Zhongjun Li

List of Publications by Year
in descending order

99 papers	9,759 citations	44069 48 h-index	36028 97 g-index
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. Chemical Society Reviews, 2018, 47, 5109-5124.	38.1	749
2	Novel concept of the smart NIR-lightâ€“controlled drug release of black phosphorus nanostructure for cancer therapy. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 501-506.	7.1	657
3	Antimonene Quantum Dots: Synthesis and Application as Nearâ€Infrared Photothermal Agents for Effective Cancer Therapy. Angewandte Chemie - International Edition, 2017, 56, 11896-11900.	13.8	465
4	Ultrathin 2D Nonlayered Tellurium Nanosheets: Facile Liquidâ€Phase Exfoliation, Characterization, and Photoresponse with High Performance and Enhanced Stability. Advanced Functional Materials, 2018, 28, 1705833.	14.9	348
5	Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Selfâ€Powered Photodetector. Advanced Functional Materials, 2017, 27, 1606834.	14.9	342
6	A Novel Topâ€Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imagingâ€Guided Cancer Therapy. Advanced Materials, 2018, 30, e1803031.	21.0	318
7	Fewâ€Layer Black Phosphorus Nanosheets as Electrocatalysts for Highly Efficient Oxygen Evolution Reaction. Advanced Energy Materials, 2017, 7, 1700396.	19.5	301
8	Broadband Nonlinear Optical Response in Fewâ€Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability. Advanced Optical Materials, 2017, 5, 1700301.	7.3	269
9	Few-layer antimonene decorated microfiber: ultra-short pulse generation and all-optical thresholding with enhanced long term stability. 2D Materials, 2017, 4, 045010.	4.4	260
10	Highâ€Performance Photoâ€Electrochemical Photodetector Based on Liquidâ€Exfoliated Fewâ€Layered InSe Nanosheets with Enhanced Stability. Advanced Functional Materials, 2018, 28, 1705237.	14.9	258
11	Tumor Microenvironment Stimuliâ€Responsive Fluorescence Imaging and Synergistic Cancer Therapy by Carbonâ€Dotâ€“Cu²⁺ Nanoassemblies. Angewandte Chemie - International Edition, 2020, 59, 21041-21048.	13.8	235
12	Graphene oxide/black phosphorus nanoflake aerogels with robust thermo-stability and significantly enhanced photothermal properties in air. Nanoscale, 2017, 9, 8096-8101.	5.6	207
13	Carbon Dots with Dualâ€Emissive, Robust, and Aggregationâ€Induced Roomâ€Temperature Phosphorescence Characteristics. Angewandte Chemie - International Edition, 2020, 59, 1263-1269.	13.8	198
14	Conceptually Novel Black Phosphorus/Cellulose Hydrogels as Promising Photothermal Agents for Effective Cancer Therapy. Advanced Healthcare Materials, 2018, 7, e1701510.	7.6	188
15	Ce6-Modified Carbon Dots for Multimodal-Imaging-Guided and Single-NIR-Laser-Triggered Photothermal/Photodynamic Synergistic Cancer Therapy by Reduced Irradiation Power. ACS Applied Materials & Interfaces, 2019, 11, 5791-5803.	8.0	172
16	Tumor Microenvironment Stimuliâ€Responsive Fluorescence Imaging and Synergistic Cancer Therapy by Carbonâ€Dotâ€“Cu²⁺ Nanoassemblies. Angewandte Chemie, 2020, 132, 21227-21234.	2.0	171
17	Facile fabrication and characterization of two-dimensional bismuth(<scp>iii</scp>) sulfide nanosheets for high-performance photodetector applications under ambient conditions. Nanoscale, 2018, 10, 2404-2412.	5.6	166
18	Two-dimensional non-layered selenium nanoflakes: facile fabrications and applications for self-powered photo-detector. Nanotechnology, 2019, 30, 114002.	2.6	161

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19	A black/red phosphorus hybrid as an electrode material for high-performance Li-ion batteries and supercapacitors. Journal of Materials Chemistry A, 2017, 5, 6581-6588.	10.3	160
20	Revealing of the ultrafast third-order nonlinear optical response and enabled photonic application in two-dimensional tin sulfide. Photonics Research, 2019, 7, 494.	7.0	159
21	Flexible Metalâ€"Air Batteries: Progress, Challenges, and Perspectives. Small Methods, 2018, 2, 1700231.	8.6	157
22	Black-phosphorus-analogue tin monosulfide: an emerging optoelectronic two-dimensional material for high-performance photodetection with improved stability under ambient/harsh conditions. Journal of Materials Chemistry C, 2018, 6, 9582-9593.	5.5	153
23	Fluorinated Phosphorene: Electrochemical Synthesis, Atomistic Fluorination, and Enhanced Stability. Small, 2017, 13, 1702739.	10.0	150
24	Unusual continuous dual absorption peaks in Ca-doped BiFeO₃nanostructures for broadened microwave absorption. Nanoscale, 2016, 8, 10415-10424.	5.6	147
25	Black phosphorus-based photothermal therapy with aCD47-mediated immune checkpoint blockade for enhanced cancer immunotherapy. Light: Science and Applications, 2020, 9, 161.	16.6	145
26	Black phosphorus analogue tin sulfide nanosheets: synthesis and application as near-infrared photothermal agents and drug delivery platforms for cancer therapy. Journal of Materials Chemistry B, 2018, 6, 4747-4755.	5.8	137
27	Afterglow of carbon dots: mechanism, strategy and applications. Materials Chemistry Frontiers, 2020, 4, 386-399.	5.9	137
28	Photoâ€Stimulated Polychromatic Room Temperature Phosphorescence of Carbon Dots. Small, 2020, 16, e2001909.	10.0	125
29	THz photonics in two dimensional materials and metamaterials: properties, devices and prospects. Journal of Materials Chemistry C, 2018, 6, 1291-1306.	5.5	124
30	Enhanced luminescence and tunable magnetic properties of lanthanide coordination polymers based on fluorine substitution and phenanthroline ligand. RSC Advances, 2019, 9, 16328-16338.	3.6	123
31	MXeneâ€Based Nonlinear Optical Information Converter for Allâ€Optical Modulator and Switcher. Laser and Photonics Reviews, 2018, 12, 1800215.	8.7	117
32	Ultrathin GeSe Nanosheets: From Systematic Synthesis to Studies of Carrier Dynamics and Applications for a High-Performance UVâ€"Vis Photodetector. ACS Applied Materials & Interfaces, 2019, 11, 4278-4287.	8.0	105
33	Two-dimensional bismuth nanosheets as prospective photo-detector with tunable optoelectronic performance. Nanotechnology, 2018, 29, 235201.	2.6	98
34	Antimonene Quantum Dots: Synthesis and Application as Nearâ€Infrared Photothermal Agents for Effective Cancer Therapy. Angewandte Chemie, 2017, 129, 12058-12062.	2.0	93
35	Mn-Doped g-C₃N₄ Nanoribbon for Efficient Visible-Light Photocatalytic Water Splitting Coupling with Methylene Blue Degradation. ACS Sustainable Chemistry and Engineering, 2018, 6, 8754-8761.	6.7	93
36	Black phosphorus nanosheets for rapid microRNA detection. Nanoscale, 2018, 10, 5060-5064.	5.6	91

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37	Polydopamine-functionalized black phosphorus quantum dots for cancer theranostics. Applied Materials Today, 2019, 15, 297-304.	4.3	86
38	Graphene/phosphorene nano-heterojunction: facile synthesis, nonlinear optics, and ultrafast photonics applications with enhanced performance. Photonics Research, 2017, 5, 662.	7.0	85
39	Design and Tailoring of the 3D Macroporous Hydrous RuO₂ Hierarchical Architectures with a Hard-Template Method for High-Performance Supercapacitors. ACS Applied Materials & Interfaces, 2017, 9, 4577-4586.	8.0	84
40	TiO2 supported single Ag atoms nanozyme for elimination of SARS-CoV2. Nano Today, 2021, 40, 101243.	11.9	76
41	Refractive Index Sensors Based on Ti₃C₂T_x MXene Fibers. ACS Applied Nano Materials, 2020, 3, 303-311.	5.0	74
42	In Situ Synthesis of Fluorescent Mesoporous Silicaâ€“Carbon Dot Nanohybrids Featuring Folate Receptor-Overexpressing Cancer Cell Targeting and Drug Delivery. Nano-Micro Letters, 2019, 11, 32.	27.0	70
43	Preparation of Multicolor Photoluminescent Carbon Dots by Tuning Surface States. Nanomaterials, 2019, 9, 529.	4.1	70
44	Brain-targeted delivery shuttled by black phosphorus nanostructure to treat Parkinson's disease. Biomaterials, 2020, 260, 120339.	11.4	66
45	Microwave permittivity and permeability experiments in high-loss dielectrics: Caution with implicit Fabry-PÃ©rot resonance for negative imaginary permeability. Applied Physics Letters, 2013, 103, .	3.3	58
46	Fascinating MXene nanomaterials: emerging opportunities in the biomedical field. Biomaterials Science, 2021, 9, 5437-5471.	5.4	58
47	Few Layered BiOBr with Expanded Interlayer Spacing and Oxygen Vacancies for Efficient Decomposition of Real Oil Field Produced Wastewater. ACS Sustainable Chemistry and Engineering, 2018, 6, 13739-13746.	6.7	54
48	Greener synthesis of electrospun collagen/hydroxyapatite composite fibers with an excellent microstructure for bone tissue engineering. International Journal of Nanomedicine, 2015, 10, 3203.	6.7	52
49	Two-dimensional beta-lead oxide quantum dots. Nanoscale, 2018, 10, 20540-20547.	5.6	49
50	Insights into NHC-catalyzed oxidative Î±-C(sp³)â€“H activation of aliphatic aldehydes and cascade [2 + 3] cycloaddition with azomethine imines. Catalysis Science and Technology, 2019, 9, 2514-2522.	4.1	48
51	Optoelectronic Gas Sensor Based on Few-Layered InSe Nanosheets for NO₂ Detection with Ultrahigh Antihumidity Ability. Analytical Chemistry, 2020, 92, 11277-11287.	6.5	47
52	Few-Layer Antimonene Nanosheet: A Metal-Free Bifunctional Electrocatalyst for Effective Water Splitting. ACS Applied Energy Materials, 2019, 2, 4774-4781.	5.1	46
53	Targeted graphene oxide for drug delivery as a therapeutic nanoplatform against Parkinson's disease. Biomaterials Science, 2021, 9, 1705-1715.	5.4	46
54	Lithium Benzenedithiolate Catholytes for Rechargeable Lithium Batteries. Advanced Functional Materials, 2019, 29, 1902223.	14.9	44

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55	Self-powered photodetectors based on 0D/2D mixed dimensional heterojunction with black phosphorus quantum dots as hole accepters. Applied Materials Today, 2020, 20, 100765.	4.3	44
56	Challenges and future perspectives on microwave absorption based on two-dimensional materials and structures. Nanotechnology, 2020, 31, 162001.	2.6	42
57	Insights into N-Heterocyclic Carbene-Catalyzed Oxidative Î±-C(sp³)â€“H Activation of Aliphatic Aldehydes and Cascade [2 + 2] Cycloaddition with Ketimines. Journal of Organic Chemistry, 2019, 84, 6117-6125.	3.2	42
58	The Ultrasmall Biocompatible CuS@BSA Nanoparticle and Its Photothermal Effects. Frontiers in Pharmacology, 2019, 10, 141.	3.5	42
59	Mg-substitution for promoting magnetic and ferroelectric properties of BiFeO3 multiferroic nanoparticles. Materials Letters, 2016, 175, 207-211.	2.6	40
60	Robust Aboveâ€Roomâ€Temperature Ferromagnetism in Fewâ€Layer Antimonene Triggered by Nonmagnetic Adatoms. Advanced Functional Materials, 2019, 29, 1808746.	14.9	38
61	A new collagen solution with high concentration and collagen native structure perfectly preserved. RSC Advances, 2015, 5, 87180-87186.	3.6	35
62	Insights into the Nâ€Heterocyclic Carbene (NHC)â€Catalyzed Intramolecular Cyclization of Aldimines: General Mechanism and Role of Catalyst. Chemistry - an Asian Journal, 2018, 13, 1710-1718.	3.3	34
63	Synthesis of fluorescent polymeric carbon nitride quantum dots in molten salts for security inks. New Journal of Chemistry, 2017, 41, 14918-14923.	2.8	31
64	A Fully Integrated Flexible Tunable Chemical Sensor Based on Gold-Modified Indium Selenide Nanosheets. ACS Sensors, 2022, 7, 1183-1193.	7.8	29
65	Visible-Light-Excited Room Temperature Phosphorescent Carbon Dots. Nanomaterials, 2020, 10, 464.	4.1	28
66	Alumina nanofibers obtained via electrospinning of pseudo-boehmite sol/PVP solution. Journal of Sol-Gel Science and Technology, 2014, 70, 72-80.	2.4	27
67	High-Performance Li-CO2 Batteries with Î±-MnO2/CNT Cathodes. Journal of Electronic Materials, 2019, 48, 4653-4659.	2.2	27
68	Fabrication and characterization of fibrous HAP/PVP/PEO composites prepared by sol-electrospinning. RSC Advances, 2014, 4, 16731.	3.6	25
69	A self-encapsulated broadband phototransistor based on a hybrid of graphene and black phosphorus nanosheets. Nanoscale Advances, 2020, 2, 1059-1065.	4.6	22
70	Tumorâ€specific and photothermalâ€augmented chemodynamic therapy by ferroceneâ€carbon dotâ€crosslinked nanoparticles. SmartMat, 2022, 3, 311-322.	10.7	21
71	Band structure tuning of Î±-MoO₃ by tin intercalation for ultrafast photonic applications. Nanoscale, 2020, 12, 23140-23149.	5.6	20
72	Supra-Carbon Dots Formed by Fe³⁺-Driven Assembly for Enhanced Tumor-Specific Photo-Mediated and Chemodynamic Synergistic Therapy. ACS Applied Bio Materials, 2021, 4, 2759-2768.	4.6	19

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73	Programmed Stimuli-Responsive Carbon Dot-Nanogel Hybrids for Imaging-Guided Enhanced Tumor Phototherapy. ACS Applied Materials & Interfaces, 2022, 14, 10142-10153.	8.0	19
74	Unveiling the Stimulated Robust Carrier Lifetime of Surfaceâ€Bound Excitons and Their Photoresponse in InSe. Advanced Materials Interfaces, 2019, 6, 1900171.	3.7	18
75	Carbon Dots with Dualâ€Emissive, Robust, and Aggregationâ€Induced Roomâ€Temperature Phosphorescence Characteristics. Angewandte Chemie, 2020, 132, 1279-1285.	2.0	18
76	Surface engineering on a nanocatalyst: basic zinc salt nanoclusters improve catalytic performances of Ru nanoparticles. Journal of Materials Chemistry A, 2016, 4, 17694-17703.	10.3	16
77	Theoretical Study on DBU-Catalyzed Insertion of Isatins into Aryl Difluoronitromethyl Ketones: A Case for Predicting Chemoselectivity Using Electrophilic Parr Function. ACS Omega, 2017, 2, 7029-7038.	3.5	16
78	Bioadhesion-inspired fabrication of robust thin-film composite membranes with tunable solvent permeation properties. RSC Advances, 2016, 6, 103981-103992.	3.6	15
79	Heterophase-structured nanocrystals as superior supports for Ru-based catalysts in selective hydrogenation of benzene. Scientific Reports, 2017, 7, 39847.	3.3	14
80	Au Nanoparticle Modification Induces Charge-Transfer Channels to Enhance the Electrocatalytic Hydrogen Evolution Reaction of InSe Nanosheets. ACS Applied Materials & Interfaces, 2022, 14, 2908-2917.	8.0	14
81	Recent advances of multidimensional sensing: from design to applications. Science China Chemistry, 2019, 62, 1601-1618.	8.2	13
82	A Facile Approach to Carbon Dotsâ€Mesoporous Silica Nanohybrids and Their Applications for Multicolor and Twoâ€Photon Imaging Guided Chemoâ€/Photothermal Synergistic Oncotherapy. ChemNanoMat, 2020, 6, 953-962.	2.8	12
83	Insight into the factors influencing the photocatalytic H₂ evolution performance of molybdenum sulfide. New Journal of Chemistry, 2019, 43, 1230-1237.	2.8	11
84	Two-dimensional tin diselenide nanosheets pretreated with an alkaloid for near- and mid-infrared ultrafast photonics. Photonics Research, 2020, 8, 1687.	7.0	10
85	Two-dimensional gold decorated indium selenide for near-infrared and mid-infrared ultrafast photonics. Optics and Laser Technology, 2022, 150, 107920.	4.6	10
86	Preparation and Characterization of Phosphorylated Collagen and Hydroxyapatite Composite as a Potential Bone Substitute. Chemistry Letters, 2013, 42, 83-85.	1.3	9
87	Anchoring RuO₂ Nanoparticles on Ultrathin Porous Carbon Shell toward High Performance Lithiumâ€Sulfur Batteries. ChemistrySelect, 2019, 4, 7463-7469.	1.5	8
88	Facile sonochemical-assisted synthesis of orthorhombic phase black phosphorus/rGO hybrids for effective photothermal therapy. Nanophotonics, 2020, 9, 3023-3034.	6.0	7
89	In Situ Synthesis of Sulfur Host with Chemisorption and Electrocatalytic Capability toward Highâ€Performance Lithiumâ€“Sulfur Batteries. Energy Technology, 2019, 7, 1900015.	3.8	6
90	Designable Hierarchical Cathode for a High-Efficiency Polysulfide Trapper Toward High-Performance Lithiumâ€“Sulfur Batteries. Journal of Electronic Materials, 2019, 48, 551-559.	2.2	6

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91	Dynamics of broadband photoinduced species and enabled photodetection in MXenes. Nanophotonics, 2022, 11, 3139-3148.	6.0	6
92	Controllable synthesis of multi-morphological SrWO₄:Ln³⁺ (Ln = Eu, Tb) hierarchical structures and their luminescence properties. CrystEngComm, 2019, 21, 6482-6490.	2.6	5
93	Indium selenide for Q-switched pulse generation in a mid-infrared fiber laser. Journal of Materials Chemistry C, 2021, 9, 5893-5898.	5.5	5
94	Photodetectors: Environmentally Robust Black Phosphorus Nanosheets in Solution: Application for Selfâ€Powered Photodetector (Adv. Funct. Mater. 18/2017). Advanced Functional Materials, 2017, 27, .	14.9	4
95	Quantum Dots: Broadband Nonlinear Optical Response in Fewâ€Layer Antimonene and Antimonene Quantum Dots: A Promising Optical Kerr Media with Enhanced Stability (Advanced Optical Materials) Tj ETQq1 1 0.784314 rgBT /Overlo	7.8	4
96	Cancer Theranostics: A Novel Top-Down Synthesis of Ultrathin 2D Boron Nanosheets for Multimodal Imaging-Guided Cancer Therapy (Adv. Mater. 36/2018). Advanced Materials, 2018, 30, 1870268.	21.0	4
97	Innentitelbild: Antimonene Quantum Dots: Synthesis and Application as Nearâ€Infrared Photothermal Agents for Effective Cancer Therapy (Angew. Chem. 39/2017). Angewandte Chemie, 2017, 129, 11816-11816.	2.0	1
98	2D Ferromagnetism: Robust Aboveâ€Roomâ€Temperature Ferromagnetism in Fewâ€Layer Antimonene Triggered by Nonmagnetic Adatoms (Adv. Funct. Mater. 15/2019). Advanced Functional Materials, 2019, 29, 1970099.	14.9	1
99	Ultrashort pulse generation in 2.1 Î¼m spectral range using black phosphorus based saturable absorber. , 2017, , .		0