

Xue-Feng Yu

List of Publications by Year in descending order

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papers

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18414
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#	ARTICLE	IF	CITATIONS
1	Ultrasml Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 11526-11530.	7.2	906
2	Mechanically exfoliated black phosphorus as a new saturable absorber for both Q-switching and Mode-locking laser operation. <i>Optics Express</i> , 2015, 23, 12823.	1.7	866
3	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.	7.8	862
4	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. <i>Nature Communications</i> , 2016, 7, 12967.	5.8	835
5	Enhanced Microwave Absorption Performance from Magnetic Coupling of Magnetic Nanoparticles Suspended within Hierarchically Tubular Composite. <i>Advanced Functional Materials</i> , 2019, 29, 1901448.	7.8	566
6	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 5003-5007.	7.2	479
7	Metal Ion Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , 2017, 29, 1703811.	11.1	431
8	MOF-derived yolk-shell Ni@C@ZnO Schottky contact structure for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , 2020, 383, 123099.	6.6	407
9	Microfiber-based few-layer black phosphorus saturable absorber for ultra-fast fiber laser. <i>Optics Express</i> , 2015, 23, 20030.	1.7	399
10	Solvothermal Synthesis and Ultrafast Photonics of Black Phosphorus Quantum Dots. <i>Advanced Optical Materials</i> , 2016, 4, 1223-1229.	3.6	326
11	Fluorine-free preparation of titanium carbide MXene quantum dots with high near-infrared photothermal performances for cancer therapy. <i>Nanoscale</i> , 2017, 9, 17859-17864.	2.8	299
12	Boosted Interfacial Polarization from Multishell TiO_2 @ Fe_3O_4 @PPy Heterojunction for Enhanced Microwave Absorption. <i>Small</i> , 2019, 15, e1902885.	5.2	293
13	Black Phosphorus Incorporated Hydrogel as a Sprayable and Biodegradable Photothermal Platform for Postsurgical Treatment of Cancer. <i>Advanced Science</i> , 2018, 5, 1700848.	5.6	289
14	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , 2014, 35, 1954-1966.	5.7	276
15	TiL_4 Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. <i>Small</i> , 2017, 13, 1602896.	5.2	251
16	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , 2016, 74, 144-154.	5.7	247
17	A CRISPR-Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. <i>Nature Communications</i> , 2018, 9, 5012.	5.8	244
18	In Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 2600-2604.	7.2	209

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19	Dopant-controlled synthesis of water-soluble hexagonal NaYF ₄ nanorods with efficient upconversion fluorescence for multicolor bioimaging. <i>Nano Research</i> , 2010, 3, 51-60.	5.8	207
20	Oriented Polarization Tuning Broadband Absorption from Flexible Hierarchical ZnO Arrays Vertically Supported on Carbon Cloth. <i>Small</i> , 2019, 15, e1900900.	5.2	205
21	Metabolizable Ultrathin Bi ₂ Se ₃ Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , 2016, 12, 4136-4145.	5.2	203
22	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , 2016, 78, 27-39.	5.7	192
23	Synthesis of Au-CdS Core-Shell Hetero-Nanorods with Efficient Exciton-Plasmon Interactions. <i>Advanced Functional Materials</i> , 2011, 21, 1788-1794.	7.8	171
24	Morphology-controlled synthesis and excellent microwave absorption performance of ZnCo ₂ O ₄ nanostructures via a self-assembly process of flake units. <i>Nanoscale</i> , 2019, 11, 2694-2702.	2.8	166
25	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. <i>Advanced Materials</i> , 2016, 28, 2511-2517.	11.1	160
26	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , 2017, 29, 7131-7139.	3.2	158
27	Property-Activity Relationship of Black Phosphorus at the Nano-Bio Interface: From Molecules to Organisms. <i>Chemical Reviews</i> , 2020, 120, 2288-2346.	23.0	158
28	Enhanced Cytosolic Delivery and Release of CRISPR/Cas9 by Black Phosphorus Nanosheets for Genome Editing. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 10268-10272.	7.2	154
29	Magnetic Iron Oxide Nanoparticle (IONP) Synthesis to Applications: Present and Future. <i>Materials</i> , 2020, 13, 4644.	1.3	154
30	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.	2.7	150
31	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. <i>ACS Nano</i> , 2017, 11, 4848-4858.	7.3	150
32	The biocompatibility of quantum dot probes used for the targeted imaging of hepatocellular carcinoma metastasis. <i>Biomaterials</i> , 2008, 29, 4170-4176.	5.7	145
33	Improved Biocompatibility of Black Phosphorus Nanosheets by Chemical Modification. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 14488-14493.	7.2	143
34	Highly Efficient Fluorescence of NdF ₃ /SiO ₂ Core/Shell Nanoparticles and the Applications for in vivo NIR Detection. <i>Advanced Materials</i> , 2008, 20, 4118-4123.	11.1	142
35	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , 2017, 120, 1-33.	14.8	130
36	3D hierarchical local heterojunction of MoS ₂ /FeS ₂ for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , 2020, 379, 122241.	6.6	128

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37	Surface chemistry but not aspect ratio mediates the biological toxicity of gold nanorods in vitro and in vivo. <i>Scientific Reports</i> , 2015, 5, 11398.	1.6	124
38	Interrogating the <i>Escherichia coli</i> cell cycle by cell dimension perturbations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15000-15005.	3.3	124
39	Atomically Dispersed Indium Sites for Selective CO ₂ Electroreduction to Formic Acid. <i>ACS Nano</i> , 2021, 15, 5671-5678.	7.3	121
40	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , 2016, 28, 8937-8944.	11.1	116
41	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , 2016, 128, 5087-5091.	1.6	116
42	Near-infrared light-triggered drug delivery system based on black phosphorus for in vivo bone regeneration. <i>Biomaterials</i> , 2018, 179, 164-174.	5.7	115
43	Conductive-network enhanced microwave absorption performance from carbon coated defect-rich Fe ₂ O ₃ anchored on multi-wall carbon nanotubes. <i>Carbon</i> , 2019, 155, 298-308.	5.4	113
44	Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 769-774.	7.2	113
45	Broadband spatial self-phase modulation of black phosphorus. <i>Optics Letters</i> , 2016, 41, 1704.	1.7	111
46	Neurotoxin-conjugated upconversion nanoprobe for direct visualization of tumors under near-infrared irradiation. <i>Biomaterials</i> , 2010, 31, 8724-8731.	5.7	109
47	PLLA Nanofibrous Paper-Based Plasmonic Substrate with Tailored Hydrophilicity for Focusing SERS Detection. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 5391-5399.	4.0	109
48	Electrostatic Self-Assembly of Ti ₃ C ₂ T _x MXene and Gold Nanorods as an Efficient Surface-Enhanced Raman Scattering Platform for Reliable and High-Sensitivity Determination of Organic Pollutants. <i>ACS Sensors</i> , 2019, 4, 2303-2310.	4.0	106
49	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , 2018, 30, e1803641.	11.1	105
50	Sequentially Triggered Delivery System of Black Phosphorus Quantum Dots with Surface Charge-Switching Ability for Precise Tumor Radiosensitization. <i>ACS Nano</i> , 2018, 12, 12401-12415.	7.3	100
51	Ultraviolet saturable absorption and ultrafast carrier dynamics in ultrasmall black phosphorus quantum dots. <i>Nanoscale</i> , 2017, 9, 4683-4690.	2.8	98
52	Phase-Changing Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. <i>Advanced Science</i> , 2020, 7, 2000602.	5.6	95
53	Biodegradable near-infrared-photoresponsive shape memory implants based on black phosphorus nanofillers. <i>Biomaterials</i> , 2018, 164, 11-21.	5.7	94
54	Stable black phosphorus/Bi ₂ O ₃ heterostructures for synergistic cancer radiotherapy. <i>Biomaterials</i> , 2018, 171, 12-22.	5.7	94

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55	A Novel Hybrid Layered Organic Phototransistor Enables Efficient Intermolecular Charge Transfer and Carrier Transport for Ultrasensitive Photodetection. <i>Advanced Materials</i> , 2019, 31, e1900763.	11.1	89
56	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.	4.0	84
57	Symmetric and Asymmetric Au@AgCdSe Hybrid Nanorods. <i>Nano Letters</i> , 2012, 12, 5281-5286.	4.5	81
58	Linker-free covalent immobilization of heparin, SDF-1 α , and CD47 on PTFE surface for antithrombogenicity, endothelialization and anti-inflammation. <i>Biomaterials</i> , 2017, 140, 201-211.	5.7	80
59	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 19060-19066.	7.2	79
60	A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus. <i>Advanced Science</i> , 2019, 6, 1801321.	5.6	79
61	One-pot synthesis of CdS@reduced graphene oxide 3D composites with enhanced photocatalytic properties. <i>CrystEngComm</i> , 2014, 16, 399-405.	1.3	77
62	Few-Layered Black Phosphorus: From Fabrication and Customization to Biomedical Applications. <i>Small</i> , 2018, 14, 1702830.	5.2	76
63	Immunofluorescence detection with quantum dot bioconjugates for hepatoma in vivo. <i>Journal of Biomedical Optics</i> , 2007, 12, 014008.	1.4	74
64	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. <i>Biomaterials</i> , 2013, 34, 4274-4283.	5.7	74
65	Black Phosphorus-Based Multimodal Nanoagent: Showing Targeted Combinatory Therapeutics against Cancer Metastasis. <i>Nano Letters</i> , 2019, 19, 5587-5594.	4.5	73
66	Decorated ultrathin bismuth selenide nanosheets as targeted theranostic agents for in vivo imaging guided cancer radiation therapy. <i>NPG Asia Materials</i> , 2017, 9, e439-e439.	3.8	70
67	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. <i>Advanced Functional Materials</i> , 2020, 30, 2002731.	7.8	69
68	Optical and Optoelectronic Properties of Black Phosphorus and Recent Photonic and Optoelectronic Applications. <i>Small Methods</i> , 2019, 3, 1900165.	4.6	68
69	Plasmon-Mediated Radiative Energy Transfer across a Silver Nanowire Array <i>via</i> Resonant Transmission and Subwavelength Imaging. <i>ACS Nano</i> , 2010, 4, 5003-5010.	7.3	67
70	Ferromagnetic Co ₂₀ Ni ₈₀ nanoparticles encapsulated inside reduced graphene oxide layers with superior microwave absorption performance. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2943-2953.	2.7	66
71	Synthesis of Highly Luminescent and Anion-Exchangeable Cerium-Doped Layered Yttrium Hydroxides for Sensing and Photofunctional Applications. <i>Advanced Functional Materials</i> , 2011, 21, 4388-4396.	7.8	65
72	Lanthanide-Coordinated Black Phosphorus. <i>Small</i> , 2018, 14, e1801405.	5.2	65

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73	Black phosphorus based fiber optic biosensor for ultrasensitive cancer diagnosis. <i>Biosensors and Bioelectronics</i> , 2019, 137, 140-147.	5.3	64
74	Cell-borne 2D nanomaterials for efficient cancer targeting and photothermal therapy. <i>Biomaterials</i> , 2017, 133, 37-48.	5.7	63
75	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. <i>Npj 2D Materials and Applications</i> , 2017, 1, .	3.9	63
76	Opportunities and challenges for aqueous metal-proton batteries. <i>Matter</i> , 2021, 4, 1252-1273.	5.0	63
77	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. <i>Biosensors and Bioelectronics</i> , 2014, 54, 128-134.	5.3	62
78	Intrinsic bioactivity of black phosphorus nanomaterials on mitotic centrosome destabilization through suppression of PLK1 kinase. <i>Nature Nanotechnology</i> , 2021, 16, 1150-1160.	15.6	62
79	Indocyanine green-loaded gold nanostars for sensitive SERS imaging and subcellular monitoring of photothermal therapy. <i>Nanoscale</i> , 2017, 9, 11888-11901.	2.8	61
80	Mapping the elastic properties of two-dimensional MoS ₂ via bimodal atomic force microscopy and finite element simulation. <i>Npj Computational Materials</i> , 2018, 4, .	3.5	61
81	Optical properties of Au/Ag core/shell nanoshuttles. <i>Optics Express</i> , 2008, 16, 14288.	1.7	60
82	pH-Dependent Degradation of Layered Black Phosphorus: Essential Role of Hydroxide Ions. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 467-471.	7.2	60
83	Different-sized black phosphorus nanosheets with good cytocompatibility and high photothermal performance. <i>RSC Advances</i> , 2017, 7, 14618-14624.	1.7	58
84	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 14383-14387.	7.2	58
85	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 1052-1058.	2.1	57
86	2D materials inks toward smart flexible electronics. <i>Materials Today</i> , 2021, 50, 116-148.	8.3	57
87	Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. <i>Small Methods</i> , 2019, 3, 1900083.	4.6	56
88	Biodegradable Bi ₂ O ₂ Se Quantum Dots for Photoacoustic Imaging-Guided Cancer Photothermal Therapy. <i>Small</i> , 2020, 16, e1905208.	5.2	56
89	Mediated Drug Release from Nanovehicles by Black Phosphorus Quantum Dots for Efficient Therapy of Chronic Obstructive Pulmonary Disease. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 20568-20576.	7.2	56
90	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie</i> , 2018, 130, 2630-2634.	1.6	55

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91	Black phosphorus integrated tilted fiber grating for ultrasensitive heavy metal sensing. <i>Sensors and Actuators B: Chemical</i> , 2018, 257, 1093-1098.	4.0	53
92	Synthesis of lipid-encapsulated black phosphorus quantum dot bilayer vesicles for near-infrared-controlled drug release. <i>Chemical Communications</i> , 2018, 54, 6060-6063.	2.2	53
93	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. <i>Materials Horizons</i> , 2019, 6, 176-181.	6.4	53
94	Solution-dispersible Au nanocube dimers with greatly enhanced two-photon luminescence and SERS. <i>Nanoscale</i> , 2013, 5, 5368.	2.8	51
95	Metabolizable Small Gold Nanorods: Size-dependent Cytotoxicity, Cell Uptake and <i>In Vivo</i> Biodistribution. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 789-797.	2.6	51
96	Photochemical Activity of Black Phosphorus for Near-Infrared Light Controlled <i>In Situ</i> Biom mineralization. <i>Advanced Science</i> , 2020, 7, 2000439.	5.6	51
97	Synthesis of different-sized gold nanostars for Raman bioimaging and photothermal therapy in cancer nanotheranostics. <i>Science China Chemistry</i> , 2017, 60, 1219-1229.	4.2	49
98	Molybdenum diselenide-encapsulated black phosphorus heterostructures for electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , 2019, 467-468, 328-334.	3.1	47
99	Detection of coronavirus in environmental surveillance and risk monitoring for pandemic control. <i>Chemical Society Reviews</i> , 2021, 50, 3656-3676.	18.7	46
100	Hierarchical coupling effect in hollow Ni/NiFe ₂ O ₄ -CNTs microsphere via spray-drying for enhanced oxygen evolution electrocatalysis. <i>Nano Research</i> , 2020, 13, 437-446.	5.8	45
101	Tri-phase all-optical switching and broadband nonlinear optical response in Bi ₂ Se ₃ nanosheets. <i>Optics Express</i> , 2017, 25, 18346.	1.7	44
102	Synthesis of gold/rare-earth-vanadate core/shell nanorods for integrating plasmon resonance and fluorescence. <i>Nano Research</i> , 2015, 8, 2548-2561.	5.8	43
103	Enhanced Cytosolic Delivery and Release of CRISPR/Cas9 by Black Phosphorus Nanosheets for Genome Editing. <i>Angewandte Chemie</i> , 2018, 130, 10425-10429.	1.6	43
104	Homogeneous Immunoassay Based on Two-Photon Excitation Fluorescence Resonance Energy Transfer. <i>Analytical Chemistry</i> , 2008, 80, 7735-7741.	3.2	42
105	Synthesis of bright upconversion submicrocrystals for high-contrast imaging of latent-fingerprints with cyanoacrylate fuming. <i>RSC Advances</i> , 2015, 5, 79525-79531.	1.7	42
106	Calcium Phosphate Mineralized Black Phosphorous with Enhanced Functionality and Anticancer Bioactivity. <i>Advanced Functional Materials</i> , 2020, 30, 2003069.	7.8	42
107	Crystal structure and optical properties of silver nanorings. <i>Applied Physics Letters</i> , 2009, 94, 153102.	1.5	41
108	Optoelectronic Artificial Synapses Based on Two-Dimensional Transitional-Metal Trichalcogenide. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30797-30805.	4.0	41

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109	Synthesis of highly fluorescent LaF ₃ :Ln ³⁺ /LaF ₃ core/shell nanocrystals by a surfactant-free aqueous solution route. <i>Journal of Solid State Chemistry</i> , 2009, 182, 597-601.	1.4	40
110	Black phosphorous nanosheet: A novel immune-potentiating nanoadjuvant for near-infrared-improved immunotherapy. <i>Biomaterials</i> , 2021, 273, 120788.	5.7	40
111	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37787-37795.	4.0	38
112	Ultrathin and Ultrasensitive Direct X-ray Detector Based on Heterojunction Phototransistors. <i>Advanced Materials</i> , 2021, 33, e2101717.	11.1	38
113	A Unique Disintegration-Reassembly Route to Mesoporous Titania Nanocrystalline Hollow Spheres with Enhanced Photocatalytic Activity. <i>Advanced Functional Materials</i> , 2018, 28, 1704208.	7.8	37
114	Fluorescence Analysis with Quantum Dot Probes for Hepatoma Under One- and Two-Photon Excitation. <i>Journal of Fluorescence</i> , 2007, 17, 243-247.	1.3	36
115	<i>In situ</i> growth of all-inorganic perovskite nanocrystals on black phosphorus nanosheets. <i>Chemical Communications</i> , 2018, 54, 2365-2368.	2.2	36
116	Synergistic Antibacterial Activity of Black Phosphorus Nanosheets Modified with Titanium Aminobenzenesulfanato Complexes. <i>ACS Applied Nano Materials</i> , 2019, 2, 1202-1209.	2.4	36
117	Bilayer Bismuth Selenide nanoplatelets based saturable absorber for ultra-short pulse generation (Invited). <i>Optics Communications</i> , 2017, 395, 55-60.	1.0	35
118	Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. <i>Angewandte Chemie</i> , 2019, 131, 779-784.	1.6	34
119	Tunable Plasmon Enhancement of Gold/Semiconductor Core/Shell Hetero-Nanorods with Site-Selectively Grown Shell. <i>Advanced Optical Materials</i> , 2014, 2, 679-686.	3.6	32
120	2D Material-Based Nanofibrous Membrane for Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 1155-1163.	4.0	32
121	Recent Advances in Quantum Effects of 2D Materials. <i>Advanced Quantum Technologies</i> , 2019, 2, 1800111.	1.8	32
122	Black Phosphorus Based Multicolor Light-Modulated Transparent Memristor with Enhanced Resistive Switching Performance. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 25108-25114.	4.0	32
123	Sensitive and selective ctDNA detection based on functionalized black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , 2020, 165, 112384.	5.3	32
124	High-capacity and small-polarization aluminum organic batteries based on sustainable quinone-based cathodes with Al ³⁺ insertion. <i>Cell Reports Physical Science</i> , 2021, 2, 100354.	2.8	32
125	Mechanical properties and applications of 2D black phosphorus. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	31
126	InSe Nanosheets for Efficient NIR-II-Responsive Drug Release. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 27521-27528.	4.0	30

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127	Dual-emitting nanocomposites derived from rare-earth compound nanotubes for ratiometric fluorescence sensing applications. <i>Nanoscale</i> , 2013, 5, 1629.	2.8	29
128	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. <i>CrystEngComm</i> , 2014, 16, 6141-6148.	1.3	29
129	Sensitive and Robust Colorimetric Sensing of Sulfide Anion by Plasmonic Nanosensors Based on Quick Crystal Growth. <i>Plasmonics</i> , 2014, 9, 11-16.	1.8	28
130	Lactose-Functionalized Gold Nanorods for Sensitive and Rapid Serological Diagnosis of Cancer. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 5813-5820.	4.0	28
131	Nitrogen Dioxide Gas Sensor Based on Liquid-Phase-Exfoliated Black Phosphorus Nanosheets. <i>ACS Applied Nano Materials</i> , 2020, 3, 6440-6447.	2.4	28
132	Improved microwave absorption performance of a multi-dimensional Fe ₂ O ₃ /CNTCM@CN assembly achieved by enhanced dielectric relaxation. <i>Journal of Materials Chemistry C</i> , 2020, 8, 5715-5726.	2.7	28
133	Surface and interface control of black phosphorus. <i>CheM</i> , 2022, 8, 632-662.	5.8	28
134	Elastic properties and intrinsic strength of two-dimensional InSe flakes. <i>Nanotechnology</i> , 2019, 30, 335703.	1.3	27
135	Bioactive phospho-therapy with black phosphorus for <i>in vivo</i> tumor suppression. <i>Theranostics</i> , 2020, 10, 4720-4736.	4.6	26
136	The data-intensive scientific revolution occurring where two-dimensional materials meet machine learning. <i>Cell Reports Physical Science</i> , 2021, 2, 100482.	2.8	26
137	Plasma treatment of polyether-ether-ketone: A means of obtaining desirable biomedical characteristics. <i>European Polymer Journal</i> , 2019, 118, 561-577.	2.6	25
138	Rapid detection of SARS-CoV-2 viral nucleic acids based on surface enhanced infrared absorption spectroscopy. <i>Nanoscale</i> , 2021, 13, 10133-10142.	2.8	25
139	Lattice contraction tailoring in perovskite oxides towards improvement of oxygen electrode catalytic activity. <i>Chemical Engineering Journal</i> , 2021, 421, 129698.	6.6	25
140	The electrical, thermal, and thermoelectric properties of black phosphorus. <i>APL Materials</i> , 2020, 8, .	2.2	25
141	Synthesis of carboxyl-capped and bright YVO ₄ :Eu,Bi nanoparticles and their applications in immunochromatographic test strip assay. <i>Materials Research Bulletin</i> , 2013, 48, 4454-4459.	2.7	24
142	Rapid and scalable production of high-quality phosphorene by plasma-liquid technology. <i>Chemical Communications</i> , 2020, 56, 221-224.	2.2	24
143	Understanding angle-resolved polarized Raman scattering from black phosphorus at normal and oblique laser incidences. <i>Science Bulletin</i> , 2020, 65, 1894-1900.	4.3	24
144	Machine Learning-Aided Crystal Facet Rational Design with Ionic Liquid Controllable Synthesis. <i>Small</i> , 2021, 17, e2100024.	5.2	24

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145	Whole-Brain Mapping the Direct Inputs of Dorsal and Ventral CA1 Projection Neurons. <i>Frontiers in Neural Circuits</i> , 2021, 15, 643230.	1.4	24
146	Synthetic preparations and atomic scale engineering of silver nanoparticles for biomedical applications. <i>Nanoscale</i> , 2021, 13, 13923-13942.	2.8	23
147	Editing the Shape Morphing of Monocomponent Natural Polysaccharide Hydrogel Films. <i>Research</i> , 2021, 2021, 9786128.	2.8	23
148	Tailoring nonlinear optical properties of Bi ₂ Se ₃ through ion irradiation. <i>Scientific Reports</i> , 2016, 6, 21799.	1.6	22
149	Growth of metal-“semiconductor core” multishell nanorods with optimized field confinement and nonlinear enhancement. <i>Nanoscale</i> , 2016, 8, 11969-11975.	2.8	22
150	Improved Biocompatibility of Black Phosphorus Nanosheets by Chemical Modification. <i>Angewandte Chemie</i> , 2017, 129, 14680-14685.	1.6	22
151	Recent advances in cell-mediated nanomaterial delivery systems for photothermal therapy. <i>Journal of Materials Chemistry B</i> , 2018, 6, 1296-1311.	2.9	22
152	Efficient manganese luminescence induced by Ce ³⁺ -Mn ²⁺ energy transfer in rare earth fluoride and phosphate nanocrystals. <i>Nanoscale Research Letters</i> , 2011, 6, 119.	3.1	21
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