

Zhongjun Li

List of Publications by Year in descending order

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99
papers

9,759
citations

43973

48
h-index

35952

97
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103
all docs

103
docs citations

103
times ranked

10551
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-dimensional transition metal carbides and nitrides (MXenes) for biomedical applications. <i>Chemical Society Reviews</i> , 2018, 47, 5109-5124.	18.7	749
2	Novel concept of the smart NIR-light-controlled drug release of black phosphorus nanostructure for cancer therapy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 501-506.	3.3	657
3	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 11896-11900.	7.2	465
4	Ultrathin 2D Nonlayered Tellurium Nanosheets: Facile Liquid-Phase Exfoliation, Characterization, and Photoresponse with High Performance and Enhanced Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1705833.	7.8	348
5	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Self-Powered Photodetector. <i>Advanced Functional Materials</i> , 2017, 27, 1606834.	7.8	342
6	A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy. <i>Advanced Materials</i> , 2018, 30, e1803031.	11.1	318
7	Few-Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. <i>Advanced Energy Materials</i> , 2017, 7, 1700396.	10.2	301
8	Broadband Nonlinear Optical Response in Few-Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability. <i>Advanced Optical Materials</i> , 2017, 5, 1700301.	3.6	269
9	Few-layer antimonene decorated microfiber: ultra-short pulse generation and all-optical thresholding with enhanced long term stability. <i>2D Materials</i> , 2017, 4, 045010.	2.0	260
10	High-Performance Photo-Electrochemical Photodetector Based on Liquid-Exfoliated Few-Layered InSe Nanosheets with Enhanced Stability. <i>Advanced Functional Materials</i> , 2018, 28, 1705237.	7.8	258
11	Tumor Microenvironment Stimuli-Responsive Fluorescence Imaging and Synergistic Cancer Therapy by Carbon-Dot-Cu ²⁺ Nanoassemblies. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 21041-21048.	7.2	235
12	Graphene oxide/black phosphorus nanoflake aerogels with robust thermo-stability and significantly enhanced photothermal properties in air. <i>Nanoscale</i> , 2017, 9, 8096-8101.	2.8	207
13	Carbon Dots with Dual-Emissive, Robust, and Aggregation-Induced Room-Temperature Phosphorescence Characteristics. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 1263-1269.	7.2	198
14	Conceptually Novel Black Phosphorus/Cellulose Hydrogels as Promising Photothermal Agents for Effective Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701510.	3.9	188
15	Ce6-Modified Carbon Dots for Multimodal-Imaging-Guided and Single-NIR-Laser-Triggered Photothermal/Photodynamic Synergistic Cancer Therapy by Reduced Irradiation Power. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 5791-5803.	4.0	172
16	Tumor Microenvironment Stimuli-Responsive Fluorescence Imaging and Synergistic Cancer Therapy by Carbon-Dot-Cu ²⁺ Nanoassemblies. <i>Angewandte Chemie</i> , 2020, 132, 21227-21234.	1.6	171
17	Facile fabrication and characterization of two-dimensional bismuth(III) sulfide nanosheets for high-performance photodetector applications under ambient conditions. <i>Nanoscale</i> , 2018, 10, 2404-2412.	2.8	166
18	Two-dimensional non-layered selenium nanoflakes: facile fabrications and applications for self-powered photo-detector. <i>Nanotechnology</i> , 2019, 30, 114002.	1.3	161

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19	A black/red phosphorus hybrid as an electrode material for high-performance Li-ion batteries and supercapacitors. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6581-6588.	5.2	160
20	Revealing of the ultrafast third-order nonlinear optical response and enabled photonic application in two-dimensional tin sulfide. <i>Photonics Research</i> , 2019, 7, 494.	3.4	159
21	Flexible Metal-Air Batteries: Progress, Challenges, and Perspectives. <i>Small Methods</i> , 2018, 2, 1700231.	4.6	157
22	Black-phosphorus-analogue tin monosulfide: an emerging optoelectronic two-dimensional material for high-performance photodetection with improved stability under ambient/harsh conditions. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9582-9593.	2.7	153
23	Fluorinated Phosphorene: Electrochemical Synthesis, Atomistic Fluorination, and Enhanced Stability. <i>Small</i> , 2017, 13, 1702739.	5.2	150
24	Unusual continuous dual absorption peaks in Ca-doped BiFeO ₃ nanostructures for broadened microwave absorption. <i>Nanoscale</i> , 2016, 8, 10415-10424.	2.8	147
25	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. <i>Light: Science and Applications</i> , 2020, 9, 161.	7.7	145
26	Black phosphorus analogue tin sulfide nanosheets: synthesis and application as near-infrared photothermal agents and drug delivery platforms for cancer therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 4747-4755.	2.9	137
27	Afterglow of carbon dots: mechanism, strategy and applications. <i>Materials Chemistry Frontiers</i> , 2020, 4, 386-399.	3.2	137
28	Photoacoustic Stimulated Polychromatic Room Temperature Phosphorescence of Carbon Dots. <i>Small</i> , 2020, 16, e2001909.	5.2	125
29	THz photonics in two dimensional materials and metamaterials: properties, devices and prospects. <i>Journal of Materials Chemistry C</i> , 2018, 6, 1291-1306.	2.7	124
30	Enhanced luminescence and tunable magnetic properties of lanthanide coordination polymers based on fluorine substitution and phenanthroline ligand. <i>RSC Advances</i> , 2019, 9, 16328-16338.	1.7	123
31	MXene-Based Nonlinear Optical Information Converter for All-Optical Modulator and Switcher. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800215.	4.4	117
32	Ultrathin GeSe Nanosheets: From Systematic Synthesis to Studies of Carrier Dynamics and Applications for a High-Performance UV-Vis Photodetector. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 4278-4287.	4.0	105
33	Two-dimensional bismuth nanosheets as prospective photo-detector with tunable optoelectronic performance. <i>Nanotechnology</i> , 2018, 29, 235201.	1.3	98
34	Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy. <i>Angewandte Chemie</i> , 2017, 129, 12058-12062.	1.6	93
35	Mn-Doped g-C ₃ N ₄ Nanoribbon for Efficient Visible-Light Photocatalytic Water Splitting Coupling with Methylene Blue Degradation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8754-8761.	3.2	93
36	Black phosphorus nanosheets for rapid microRNA detection. <i>Nanoscale</i> , 2018, 10, 5060-5064.	2.8	91

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37	Polydopamine-functionalized black phosphorus quantum dots for cancer theranostics. <i>Applied Materials Today</i> , 2019, 15, 297-304.	2.3	86
38	Graphene/phosphorene nano-heterojunction: facile synthesis, nonlinear optics, and ultrafast photonics applications with enhanced performance. <i>Photonics Research</i> , 2017, 5, 662.	3.4	85
39	Design and Tailoring of the 3D Macroporous Hydrous RuO ₂ Hierarchical Architectures with a Hard-Template Method for High-Performance Supercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 4577-4586.	4.0	84
40	TiO ₂ supported single Ag atoms nanozyme for elimination of SARS-CoV2. <i>Nano Today</i> , 2021, 40, 101243.	6.2	76
41	Refractive Index Sensors Based on Ti ₃ C ₂ T _x MXene Fibers. <i>ACS Applied Nano Materials</i> , 2020, 3, 303-311.	2.4	74
42	In Situ Synthesis of Fluorescent Mesoporous Silica@Carbon Dot Nanohybrids Featuring Folate Receptor-Overexpressing Cancer Cell Targeting and Drug Delivery. <i>Nano-Micro Letters</i> , 2019, 11, 32.	14.4	70
43	Preparation of Multicolor Photoluminescent Carbon Dots by Tuning Surface States. <i>Nanomaterials</i> , 2019, 9, 529.	1.9	70
44	Brain-targeted delivery shuttled by black phosphorus nanostructure to treat Parkinson's disease. <i>Biomaterials</i> , 2020, 260, 120339.	5.7	66
45	Microwave permittivity and permeability experiments in high-loss dielectrics: Caution with implicit Fabry-Pérot resonance for negative imaginary permeability. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	58
46	Fascinating MXene nanomaterials: emerging opportunities in the biomedical field. <i>Biomaterials Science</i> , 2021, 9, 5437-5471.	2.6	58
47	Few Layered BiOBr with Expanded Interlayer Spacing and Oxygen Vacancies for Efficient Decomposition of Real Oil Field Produced Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13739-13746.	3.2	54
48	Greener synthesis of electrospun collagen/hydroxyapatite composite fibers with an excellent microstructure for bone tissue engineering. <i>International Journal of Nanomedicine</i> , 2015, 10, 3203.	3.3	52
49	Two-dimensional beta-lead oxide quantum dots. <i>Nanoscale</i> , 2018, 10, 20540-20547.	2.8	49
50	Insights into NHC-catalyzed oxidative α -C(sp ³)-H activation of aliphatic aldehydes and cascade [2 + 3] cycloaddition with azomethine imines. <i>Catalysis Science and Technology</i> , 2019, 9, 2514-2522.	2.1	48
51	Optoelectronic Gas Sensor Based on Few-Layered InSe Nanosheets for NO ₂ Detection with Ultrahigh Antihumidity Ability. <i>Analytical Chemistry</i> , 2020, 92, 11277-11287.	3.2	47
52	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. <i>ACS Applied Energy Materials</i> , 2019, 2, 4774-4781.	2.5	46
53	Targeted graphene oxide for drug delivery as a therapeutic nanoplatform against Parkinson's disease. <i>Biomaterials Science</i> , 2021, 9, 1705-1715.	2.6	46
54	Lithium Benzenedithiolate Catholytes for Rechargeable Lithium Batteries. <i>Advanced Functional Materials</i> , 2019, 29, 1902223.	7.8	44

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55	Self-powered photodetectors based on 0D/2D mixed dimensional heterojunction with black phosphorus quantum dots as hole accepters. <i>Applied Materials Today</i> , 2020, 20, 100765.	2.3	44
56	Challenges and future perspectives on microwave absorption based on two-dimensional materials and structures. <i>Nanotechnology</i> , 2020, 31, 162001.	1.3	42
57	Insights into N-Heterocyclic Carbene-Catalyzed Oxidative α -C(sp ³) α -H Activation of Aliphatic Aldehydes and Cascade [2 + 2] Cycloaddition with Ketimines. <i>Journal of Organic Chemistry</i> , 2019, 84, 6117-6125.	1.7	42
58	The Ultrasmall Biocompatible CuS@BSA Nanoparticle and Its Photothermal Effects. <i>Frontiers in Pharmacology</i> , 2019, 10, 141.	1.6	42
59	Mg-substitution for promoting magnetic and ferroelectric properties of BiFeO ₃ multiferroic nanoparticles. <i>Materials Letters</i> , 2016, 175, 207-211.	1.3	40
60	Robust Above-Room-Temperature Ferromagnetism in Few-Layer Antimonene Triggered by Nonmagnetic Adatoms. <i>Advanced Functional Materials</i> , 2019, 29, 1808746.	7.8	38
61	A new collagen solution with high concentration and collagen native structure perfectly preserved. <i>RSC Advances</i> , 2015, 5, 87180-87186.	1.7	35
62	Insights into the N-Heterocyclic Carbene (NHC)-Catalyzed Intramolecular Cyclization of Aldimines: General Mechanism and Role of Catalyst. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1710-1718.	1.7	34
63	Synthesis of fluorescent polymeric carbon nitride quantum dots in molten salts for security inks. <i>New Journal of Chemistry</i> , 2017, 41, 14918-14923.	1.4	31
64	A Fully Integrated Flexible Tunable Chemical Sensor Based on Gold-Modified Indium Selenide Nanosheets. <i>ACS Sensors</i> , 2022, 7, 1183-1193.	4.0	29
65	Visible-Light-Excited Room Temperature Phosphorescent Carbon Dots. <i>Nanomaterials</i> , 2020, 10, 464.	1.9	28
66	Alumina nanofibers obtained via electrospinning of pseudo-boehmite sol/PVP solution. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 72-80.	1.1	27
67	High-Performance Li-CO ₂ Batteries with α -MnO ₂ /CNT Cathodes. <i>Journal of Electronic Materials</i> , 2019, 48, 4653-4659.	1.0	27
68	Fabrication and characterization of fibrous HAP/PVP/PEO composites prepared by sol-electrospinning. <i>RSC Advances</i> , 2014, 4, 16731.	1.7	25
69	A self-encapsulated broadband phototransistor based on a hybrid of graphene and black phosphorus nanosheets. <i>Nanoscale Advances</i> , 2020, 2, 1059-1065.	2.2	22
70	Tumor-specific and photothermal-augmented chemodynamic therapy by ferrocene-carbon dot-crosslinked nanoparticles. <i>SmartMat</i> , 2022, 3, 311-322.	6.4	21
71	Band structure tuning of α -MoO ₃ by tin intercalation for ultrafast photonic applications. <i>Nanoscale</i> , 2020, 12, 23140-23149.	2.8	20
72	Supra-Carbon Dots Formed by Fe ³⁺ -Driven Assembly for Enhanced Tumor-Specific Photo-Mediated and Chemodynamic Synergistic Therapy. <i>ACS Applied Bio Materials</i> , 2021, 4, 2759-2768.	2.3	19

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73	Programmed Stimuli-Responsive Carbon Dot-Nanogel Hybrids for Imaging-Guided Enhanced Tumor Phototherapy. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 10142-10153.	4.0	19
74	Unveiling the Stimulated Robust Carrier Lifetime of Surface-Bound Excitons and Their Photoresponse in InSe. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900171.	1.9	18
75	Carbon Dots with Dual-Emissive, Robust, and Aggregation-Induced Room-Temperature Phosphorescence Characteristics. <i>Angewandte Chemie</i> , 2020, 132, 1279-1285.	1.6	18
76	Surface engineering on a nanocatalyst: basic zinc salt nanoclusters improve catalytic performances of Ru nanoparticles. <i>Journal of Materials Chemistry A</i> , 2016, 4, 17694-17703.	5.2	16
77	Theoretical Study on DBU-Catalyzed Insertion of Isatins into Aryl Difluoronitromethyl Ketones: A Case for Predicting Chemoselectivity Using Electrophilic Parr Function. <i>ACS Omega</i> , 2017, 2, 7029-7038.	1.6	16
78	Bioadhesion-inspired fabrication of robust thin-film composite membranes with tunable solvent permeation properties. <i>RSC Advances</i> , 2016, 6, 103981-103992.	1.7	15
79	Heterophase-structured nanocrystals as superior supports for Ru-based catalysts in selective hydrogenation of benzene. <i>Scientific Reports</i> , 2017, 7, 39847.	1.6	14
80	Au Nanoparticle Modification Induces Charge-Transfer Channels to Enhance the Electrocatalytic Hydrogen Evolution Reaction of InSe Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 2908-2917.	4.0	14
81	Recent advances of multidimensional sensing: from design to applications. <i>Science China Chemistry</i> , 2019, 62, 1601-1618.	4.2	13
82	A Facile Approach to Carbon Dots-Mesoporous Silica Nanohybrids and Their Applications for Multicolor and Two-Photon Imaging Guided Chemo-Photothermal Synergistic Oncotherapy. <i>ChemNanoMat</i> , 2020, 6, 953-962.	1.5	12
83	Insight into the factors influencing the photocatalytic H ₂ evolution performance of molybdenum sulfide. <i>New Journal of Chemistry</i> , 2019, 43, 1230-1237.	1.4	11
84	Two-dimensional tin diselenide nanosheets pretreated with an alkaloid for near- and mid-infrared ultrafast photonics. <i>Photonics Research</i> , 2020, 8, 1687.	3.4	10
85	Two-dimensional gold decorated indium selenide for near-infrared and mid-infrared ultrafast photonics. <i>Optics and Laser Technology</i> , 2022, 150, 107920.	2.2	10
86	Preparation and Characterization of Phosphorylated Collagen and Hydroxyapatite Composite as a Potential Bone Substitute. <i>Chemistry Letters</i> , 2013, 42, 83-85.	0.7	9
87	Anchoring RuO ₂ Nanoparticles on Ultrathin Porous Carbon Shell toward High Performance Lithium-Sulfur Batteries. <i>ChemistrySelect</i> , 2019, 4, 7463-7469.	0.7	8
88	Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. <i>Nanophotonics</i> , 2020, 9, 3023-3034.	2.9	7
89	In Situ Synthesis of Sulfur Host with Chemisorption and Electrocatalytic Capability toward High-Performance Lithium-Sulfur Batteries. <i>Energy Technology</i> , 2019, 7, 1900015.	1.8	6
90	Designable Hierarchical Cathode for a High-Efficiency Polysulfide Trapper Toward High-Performance Lithium-Sulfur Batteries. <i>Journal of Electronic Materials</i> , 2019, 48, 551-559.	1.0	6

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91	Dynamics of broadband photoinduced species and enabled photodetection in MXenes. <i>Nanophotonics</i> , 2022, 11, 3139-3148.	2.9	6
92	Controllable synthesis of multi-morphological SrWO ₄ :Ln ³⁺ (Ln = Eu, Tb) hierarchical structures and their luminescence properties. <i>CrystEngComm</i> , 2019, 21, 6482-6490.	1.3	5
93	Indium selenide for Q-switched pulse generation in a mid-infrared fiber laser. <i>Journal of Materials Chemistry C</i> , 2021, 9, 5893-5898.	2.7	5
94	Photodetectors: Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Self-Powered Photodetector (<i>Adv. Funct. Mater.</i> 18/2017). <i>Advanced Functional Materials</i> , 2017, 27, .	7.8	4
95	Quantum Dots: Broadband Nonlinear Optical Response in Few-Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability (<i>Advanced Optical Materials</i>) Tj ETQq1 1 0.784314 rgb /Over	7.8	4
96	Cancer Theranostics: A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy (<i>Adv. Mater.</i> 36/2018). <i>Advanced Materials</i> , 2018, 30, 1870268.	11.1	4
97	Innentitelbild: Antimonene Quantum Dots: Synthesis and Application as Near-Infrared Photothermal Agents for Effective Cancer Therapy (<i>Angew. Chem.</i> 39/2017). <i>Angewandte Chemie</i> , 2017, 129, 11816-11816.	1.6	1
98	2D Ferromagnetism: Robust Above-Room-Temperature Ferromagnetism in Few-Layer Antimonene Triggered by Nonmagnetic Adatoms (<i>Adv. Funct. Mater.</i> 15/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970099.	7.8	1
99	Ultrashort pulse generation in 2.1 μm spectral range using black phosphorus based saturable absorber. , 2017, , .		0