

# Yangping Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | COMP (Cartilage Oligomeric Matrix Protein), a Novel PIEZO1 Regulator That Controls Blood Pressure. <i>Hypertension</i> , 2022, 79, 549-561.   | 2.7  | 17        |
| 2  | An Injectable Dual-Function Hydrogel Protects Against Myocardial Ischemia/Reperfusion Injury by Modulating ROS/NO Disequilibrium. <i>Advanced Science</i> , 2022, 9, e2105408.  | 11.2 | 45        |
| 3  | The Glycyl Radical Enzyme Arylacetate Decarboxylase from <i>Olsenella scatoligenes</i> . <i>ACS Catalysis</i> , 2021, 11, 5789-5794.  | 11.2 | 4         |
| 4  | Synthesis and Redox Properties of Water-Soluble Asymmetric Trityl Radicals. <i>Journal of Organic Chemistry</i> , 2021, 86, 8351-8364.  | 3.2  | 5         |
| 5  | Rational design of near-infrared fluorescent probes for superoxide anion radical: Enhancement of self-stability and sensitivity by self-immolative linker. <i>Free Radical Biology and Medicine</i> , 2021, 167, 36-44.                               | 2.9  | 12        |
| 6  | Gut Microbiota in NSAID Enteropathy: New Insights From Inside. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 679396.  | 3.9  | 23        |
| 7  | Highly Efficient Trityl-Nitroxide Biradicals for Biomolecular High-Field Dynamic Nuclear Polarization. <i>Chemistry - A European Journal</i> , 2021, 27, 12758-12762.   | 3.3  | 16        |
| 8  | Spin-spin interaction and relaxation in two trityl-nitroxide diradicals. <i>Journal of Magnetic Resonance</i> , 2021, 332, 107078.  | 2.1  | 4         |
| 9  | Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. <i>Angewandte Chemie</i> , 2020, 132, 938-944.   | 2.0  | 6         |
| 10 | Discriminative Detection of Biothiols by Electron Paramagnetic Resonance Spectroscopy using a Methanethiosulfonate Trityl Probe. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 928-934.  | 13.8 | 18        |
| 11 | Postmodification via Thiol-Click Chemistry Yields Hydrophilic Trityl-Nitroxide Biradicals for Biomolecular High-Field Dynamic Nuclear Polarization. <i>Journal of Physical Chemistry B</i> , 2020, 124, 9047-9060.                                    | 2.6  | 30        |
| 12 | Intracellular delivery of liposome-encapsulated Finland trityl radicals for EPR oximetry. <i>Analyst</i> , The, 2020, 145, 4964-4971.   | 3.5  | 6         |
| 13 | Two radical-dependent mechanisms for anaerobic degradation of the globally abundant organosulfur compound dihydroxypropanesulfonate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 15599-15608. | 7.1  | 29        |
| 14 | Host-guest interaction of nitroxide radicals with water-soluble pillar[6]arenes. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 2321-2325.   | 2.8  | 4         |
| 15 | Chiral Carbon Dots Mimicking Topoisomerase...I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. <i>Angewandte Chemie</i> , 2020, 132, 11180-11185.   | 2.0  | 25        |
| 16 | Chiral Carbon Dots Mimicking Topoisomerase...I To Mediate the Topological Rearrangement of Supercoiled DNA Enantioselectively. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11087-11092.  | 13.8 | 100       |
| 17 | Photoactive NO hybrids with pseudo-zero-order release kinetics for antimicrobial applications. <i>Organic and Biomolecular Chemistry</i> , 2020, 18, 5473-5480.   | 2.8  | 0         |
| 18 | In-Cell Trityl-Trityl Distance Measurements on Proteins. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1141-1147.  | 4.6  | 55        |

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|----|--|------|-----------|
| 19 | Copper-Catalyzed Trifluoromethylation of Ynones Coupled with Dearomatizing Spirocyclization of Indoles: Access to CF <sub>3</sub> -Containing Spiro[cyclopentane-1,3- <i>indole</i> ]. <i>Organic Letters</i> , 2020, 22, 3291-3296. | 4.6  | 38        |
| 20 | Phosphinate-based mitochondria-targeted fluorescent probe for imaging and detection of endogenous superoxide in live cells and in vivo. <i>Talanta</i> , 2019, 197, 239-248.   | 5.5  | 15        |
| 21 | Synthesis of Central Chirality-Containing Triarylmethanols and Triarylmethyl Radicals with Extraordinarily Stable Configurations. <i>Journal of Organic Chemistry</i> , 2019, 84, 11774-11782.                                       | 3.2  | 5         |
| 22 | A gene cluster for taurine sulfur assimilation in an anaerobic human gut bacterium. <i>Biochemical Journal</i> , 2019, 476, 2271-2279.   | 3.7  | 7         |
| 23 | A mitochondria-targeted nitric oxide donor triggered by superoxide radical to alleviate myocardial ischemia/reperfusion injury. <i>Chemical Communications</i> , 2019, 55, 1205-1208.  | 4.1  | 18        |
| 24 | Synthesis and Characterization of Hydrophilic Trityl Radical TFO for Biomedical and Biophysical Applications. <i>Chemistry - A European Journal</i> , 2019, 25, 7888-7895.   | 3.3  | 16        |
| 25 | DEER distance measurements on trityl/trityl and Gd( <sup>iii</sup> )/trityl labelled proteins. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10217-10227.   | 2.8  | 38        |
| 26 | Targeted delivery of nitric oxide via a "bump-and-hole"™-based enzyme-prodrug pair. <i>Nature Chemical Biology</i> , 2019, 15, 151-160.  | 8.0  | 76        |
| 27 | Access to CF <sub>3</sub> -Containing Cyclopentaquinolinone Derivatives from Indolyl-ynones via Silver-Catalyzed One-pot Reaction. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 678-682.                                     | 4.3  | 16        |
| 28 | Synthesis and Characterization of the Perthiarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. <i>Chemistry - A European Journal</i> , 2018, 24, 6958-6967.               | 3.3  | 11        |
| 29 | Synthesis and Characterization of the Perthiarylmethyl Radical and Its Dendritic Derivatives with High Sensitivity and Selectivity to Superoxide Radical. <i>Chemistry - A European Journal</i> , 2018, 24, 6865-6865.               | 3.3  | 1         |
| 30 | Diastereoisomers of <i>l</i> -proline-linked trityl-nitroxide biradicals: synthesis and effect of chiral configurations on exchange interactions. <i>Chemical Science</i> , 2018, 9, 4381-4391.                                      | 7.4  | 33        |
| 31 | A near-infrared ratiometric/turn-on fluorescent probe for in vivo imaging of hydrogen peroxide in a murine model of acute inflammation. <i>Analytica Chimica Acta</i> , 2018, 1024, 169-176.   | 5.4  | 41        |
| 32 | Bio-inspired redox-cycling antimicrobial film for sustained generation of reactive oxygen species. <i>Biomaterials</i> , 2018, 162, 109-122.   | 11.4 | 72        |
| 33 | Synthesis and Characterization of PEGylated Trityl Radicals: Effect of PEGylation on Physicochemical Properties. <i>Journal of Organic Chemistry</i> , 2017, 82, 588-596.  | 3.2  | 25        |
| 34 | Efficient cross-effect dynamic nuclear polarization without depolarization in high-resolution MAS NMR. <i>Chemical Science</i> , 2017, 8, 8150-8163.   | 7.4  | 76        |
| 35 | Thiol-Dependent Reduction of the Triester and Triamide Derivatives of Finland Trityl Radical Triggers O <sub>2</sub> -Dependent Superoxide Production. <i>Chemical Research in Toxicology</i> , 2017, 30, 1664-1672.                 | 3.3  | 14        |
| 36 | A 1,8-naphthalimide-based fluorescent probe for selective and sensitive detection of peroxynitrite and its applications in living cell imaging. <i>RSC Advances</i> , 2017, 7, 34287-34292.  | 3.6  | 25        |

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|----|---|------|-----------|
| 37 | Supramolecular host-guest interaction of trityl-nitroxide biradicals with cyclodextrins: modulation of spin-spin interaction and redox sensitivity. <i>Organic and Biomolecular Chemistry</i> , 2016, 14, 1694-1701.                    | 2.8  | 8         |
| 38 | Efficient Dynamic Nuclear Polarization at 800 MHz/527 GHz with Trityl Nitroxide Biradicals. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11770-11774.   | 13.8 | 172       |
| 39 | Site-Specific Detection of Free Radicals in Membranes Using an Amphiphilic Spin Trap. <i>Applied Magnetic Resonance</i> , 2015, 46, 489-504.  | 1.2  | 3         |
| 40 | New photostable naphthalimide-based fluorescent probe for mitochondrial imaging and tracking. <i>Biosensors and Bioelectronics</i> , 2015, 71, 313-321.   | 10.1 | 41        |
| 41 | Highly sensitive free radical detection by nitron-functionalized gold nanoparticles. <i>Nanoscale</i> , 2014, 6, 1646-1652.   | 5.6  | 10        |
| 42 | Characterization of the binding of the Finland trityl radical with bovine serum albumin. <i>RSC Advances</i> , 2014, 4, 47649-47656.  | 3.6  | 59        |
| 43 | Uniform spinning sampling gradient electron paramagnetic resonance imaging. <i>Magnetic Resonance in Medicine</i> , 2014, 71, 893-900.  | 3.0  | 4         |
| 44 | Structural Factors Controlling the Spin-Spin Exchange Coupling: EPR Spectroscopic Studies of Highly Asymmetric Trityl Nitroxide Biradicals. <i>Journal of the American Chemical Society</i> , 2013, 135, 2350-2356.                     | 13.7 | 46        |
| 45 | Esterified Dendritic TAM Radicals with Very High Stability and Enhanced Oxygen Sensitivity. <i>Journal of Organic Chemistry</i> , 2013, 78, 1371-1376.  | 3.2  | 30        |
| 46 | Tetrathiatriarylmethyl radical with a single aromatic hydrogen as a highly sensitive and specific superoxide probe. <i>Free Radical Biology and Medicine</i> , 2012, 53, 2081-2091.   | 2.9  | 43        |
| 47 | Pulsed ESR Dipolar Spectroscopy for Distance Measurements in Immobilized Spin Labeled Proteins in Liquid Solution. <i>Journal of the American Chemical Society</i> , 2012, 134, 9950-9952.  | 13.7 | 179       |
| 48 | Novel glutathione-linked nitrones as dual free radical probes. <i>New Journal of Chemistry</i> , 2011, 35, 1485.  | 2.8  | 2         |
| 49 | Synthesis of Trityl Radical-Conjugated Disulfide Biradicals for Measurement of Thiol Concentration. <i>Journal of Organic Chemistry</i> , 2011, 76, 3853-3860.  | 3.2  | 38        |
| 50 | Fast Reactivity of a Cyclic Nitron-Calix[4]pyrrole Conjugate with Superoxide Radical Anion: Theoretical and Experimental Studies. <i>Journal of the American Chemical Society</i> , 2010, 132, 17157-17173.                             | 13.7 | 50        |
| 51 | Synthesis of <sup>14</sup> N- and <sup>15</sup> N-labeled Trityl-nitroxide Biradicals with Strong Spin-Spin Interaction and Improved Sensitivity to Redox Status and Oxygen. <i>Journal of Organic Chemistry</i> , 2010, 75, 7796-7802. | 3.2  | 58        |
| 52 | Trityl-nitroxide biradicals as unique molecular probes for the simultaneous measurement of redox status and oxygenation. <i>Chemical Communications</i> , 2010, 46, 628-630.  | 4.1  | 58        |
| 53 | Esterified trityl radicals as intracellular oxygen probes. <i>Free Radical Biology and Medicine</i> , 2009, 46, 876-883.  | 2.9  | 55        |
| 54 | Lipophilic <sup>12</sup> -Cyclodextrin Cyclic Nitron Conjugate: Synthesis and Spin Trapping Studies. <i>Journal of Organic Chemistry</i> , 2009, 74, 5369-5380.   | 3.2  | 32        |

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|----|--|-----|-----------|
| 55 | Superoxide Radical Anion Adduct of 5,5-Dimethyl-1-pyrroline <i>N</i> -Oxide. 4. Conformational Effects on the EPR Hyperfine Splitting Constants. <i>Journal of Physical Chemistry A</i> , 2008, 112, 12607-12615.          | 2.5 | 26        |
| 56 | Highly stable dendritic trityl radicals as oxygen and pH probe. <i>Chemical Communications</i> , 2008, , 4336.   | 4.1 | 45        |
| 57 | Synthesis and Characterization of Ester-Derivatized Tetrathiatriarylmethyl Radicals as Intracellular Oxygen Probes. <i>Journal of Organic Chemistry</i> , 2008, 73, 1490-1497.   | 3.2 | 62        |
| 58 | Iron-catalyzed Alkene Trifluoromethylation in Tandem with Phenol Dearomatizing Spirocyclization: Regioselective Construction of the Trifluoromethylated Spirocarbocycles. <i>Advanced Synthesis and Catalysis</i> , 0, , . | 4.3 | 6         |