter- versus Intramolecular Structural Manipulation of a Dichromium(II) Pacman Complex through Pressure Variation. Inorganic Chemistry, 2016, 55, 214-220.	4.0	6
85	Synthesis and complexes of a constrained-cavity Schiff-base dipyrrin macrocycle. Dalton Transactions, 2021, 50, 1610-1613.	3.3	6
86	Selective recovery of nickel from obsolete mobile phone PCBs. Hydrometallurgy, 2022, 210, 105843.	4.3	6
87	Reducing the Competition: A Dual-Purpose Ionic Liquid for the Extraction of Gallium from Iron Chloride Solutions. Molecules, 2020, 25, 4047.	3.8	5
88	Simple Amides and Amines for the Synergistic Recovery of Rhodium from Hydrochloric Acid by Solvent Extraction. Chemistry - A European Journal, 2021, 27, 8714-8722.	3.3	5
89	Reactions facilitated by ligand design. Dalton Transactions, 2016, 45, 15700-15701.	3.3	4
90	Triggering Redox Activity in a Thiophene Compound: Radical Stabilization and Coordination Chemistry. Angewandte Chemie, 2017, 129, 8047-8051.	2.0	4

#	Article	IF	Citations
91	Radical Relatives: Facile Oxidation of Hetero-Diarylmethene Anions to Neutral Radicals. Inorganic Chemistry, 2018, 57, 9592-9600.	4.0	4
92	Co-extraction of Iron and Sulfate by Bis(2,4,4-trimethylpentyl)phosphinic Acid, CYANEXÂ®272. Solvent Extraction and Ion Exchange, 2020, 38, 328-339.	2.0	4
93	Exploring the Redox Properties of Bench-Stable Uranyl(VI) Diamidoâ€"Dipyrrin Complexes. Inorganic Chemistry, 2022, 61, 3249-3255.	4.0	4
94	Pressure-induced inclusion of neon in the crystal structure of a molecular Cu2(pacman) complex at 4.67 GPa. Chemical Communications, 2020, 56, 3449-3452.	4.1	2
95	Dalton Discussion 14 â€" Advancing the chemistry of the f-elements, 28â€"30 July 2014, Edinburgh. Dalton Transactions, 2015, 44, 2515-2516.	3.3	1
96	AppliedChem: Modern Challenges in the Chemical Sciences. AppliedChem, 2021, 1, 1-3.	1.0	0