

Liangdong Zhu

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

44
papers

970
citations

17
h-index

30
g-index

45
ext. papers

1,326
ext. citations

5.6
avg, IF

4.5
L-index

#	Paper	IF	Citations
44	A ZnCl water-in-salt electrolyte for a reversible Zn metal anode. <i>Chemical Communications</i> , 2018 , 54, 14097-14099	5.8	275
43	Panoramic portrait of primary molecular events preceding excited state proton transfer in water. <i>Chemical Science</i> , 2016 , 7, 5484-5494	9.4	69
42	A versatile femtosecond stimulated Raman spectroscopy setup with tunable pulses in the visible to near infrared. <i>Applied Physics Letters</i> , 2014 , 105, 041106	3.4	54
41	A Dual Plating Battery with the Iodine/[Zn(OH)] Cathode. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 15910-15915	16.4	46
40	Dynamic Raman Line Shapes on an Evolving Excited-State Landscape: Insights from Tunable Femtosecond Stimulated Raman Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 5428-5441	2.8	36
39	Unveiling Structural Motions of a Highly Fluorescent Superphotoacid by Locking and Fluorinating the GFP Chromophore in Solution. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 5921-5928	6.4	34
38	Designing redder and brighter fluorophores by synergistic tuning of ground and excited states. <i>Chemical Communications</i> , 2019 , 55, 2537-2540	5.8	27
37	Delayed vibrational modulation of the solvated GFP chromophore into a conical intersection. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9728-9739	3.6	26
36	The electrolyte comprising more robust water and superhalides transforms Zn-metal anode reversibly and dendrite-free 2021 , 3, 339-348		26
35	Ultrafast Structural Evolution and Chromophore Inhomogeneity inside a Green-Fluorescent-Protein-Based Ca(2+) Biosensor. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 1225-30	6.4	25
34	Excited State Structural Evolution of a GFP Single-Site Mutant Tracked by Tunable Femtosecond-Stimulated Raman Spectroscopy. <i>Molecules</i> , 2018 , 23,	4.8	24
33	Cascaded four-wave mixing for broadband tunable laser sideband generation. <i>Optics Letters</i> , 2013 , 38, 1772-4	3	23
32	Photoinduced Proton Transfer of GFP-Inspired Fluorescent Superphotoacids: Principles and Design. <i>Journal of Physical Chemistry B</i> , 2019 , 123, 3804-3821	3.4	22
31	Initial hydrogen-bonding dynamics of photoexcited coumarin in solution with femtosecond stimulated Raman spectroscopy. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 2954-2963	7.1	22
30	Tunable sideband laser from cascaded four-wave mixing in thin glass for ultra-broadband femtosecond stimulated Raman spectroscopy. <i>Applied Physics Letters</i> , 2013 , 103, 061110	3.4	18
29	Observation of sum-frequency-generation-induced cascaded four-wave mixing using two crossing femtosecond laser pulses in a 0.1 mm beta-barium-borate crystal. <i>Optics Letters</i> , 2012 , 37, 3783-5	3	18
28	Photoinduced proton transfer inside an engineered green fluorescent protein: a stepwise-concerted-hybrid reaction. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 12517-12526	3.6	17

27	Monitoring Photochemical Reaction Pathways of Tungsten Hexacarbonyl in Solution from Femtoseconds to Minutes. <i>Journal of Physical Chemistry B</i> , 2016 , 120, 13161-13168	3.4	17
26	Uncovering the Hidden Excited State toward Fluorescence of an Intracellular pH Indicator. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 4969-4975	6.4	16
25	Correlated Molecular Structural Motions for Photoprotection after Deep-UV Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 2311-2319	6.4	15
24	A Dual Plating Battery with the Iodine/[ZnI _x (OH) ₂] ₂ Cathode. <i>Angewandte Chemie</i> , 2019 , 131, 16057-16062	15	
23	Sum-Frequency-Generation-Based Laser Sidebands for Tunable Femtosecond Raman Spectroscopy in the Ultraviolet. <i>Applied Sciences (Switzerland)</i> , 2015 , 5, 48-61	2.6	15
22	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19924-19928	16.4	15
21	Tuning calcium biosensors with a single-site mutation: structural dynamics insights from femtosecond Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7138-7146	3.6	11
20	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 1644-1652	16.4	11
19	Discovering a rotational barrier within a charge-transfer state of a photoexcited chromophore in solution. <i>Structural Dynamics</i> , 2020 , 7, 024901	3.2	10
18	Ultrafast excited-state proton transfer dynamics in dihalogenated non-fluorescent and fluorescent GFP chromophores. <i>Journal of Chemical Physics</i> , 2020 , 152, 021101	3.9	10
17	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 20096-20100	3.6	8
16	Watching an Engineered Calcium Biosensor Glow: Altered Reaction Pathways before Emission. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 11986-11995	3.4	8
15	Time-Resolved Changes in Dielectric Constant of Metal Halide Perovskites under Illumination. <i>Journal of the American Chemical Society</i> , 2020 , 142, 19799-19803	16.4	7
14	Ultrafast Dynamics and Photoresponse of a Fungi-Derived Pigment Xylindein from Solution to Thin Films. <i>Chemistry - A European Journal</i> , 2021 , 27, 5627-5631	4.8	7
13	Simultaneous solution-based generation and characterization of crystalline bismuth thin film by femtosecond laser spectroscopy. <i>Applied Physics Letters</i> , 2015 , 107, 061901	3.4	6
12	Photoinduced Charge Transfer and Bimetallic Bond Dissociation of a Bi-W Complex in Solution. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 7575-7582	6.4	5
11	Photoinduced charge flow inside an iron porphyrine complex. <i>Chemical Communications</i> , 2019 , 55, 13606-13609	5.8	5
10	Shedding light on ultrafast ring-twisting pathways of halogenated GFP chromophores from the excited to ground state. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 14636-14648	3.6	4

9	Switching between Ultrafast Pathways Enables a Green-Red Emission Ratiometric Fluorescent-Protein-Based Ca Biosensor. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	4
8	Ultrafast Triplet State Formation in a Methylated Fungi-Derived Pigment: Toward Rational Molecular Design for Sustainable Optoelectronics. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 17565-17572	3.8	4
7	Transient electronic and vibrational signatures during reversible photoswitching of a cyanobacteriochrome photoreceptor. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 250, 119379	4.4	3
6	An Engineered Biliverdin-Compatible Cyanobacteriochrome Enables a Unique Ultrafast Reversible Photoswitching Pathway. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
5	Excitation ratiometric chloride sensing in a standalone yellow fluorescent protein is powered by the interplay between proton transfer and conformational reorganization. <i>Chemical Science</i> , 2021 , 12, 11382-11393	9.4	3
4	Dissecting Optical Response and Molecular Structure of Fluorescent Proteins With Non-canonical Chromophores. <i>Frontiers in Molecular Biosciences</i> , 2020 , 7, 131	5.6	2
3	High-Symmetry Anthradithiophene Molecular Packing Motifs Promote Thermally Activated Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4433-4445	3.8	2
2	Illuminating Excited-State Intramolecular Proton Transfer of a Fungi-Derived Red Pigment for Sustainable Functional Materials. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 459-477	3.8	1
1	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. <i>Angewandte Chemie</i> , 2020 , 132, 1661-1669	3.6	1