

Xiaoyi Zhang

List of Publications by Year in descending order

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72
papers

3,461
citations

117619

34
h-index

144002

57
g-index

75
all docs

75
docs citations

75
times ranked

5808
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Potential Biomarkers of Type 2 Diabetes Mellitus-Related Immune Infiltration Using Weighted Gene Coexpression Network Analysis. <i>BioMed Research International</i> , 2022, 2022, 1-14.	1.9	7
2	Visualizing Light-Induced Microstrain and Phase Transition in Lead-Free Perovskites Using Time-Resolved X-Ray Diffraction. <i>Journal of the American Chemical Society</i> , 2022, 144, 5335-5341.	13.7	15
3	X-ray Transient Absorption Studies of Exciton Self-Trapping. <i>Journal of Physical Chemistry C</i> , 2022, 126, 349-355.	3.1	0
4	Synchrotron X-ray-induced Synthesis of Copper Hydroxide Nitrate Nanoplates on Cu Thin Films in an Ambient Atmosphere. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 23342-23347.	8.0	1
5	Autophagy: Mechanisms and Therapeutic Potential of Flavonoids in Cancer. <i>Biomolecules</i> , 2021, 11, 135.	4.0	50
6	Anisotropic Transient Disorder of Colloidal, Two-Dimensional CdSe Nanoplatelets upon Optical Excitation. <i>Nano Letters</i> , 2021, 21, 1288-1294.	9.1	8
7	To betray or to fight? The dual identity of the mitochondria in cancer. <i>Future Oncology</i> , 2021, 17, 723-743.	2.4	7
8	X-ray multi-probe data acquisition: A novel technique for laser pump x-ray transient absorption spectroscopy. <i>Review of Scientific Instruments</i> , 2021, 92, 085109.	1.3	7
9	Computational investigation of sensing properties of Ca-doped zinc oxide nanotube toward formaldehyde. <i>Journal of Molecular Modeling</i> , 2021, 27, 303.	1.8	6
10	Bright and stable light-emitting diodes made with perovskite nanocrystals stabilized in metal-organic frameworks. <i>Nature Photonics</i> , 2021, 15, 843-849.	31.4	117
11	Photoinduced Charge Transport in Conductive Metal Organic Frameworks. , 2021, , .		0
12	Identification of AGT and CD44 in methotrexate-resistant colorectal cancer and reversal of methotrexate-resistance. <i>Pathology Research and Practice</i> , 2021, 229, 153717.	2.3	2
13	PEGylated Doxorubicin Prodrug-Forming Reduction-Sensitive Micelles With High Drug Loading and Improved Anticancer Therapy. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 781982.	4.1	7
14	Versatile hollow COF nanospheres via manipulating transferrin corona for precise glioma-targeted drug delivery. <i>Biomaterials</i> , 2020, 260, 120305.	11.4	83
15	Unravelling a long-lived ligand-to-metal cluster charge transfer state in Ce ^{III} -TCPP metal organic frameworks. <i>Chemical Communications</i> , 2020, 56, 13971-13974.	4.1	20
16	Pyroptosis is involved in the inhibitory effect of FL118 on growth and metastasis in colorectal cancer. <i>Life Sciences</i> , 2020, 257, 118065.	4.3	39
17	Direct Spectroscopic Observation of the Hole Polaron in Lead Halide Perovskites. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 6256-6261.	4.6	15
18	Direct Evidence of Photoinduced Charge Transport Mechanism in 2D Conductive Metal Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020, 142, 21050-21058.	13.7	76

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19	Heterometal incorporation in NH ₂ -MIL-125(Ti) and its participation in the photoinduced charge-separated excited state. <i>Chemical Communications</i> , 2020, 56, 11597-11600.	4.1	19
20	Transient Lattice Response upon Photoexcitation in CuInSe ₂ Nanocrystals with Organic or Inorganic Surface Passivation. <i>ACS Nano</i> , 2020, 14, 13548-13556.	14.6	10
21	Tracking the Light-Induced Excited-State Dynamics and Structural Configurations of an Extraordinarily Long-Lived Metastable State at Room Temperature. <i>Chemistry - A European Journal</i> , 2020, 26, 10801-10810.	3.3	4
22	Revealing the Structural Evolution and Phase Transformation of O ₃ -Type NaNi _{1/3} Fe _{1/3} Mn _{1/3} O ₂ Cathode Material on Sintering and Cycling Processes. <i>ACS Applied Energy Materials</i> , 2020, 3, 6107-6114.	5.1	19
23	Unprecedented non-hysteretic superelasticity of [001]-oriented NiCoFeGa single crystals. <i>Nature Materials</i> , 2020, 19, 712-718.	27.5	95
24	Critical Role of Organic Spacers for Bright 2D Layered Perovskites Light-Emitting Diodes. <i>Advanced Science</i> , 2020, 7, 1903202.	11.2	39
25	PPy nanoneedle based nanoplatform capable of overcoming biological barriers for synergistic chemo-photothermal therapy. <i>RSC Advances</i> , 2020, 10, 7771-7779.	3.6	10
26	Monitoring the Formation and Reactivity of Organometallic Alkane and Fluoroalkane Complexes with Silanes and Xe Using Time-Resolved X-ray Absorption Fine Structure Spectroscopy. <i>Journal of the American Chemical Society</i> , 2019, 141, 11471-11480.	13.7	25
27	Selective Excited-State Dynamics in a Unique Set of Rationally Designed Ni Porphyrins. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17994-18000.	3.1	8
28	Asynchronous Photoexcited Electronic and Structural Relaxation in Lead-Free Perovskites. <i>Journal of the American Chemical Society</i> , 2019, 141, 13074-13080.	13.7	39
29	X-ray snapshots reveal conformational influence on active site ligation during metalloprotein folding. <i>Chemical Science</i> , 2019, 10, 9788-9800.	7.4	16
30	Photoinduced, reversible phase transitions in all-inorganic perovskite nanocrystals. <i>Nature Communications</i> , 2019, 10, 504.	12.8	121
31	Resolving the Ultrafast Changes of Chemically Inequivalent Metal-Ligand Bonds in Photoexcited Molecular Complexes with Transient X-ray Absorption Spectroscopy. <i>ACS Omega</i> , 2019, 4, 6375-6381.	3.5	6
32	Elucidating the Nature of the Excited State of a Heteroleptic Copper Photosensitizer by using Time-Resolved X-ray Absorption Spectroscopy. <i>Chemistry - A European Journal</i> , 2018, 24, 6464-6472.	3.3	34
33	Direct Structural and Chemical Characterization of the Photolytic Intermediates of Methylcobalamin Using Time-Resolved X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1542-1546.	4.6	10
34	Electronic Structure and Dynamics of Copper-Doped Indium Phosphide Nanocrystals Studied with Time-Resolved X-ray Absorption and Large-Scale DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2018, 122, 11145-11151.	3.1	17
35	Elucidating Charge Separation Dynamics in a Hybrid Metal-Organic Framework Photocatalyst for Light-Driven H ₂ Evolution. <i>Journal of Physical Chemistry C</i> , 2018, 122, 3305-3311.	3.1	49
36	Rapid Construction of Fe-Co-Ni Composition-Phase Map by Combinatorial Materials Chip Approach. <i>ACS Combinatorial Science</i> , 2018, 20, 127-131.	3.8	41

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37	Excited state electron and energy relays in supramolecular dinuclear complexes revealed by ultrafast optical and X-ray transient absorption spectroscopy. <i>Chemical Science</i> , 2018, 9, 860-875.	7.4	39
38	Unravelling the Correlation of Electronic Structure and Carrier Dynamics in CuInS ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2018, 122, 974-980.	3.1	18
39	Electrostatic Self-Assembly Enabling Integrated Bulk and Interfacial Sodium Storage in 3D Titania-Graphene Hybrid. <i>Nano Letters</i> , 2018, 18, 336-346.	9.1	40
40	2D Covalent Organic Frameworks as Intrinsic Photocatalysts for Visible Light-Driven CO ₂ Reduction. <i>Journal of the American Chemical Society</i> , 2018, 140, 14614-14618.	13.7	461
41	Direct Observation of Node-to-Node Communication in Zeolitic Imidazolate Frameworks. <i>Journal of the American Chemical Society</i> , 2018, 140, 11573-11576.	13.7	32
42	Shedding Light on the Nature of Photoinduced States Formed in a Hydrogen-Generating Supramolecular RuPt Photocatalyst by Ultrafast Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2018, 122, 6396-6406.	2.5	8
43	Long-Lived Photoinduced Charge Separation in a Trinuclear Iron-oxo-based Metal-Organic Framework. <i>Journal of Physical Chemistry C</i> , 2017, 121, 13570-13576.	3.1	35
44	Insights into the structural effects of layered cathode materials for high voltage sodium-ion batteries. <i>Energy and Environmental Science</i> , 2017, 10, 1677-1693.	30.8	143
45	Charge Carriers Modulate the Bonding of Semiconductor Nanoparticle Dopants As Revealed by Time-Resolved X-ray Spectroscopy. <i>ACS Nano</i> , 2017, 11, 10070-10076.	14.6	17
46	Transient Melting and Recrystallization of Semiconductor Nanocrystals Under Multiple Electron-Hole Pair Excitation. <i>Nano Letters</i> , 2017, 17, 5314-5320.	9.1	23
47	Probing the Impact of Solvation on Photoexcited Spin Crossover Complexes with High-Precision X-ray Transient Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2017, 139, 17518-17524.	13.7	21
48	Ultrafast dynamics of two copper bis-phenanthroline complexes measured by x-ray transient absorption spectroscopy. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 154006.	1.5	12
49	Characterizing the Solvated Structure of Photoexcited [Os(terpy) ₂] ²⁺ with X-ray Transient Absorption Spectroscopy and DFT Calculations. <i>Molecules</i> , 2016, 21, 235.	3.8	9
50	Tracking Co(I) Intermediate in Operando in Photocatalytic Hydrogen Evolution by X-ray Transient Absorption Spectroscopy and DFT Calculation. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 5253-5258.	4.6	44
51	Nanostructured Black Phosphorus/Ketjenblack-Multiwalled Carbon Nanotubes Composite as High Performance Anode Material for Sodium-Ion Batteries. <i>Nano Letters</i> , 2016, 16, 3955-3965.	9.1	246
52	Direct Observation of Photoinduced Charge Separation in Ruthenium Complex/Ni(OH) ₂ Nanoparticle Hybrid. <i>Scientific Reports</i> , 2016, 5, 18505.	3.3	6
53	Tracking the Structural and Electronic Configurations of a Cobalt Proton Reduction Catalyst in Water. <i>Journal of the American Chemical Society</i> , 2016, 138, 10586-10596.	13.7	77
54	Direct Experimental Evidence for Photoinduced Strong-Coupling Polarons in Organolead Halide Perovskite Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 4535-4539.	4.6	49

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55	Electronic and nuclear contributions to time-resolved optical and X-ray absorption spectra of hematite and insights into photoelectrochemical performance. <i>Energy and Environmental Science</i> , 2016, 9, 3754-3769.	30.8	97
56	Exceptionally Long-Lived Charge Separated State in Zeolitic Imidazolate Framework: Implication for Photocatalytic Applications. <i>Journal of the American Chemical Society</i> , 2016, 138, 8072-8075.	13.7	155
57	Electron Injection from Copper Diimine Sensitizers into TiO ₂ : Structural Effects and Their Implications for Solar Energy Conversion Devices. <i>Journal of the American Chemical Society</i> , 2015, 137, 9670-9684.	13.7	60
58	Ultrafast Hole Trapping and Relaxation Dynamics in p-Type CuS Nanodisks. <i>Journal of Physical Chemistry Letters</i> , 2015, 6, 2671-2675.	4.6	97
59	Probing the Anisotropic Distortion of Photoexcited Spin Crossover Complexes with Picosecond X-ray Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 4536-4545.	3.1	44
60	Protocatechuic acid improves cognitive deficits and attenuates amyloid deposits, inflammatory response in aged A β 2PP/PS1 double transgenic mice. <i>International Immunopharmacology</i> , 2014, 20, 276-281.	3.8	38
61	Highly Accurate Excited-State Structure of [Os(bpy) ₂ dcbpy] ²⁺ Determined by X-ray Transient Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2014, 136, 8804-8809.	13.7	44
62	Photochemical Processes Revealed by X-ray Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 4000-4013.	4.6	70
63	X-ray transient absorption structural characterization of the 3MLCT triplet excited state of cis-[Ru(bpy) ₂ (py) ₂] ²⁺ . <i>Dalton Transactions</i> , 2013, 42, 6564.	3.3	38
64	Liquiritin attenuates advanced glycation end products-induced endothelial dysfunction via RAGE/NF- κ B pathway in human umbilical vein endothelial cells. <i>Molecular and Cellular Biochemistry</i> , 2013, 374, 191-201.	3.1	36
65	Toward Highlighting the Ultrafast Electron Transfer Dynamics at the Optically Dark Sites of Photocatalysts. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 1972-1976.	4.6	49
66	Photodissociation Structural Dynamics of TrirutheniumDodecacarbonyl Investigated by X-ray Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 9807-9813.	2.5	12
67	Effects of Electronic and Nuclear Interactions on the Excited-State Properties and Structural Dynamics of Copper(I) Diimine Complexes. <i>Journal of Physical Chemistry B</i> , 2013, 117, 1921-1931.	2.6	67
68	Visualizing Interfacial Charge Transfer in Ru-Dye-Sensitized TiO ₂ Nanoparticles Using X-ray Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 628-632.	4.6	74
69	Excited-state molecular structures captured by X-ray transient absorption spectroscopy: a decade and beyond. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 240-251.	0.3	83
70	Triplet Excited State Distortions in a Pyrazolate Bridged Platinum Dimer Measured by X-ray Transient Absorption Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2010, 114, 12780-12787.	2.5	72
71	Ultrafast Stimulated Emission and Structural Dynamics in Nickel Porphyrins. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11736-11742.	2.5	40
72	Tracking Electrons and Atoms in a Photoexcited Metalloporphyrin by X-ray Transient Absorption Spectroscopy. <i>Journal of the American Chemical Society</i> , 2007, 129, 9616-9618.	13.7	76