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List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/9163247/publications.pdf

Version: 2024-02-01

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

#	Article	IF	CITATIONS
1	Reaction-based small-molecule fluorescent probes for chemoselective bioimaging. Nature Chemistry, 2012, 4, 973-984.	6.6	1,630
2	Wilson Disease Protein ATP7B Utilizes Lysosomal Exocytosis to Maintain Copper Homeostasis. Developmental Cell, 2014, 29, 686-700.	3.1	203
3	Photoacoustic Probes for Ratiometric Imaging of Copper(II). Journal of the American Chemical Society, 2015, 137, 15628-15631.	6.6	200
4	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
5	A bioreducible N-oxide-based probe for photoacoustic imaging of hypoxia. Nature Communications, 2017, 8, 1794.	5.8	177
6	A Ratiometric Acoustogenic Probe for <i>in Vivo</i> Imaging of Endogenous Nitric Oxide. Journal of the American Chemical Society, 2018, 140, 1011-1018.	6.6	172
7	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
8	Near-Infrared Photoactivatable Nitric Oxide Donors with Integrated Photoacoustic Monitoring. Journal of the American Chemical Society, 2018, 140, 11686-11697.	6.6	153
9	Copper regulates cyclic-AMP-dependent lipolysis. Nature Chemical Biology, 2016, 12, 586-592.	3.9	149
10	Subcellular metal imaging identifies dynamic sites of Cu accumulation in Chlamydomonas. Nature Chemical Biology, 2014, 10, 1034-1042.	3.9	143
11	DNA Aptamer-Based Activatable Probes for Photoacoustic Imaging in Living Mice. Journal of the American Chemical Society, 2017, 139, 17225-17228.	6.6	136
12	The multiple antibiotic resistance regulator MarR is a copper sensor in Escherichia coli. Nature Chemical Biology, 2014, 10, 21-28.	3.9	128
13	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
14	Acoustogenic Probes: A New Frontier in Photoacoustic Imaging. Accounts of Chemical Research, 2018, 51, 2897-2905.	7.6	116
15	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
16	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
17	Copper regulates rest-activity cycles through the locus coeruleus-norepinephrine system. Nature Chemical Biology, 2018, 14, 655-663.	3.9	93
18	Photoacoustic imaging of elevated glutathione in models of lung cancer for companion diagnostic applications. Nature Chemistry, 2021, 13, 1248-1256.	6.6	93

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19	Peptidoglycan Recognition Proteins Kill Bacteria by Inducing Oxidative, Thiol, and Metal Stress. PLoS Pathogens, 2014, 10, e1004280.	2.1	85
20	Disease Modeling and Gene Therapy of Copper Storage Disease in Canine Hepatic Organoids. Stem Cell Reports, 2015, 5, 895-907.	2.3	84
21	Development of Photoacoustic Probes for <i>in Vivo</i> Molecular Imaging. Biochemistry, 2018, 57, 194-199.	1.2	82
22	Photophysical Tuning of <i>N</i> -Oxide-Based Probes Enables Ratiometric Photoacoustic Imaging of Tumor Hypoxia. ACS Chemical Biology, 2018, 13, 1838-1843.	1.6	70
23	A PGAM5-KEAP1-Nrf2 complex is required for stress-induced mitochondrial retrograde trafficking. Journal of Cell Science, 2017, 130, 3467-3480.	1.2	66
24	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
25	New directions of activity-based sensing for <i>in vivo</i> NIR imaging. Chemical Science, 2021, 12, 3393-3405.	3.7	63
26	A direct NMR method for the measurement of competitive kinetic isotope effects. Nature Chemical Biology, 2010, 6, 405-407.	3.9	60
27	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
28	Targeted contrast agents and activatable probes for photoacoustic imaging of cancer. Chemical Society Reviews, 2022, 51, 829-868.	18.7	58
29	Nitric oxide imaging in cancer enabled by steric relaxation of a photoacoustic probe platform. Chemical Science, 2020, 11, 1587-1592.	3.7	56
30	Host and Pathogen Copper-Transporting P-Type ATPases Function Antagonistically during Salmonella Infection. Infection and Immunity, 2017, 85, .	1.0	54
31	A Stepwise Solvent-Promoted SNi Reaction of $\hat{l}\pm -d$ -Glucopyranosyl Fluoride: Mechanistic Implications for Retaining Glycosyltransferases. Journal of the American Chemical Society, 2012, 134, 1212-1220.	6.6	53
32	Biodegradable Biliverdin Nanoparticles for Efficient Photoacoustic Imaging. ACS Nano, 2019, 13, 7690-7704.	7.3	51
33	Advances in Activityâ€Based Sensing Probes for Isoformâ€Selective Imaging of Enzymatic Activity. Angewandte Chemie - International Edition, 2021, 60, 5000-5009.	7.2	50
34	Copper transporter 2 regulates intracellular copper and sensitivity to cisplatin. Metallomics, 2014, 6, 654.	1.0	45
35	Simultaneous photoacoustic imaging of intravascular and tissue oxygenation. Optics Letters, 2019, 44, 3773.	1.7	44
36	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

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37	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
38	Transition-State Structure for the Quintessential S _N 2 Reaction of a Carbohydrate: Reaction of α-Glucopyranosyl Fluoride with Azide Ion in Water. Journal of the American Chemical Society, 2014, 136, 12225-12228.	6.6	37
39	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
40	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
41	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
42	Metabolism of Vertebrate Amino Sugars with N-Glycolyl Groups. Journal of Biological Chemistry, 2012, 287, 28882-28897.	1.6	23
43	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
44	Acoustic-based chemical tools for profiling the tumor microenvironment. Current Opinion in Chemical Biology, 2020, 57, 114-121.	2.8	19
45	Damage-Responsive Microcapsules for Amplified Photoacoustic Detection of Microcracks in Polymers. Chemistry of Materials, 2018, 30, 2198-2202.	3.2	18
46	Activity-based photoacoustic probe for biopsy-free assessment of copper in murine models of Wilson $\hat{a} \in \mathbb{N}$ disease and liver metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	18
47	An Activityâ€Based Sensing Approach for the Detection of Cyclooxygenaseâ€2 in Live Cells. Angewandte Chemie, 2020, 132, 3333-3340.	1.6	17
48	Transition State Analysis of Vibrio cholerae Sialidase-Catalyzed Hydrolyses of Natural Substrate Analogues. Journal of the American Chemical Society, 2012, 134, 3748-3757.	6.6	16
49	Rational Design of a Red Fluorescent Sensor for ALDH1A1 Displaying Enhanced Cellular Uptake and Reactivity. Bioconjugate Chemistry, 2020, 31, 224-228.	1.8	15
50	Thienylpiperidine Donor NIR Xanthene-Based Dye for Photoacoustic Imaging. Organic Letters, 2021, 23, 7640-7644.	2.4	15
51	Bacterial and Viral Sialidases: Contribution of the Conserved Active Site Glutamate to Catalysis. Biochemistry, 2012, 51, 433-441.	1.2	14
52	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
53	A General Approach to Convert Hemicyanine Dyes into Highly Optimized Photoacoustic Scaffolds for Analyte Sensing**. Angewandte Chemie, 2021, 133, 19008-19014.	1.6	11
54	Fortschritte bei aktivitÄtsbasierten Sonden fļr die isoformselektive Bildgebung enzymatischer AktivitÄt Angewandte Chemie, 2021, 133, 5052-5062.	1.6	10

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55	A mechanistic study of sialic acid mutarotation: Implications for mutarotase enzymes. Organic and Biomolecular Chemistry, 2011, 9, 4818.	1.5	8
56	Imaging the Landmarks of Vascular Recovery. Theranostics, 2020, 10, 1733-1745.	4.6	8
57	Transition-state structure for the hydronium-ion-promoted hydrolysis of α- <scp>d</scp> -glucopyranosyl fluoride. Canadian Journal of Chemistry, 2015, 93, 463-467.	0.6	6
58	Near-infrared photoactivatable nitric oxide donors with photoacoustic readout. Methods in Enzymology, 2020, 641, 113-147.	0.4	3
59	Activityâ€Based Sensing of Ascorbate by Using Copperâ€Mediated Oxidative Bond Cleavage. Chemistry - A European Journal, 2020, 26, 8794-8800.	1.7	3
60	Acoustogenic Probes: A Demonstration to Introduce the Photoacoustic Effect <i>via</i> Analyte Sensing. Journal of Chemical Education, 2021, 98, 2618-2624.	1.1	3
61	Enzymology of Influenza Virus Sialidase. , 2012, , 47-66.		1
62	Making light of stress. Nature Biotechnology, 2014, 32, 337-338.	9.4	1
63	Near-infrared II photoacoustic probes for nitric oxide sensing. Methods in Enzymology, 2021, 657, 157-180.	0.4	1
64	Bright Dyes Bring Biology into Focus. ACS Central Science, 2017, 3, 920-921.	5.3	0
65	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	O