Shawn C Burdette

List of Publications by Year
in descending order

66 papers	5,580 citations	304743 22 h-index	114465 63 g-index
76 all docs	76 docs citations	76 times ranked	6937 citing authors

#	Article	IF	Citations
1	Probing the Ni²⁺â€selective Response of Fluorescent Probe NiSensorâ€1 with the NiCast Photocaged Complex^{â€}^{â€¡}. Photochemistry and Photobiology, 2022, 98, 362-370.	2.5	3
2	Improved Photodecarboxylation Properties in Zinc Photocages Constructed Using <i>mâ€</i>Nitrophenylacetic Acid Variants**. ChemPhotoChem, 2022, 6, .	3.0	2
3	N,N,Nâ€²,Nâ€² â€Tetrakis(3â€isoquinolylmethyl)â€2,6â€lutidylenediamine (3â€isoTQLN): A Fluorescent Zn 2+ /Cd 2+ Dual Sensor as a Hybrid of 2â€Quinolyl/1â€Isoquionolyl Counterparts TQLN/1â€isoTQLN. European Journal of Inorganic Chemistry, 2021, 2021, 1287-1296.	2.0	4
4	Detection and Quantification of Tightly Bound Zn²⁺ in Blood Serum Using a Photocaged Chelator and a DNAzyme Fluorescent Sensor. Analytical Chemistry, 2021, 93, 5856-5861.	6.5	19
5	Coordination Chemistry of a Controlled Burst of Zn²⁺ in Bulk Aqueous and Nanosized Water Droplets with a Zincon Chelator. Inorganic Chemistry, 2020, 59, 184-188.	4.0	2
6	Zinc Photocages with Improved Photophysical Properties and Cell Permeability Imparted by Ternary Complex Formation. Journal of the American Chemical Society, 2019, 141, 12100-12108.	13.7	19
7	A Strategy for Trapping Molecular Guests in MOF-5 Utilizing Surface-Capping Groups. Crystal Growth and Design, 2019, 19, 6331-6338.	3.0	6
8	Seekers of the lost lanthanum. Nature Chemistry, 2019, 11, 188-188.	13.6	2
9	Detection of adsorbates on emissive MOF surfaces with X-ray photoelectron spectroscopy. Dalton Transactions, 2019, 48, 4520-4529.	3.3	13
10	MOF Decomposition and Introduction of Repairable Defects Using a Photodegradable Strut. Chemistry - A European Journal, 2019, 25, 8393-8400.	3.3	7
11	On-demand guest release from MOF-5 sealed with nitrophenylacetic acid photocapping groups. Photochemical and Photobiological Sciences, 2019, 18, 2849-2853.	2.9	3
12	Neutron stardust and the elements of Earth. Nature Chemistry, 2019, 11, 4-10.	13.6	7
13	The germination of germanium. Nature Chemistry, 2018, 10, 244-244.	13.6	3
14	Emissive Azobenzenes Delivered on a Silver Coordination Polymer. Inorganic Chemistry, 2018, 57, 15009-15022.	4.0	14
15	Hafnium the lutÃ©cium I used to be. Nature Chemistry, 2018, 10, 1074-1074.	13.6	1
16	Tritium trinkets. Nature Chemistry, 2018, 10, 686-686.	13.6	0
17	The neodymium neologism. Nature Chemistry, 2017, 9, 194-194.	13.6	5
18	Frantically forging fermium. Nature Chemistry, 2017, 9, 724-724.	13.6	0

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19	The zinc paradigm for metalloneurochemistry. Essays in Biochemistry, 2017, 61, 225-235.	4.7	18
20	Zn2+ at a cellular crossroads. Current Opinion in Chemical Biology, 2016, 31, 120-125.	6.1	29
21	Another four bricks in the wall. Nature Chemistry, 2016, 8, 283-288.	13.6	5
22	A Zinc(II) Photocage Based on a Decarboxylation Metal Ion Release Mechanism for Investigating Homeostasis and Biological Signaling. Angewandte Chemie - International Edition, 2015, 54, 13027-13031.	13.8	27
23	Key Considerations for Sensing FeIland FeIIIin Aqueous Media. European Journal of Inorganic Chemistry, 2015, 2015, 5728-5729.	2.0	8
24	Homely holmium. Nature Chemistry, 2015, 7, 532-532.	13.6	1
25	Crystal structure of (pyridine-ÎºN)bis(quinolin-2-olato-Îº2N,O)copper(II) monohydrate. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, m38-m39.	0.5	0
26	Nobelium non-believers. Nature Chemistry, 2014, 6, 652-652.	13.6	5
27	Isoquinoline-derivatized tris(2-pyridylmethyl)amines as fluorescent zinc sensors with strict Zn2+/Cd2+ selectivity. Dalton Transactions, 2014, 43, 10751.	3.3	32
28	Bis(2-quinolylmethyl)ethylenediaminediacetic acids (BQENDAs), TQENâ€"EDTA hybrid molecules as fluorescent zinc sensors. Dalton Transactions, 2014, 43, 10013.	3.3	20
29	8-TQEN (N,N,Nâ€²,Nâ€²-tetrakis(8-quinolylmethyl)ethylenediamine) analogs as fluorescent cadmium sensors: strategies to enhance Cd2+-induced fluorescence and Cd2+/Zn2+ selectivity. RSC Advances, 2014, 4, 12849.	3.6	19
30	Following the Ca2+ roadmap to photocaged complexes for Zn2+ and beyond. Current Opinion in Chemical Biology, 2013, 17, 137-142.	6.1	13
31	The straight dope on isotopes. Nature Chemistry, 2013, 5, 979-981.	13.6	5
32	Recalling radon's recognition. Nature Chemistry, 2013, 5, 804-804.	13.6	6
33	The ends of elements. Nature Chemistry, 2013, 5, 350-352.	13.6	11
34	Increasing the Dynamic Range of Metal Ion Affinity Changes in Zn²⁺ Photocages Using Multiple Nitrobenzyl Groups. Inorganic Chemistry, 2013, 52, 8483-8494.	4.0	12
35	Fluorescent Ratiometric Indicators Based on Cu(II)-Induced Changes in Poly(NIPAM) Microparticle Volume. Sensors, 2013, 13, 1341-1352.	3.8	10
36	Systematic Modulation of Hydrogen Bond Donors in Aminoazobenzene Derivatives Provides Further Evidence for the Concerted Inversion Photoisomerization Pathway. European Journal of Organic Chemistry, 2013, 2013, 4794-4803.	2.4	9

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37	Quantifying factors that influence metal ion release in photocaged complexes using ZinCast derivatives. Dalton Transactions, 2012, 41, 8162.	3.3	23
38	Intermolecular approach to metal ion indicators based on polymer phase transitions coupled to fluorescence resonance energy transfer. Analyst, The, 2012, 137, 4734.	3.5	15
39	CuproCleav-1, a first generation photocage for Cu+. Chemical Communications, 2012, 48, 5331.	4.1	23
40	Hydrazones double down on zinc. Nature Chemistry, 2012, 4, 695-696.	13.6	23
41	Photochemical Tools for Studying Metal Ion Signaling and Homeostasis. Biochemistry, 2012, 51, 7212-7224.	2.5	44
42	Photoisomerization in different classes of azobenzene. Chemical Society Reviews, 2012, 41, 1809-1825.	38.1	2,270
43	Understanding the Relationship Between Photolysis Efficiency and Metal Binding Using ArgenCast Photocages. Photochemistry and Photobiology, 2012, 88, 844-850.	2.5	7
44	A ratiometric fluorescent metal ion indicator based on dansyl labeled poly(N-isopropylacrylamide) responds to a quenching metal ion. Analyst, The, 2011, 136, 5006.	3.5	22
45	Iodination of anilines and phenols with 18-crown-6 supported ICl2âˆ’. Organic and Biomolecular Chemistry, 2011, 9, 2987.	2.8	6
46	Lighting Up Protons with MorphFl, a Fluoresceinâ€“Morpholine Dyad: An Experiment for the Organic Laboratory. Journal of Chemical Education, 2011, 88, 1569-1573.	2.3	4
47	Shortâ€Circuiting Azobenzene Photoisomerization with Electronâ€Donating Substituents and Reactivating the Photochemistry with Chemical Modification. European Journal of Organic Chemistry, 2011, 2011, 2916-2919.	2.4	10
48	A Secondâ€Generation Photocage for Zn²⁺ Inspired by TPEN: Characterization and Insight into the Uncaging Quantum Yields of ZinCleav Chelators. Chemistry - A European Journal, 2011, 17, 3932-3941.	3.3	28
49	Proof for the Concerted Inversion Mechanism in the <i>trans</i>â†’<i>cis</i> Isomerization of Azobenzene Using Hydrogen Bonding To Induce Isomer Locking. Journal of Organic Chemistry, 2010, 75, 4817-4827.	3.2	79
50	Buffering Heavy Metal Ions with Photoactive CrownCast Cages. European Journal of Inorganic Chemistry, 2010, 2010, 5069-5078.	2.0	18
51	FerriCast: A Macrocyclic Photocage for Fe³⁺. Inorganic Chemistry, 2010, 49, 916-923.	4.0	52
52	Probing Nitrobenzhydrol Uncaging Mechanisms Using FerriCast. Organic Letters, 2010, 12, 4486-4489.	4.6	25
53	FerriBRIGHT: A Rationally Designed Fluorescent Probe for Redox Active Metals. Journal of the American Chemical Society, 2009, 131, 8578-8586.	13.7	108
54	Photoinduced Release of Zn²⁺ with ZinCleav-1: a Nitrobenzyl-Based Caged Complex. Inorganic Chemistry, 2009, 48, 8445-8455.	4.0	45

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55	ZinCast-1: a photochemically active chelator for Zn2+. Chemical Communications, 2009, , 6967.	4.1	25
56	Methods for Preparing Metal Ion Photocages: Application to the Synthesis of CrownCast. Organic Letters, 2009, 11, 2587-2590.	4.6	23
57	trans-Platinum Reporting for Duty. Chemistry and Biology, 2006, 13, 465-467.	6.0	0
58	Method for identifying neuronal cells suffering zinc toxicity by use of a novel fluorescent sensor. Journal of Neuroscience Methods, 2004, 139, 79-89.	2.5	52
59	Bright Fluorescent Chemosensor Platforms for Imaging Endogenous Pools of Neuronal Zinc. Chemistry and Biology, 2004, 11, 203-210.	6.0	142
60	Synthesis and Characterization of Zinc Sensors Based on a Monosubstituted Fluorescein Platform. Inorganic Chemistry, 2004, 43, 2624-2635.	4.0	132
61	ZP4, an Improved Neuronal Zn2+Sensor of the Zinpyr Family. Journal of the American Chemical Society, 2003, 125, 1778-1787.	13.7	359
62	Meeting of the minds: Metalloneurochemistry. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3605-3610.	7.1	255
63	The Rhodafluor Family. An Initial Study of Potential Ratiometric Fluorescent Sensors for Zn2+. Inorganic Chemistry, 2002, 41, 6816-6823.	4.0	121
64	Fluorescent Sensors for Zn2+Based on a Fluorescein Platform:Â Synthesis, Properties and Intracellular Distribution. Journal of the American Chemical Society, 2001, 123, 7831-7841.	13.7	689
65	A New Cell-Permeable Fluorescent Probe for Zn2+. Journal of the American Chemical Society, 2000, 122, 5644-5645.	13.7	560
66	Alkali Metal Induced Rupture of a Phosphorusâˆ'Phosphorus Double Bond. Electrochemical and EPR Investigations of New Sterically Protected Diphosphenes and Radical Anions [ArPPAr]â€¢-. Organometallics, 1997, 16, 3395-3400.	2.3	63