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List of Publications by Year in descending order

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46
papers

4,780
citations

304743

22
h-index

243625

44
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46
all docs

46
docs citations

46
times ranked

5740
citing authors

#	ARTICLE	IF	CITATIONS
1	Metals in Neurobiology: Probing Their Chemistry and Biology with Molecular Imaging. <i>Chemical Reviews</i> , 2008, 108, 1517-1549.	47.7	1,873
2	Synthetic fluorescent sensors for studying the cell biology of metals. <i>Nature Chemical Biology</i> , 2008, 4, 168-175.	8.0	1,011
3	Responsive magnetic resonance imaging contrast agents as chemical sensors for metals in biology and medicine. <i>Chemical Society Reviews</i> , 2010, 39, 51-60.	38.1	237
4	Quantitative mapping of zinc fluxes in the mammalian egg reveals the origin of fertilization-induced zinc sparks. <i>Nature Chemistry</i> , 2015, 7, 130-139.	13.6	185
5	A Smart Magnetic Resonance Contrast Agent for Selective Copper Sensing. <i>Journal of the American Chemical Society</i> , 2006, 128, 15942-15943.	13.7	148
6	Biomimetic Aryl Hydroxylation Derived from Alkyl Hydroperoxide at a Nonheme Iron Center. Evidence for an FeIVO Oxidant. <i>Journal of the American Chemical Society</i> , 2003, 125, 2113-2128.	13.7	147
7	Copper-Responsive Magnetic Resonance Imaging Contrast Agents. <i>Journal of the American Chemical Society</i> , 2009, 131, 8527-8536.	13.7	139
8	The zinc spark is an inorganic signature of human egg activation. <i>Scientific Reports</i> , 2016, 6, 24737.	3.3	91
9	Exploiting Copper Redox for ¹⁹ F Magnetic Resonance-Based Detection of Cellular Hypoxia. <i>Journal of the American Chemical Society</i> , 2016, 138, 2937-2940.	13.7	76
10	Zinc sparks induce physiochemical changes in the egg zona pellucida that prevent polyspermy. <i>Integrative Biology (United Kingdom)</i> , 2017, 9, 135-144.	1.3	72
11	¹⁹ F Magnetic Resonance Activity-Based Sensing Using Paramagnetic Metals. <i>Accounts of Chemical Research</i> , 2020, 53, 2-10.	15.6	69
12	Fluxes in Free and Total Zinc Are Essential for Progression of Intraerythrocytic Stages of <i>Plasmodium falciparum</i> . <i>Chemistry and Biology</i> , 2012, 19, 731-741.	6.0	60
13	Hypoxia-Responsive ¹⁹ F MRI Probes with Improved Redox Properties and Biocompatibility. <i>Inorganic Chemistry</i> , 2017, 56, 6429-6437.	4.0	58
14	¹⁹ F PARASHIFT Probes for Magnetic Resonance Detection of H ₂ O ₂ and Peroxidase Activity. <i>Journal of the American Chemical Society</i> , 2018, 140, 10546-10552.	13.7	56
15	The fertilization-induced zinc spark is a novel biomarker of mouse embryo quality and early development. <i>Scientific Reports</i> , 2016, 6, 22772.	3.3	52
16	A copper-activated magnetic resonance imaging contrast agent with improved turn-on relaxivity response and anion compatibility. <i>Dalton Transactions</i> , 2010, 39, 469-476.	3.3	51
17	A cell-permeable gadolinium contrast agent for magnetic resonance imaging of copper in a Menkes disease model. <i>Chemical Science</i> , 2012, 3, 1829.	7.4	41
18	A Co ^{II} complex for ¹⁹ F MRI-based detection of reactive oxygen species. <i>Chemical Communications</i> , 2016, 52, 13885-13888.	4.1	41

#	ARTICLE	IF	CITATIONS
19	Visible Light Mediated Bidirectional Control over Carbonic Anhydrase Activity in Cells and <i>in Vivo</i> Using Azobenzenesulfonamides. <i>Journal of the American Chemical Society</i> , 2020, 142, 14522-14531.	13.7	40
20	Bovine eggs release zinc in response to parthenogenetic and sperm-induced egg activation. <i>Theriogenology</i> , 2019, 127, 41-48.	2.1	34
21	The inorganic anatomy of the mammalian preimplantation embryo and the requirement of zinc during the first mitotic divisions. <i>Developmental Dynamics</i> , 2015, 244, 935-947.	1.8	25
22	Alignment of low-dose X-ray fluorescence tomography images using differential phase contrast. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 229-234.	2.4	24
23	Copper(II) complexes for cysteine detection using ¹⁹ F magnetic resonance. <i>Dalton Transactions</i> , 2018, 47, 15024-15030.	3.3	23
24	Visualizing the Dynamic Metalation State of New Delhi Metallo-β-lactamase-1 in Bacteria Using a Reversible Fluorescent Probe. <i>Journal of the American Chemical Society</i> , 2021, 143, 8314-8323.	13.7	22
25	A dual-responsive probe for detecting cellular hypoxia using ¹⁹ F magnetic resonance and fluorescence. <i>Chemical Communications</i> , 2019, 55, 8860-8863.	4.1	21
26	Reversible Solid-State Isomerism of Azobenzene-Loaded Large-Pore Isorecticular Mg-CUK-1. <i>Journal of the American Chemical Society</i> , 2020, 142, 6467-6471.	13.7	18
27	Highly fluorinated metal complexes as dual ¹⁹ F and PARACEST imaging agents. <i>Dalton Transactions</i> , 2019, 48, 9337-9341.	3.3	16
28	Interrogating Intracellular Zinc Chemistry with a Long Stokes Shift Zinc Probe ZincBY-4. <i>Journal of the American Chemical Society</i> , 2019, 141, 16696-16705.	13.7	15
29	In Situ Photoregulation of Carbonic Anhydrase Activity Using Azobenzenesulfonamides. <i>Biochemistry</i> , 2019, 58, 48-53.	2.5	15
30	Hexadecyl-functionalized lamellar mesostructured silicates and aluminosilicates designed for polymer-clay nanocomposites. Part I. Clay synthesis and structure. <i>Polymer</i> , 2005, 46, 4421-4430.	3.8	14
31	Self-assembly of high-nuclearity lanthanide-based nanoclusters for potential bioimaging applications. <i>Nanoscale</i> , 2016, 8, 11123-11129.	5.6	14
32	Responsive fluorinated nanoemulsions for ¹⁹ F magnetic resonance detection of cellular hypoxia. <i>Dalton Transactions</i> , 2020, 49, 16419-16424.	3.3	13
33	Versatile Nickel(II) Scaffolds as Coordination-Induced Spin-State Switches for ¹⁹ F Magnetic Resonance-Based Detection. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22523-22530.	13.8	13
34	Harnessing chemical exchange: ¹⁹ F magnetic resonance OFF/ON zinc sensing with a Tm(III) complex. <i>Chemical Communications</i> , 2020, 56, 6257-6260.	4.1	13
35	Towards Ni(II) complexes with spin switches for ¹⁹ F MR-based pH sensing. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2019, 32, 89-96.	2.0	11
36	A new probe for detecting zinc-bound carbonic anhydrase in cell lysates and cells. <i>Chemical Communications</i> , 2018, 54, 5442-5445.	4.1	10

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37	Copper(II) Pyridyl Aminophenolates: Hypoxia-Selective, Nucleus-Targeting Cytotoxins, and Magnetic Resonance Probes. <i>Chemistry - A European Journal</i> , 2021, 27, 9839-9849.	3.3	10
38	Versatile Nickel(II) Scaffolds as Coordination-Induced Spin-State Switches for ¹⁹ F Magnetic Resonance-Based Detection. <i>Angewandte Chemie</i> , 2020, 132, 22712-22719.	2.0	6
39	Zinc as a Key Meiotic Cell-Cycle Regulator in the Mammalian Oocyte. , 2014, , 315-333.		4
40	Synthesis of lamellar isobutyl silicates and dispersion in polypropylene melts. <i>Journal of Applied Polymer Science</i> , 2007, 105, 1456-1465.	2.6	3
41	Pull-Down of Metalloproteins in Their Native States by Using Desthiobiotin-Based Probes. <i>ChemBioChem</i> , 2019, 20, 1003-1007.	2.6	3
42	Glutathione-mediated activation of a disulfide containing Fe ³⁺ complex. <i>Inorganica Chimica Acta</i> , 2019, 490, 139-143.	2.4	2
43	Structural insights into the design of reversible fluorescent probes for metallo- β -lactamases NDM-1, VIM-2, and IMP-1. <i>Journal of Inorganic Biochemistry</i> , 2022, 233, 111869.	3.5	2
44	Modulating extraction and retention of fluorinated β -diketonate metal complexes in perfluorocarbons through the use of non-fluorinated neutral ligands. <i>Inorganic Chemistry Frontiers</i> , 2021, 8, 4488-4496.	6.0	1
45	Visible luminescent Ln ₄₂ nanotorus coordination clusters. <i>Journal of Coordination Chemistry</i> , 2021, 74, 92-101.	2.2	1
46	1,5-Dibromo-2,4-bis[(2-bromophenyl)ethynyl]benzene. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2005, 61, o2894-o2895.	0.2	0