

Liangdong Zhu

List of Publications by Year in descending order

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44
papers

1,599
citations

394421

19
h-index

315739

38
g-index

45
all docs

45
docs citations

45
times ranked

1377
citing authors

#	ARTICLE	IF	CITATIONS
1	A ZnCl ₂ water-in-salt electrolyte for a reversible Zn metal anode. <i>Chemical Communications</i> , 2018, 54, 14097-14099.	4.1	491
2	The electrolyte comprising more robust water and superhalides transforms Zn metal anode reversibly and dendrite-free. <i>ACS Energy Letters</i> , 2021, 3, 339-348.		100
3	Panoramic portrait of primary molecular events preceding excited state proton transfer in water. <i>Chemical Science</i> , 2016, 7, 5484-5494.	7.4	97
4	A Dual Plating Battery with the Iodine/[Zn(OH) ₂] ₄ ²⁺ Cathode. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15910-15915.	13.8	86
5	A versatile femtosecond stimulated Raman spectroscopy setup with tunable pulses in the visible to near infrared. <i>Applied Physics Letters</i> , 2014, 105, .	3.3	70
6	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.	2.5	46
7	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.	4.6	40
8	Designing redder and brighter fluorophores by synergistic tuning of ground and excited states. <i>Chemical Communications</i> , 2019, 55, 2537-2540.	4.1	40
9	Reversible Insertion of MgCl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 19924-19928.	13.8	39
10	Excited State Structural Evolution of a GFP Single-Site Mutant Tracked by Tunable Femtosecond-Stimulated Raman Spectroscopy. <i>Molecules</i> , 2018, 23, 2226.	3.8	38
11	Delayed vibrational modulation of the solvated GFP chromophore into a conical intersection. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9728-9739.	2.8	38
12	Photoinduced Proton Transfer of GFP-Inspired Fluorescent Superphotoacids: Principles and Design. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3804-3821.	2.6	32
13	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.	5.5	28
14	Ultrafast Structural Evolution and Chromophore Inhomogeneity inside a Green-Fluorescent-Protein-Based Ca ²⁺ Biosensor. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 1225-1230.	4.6	28
15	Cascaded four-wave mixing for broadband tunable laser sideband generation. <i>Optics Letters</i> , 2013, 38, 1772.	3.3	26
16	Photoinduced proton transfer inside an engineered green fluorescent protein: a stepwise concerted-hybrid reaction. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12517-12526.	2.8	24
17	A Dual Plating Battery with the Iodine/[Zn(OH) ₂] ₄ ²⁺ Cathode. <i>Angewandte Chemie</i> , 2019, 131, 16057-16062.	2.0	23
18	Monitoring Photochemical Reaction Pathways of Tungsten Hexacarbonyl in Solution from Femtoseconds to Minutes. <i>Journal of Physical Chemistry B</i> , 2016, 120, 13161-13168.	2.6	22

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19	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1644-1652.	13.8	21
20	Observation of sum-frequency-generation-induced cascaded four-wave mixing using two crossing femtosecond laser pulses in a 01Åmm beta-barium-borate crystal. <i>Optics Letters</i> , 2012, 37, 3783.	3.3	19
21	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, .	3.3	19
22	Sum-Frequency-Generation-Based Laser Sidebands for Tunable Femtosecond Raman Spectroscopy in the Ultraviolet. <i>Applied Sciences (Switzerland)</i> , 2015, 5, 48-61.	2.5	19
23	Uncovering the Hidden Excited State toward Fluorescence of an Intracellular pH Indicator. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 4969-4975.	4.6	19
24	Correlated Molecular Structural Motions for Photoprotection after Deep-UV Irradiation. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2311-2319.	4.6	18
25	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.	7.4	17
26	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.	2.8	16
27	Reversible Insertion of Mg-Cl Superhalides in Graphite as a Cathode for Aqueous Dual-Ion Batteries. <i>Angewandte Chemie</i> , 2020, 132, 20096-20100.	2.0	16
28	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.	2.8	15
29	High-Symmetry Anthradithiophene Molecular Packing Motifs Promote Thermally Activated Singlet Fission. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4433-4445.	3.1	15
30	Time-Resolved Changes in Dielectric Constant of Metal Halide Perovskites under Illumination. <i>Journal of the American Chemical Society</i> , 2020, 142, 19799-19803.	13.7	14
31	Discovering a rotational barrier within a charge-transfer state of a photoexcited chromophore in solution. <i>Structural Dynamics</i> , 2020, 7, 024901.	2.3	14
32	Ultrafast excited-state proton transfer dynamics in dihalogenated non-fluorescent and fluorescent GFP chromophores. <i>Journal of Chemical Physics</i> , 2020, 152, 021101.	3.0	14
33	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.	3.3	12
34	Watching an Engineered Calcium Biosensor Glow: Altered Reaction Pathways before Emission. <i>Journal of Physical Chemistry B</i> , 2018, 122, 11986-11995.	2.6	11
35	Switching between Ultrafast Pathways Enables a Green-Red Emission Ratiometric Fluorescent-Protein-Based Ca ²⁺ Biosensor. <i>International Journal of Molecular Sciences</i> , 2021, 22, 445.	4.1	11
36	Dissecting Optical Response and Molecular Structure of Fluorescent Proteins With Non-canonical Chromophores. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 131.	3.5	10

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37	An Engineered Biliverdin-Compatible Cyanobacteriochrome Enables a Unique Ultrafast Reversible Photoswitching Pathway. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5252.	4.1	9
38	Photoinduced charge flow inside an iron porphyrazine complex. <i>Chemical Communications</i> , 2019, 55, 13606-13609.	4.1	8
39	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.	3.9	7
40	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.	3.1	7
41	Simultaneous solution-based generation and characterization of crystalline bismuth thin film by femtosecond laser spectroscopy. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	6
42	Photoinduced Charge Transfer and Bimetallic Bond Dissociation of a Bi ^{III} -W Complex in Solution. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 7575-7582.	4.6	6
43	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.	3.1	6
44	Dual Illumination Enhances Transformation of an Engineered Green-to-Red Photoconvertible Fluorescent Protein. <i>Angewandte Chemie</i> , 2020, 132, 1661-1669.	2.0	2