Jialiang Xu

List of Publications by Citations

130 papers	7,662 citations	35 h-index	86 g-index
146 ext. papers	8,754 ext. citations	7.8 avg, IF	5.98 L-index

#	Paper	IF	Citations
130	Calibration of the ruby pressure gauge to 800 kbar under quasi-hydrostatic conditions. *Journal of Geophysical Research*, **1986**, 91, 4673		3120
129	Aggregate nanostructures of organic molecular materials. *Accounts of Chemical Research*, **2010**, 43, 1496-508	24	349
128	Visible near-infrared chemosensor for mercury ion. *Organic Letters*, **2008**, 10, 1481-4	6.2	348
127	A colorimetric and fluorometric dual-model assay for mercury ion by a molecule. *Organic Letters*, **2007**, 9, 2313-6	6.2	249
126	Kerr Nonlinearity in 2D Graphdiyne for Passive Photonic Diodes. *Advanced Materials*, **2019**, 31, e1807981	24	136
125	In-situ synthesis of molecular magnetorefrigerant materials. *Coordination Chemistry Reviews*, **2019**, 394, 39-52	23.2	129
124	Fabrication of Hollow Capsules Based on Hydrogen Bonding. *Advanced Materials*, **2003**, 15, 832-835	24	128
123	Halide Perovskites for Nonlinear Optics. *Advanced Materials*, **2020**, 32, e1806736	24	124
122	Morphology transition and aggregation-induced emission of an intramolecular charge-transfer compound. *Langmuir*, **2008**, 24, 4231-7	4	117
121	Multi-Stimuli-Responsive Fluorescence Switching from a Pyridine-Functionalized Tetraphenylethene AIEgen. *ACS Applied Materials & Interfaces*, **2018**, 10, 5819-5827	9.5	116
120	Chiral Lead Halide Perovskite Nanowires for Second-Order Nonlinear Optics. *Nano Letters*, **2018**, 18, 5411-5417	11.5	114
119	Surfactant-Free Synthesis and Functionalization of Highly Fluorescent Gold Quantum Dots. *Journal of Physical Chemistry C*, **2008**, 112, 10778-10783	3.8	102
118	Recent advances in luminescent metal-organic frameworks for chemical sensors. *Science China Materials*, **2019**, 62, 1655-1678	7.1	99
117	Self-assembled organic microfibers for nonlinear optics. *Advanced Materials*, **2013**, 25, 2084-9	24	98
116	A Novel Ultra-hydrophobic Surface: Statically Non-wetting but Dynamically Non-sliding. *Advanced Functional Materials*, **2007**, 17, 2739-2745	15.6	82
115	Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity. *Advanced Materials*, **2020**, 32, e2001082	24	80
114	Chiral Perovskites: Promising Materials toward Next-Generation Optoelectronics. *Small*, **2019**, 15, e1902237	13	79

113	Engineering Donor-Acceptor Heterostructure Metal-Organic Framework Crystals for Photonic Logic Computation. *Angewandte Chemie - International Edition*, **2019**, 58, 13890-13896	16.4	70
112	Two luminescent coordination polymers as highly selective and sensitive chemosensors for Cr-anions in aqueous medium. *Dalton Transactions*, **2019**, 48, 387-394	4.3	69
111	High-Efficiency Second-Harmonic Generation from Hybrid Light-Matter States. *Nano Letters*, **2016**, 16, 7352-7356	11.5	68
110	Photoisomerization of spiropyran for driving a molecular shuttle. *Organic Letters*, **2007**, 9, 3929-32	6.2	66
109	Supramolecular helix of an amphiphilic pyrene derivative induced by chiral tryptophan through electrostatic interactions. *Organic Letters*, **2008**, 10, 645-8	6.2	65
108	Fabrication and Field-Emission Properties of Large-Area Nanostructures of the Organic Charge-Transfer Complex Cu-TCNAQ. *Advanced Materials*, **2008**, 20, 309-313	24	65
107	Asymmetric and Symmetric Dipole□Dipole Interactions Drive Distinct Aggregation and Emission Behavior of Intramolecular Charge-Transfer Molecules. *Journal of Physical Chemistry C*, **2009**, 113, 5924-5932	3.8	62
106	Graphdiyne-Polymer Nanocomposite as a Broadband and Robust Saturable Absorber for Ultrafast Photonics. *Laser and Photonics Reviews*, **2020**, 14, 1900367	8.3	56
105	Aggregation Induced Enhancement of Linear and Nonlinear Optical Emission from a Hexaphenylene Derivative. *Advanced Functional Materials*, **2016**, 26, 8968-8977	15.6	56
104	Organized chromophoric assemblies for nonlinear optical materials: towards (sub)wavelength scale architectures. *Small*, **2015**, 11, 1113-29	11	50
103	Extended □-conjugated ruthenium zinc-porphyrin complexes with enhanced nonlinear-optical properties. *Chemical Communications*, **2015**, 51, 2855-8	5.8	47
102	Preparation and properties of poly(vinyl alcohol)□ermiculite nanocomposites. *Journal of Polymer Science, Part B: Polymer Physics*, **2003**, 41, 749-755	2.6	47
101	Distinct Nanostructures from a Molecular Shuttle: Effects of Shuttling Movement on Nanostructural Morphologies. *Advanced Functional Materials*, **2009**, 19, 141-149	15.6	46
100	An integrated targeting drug delivery system based on the hybridization of graphdiyne and MOFs for visualized cancer therapy. *Nanoscale*, **2019**, 11, 11709-11718	7.7	45
99	Unusual fluorescence enhancement of a novel carbazolyldiacetylene bound to gold nanoparticles. *Langmuir*, **2007**, 23, 6754-60	4	39
98	Recent Progress in 2D Metal-Organic Frameworks for Optical Applications. *Advanced Optical Materials*, **2020**, 8, 2000110	8.1	38
97	Graphdiyne as a Promising Mid-Infrared Nonlinear Optical Material for Ultrafast Photonics. *Advanced Optical Materials*, **2020**, 8, 2000067	8.1	38
96	Electrical conductivity of a single C60 nanotube. *Applied Physics Letters*, **2005**, 87, 263117	3.4	35

95	2D organic-inorganic hybrid perovskite materials for nonlinear optics. *Nanophotonics*, **2020**, 9, 1787-1816	6.3	35
94	Controlling Microsized Polymorphic Architectures with Distinct Linear and Nonlinear Optical Properties. *Advanced Optical Materials*, **2015**, 3, 948-956	8.1	34
93	Synthesis and characterization of pyrrolidin-2-one fused N-confused calix[4]phyrins. *Organic Letters* , **2006**, 8, 1137-40	6.2	33
92	Mimicking efferent nerves using a graphdiyne-based artificial synapse with multiple ion diffusion dynamics. *Nature Communications*, **2021**, 12, 1068	17.4	33
91	Reversible and Highly Selective Fluorescent Sensor for Mercury(II) Based on a Water-Soluble Poly(para-phenylene)s Containing Thymine and Sulfonate Moieties. *Macromolecular Rapid Communications*, **2008**, 29, 1588-1592	4.8	32
90	Charge transfer chromophore-stopped [2]rotaxane through [2 + 2] cycloaddition. *Journal of Organic Chemistry*, **2008**, 73, 7702-9	4.2	31
89	Water-Soluble Conjugated Polymers for the Detection and Inhibition of Protein Aggregation. *Advanced Functional Materials*, **2016**, 26, 9026-9031	15.6	30
88	THz Generation and Detection by Fluorenone Based Organic Crystals. *ACS Photonics*, **2018**, 5, 671-677	6.3	29
87	Graphdiyne-hybridized N-doped TiO2 nanosheets for enhanced visible light photocatalytic activity. *Journal of Materials Science*, **2018**, 53, 8921-8932	4.3	29
86	Robust thermoelastic microactuator based on an organic molecular crystal. *Nature Communications*, **2019**, 10, 4573	17.4	29
85	Strategies To Increase the Thermal Stability of Truly Biomimetic Hydrogels: Combining Hydrophobicity and Directed Hydrogen Bonding. *Macromolecules*, **2017**, 50, 9058-9065	5.5	28
84	Utilizing an effective framework to dye energy transfer in a carbazole-based metal–organic framework for high performance white light emission tuning. *Inorganic Chemistry Frontiers*, **2018**, 5, 2868-2874	6.8	28
83	Nano-porous architecture of N-doped carbon nanorods grown on graphene to enable synergetic effects of supercapacitance. *Scientific Reports*, **2014**, 4, 7426	4.9	27
82	Wavelength dependent nonlinear optical response of tetraphenylethene aggregation-induced emission luminogens. *Materials Chemistry Frontiers*, **2018**, 2, 2263-2271	7.8	27
81	Gold nanoparticle-based monitoring of the reduction of oxidized to reduced glutathione. *Langmuir*, **2007**, 23, 8815-9	4	26
80	Nanoscale Study of Polymer Dynamics. *ACS Nano*, **2016**, 10, 1434-41	16.7	25
79	Large third-order optical nonlinear effects of gold nanoparticles with unusual fluorescence enhancement. *Langmuir*, **2008**, 24, 8297-302	4	25
78	Crystal Hierarchical Supramolecular Architectures from 1-D Precursor Single-Crystal Seeds. *Journal of Physical Chemistry C*, **2010**, 114, 2925-2931	3.8	24

77	Synthesis of N-confused phlorins via an addition/cyclization pathway. *Journal of Organic Chemistry*, **2006**, 71, 9739-42	4.2	23
76	Theoretical and experimental investigations of nanosecond 177.3 nm deep-ultraviolet light by second harmonic generation in KBBF. *Applied Physics B: Lasers and Optics*, **2009**, 96, 415-422	1.9	22
75	Fabrication of Homogeneous Hybrid Nanorod of Organic/Inorganic Semiconductor Materials. *Journal of Physical Chemistry C*, **2008**, 112, 8223-8228	3.8	22
74	Solvent dependent linear and nonlinear optical properties of triphenylamine unit incorporated difluoroboron β-diketonate complexes. *Dyes and Pigments*, **2019**, 162, 776-785	4.6	22
73	A 200 W diode-side-pumped CW 2 μm Tm:YAG laser with water cooling at 8°C. *Applied Physics B: Lasers and Optics*, **2011**, 103, 83-88	1.9	20
72	Strong optical nonlinearities of self-assembled polymorphic microstructures of phenylethynyl functionalized fluorenones. *Chinese Chemical Letters*, **2018**, 29, 297-300	8.1	20
71	Synergistically Directed Assembly of Aromatic Stacks Based Metal-Organic Frameworks by Donor-Acceptor and Coordination Interactions. *Chinese Journal of Chemistry*, **2019**, 37, 871-877	4.9	19
70	Denitrogenation of Straight-run Diesel With Complexing Extraction. *Petroleum Science and Technology*, **2013**, 31, 777-782	1.4	19
69	Conjugated Polymer-Based Hybrid Materials for Turn-On Detection of CO2 in Plant Photosynthesis. *Analytical Chemistry*, **2016**, 88, 6593-7	7.8	18
68	Controlled aggregation of functionalized gold nanoparticles with a novel conjugated oligomer. *ChemPhysChem*, **2007**, 8, 906-12	3.2	18
67	Benchmark selectivity -xylene separation by a non-porous molecular solid through liquid or vapor extraction. *Chemical Science*, **2019**, 10, 8850-8854	9.4	17
66	The effect of several microalgae isolated from East China Sea on growth and survival rate of postset juveniles of razor clam, Sinonovacula constricta (Lamarck, 1818). *Aquaculture Nutrition*, **2016**, 22, 846-856	3.2	17
65	Aggregation-induced emission materials for nonlinear optics. *Aggregate*, **2021**, 2, e28	22.9	17
64	High-efficiency high-power QCW diode-side-pumped zigzag Nd:YAG ceramic slab laser. *Applied Physics B: Lasers and Optics*, **2013**, 111, 111-116	1.9	16
63	Crystalline Porous Materials for Nonlinear Optics. *Small*, **2021**, 17, e2006416	11	16
62	Controlling the gelation temperature of biomimetic polyisocyanides. *Chinese Chemical Letters*, **2018** , 29, 281-284	8.1	16
61	Compositing Two-Dimensional Materials with TiO2 for Photocatalysis. *Catalysts*, **2018**, 8, 590	4	16
60	Third- and high-order nonlinear optical properties of an intramolecular charge-transfer compound. *RSC Advances*, **2017**, 7, 4825-4829	3.7	15

59	Engineering Donor–Acceptor Heterostructure Metal–Organic Framework Crystals for Photonic Logic Computation. *Angewandte Chemie*, **2019**, 131, 14028-14034	3.6	15
58	Construction of Large-Scale Highly Ordered Macroporous Monoliths of π-Conjugated Polymers. *Macromolecular Rapid Communications*, **2009**, 30, 1940-4	4.8	15
57	Enhanced Second Harmonic Generation from Ferroelectric HfO-Based Hybrid Metasurfaces. *ACS Nano*, **2019**, 13, 1213-1222	16.7	15
56	Safety regulation of gel electrolytes in electrochemical energy storage devices. *Science China Materials*, **2019**, 62, 1556-1573	7.1	13
55	Polymorph dependent linear and nonlinear optical properties of naphthalenyl functionalized fluorenones. *Dyes and Pigments*, **2019**, 166, 272-282	4.6	13
54	A novel supramolecular system: combination of two switchable processes in a [2]rotaxane. *Chemistry - an Asian Journal*, **2008**, 3, 2091-6	4.5	13
53	Recent Progress in Luminous Particle-Encapsulated Host–Guest Metal-Organic Frameworks for Optical Applications. *Advanced Optical Materials*,2100283	8.1	13
52	Drastic photoluminescence modulation of an organic molecular crystal with high pressure. *Materials Chemistry Frontiers*, **2019**, 3, 1510-1517	7.8	12
51	Chiral Hybrid Copper(I) Halides for High Efficiency Second Harmonic Generation with a Broadband Transparency Window.. *Angewandte Chemie - International Edition*, **2022**,	16.4	12
50	Tin-Based Chiral Perovskites with Second-Order Nonlinear Optical Properties. *Advanced Photonics Research*,2100056	1.9	12
49	Dielectric phase transition of an ABX-type perovskite with a pentahedral to octahedral transformation. *Dalton Transactions*, **2020**, 49, 2218-2224	4.3	11
48	Temperature-dependent uniaxial ratchetting of ultra-high molecular weight polyethylene. *Fatigue and Fracture of Engineering Materials and Structures*, **2016**, 39, 839-849	3	11
47	Controlling the Growth of Molecular Crystal Aggregates with Distinct Linear and Nonlinear Optical Properties. *ACS Applied Materials & Interfaces*, **2017**, 9, 30862-30871	9.5	11
46	Graphdiyne Nanosheets for Multicolor Random Lasers. *ACS Applied Nano Materials*, **2020**, 3, 4990-4996	5.6	11
45	1D Chiral Lead Halide Perovskites with Superior Second-Order Optical Nonlinearity. *Advanced Optical Materials*,2101545	8.1	10
44	Electrocatalytic Oxidation of Formic Acid at Pt Modified Electrodes: Substrate Effect of Unsintered Au Nano-Structure. *Fuel Cells*, **2012**, 12, 971-977	2.9	9
43	High-power diode side-pumped Nd:YAG laser on the low gain three lines near 1.1 μm. *Applied Physics B: Lasers and Optics*, **2011**, 104, 45-52	1.9	9
42	Enhanced photovoltaic performance of dye-sensitized solar cells (DSSCs) using graphdiyne-doped TiO2 photoanode. *Journal of Materials Science*, **2019**, 54, 4893-4904	4.3	9

41	Functionalized twistacenes for solid state nonlinear optical materials. *Dyes and Pigments*, **2018**, 149, 876-881	4.6	9
40	A fluorescent responsive tetraphenylethene based metal□organic framework. *Inorganic Chemistry Communication*, **2019**, 105, 20-25	3.1	8
39	A novel amphiphilic fluorescent probe BODIPY--CMC-cRGD as a biomarker and nanoparticle vector.. *RSC Advances*, **2018**, 8, 20087-20094	3.7	8
38	Solvent induced enhancement of nonlinear optical response of graphdiyne. *Chinese Chemical Letters*, **2021**, 32, 525-528	8.1	8
37	Multi-functional Nanodrug Based on a Three-dimensional Framework for Targeted Photo-chemo Synergetic Cancer Therapy. *Advanced Healthcare Materials*, **2021**, 10, e2001874	10.1	8
36	Template Controlled Synthesis of Mesoporous TiO2Particles for Efficient Photoanodes in Dye Sensitized Solar Cells. *Journal of the Electrochemical Society*, **2018**, 165, F1-F6	3.9	7
35	A 7.5 W quasi-continuous-wave sodium D2 laser generated from single-pass sum-frequency generation in LBO crystal. *Applied Physics B: Lasers and Optics*, **2011**, 102, 781-787	1.9	7
34	Induced helix formation and stabilization of a meta-linked polymer containing pyridine units. *Journal of Polymer Science Part A*, **2007**, 45, 1403-1412	2.5	7
33	Confining Potential as a Function of Polymer Stiffness and Concentration in Entangled Polymer Solutions. *Journal of Physical Chemistry B*, **2017**, 121, 5613-5620	3.4	6
32	Yb(III)-based MOFs with different bulky backbone ligands for optical detection and degradation of organic molecules in wastewater. *Polyhedron*, **2018**, 154, 411-419	2.7	6
31	Hydrothermal Synthesis of Copper Hydroxyphosphate Hierarchical Architectures. *Chemical Engineering and Technology*, **2012**, 35, 2189-2194	2	6
30	Fully Controllable Structural Phase Transition in Thermomechanical Molecular Crystals with a Very Small Thermal Hysteresis. *Small*, **2021**, 17, e2006757	11	6
29	Energy Conversion in Single-Crystal-to-Single-Crystal Phase Transition Materials. *Advanced Energy Materials*,2100324	21.8	6
28	Nonlinear Optical Perovskites: Halide Perovskites for Nonlinear Optics (Adv. Mater. 3/2020). *Advanced Materials*, **2020**, 32, 2070017	24	5
27	Chiral Perovskite: Chiral Perovskites: Promising Materials toward Next-Generation Optoelectronics (Small 39/2019). *Small*, **2019**, 15, 1970209	11	5
26	Comparison of PAH and nonylphenol uptake by carp (Cyprinus carpio) and semipermeable membrane devices (SPMDs) from water. *Bulletin of Environmental Contamination and Toxicology*, **2006**, 77, 211-8	2.7	5
25	SDS-Catalyzed Esterification Process to Synthesize Ethyl Chloroacetate. *Petroleum Science and Technology*, **2011**, 29, 462-467	1.4	4
24	An air-stable two-dimensional perovskite artificial synapse. *Semiconductor Science and Technology*, **2020**, 35, 104001	1.8	4

23	Atomic-Level Functionalized Graphdiyne for Electrocatalysis Applications. *Catalysts*, **2020**, 10, 929	4	4
22	Consecutive and Extensive Transition of Luminescent Color of an Organic Solid Material by Applying High Pressure. *Journal of Physical Chemistry C*, **2020**, 124, 14911-14917	3.8	3
21	Leaching behavior of copper (II) in a soil column experiment. *Bulletin of Environmental Contamination and Toxicology*, **2005**, 75, 1028-33	2.7	3
20	Supramolecular Cages Based on a Silver Complex as Adaptable Hosts for Poly-Aromatic Hydrocarbons. *Small*, **2020**, 16, e2001377	11	3
19	Strongly Coupled Systems for Nonlinear Optics. *Laser and Photonics Reviews*, **2021**, 15, 2000514	8.3	3
18	Nonlinear optics of graphdiyne. *Materials Chemistry Frontiers*, **2021**, 5, 6413-6428	7.8	3
17	Photodetectors: Graphdiyne-Based Flexible Photodetectors with High Responsivity and Detectivity (Adv. Mater. 23/2020). *Advanced Materials*, **2020**, 32, 2070175	24	2
16	The Determination of Diesel Density and Refractive Index by Near Infrared Spectroscopy. *Petroleum Science and Technology*, **2013**, 31, 2489-2493	1.4	2
15	Nonlinear Optical Materials **2016**,		2
14	Crystallization-induced emission enhancement of highly electron-deficient dicyanomethylene-bridged triarylboranes. *Chemical Communications*, **2021**, 57, 7926-7929	5.8	2
13	0D Chiral Hybrid Indium(III) Halides for Second Harmonic Generation. *Dalton Transactions*,	4.3	2
12	Self-Assembled Nonlinear Optical Crystals Based on an Asymmetric Fluorenone Derivative. *Crystal Growth and Design*,	3.5	2
11	Innenrücktitelbild: Engineering Donor–Acceptor Heterostructure Metal–Organic Framework Crystals for Photonic Logic Computation (Angew. Chem. 39/2019). *Angewandte Chemie*, **2019**, 131, 14135-14135	3.6	1
10	The Determination of a Diesel Solidifying Point by Near Infrared Spectroscopy. *Petroleum Science and Technology*, **2013**, 31, 1974-1979	1.4	1
9	Molecular Dynamics Study on Permeability of Gas Molecules through Amorphous PPX Polymers. *International Polymer Processing*, **2013**, 28, 24-33	1	1
8	Leaching of copper from an industrial sludge applied on a soil column. *Bulletin of Environmental Contamination and Toxicology*, **2006**, 76, 663-70	2.7	1
7	Aggregation Induced Emission and Nonlinear Optical Properties of an Intramolecular Charge-Transfer Compound. *Materials*, **2021**, 14,	3.5	1
6	Graphdiyne: Electronics, Thermoelectrics, and Magnetism Applications **2022**, 315-339		0

5	Optical Properties and Applications of Crystalline Materials. *Advanced Optical Materials*, **2021**, 9, 2102398	8.1	0
4	Electrochromic Two-dimensional Covalent Organic Framework with a Reversible Dark-to-transparent Switch. *Chemical Research in Chinese Universities*, **2021**, 37, 185-186	2.2	0
3	Geminiarene: A New Macrocyclic Arene with Dual/Gemini Molecular Conformation and Guest Selectivity in the Solid State. *Chemical Research in Chinese Universities*, **2019**, 35, 745-746	2.2	
2	The Application of Sulfonate DNW-1 Resin Catalyst in the Synthesis of Methyl Palmitate. *Petroleum Science and Technology*, **2011**, 29, 2299-2305	1.4	
1	Optically Active Materials: Aggregation Induced Enhancement of Linear and Nonlinear Optical Emission from a Hexaphenylene Derivative (Adv. Funct. Mater. 48/2016). *Advanced Functional Materials*, **2016**, 26, 9083-9083	15.6	