Yangping Liu

List of Publications by Year
in descending order

58 papers	1,987 citations	201674 27 h-index	254184 43 g-index
60 all docs	60 docs citations	60 times ranked	1901 citing authors

#	Article	IF	Citations
1	Pulsed ESR Dipolar Spectroscopy for Distance Measurements in Immobilized Spin Labeled Proteins in Liquid Solution. Journal of the American Chemical Society, 2012, 134, 9950-9952.	13.7	179
2	Efficient Dynamic Nuclear Polarization at 800â€…MHz/527â€…GHz with Tritylâ€Nitroxide Biradicals. Angewandte Chemie - International Edition, 2015, 54, 11770-11774.	13.8	172
3	Chiral Carbon Dots Mimicking Topoisomeraseâ€…I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. Angewandte Chemie - International Edition, 2020, 59, 11087-11092.	13.8	100
4	Efficient cross-effect dynamic nuclear polarization without depolarization in high-resolution MAS NMR. Chemical Science, 2017, 8, 8150-8163.	7.4	76
5	Targeted delivery of nitric oxide via a â€˜bump-and-holeâ€™-based enzymeâ€“prodrug pair. Nature Chemical Biology, 2019, 15, 151-160.	8.0	76
6	Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. Biomaterials, 2018, 162, 109-122.	11.4	72
7	Synthesis and Characterization of Ester-Derivatized Tetrathiatriarylmethyl Radicals as Intracellular Oxygen Probes. Journal of Organic Chemistry, 2008, 73, 1490-1497.	3.2	62
8	Characterization of the binding of the Finland trityl radical with bovine serum albumin. RSC Advances, 2014, 4, 47649-47656.	3.6	59
9	Synthesis of ¹⁴N- and ¹⁵N-labeled Trityl-nitroxide Biradicals with Strong Spinâ€“Spin Interaction and Improved Sensitivity to Redox Status and Oxygen. Journal of Organic Chemistry, 2010, 75, 7796-7802.	3.2	58
10	Trityl-nitroxide biradicals as unique molecular probes for the simultaneous measurement of redox status and oxygenation. Chemical Communications, 2010, 46, 628-630.	4.1	58
11	Esterified trityl radicals as intracellular oxygen probes. Free Radical Biology and Medicine, 2009, 46, 876-883.	2.9	55
12	In-Cell Tritylâ€“Trityl Distance Measurements on Proteins. Journal of Physical Chemistry Letters, 2020, 11, 1141-1147.	4.6	55
13	Fast Reactivity of a Cyclic Nitroneâ€“Calix[4]pyrrole Conjugate with Superoxide Radical Anion: Theoretical and Experimental Studies. Journal of the American Chemical Society, 2010, 132, 17157-17173.	13.7	50
14	Structural Factors Controlling the Spinâ€“Spin Exchange Coupling: EPR Spectroscopic Studies of Highly Asymmetric Tritylâ€“Nitroxide Biradicals. Journal of the American Chemical Society, 2013, 135, 2350-2356.	13.7	46
15	Highly stable dendritic trityl radicals as oxygen and pH probe. Chemical Communications, 2008, , 4336.	4.1	45
16	An Injectable Dualâ€Function Hydrogel Protects Against Myocardial Ischemia/Reperfusion Injury by Modulating ROS/NO Disequilibrium. Advanced Science, 2022, 9, e2105408.	11.2	45
17	Tetrathiatriarylmethyl radical with a single aromatic hydrogen as a highly sensitive and specific superoxide probe. Free Radical Biology and Medicine, 2012, 53, 2081-2091.	2.9	43
18	New photostable naphthalimide-based fluorescent probe for mitochondrial imaging and tracking. Biosensors and Bioelectronics, 2015, 71, 313-321.	10.1	41

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19	A near-infrared ratiometric/turn-on fluorescent probe for inÂvivo imaging of hydrogen peroxide in a murine model of acute inflammation. Analytica Chimica Acta, 2018, 1024, 169-176.	5.4	41
20	Synthesis of Trityl Radical-Conjugated Disulfide Biradicals for Measurement of Thiol Concentration. Journal of Organic Chemistry, 2011, 76, 3853-3860.	3.2	38
21	DEER distance measurements on trityl/trityl and Gd(<scp>iii</scp>)/trityl labelled proteins. Physical Chemistry Chemical Physics, 2019, 21, 10217-10227.	2.8	38
22	Copper-Catalyzed Trifluoromethylation of Ynones Coupled with Dearomatizing Spirocyclization of Indoles: Access to CF₃-Containing Spiro[cyclopentane-1,3â€²-indole]. Organic Letters, 2020, 22, 3291-3296.	4.6	38
23	Diastereoisomers of <scp>l</scp>-proline-linked trityl-nitroxide biradicals: synthesis and effect of chiral configurations on exchange interactions. Chemical Science, 2018, 9, 4381-4391.	7.4	33
24	Lipophilic Î²-Cyclodextrin Cyclicâ^'Nitrone Conjugate: Synthesis and Spin Trapping Studies. Journal of Organic Chemistry, 2009, 74, 5369-5380.	3.2	32
25	Esterified Dendritic TAM Radicals with Very High Stability and Enhanced Oxygen Sensitivity. Journal of Organic Chemistry, 2013, 78, 1371-1376.	3.2	30
26	Postmodification via Thiol-Click Chemistry Yields Hydrophilic Trityl-Nitroxide Biradicals for Biomolecular High-Field Dynamic Nuclear Polarization. Journal of Physical Chemistry B, 2020, 124, 9047-9060.	2.6	30
27	Two radical-dependent mechanisms for anaerobic degradation of the globally abundant organosulfur compound dihydroxypropanesulfonate. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15599-15608.	7.1	29
28	Superoxide Radical Anion Adduct of 5,5-Dimethyl-1-pyrroline N-Oxide. 4. Conformational Effects on the EPR Hyperfine Splitting Constants. Journal of Physical Chemistry A, 2008, 112, 12607-12615.	2.5	26
29	Synthesis and Characterization of PEGylated Trityl Radicals: Effect of PEGylation on Physicochemical Properties. Journal of Organic Chemistry, 2017, 82, 588-596.	3.2	25
30	A 1,8-naphthalimide-based fluorescent probe for selective and sensitive detection of peroxynitrite and its applications in living cell imaging. RSC Advances, 2017, 7, 34287-34292.	3.6	25
31	Chiral Carbon Dots Mimicking Topoisomeraseâ€…I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. Angewandte Chemie, 2020, 132, 11180-11185.	2.0	25
32	Gut Microbiota in NSAID Enteropathy: New Insights From Inside. Frontiers in Cellular and Infection Microbiology, 2021, 11, 679396.	3.9	23
33	A mitochondria-targeted nitric oxide donor triggered by superoxide radical to alleviate myocardial ischemia/reperfusion injury. Chemical Communications, 2019, 55, 1205-1208.	4.1	18
34	Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. Angewandte Chemie - International Edition, 2020, 59, 928-934.	13.8	18
35	COMP (Cartilage Oligomeric Matrix Protein), a Novel PIEZO1 Regulator That Controls Blood Pressure. Hypertension, 2022, 79, 549-561.	2.7	17
36	Synthesis and Characterization of Hydrophilic Trityl Radical TFO for Biomedical and Biophysical Applications. Chemistry - A European Journal, 2019, 25, 7888-7895.	3.3	16

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37	Access to CF₃â€Containing Cyclopentaquinolinone Derivatives from Indolylâ€ynones via Silverâ€Catalyzed Oneâ€pot Reaction. Advanced Synthesis and Catalysis, 2019, 361, 678-682.	4.3	16
38	Highly Efficient Tritylâ€Nitroxide Biradicals for Biomolecular Highâ€Field Dynamic Nuclear Polarization. Chemistry - A European Journal, 2021, 27, 12758-12762.	3.3	16
39	Phosphinate-based mitochondria-targeted fluorescent probe for imaging and detection of endogenous superoxide in live cells and in vivo. Talanta, 2019, 197, 239-248.	5.5	15
40	Thiol-Dependent Reduction of the Triester and Triamide Derivatives of Finland Trityl Radical Triggers O₂-Dependent Superoxide Production. Chemical Research in Toxicology, 2017, 30, 1664-1672.	3.3	14
41	Rational design of near-infrared fluorescent probes for superoxide anion radical: Enhancement of self-stability and sensitivity by self-immolative linker. Free Radical Biology and Medicine, 2021, 167, 36-44.	2.9	12
42	Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. Chemistry - A European Journal, 2018, 24, 6958-6967.	3.3	11
43	Highly sensitive free radical detection by nitrone-functionalized gold nanoparticles. Nanoscale, 2014, 6, 1646-1652.	5.6	10
44	Supramolecular hostâ€“guest interaction of trityl-nitroxide biradicals with cyclodextrins: modulation of spinâ€“spin interaction and redox sensitivity. Organic and Biomolecular Chemistry, 2016, 14, 1694-1701.	2.8	8
45	A gene cluster for taurine sulfur assimilation in an anaerobic human gut bacterium. Biochemical Journal, 2019, 476, 2271-2279.	3.7	7
46	Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. Angewandte Chemie, 2020, 132, 938-944.	2.0	6
47	Intracellular delivery of liposome-encapsulated Finland trityl radicals for EPR oximetry. Analyst, The, 2020, 145, 4964-4971.	3.5	6
48	Ironâ€catalyzed Alkene Trifluoromethylation in Tandem with Phenol Dearomatizing Spirocyclization: Regioselective Construction of the Trifluoromethylated Spirocarbocycles. Advanced Synthesis and Catalysis, 0, , .	4.3	6
49	Synthesis of Central Chirality-Containing Triarylmethanols and Triarylmethyl Radicals with Extraordinarily Stable Configurations. Journal of Organic Chemistry, 2019, 84, 11774-11782.	3.2	5
50	Synthesis and Redox Properties of Water-Soluble Asymmetric Trityl Radicals. Journal of Organic Chemistry, 2021, 86, 8351-8364.	3.2	5
51	Uniform spinning sampling gradient electron paramagnetic resonance imaging. Magnetic Resonance in Medicine, 2014, 71, 893-900.	3.0	4
52	Hostâ€“guest interaction of nitroxide radicals with water-soluble pillar[6]arenes. Organic and Biomolecular Chemistry, 2020, 18, 2321-2325.	2.8	4
53	The Glycyl Radical Enzyme Arylacetate Decarboxylase from Olsenella scatoligenes. ACS Catalysis, 2021, 11, 5789-5794.	11.2	4
54	Spin-spin interaction and relaxation in two trityl-nitroxide diradicals. Journal of Magnetic Resonance, 2021, 332, 107078.	2.1	4

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55	Site-Specific Detection of Free Radicals in Membranes Using an Amphiphilic Spin Trap. Applied Magnetic Resonance, 2015, 46, 489-504.	1.2	3
56	Novel glutathione-linked nitrones as dual free radical probes. New Journal of Chemistry, 2011, 35, 1485.	2.8	2
57	Synthesis and Characterization of the Perthiatriarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. Chemistry - A European Journal, 2018, 24, 6865-6865.	3.3	1
58	Photoactive NO hybrids with pseudo-zero-order release kinetics for antimicrobial applications. Organic and Biomolecular Chemistry, 2020, 18, 5473-5480.	2.8	0