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List of Publications by Year
in descending order

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65 papers	5,552 citations	94381 37 h-index	118793 62 g-index
71 all docs	71 docs citations	71 times ranked	6975 citing authors

#	Article	IF	Citations
1	Targeted contrast agents and activatable probes for photoacoustic imaging of cancer. Chemical Society Reviews, 2022, 51, 829-868.	18.7	58
2	Activity-Based NIR Bioluminescence Probe Enables Discovery of Diet-Induced Modulation of the Tumor Microenvironment via Nitric Oxide. ACS Central Science, 2022, 8, 461-472.	5.3	14
3	Fortschritte bei aktivitÃtsbasierten Sonden fÃ¼r die isoformselektive Bildgebung enzymatischer AktivitÃt. Angewandte Chemie, 2021, 133, 5052-5062.	1.6	10
4	Advances in Activityâ€Based Sensing Probes for Isoformâ€Selective Imaging of Enzymatic Activity. Angewandte Chemie - International Edition, 2021, 60, 5000-5009.	7.2	50
5	New directions of activity-based sensing for in vivo NIR imaging. Chemical Science, 2021, 12, 3393-3405.	3.7	63
6	Near-infrared II photoacoustic probes for nitric oxide sensing. Methods in Enzymology, 2021, 657, 157-180.	0.4	1
7	A general strategy to optimize the performance of aza-BODIPY-based probes for enhanced photoacoustic properties. Methods in Enzymology, 2021, 657, 415-441.	0.4	0
8	Development of NIR-II Photoacoustic Probes Tailored for Deep-Tissue Sensing of Nitric Oxide. Journal of the American Chemical Society, 2021, 143, 7196-7202.	6.6	97
9	A General Approach to Convert Hemicyanine Dyes into Highly Optimized Photoacoustic Scaffolds for Analyte Sensing**. Angewandte Chemie, 2021, 133, 19008-19014.	1.6	11
10	A General Approach to Convert Hemicyanine Dyes into Highly Optimized Photoacoustic Scaffolds for Analyte Sensing**. Angewandte Chemie - International Edition, 2021, 60, 18860-18866.	7.2	64
11	Acoustogenic Probes: A Demonstration to Introduce the Photoacoustic Effect via Analyte Sensing. Journal of Chemical Education, 2021, 98, 2618-2624.	1.1	3
12	Thienylpiperidine Donor NIR Xanthene-Based Dye for Photoacoustic Imaging. Organic Letters, 2021, 23, 7640-7644.	2.4	15
13	Activity-based photoacoustic probe for biopsy-free assessment of copper in murine models of Wilsonâ€™s disease and liver metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
14	Photoacoustic imaging of elevated glutathione in models of lung cancer for companion diagnostic applications. Nature Chemistry, 2021, 13, 1248-1256.	6.6	93
15	An Activityâ€Based Sensing Approach for the Detection of Cyclooxygenaseâ€2 in Live Cells. Angewandte Chemie, 2020, 132, 3333-3340.	1.6	17
16	Rational Design of a Red Fluorescent Sensor for ALDH1A1 Displaying Enhanced Cellular Uptake and Reactivity. Bioconjugate Chemistry, 2020, 31, 224-228.	1.8	15
17	Imaging the Landmarks of Vascular Recovery. Theranostics, 2020, 10, 1733-1745.	4.6	8
18	A Photoactivatable Formaldehyde Donor with Fluorescence Monitoring Reveals Threshold To Arrest Cell Migration. Journal of the American Chemical Society, 2020, 142, 680-684.	6.6	25

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19	Nitric oxide imaging in cancer enabled by steric relaxation of a photoacoustic probe platform. Chemical Science, 2020, 11, 1587-1592.	3.7	56
20	An Activityâ€Based Sensing Approach for the Detection of Cyclooxygenaseâ€2 in Live Cells. Angewandte Chemie - International Edition, 2020, 59, 3307-3314.	7.2	41
21	Acoustic-based chemical tools for profiling the tumor microenvironment. Current Opinion in Chemical Biology, 2020, 57, 114-121.	2.8	19
22	Near-infrared photoactivatable nitric oxide donors with photoacoustic readout. Methods in Enzymology, 2020, 641, 113-147.	0.4	3
23	Activityâ€Based Sensing of Ascorbate by Using Copperâ€Mediated Oxidative Bond Cleavage. Chemistry - A European Journal, 2020, 26, 8794-8800.	1.7	3
24	Biodegradable Biliverdin Nanoparticles for Efficient Photoacoustic Imaging. ACS Nano, 2019, 13, 7690-7704.	7.3	51
25	A Conformationally Restricted Aza-BODIPY Platform for Stimulus-Responsive Probes with Enhanced Photoacoustic Properties. Journal of the American Chemical Society, 2019, 141, 17601-17609.	6.6	96
26	Simultaneous photoacoustic imaging of intravascular and tissue oxygenation. Optics Letters, 2019, 44, 3773.	1.7	44
27	Photophysical Tuning of N-Oxide-Based Probes Enables Ratiometric Photoacoustic Imaging of Tumor Hypoxia. ACS Chemical Biology, 2018, 13, 1838-1843.	1.6	70
28	A Ratiometric Acoustogenic Probe for in Vivo Imaging of Endogenous Nitric Oxide. Journal of the American Chemical Society, 2018, 140, 1011-1018.	6.6	172
29	Damage-Responsive Microcapsules for Amplified Photoacoustic Detection of Microcracks in Polymers. Chemistry of Materials, 2018, 30, 2198-2202.	3.2	18
30	Development of Photoacoustic Probes for in Vivo Molecular Imaging. Biochemistry, 2018, 57, 194-199.	1.2	82
31	Acoustogenic Probes: A New Frontier in Photoacoustic Imaging. Accounts of Chemical Research, 2018, 51, 2897-2905.	7.6	116
32	Near-Infrared Photoactivatable Nitric Oxide Donors with Integrated Photoacoustic Monitoring. Journal of the American Chemical Society, 2018, 140, 11686-11697.	6.6	153
33	Surveillance of Cancer Stem Cell Plasticity Using an Isoform-Selective Fluorescent Probe for Aldehyde Dehydrogenase 1A1. ACS Central Science, 2018, 4, 1045-1055.	5.3	39
34	Copper regulates rest-activity cycles through the locus coeruleus-norepinephrine system. Nature Chemical Biology, 2018, 14, 655-663.	3.9	93
35	DNA Aptamer-Based Activatable Probes for Photoacoustic Imaging in Living Mice. Journal of the American Chemical Society, 2017, 139, 17225-17228.	6.6	136
36	A PGAM5-KEAP1-Nrf2 complex is required for stress-induced mitochondrial retrograde trafficking. Journal of Cell Science, 2017, 130, 3467-3480.	1.2	66

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37	Bright Dyes Bring Biology into Focus. ACS Central Science, 2017, 3, 920-921.	5.3	0
38	NitroxylFluor: A Thiol-Based Fluorescent Probe for Live-Cell Imaging of Nitroxyl. Journal of the American Chemical Society, 2017, 139, 18476-18479.	6.6	59
39	A bioreducible N-oxide-based probe for photoacoustic imaging of hypoxia. Nature Communications, 2017, 8, 1794.	5.8	177
40	Host and Pathogen Copper-Transporting P-Type ATPases Function Antagonistically during Salmonella Infection. Infection and Immunity, 2017, 85, .	1.0	54
41	The Intestinal Copper Exporter CUA-1 Is Required for Systemic Copper Homeostasis in Caenorhabditis elegans. Journal of Biological Chemistry, 2017, 292, 1-14.	1.6	31
42	Copper regulates cyclic-AMP-dependent lipolysis. Nature Chemical Biology, 2016, 12, 586-592.	3.9	149
43	Photoacoustic Probes for Ratiometric Imaging of Copper(II). Journal of the American Chemical Society, 2015, 137, 15628-15631.	6.6	200
44	Transition-state structure for the hydronium-ion-promoted hydrolysis of Î±-<scp>d</scp>-glucopyranosyl fluoride. Canadian Journal of Chemistry, 2015, 93, 463-467.	0.6	6
45	Disease Modeling and Gene Therapy of Copper Storage Disease in Canine Hepatic Organoids. Stem Cell Reports, 2015, 5, 895-907.	2.3	84
46	A Reaction-Based Fluorescent Probe for Imaging of Formaldehyde in Living Cells. Journal of the American Chemical Society, 2015, 137, 10890-10893.	6.6	200
47	Peptidoglycan Recognition Proteins Kill Bacteria by Inducing Oxidative, Thiol, and Metal Stress. PLoS Pathogens, 2014, 10, e1004280.	2.1	85
48	Copper is an endogenous modulator of neural circuit spontaneous activity. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16280-16285.	3.3	118
49	Making light of stress. Nature Biotechnology, 2014, 32, 337-338.	9.4	1
50	The multiple antibiotic resistance regulator MarR is a copper sensor in Escherichia coli. Nature Chemical Biology, 2014, 10, 21-28.	3.9	128
51	Subcellular metal imaging identifies dynamic sites of Cu accumulation in Chlamydomonas. Nature Chemical Biology, 2014, 10, 1034-1042.	3.9	143
52	Transition-State Structure for the Quintessential S_N2 Reaction of a Carbohydrate: Reaction of Î±-Glucopyranosyl Fluoride with Azide Ion in Water. Journal of the American Chemical Society, 2014, 136, 12225-12228.	6.6	37
53	Copper transporter 2 regulates intracellular copper and sensitivity to cisplatin. Metallomics, 2014, 6, 654.	1.0	45
54	Wilson Disease Protein ATP7B Utilizes Lysosomal Exocytosis to Maintain Copper Homeostasis. Developmental Cell, 2014, 29, 686-700.	3.1	203

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55	Molecular Imaging of Labile Iron(II) Pools in Living Cells with a Turn-On Fluorescent Probe. Journal of the American Chemical Society, 2013, 135, 15165-15173.	6.6	154
56	Metabolism of Vertebrate Amino Sugars with N-Glycolyl Groups. Journal of Biological Chemistry, 2012, 287, 28882-28897.	1.6	23
57	Reaction-based small-molecule fluorescent probes for chemoselective bioimaging. Nature Chemistry, 2012, 4, 973-984.	6.6	1,630
58	Enzymology of Influenza Virus Sialidase. , 2012, , 47-66.		1
59	Bacterial and Viral Sialidases: Contribution of the Conserved Active Site Glutamate to Catalysis. Biochemistry, 2012, 51, 433-441.	1.2	14
60	Transition State Analysis ofVibrio choleraeSialidase-Catalyzed Hydrolyses of Natural Substrate Analogues. Journal of the American Chemical Society, 2012, 134, 3748-3757.	6.6	16
61	A Stepwise Solvent-Promoted SNi Reaction of Î±-d-Glucopyranosyl Fluoride: Mechanistic Implications for Retaining Glycosyltransferases. Journal of the American Chemical Society, 2012, 134, 1212-1220.	6.6	53
62	Turnover Is Rate-Limited by Deglycosylation for Micromonospora viridifaciens Sialidase-Catalyzed Hydrolyses: Conformational Implications for the Michaelis Complex. Journal of the American Chemical Society, 2011, 133, 2989-2997.	6.6	21
63	A mechanistic study of sialic acid mutarotation: Implications for mutarotase enzymes. Organic and Biomolecular Chemistry, 2011, 9, 4818.	1.5	8
64	The Aspergillus fumigatus Sialidase Is a 3-Deoxy-d-glycero-d-galacto-2-nonulosonic Acid Hydrolase (KDNase). Journal of Biological Chemistry, 2011, 286, 10783-10792.	1.6	25
65	A direct NMR method for the measurement of competitive kinetic isotope effects. Nature Chemical Biology, 2010, 6, 405-407.	3.9	60