

Alexander Lippert

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

3,958
citations

218677

26
h-index

214800

47
g-index

56
all docs

56
docs citations

56
times ranked

4458
citing authors

#	ARTICLE	IF	CITATIONS
1	Reaction-Based Fluorescent Probes for Selective Imaging of Hydrogen Sulfide in Living Cells. <i>Journal of the American Chemical Society</i> , 2011, 133, 10078-10080.	13.7	713
2	Boronate Oxidation as a Bioorthogonal Reaction Approach for Studying the Chemistry of Hydrogen Peroxide in Living Systems. <i>Accounts of Chemical Research</i> , 2011, 44, 793-804.	15.6	694
3	A Reaction-Based Fluorescent Probe for Selective Imaging of Carbon Monoxide in Living Cells Using a Palladium-Mediated Carbonylation. <i>Journal of the American Chemical Society</i> , 2012, 134, 15668-15671.	13.7	383
4	Cell-trappable fluorescent probes for endogenous hydrogen sulfide signaling and imaging H ₂ O ₂ -dependent H ₂ S production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7131-7135.	7.1	344
5	A Chemoenzymatic Approach toward the Rapid and Sensitive Detection of O-GlcNAc Posttranslational Modifications. <i>Journal of the American Chemical Society</i> , 2003, 125, 16162-16163.	13.7	266
6	Lanthanide-based luminescent probes for selective time-gated detection of hydrogen peroxide in water and in living cells. <i>Chemical Communications</i> , 2010, 46, 7510.	4.1	109
7	In Vivo Chemiluminescent Imaging Agents for Nitroreductase and Tissue Oxygenation. <i>Analytical Chemistry</i> , 2016, 88, 4995-5002.	6.5	109
8	A chemiluminescent probe for cellular peroxynitrite using a self-immolative oxidative decarbonylation reaction. <i>Chemical Science</i> , 2018, 9, 2552-2558.	7.4	100
9	A Hydrogen Peroxide-Responsive Hyperpolarized ¹³ C MRI Contrast Agent. <i>Journal of the American Chemical Society</i> , 2011, 133, 3776-3779.	13.7	97
10	Designing reaction-based fluorescent probes for selective hydrogen sulfide detection. <i>Journal of Inorganic Biochemistry</i> , 2014, 133, 136-142.	3.5	96
11	Reaction-Based Luminescent Probes for Reactive Sulfur, Oxygen, and Nitrogen Species: Analytical Techniques and Recent Progress. <i>Analytical Chemistry</i> , 2020, 92, 309-326.	6.5	95
12	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1361-1365.	13.8	90
13	Stereoretentive Synthesis and Chemoselective Amide-Forming Ligations of C-Terminal Peptide α -Ketoacids. <i>Journal of the American Chemical Society</i> , 2008, 130, 4253-4255.	13.7	73
14	Characterization and Biological Activity of a Hydrogen Sulfide-Releasing Red Light-Activated Ruthenium(II) Complex. <i>Journal of the American Chemical Society</i> , 2018, 140, 12383-12387.	13.7	53
15	Synthesis of Phototrappable Shape-Shifting Molecules for Adaptive Guest Binding. <i>Journal of the American Chemical Society</i> , 2010, 132, 15790-15799.	13.7	50
16	Chemiluminescent 1,2-Dioxetane Iridium Complexes for Near-Infrared Oxygen Sensing. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	45
17	¹⁹ F magnetic resonance probes for live-cell detection of peroxynitrite using an oxidative decarbonylation reaction. <i>Chemical Communications</i> , 2014, 50, 12311-12314.	4.1	39
18	Ultrasensitive Chemiluminescent Detection of Cathepsin B: Insights into the New Frontier of Chemiluminescent Imaging. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 622-624.	13.8	39

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19	Unlocking the Potential of Chemiluminescence Imaging. <i>ACS Central Science</i> , 2017, 3, 269-271.	11.3	38
20	Kinetics-Based Measurement of Hypoxia in Living Cells and Animals Using an Acetoxymethyl Ester Chemiluminescent Probe. <i>ACS Sensors</i> , 2019, 4, 1391-1398.	7.8	38
21	Ratiometric pH Imaging Using a 1,2-Dioxetane Chemiluminescence Resonance Energy Transfer Sensor in Live Animals. <i>ACS Sensors</i> , 2020, 5, 2925-2932.	7.8	38
22	Seeking Illumination: The Path to Chemiluminescent 1,2-Dioxetanes for Quantitative Measurements and <i>In Vivo</i> Imaging. <i>Accounts of Chemical Research</i> , 2021, 54, 2844-2857.	15.6	38
23	Dynamic supramolecular complexation by shapeshifting organic molecules. <i>Organic and Biomolecular Chemistry</i> , 2009, 7, 1529.	2.8	35
24	A volumetric three-dimensional digital light photoactivatable dye display. <i>Nature Communications</i> , 2017, 8, 15239.	12.8	35
25	Chemiluminescent spiroadamantane-1,2-dioxetanes: Recent advances in molecular imaging and biomarker detection. <i>Current Opinion in Chemical Biology</i> , 2022, 68, 102134.	6.1	33
26	Ylide mediated carbonyl homologations for the preparation of isatin derivatives. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 406-409.	2.8	31
27	A chemiluminescent platform for smartphone monitoring of H ₂ O ₂ in human exhaled breath condensates. <i>Methods</i> , 2016, 109, 123-130.	3.8	30
28	A Chemiluminescent Probe for HNO Quantification and Real-Time Monitoring in Living Cells. <i>Angewandte Chemie</i> , 2019, 131, 1375-1379.	2.0	25
29	Chemiluminescent Measurement of Hydrogen Peroxide in the Exhaled Breath Condensate of Healthy and Asthmatic Adults. <i>Analytical Chemistry</i> , 2020, 92, 14594-14600.	6.5	25
30	Energy transfer chemiluminescence for ratiometric pH imaging. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 4176-4182.	2.8	24
31	Development of a Split Esterase for Protein-Protein Interaction-Dependent Small-Molecule Activation. <i>ACS Central Science</i> , 2019, 5, 1768-1776.	11.3	22
32	Azide-Based Fluorescent Probes. <i>Methods in Enzymology</i> , 2015, 554, 63-80.	1.0	18
33	Optimizing Targeted Inhibitors of P-Glycoprotein Using Computational and Structure-Guided Approaches. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 10645-10663.	6.4	17
34	Chemiluminescence Measurement of Reactive Sulfur and Nitrogen Species. <i>Antioxidants and Redox Signaling</i> , 2022, 36, 337-353.	5.4	17
35	Dark Dynamic Therapy: Photosensitization without Light Excitation Using Chemiluminescence Resonance Energy Transfer in a Dioxetane-Erythrosin B Conjugate. <i>ACS Chemical Biology</i> , 2022, 17, 1082-1091.	3.4	14
36	Boosting nitric oxide in stress and respiratory infection: Potential relevance for asthma and COVID-19. <i>Brain, Behavior, & Immunity - Health</i> , 2021, 14, 100255.	2.5	13

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37	Tuning the Photophysical Properties of Spirolactam Rhodamine Photoswitches. <i>Israel Journal of Chemistry</i> , 2021, 61, 244-252.	2.3	11
38	Sensitivity of salivary hydrogen sulfide to psychological stress and its association with exhaled nitric oxide and affect. <i>Physiology and Behavior</i> , 2017, 179, 99-104.	2.1	10
39	Defect formation and amorphization of Zn-MOF-74 crystals by post-synthetic interactions with bidentate adsorbates. <i>Journal of Materials Chemistry A</i> , 2021, 9, 19698-19704.	10.3	9
40	Degradable Silyl Ether-Containing Networks from Trifunctional Thiols and Acrylates. <i>Macromolecules</i> , 2020, 53, 9890-9900.	4.8	9
41	Photoactivatable 1,2-dioxetane chemiluminophores. <i>Results in Chemistry</i> , 2021, 3, 100106.	2.0	7
42	Chemiluminescent 1,2-Dioxetane Iridium Complexes for Near-Infrared Oxygen Sensing. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	7
43	Ultraempfindlicher Chemilumineszenznachweis von Cathepsin-B: aktueller Stand der modernen Chemilumineszenzbildgebung. <i>Angewandte Chemie</i> , 2018, 130, 630-632.	2.0	6
44	Imaging Mitochondrial Hydrogen Peroxide in Living Cells. <i>Methods in Molecular Biology</i> , 2015, 1264, 231-243.	0.9	5
45	Cross-linking Poly(caprolactone)-Polyamidoamine Linear Dendritic Block Copolymers for Theranostic Nanomedicine. <i>ACS Applied Polymer Materials</i> , 2022, 4, 2972-2986.	4.4	4
46	Visible Light Chemical Micropatterning Using a Digital Light Processing Fluorescence Microscope. <i>ACS Central Science</i> , 2022, 8, 67-76.	11.3	3
47	Expression of ABC Transporters in Multidrug Resistant Cancer Cell Lines. <i>FASEB Journal</i> , 2018, 32, 531.19.	0.5	1
48	Imaging in Living Cells. <i>Methods in Molecular Biology</i> , 2021, 2275, 127-140.	0.9	0
49	Mechanistic Studies of Drug-Like Inhibitors of P-glycoprotein using ATPase Assays, Electron Spin Resonance Spectroscopy and Cancer Cell Models. <i>FASEB Journal</i> , 2018, 32, 531.11.	0.5	0
50	In silico identified inhibitors of ABC transporters increase chemotherapy efficacy in multidrug resistant cancer cell culture models. <i>FASEB Journal</i> , 2018, 32, 531.9.	0.5	0
51	Novel Inhibitors of P-glycoprotein from <i>In Silico</i> Optimizations of Inhibitor SMU-29 using the <i>ChemGen</i> Program. <i>FASEB Journal</i> , 2018, 32, 531.10.	0.5	0
52	Novel inhibitors of ABC transporters increase accumulation of transport substrates in multidrug resistant cancer cells and blood brain barrier cells. <i>FASEB Journal</i> , 2019, 33, 675.16.	0.5	0