

Zhinan Guo

List of Publications by Year in descending order

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62
papers

8,783
citations

76326

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106344

65
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67
all docs

67
docs citations

67
times ranked

8339
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11526-11530.	13.8	906
2	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. <i>Advanced Functional Materials</i> , 2015, 25, 6996-7002.	14.9	862
3	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5003-5007.	13.8	479
4	Metal Ion Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017, 29, 1703811.	21.0	431
5	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.	14.9	348
6	Solvothermal Synthesis and Ultrafast Photonics of Black Phosphorus Quantum Dots. <i>Advanced Optical Materials</i> , 2016, 4, 1223-1229.	7.3	326
7	Recent advances in two-dimensional-material-based sensing technology toward health and environmental monitoring applications. <i>Nanoscale</i> , 2020, 12, 3535-3559.	5.6	318
8	Recent advances in black phosphorus-based photonics, electronics, sensors and energy devices. <i>Materials Horizons</i> , 2017, 4, 997-1019.	12.2	296
9	Emerging Trends in Phosphorene Fabrication towards Next Generation Devices. <i>Advanced Science</i> , 2017, 4, 1600305.	11.2	285
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.	14.9	258
11	Black phosphorus: a two-dimension saturable absorption material for mid-infrared Q-switched and mode-locked fiber lasers. <i>Scientific Reports</i> , 2016, 6, 30361.	3.3	242
12	Few-Layer Tin Sulfide: A Promising Black-Phosphorus Analogue 2D Material with Exceptionally Large Nonlinear Optical Response, High Stability, and Applications in All-Optical Switching and Wavelength Conversion. <i>Advanced Optical Materials</i> , 2018, 6, 1700985.	7.3	212
13	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , 2016, 12, 4136-4145.	10.0	203
14	Recent advances in emerging Janus two-dimensional materials: from fundamental physics to device applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 8813-8830.	10.3	185
15	Black Phosphorus Based All-Optical-Signal-Processing: Toward High Performances and Enhanced Stability. <i>ACS Photonics</i> , 2017, 4, 1466-1476.	6.6	173
16	Size-dependent nonlinear optical properties of black phosphorus nanosheets and their applications in ultrafast photonics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 3007-3013.	5.5	150
17	Fluorinated Phosphorene: Electrochemical Synthesis, Atomistic Fluorination, and Enhanced Stability. <i>Small</i> , 2017, 13, 1702739.	10.0	150
18	Two-Dimensional Tellurium: Progress, Challenges, and Prospects. <i>Nano-Micro Letters</i> , 2020, 12, 99.	27.0	139

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19	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , 2016, 128, 5087-5091.	2.0	116
20	Recent Developments in Stability and Passivation Techniques of Phosphorene toward Next-Generation Device Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1903419.	14.9	113
21	PLLA Nanofibrous Paper-Based Plasmonic Substrate with Tailored Hydrophilicity for Focusing SERS Detection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5391-5399.	8.0	109
22	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.	8.0	105
23	Recent advances in doping engineering of black phosphorus. <i>Journal of Materials Chemistry A</i> , 2020, 8, 5421-5441.	10.3	93
24	Perovskite CsPbX ₃ : A Promising Nonlinear Optical Material and Its Applications for Ambient All-Optical Switching with Enhanced Stability. <i>Advanced Optical Materials</i> , 2018, 6, 1800400.	7.3	90
25	Dual-wavelength Q-switched Er:SrF ₂ laser with a black phosphorus absorber in the mid-infrared region. <i>Optics Express</i> , 2016, 24, 30289.	3.4	88
26	Memristive devices based on emerging two-dimensional materials beyond graphene. <i>Nanoscale</i> , 2019, 11, 12413-12435.	5.6	87
27	Efficient Enrichment and Self-Assembly of Hybrid Nanoparticles into Removable and Magnetic SERS Substrates for Sensitive Detection of Environmental Pollutants. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 7472-7480.	8.0	84
28	2D GeP as a Novel Broadband Nonlinear Optical Material for Ultrafast Photonics. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900123.	8.7	76
29	High-performance polarization-sensitive photodetectors on two-dimensional <i>h</i> ² -InSe. <i>National Science Review</i> , 2022, 9, nwab098.	9.5	75
30	Recent advances in anisotropic two-dimensional materials and device applications. <i>Nano Research</i> , 2021, 14, 897-919.	10.4	69
31	Graphene/MoS ₂ /Graphene Vertical Heterostructure-Based Broadband Photodetector with High Performance. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001730.	3.7	65
32	Tunable Broadband Nonlinear Optical Properties of Black Phosphorus Quantum Dots for Femtosecond Laser Pulses. <i>Materials</i> , 2017, 10, 210.	2.9	56
33	<i>In situ</i> preparation of a CsPbBr ₃ /black phosphorus heterostructure with an optimized interface and photodetector application. <i>Nanoscale</i> , 2019, 11, 16852-16859.	5.6	55
34	Bismuth telluride topological insulator nanosheet saturable absorbers for Q-switched mode-locked Tm:ZBLAN waveguide lasers. <i>Annalen Der Physik</i> , 2016, 528, 543-550.	2.4	54
35	Phase Transitions and Water Splitting Applications of 2D Transition Metal Dichalcogenides and Metal Phosphorous Trichalcogenides. <i>Advanced Science</i> , 2021, 8, 2002284.	11.2	47
36	Deep-Learning-Enabled MXene-Based Artificial Throat: Toward Sound Detection and Speech Recognition. <i>Advanced Materials Technologies</i> , 2020, 5, 2000262.	5.8	45

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37	Black phosphorus saturable absorber for a diode-pumped passively Q-switched Er:CaF ₂ mid-infrared laser. <i>Optics Communications</i> , 2018, 406, 158-162.	2.1	44
38	Emerging two-dimensional noncarbon nanomaterials for flexible lithium-ion batteries: opportunities and challenges. <i>Journal of Materials Chemistry A</i> , 2019, 7, 25227-25246.	10.3	44
39	Two Dimensional \hat{I}^2 -InSe with Layer-Dependent Properties: Band Alignment, Work Function and Optical Properties. <i>Nanomaterials</i> , 2019, 9, 82.	4.1	43
40	Q-switched waveguide laser based on two-dimensional semiconducting materials: tungsten disulfide and black phosphorus. <i>Optics Express</i> , 2016, 24, 2858.	3.4	41
41	Anisotropic Plasmonic Nanostructure Induced Polarization Photoresponse for MoS ₂ -Based Photodetector. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902179.	3.7	41
42	Electronic and Optical Properties of Two-Dimensional Tellurene: From First-Principles Calculations. <i>Nanomaterials</i> , 2019, 9, 1075.	4.1	40
43	Recent advances in black phosphorus/carbon hybrid composites: from improved stability to applications. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4647-4676.	10.3	39
44	Liquefaction of water on the surface of anisotropic two-dimensional atomic layered black phosphorus. <i>Nature Communications</i> , 2019, 10, 4062.	12.8	37
45	Monolayer \hat{I}^2 -tellurene: a promising p-type thermoelectric material <i>via</i> first-principles calculations. <i>Nanoscale</i> , 2019, 11, 18116-18123.	5.6	36
46	Synthesis and stabilization of black phosphorus and phosphorene: Recent progress and perspectives. <i>IScience</i> , 2021, 24, 103116.	4.1	30
47	Repression of Interlayer Recombination by Graphene Generates a Sensitive Nanostructured 2D vdW Heterostructure Based Photodetector. <i>Advanced Science</i> , 2021, 8, e2100503.	11.2	28
48	Highly Efficient Silicon Photonic Microheater Based on Black Arsenic-Phosphorus. <i>Advanced Optical Materials</i> , 2020, 8, 1901526.	7.3	26
49	Solar-blind deep-ultraviolet photodetectors based on solution-synthesized quasi-2D Te nanosheets. <i>Nanophotonics</i> , 2020, 9, 2459-2466.	6.0	24
50	The chemistry of colloidal semiconductor nanocrystals: From metal-chalcogenides to emerging perovskite. <i>Coordination Chemistry Reviews</i> , 2020, 418, 213333.	18.8	23
51	Tailoring nonlinear optical properties of Bi ₂ Se ₃ through ion irradiation. <i>Scientific Reports</i> , 2016, 6, 21799.	3.3	22
52	Water-Dispersible CsPbBr ₃ Perovskite Nanocrystals with Ultra-Stability and its Application in Electrochemical CO ₂ Reduction. <i>Nano-Micro Letters</i> , 2021, 13, 172.	27.0	20
53	Unveiling the Stimulated Robust Carrier Lifetime of Surface-Bound Excitons and Their Photoresponse in InSe. <i>Advanced Materials Interfaces</i> , 2019, 6, 1900171.	3.7	18
54	Fast solution method to prepare hexagonal tellurium nanosheets for optoelectronic and ultrafast photonic applications. <i>Journal of Materials Chemistry C</i> , 2021, 9, 508-516.	5.5	17

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55	Gold-patterned microarray chips for ultrasensitive surface-enhanced Raman scattering detection of ultrathin samples. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 26-33.	2.5	9
56	Drawing-fabrication of multifarious nanoplasmonic platform on PLLA paper for optimized SERS performance. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 687-691.	2.5	8
57	Quantum Dots: Solvothermal Synthesis and Ultrafast Photonics of Black Phosphorus Quantum Dots (<i>Advanced Optical Materials</i> 8/2016). <i>Advanced Optical Materials</i> , 2016, 4, 1222-1222.	7.3	7
58	Photodetectors Based on MoS ₂ /MAPbBr ₃ van der Waals Heterojunction. <i>IEEE Electron Device Letters</i> , 2022, 43, 414-417.	3.9	7
59	Phosphorene: From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics (<i>Adv. Funct. Mater.</i> 45/2015). <i>Advanced Functional Materials</i> , 2015, 25, 7100-7100.	14.9	6
60	Photothermal Therapy: Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy (<i>Small</i> 30/2016). <i>Small</i> , 2016, 12, 4158-4158.	10.0	4
61	Nonlayered 2D Materials: Ultrathin 2D Nonlayered Tellurium Nanosheets: Facile Liquid-Phase Exfoliation, Characterization, and Photoresponse with High Performance and Enhanced Stability (<i>Adv. Funct. Mater.</i> 28/2016). <i>Advanced Functional Materials</i> , 2016, 26, 7100-7100.	10.7	4
62	Surface Coordination of Black Phosphorus for Robust Air and Water Stability (<i>Angew. Chem.</i> 128/2016). <i>Angewandte Chemie International Edition</i> , 2016, 55, 1211-1214.	2.6	8