

# Xue-Feng Yu

## List of Publications by Citations

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236  
papers

13,444  
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58  
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252  
ext. papers

16,052  
ext. citations

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avg, IF

6.8  
L-index

#	Paper	IF	Citations
236	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie - International Edition</i> , <b>2015</b> , 54, 11526-30	16.4	745
235	Mechanically exfoliated black phosphorus as a new saturable absorber for both Q-switching and Mode-locking laser operation. <i>Optics Express</i> , <b>2015</b> , 23, 12823-33	3.3	734
234	From Black Phosphorus to Phosphorene: Basic Solvent Exfoliation, Evolution of Raman Scattering, and Applications to Ultrafast Photonics. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 6996-7002	15.6	725
233	Biodegradable black phosphorus-based nanospheres for in vivo photothermal cancer therapy. <i>Nature Communications</i> , <b>2016</b> , 7, 12967	17.4	659
232	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 5003-7	16.4	406
231	Metal-Ion-Modified Black Phosphorus with Enhanced Stability and Transistor Performance. <i>Advanced Materials</i> , <b>2017</b> , 29, 1703811	24	353
230	Microfiber-based few-layer black phosphorus saturable absorber for ultra-fast fiber laser. <i>Optics Express</i> , <b>2015</b> , 23, 20030-9	3.3	322
229	Enhanced Microwave Absorption Performance from Magnetic Coupling of Magnetic Nanoparticles Suspended within Hierarchically Tubular Composite. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1901448	15.6	321
228	Solvothermal Synthesis and Ultrafast Photonics of Black Phosphorus Quantum Dots. <i>Advanced Optical Materials</i> , <b>2016</b> , 4, 1223-1229	8.1	267
227	Rose-bengal-conjugated gold nanorods for in vivo photodynamic and photothermal oral cancer therapies. <i>Biomaterials</i> , <b>2014</b> , 35, 1954-66	15.6	226
226	Small gold nanorods laden macrophages for enhanced tumor coverage in photothermal therapy. <i>Biomaterials</i> , <b>2016</b> , 74, 144-54	15.6	209
225	MOF-derived yolk-shell Ni@C@ZnO Schottky contact structure for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , <b>2020</b> , 383, 123099	14.7	207
224	Ultrasmall Black Phosphorus Quantum Dots: Synthesis and Use as Photothermal Agents. <i>Angewandte Chemie</i> , <b>2015</b> , 127, 11688-11692	3.6	201
223	Black-Phosphorus-Incorporated Hydrogel as a Sprayable and Biodegradable Photothermal Platform for Postsurgical Treatment of Cancer. <i>Advanced Science</i> , <b>2018</b> , 5, 1700848	13.6	199
222	TiL -Coordinated Black Phosphorus Quantum Dots as an Efficient Contrast Agent for In Vivo Photoacoustic Imaging of Cancer. <i>Small</i> , <b>2017</b> , 13, 1602896	11	198
221	Dopant-controlled synthesis of water-soluble hexagonal NaYF <sub>4</sub> nanorods with efficient upconversion fluorescence for multicolor bioimaging. <i>Nano Research</i> , <b>2010</b> , 3, 51-60	10	196
220	Fluorine-free preparation of titanium carbide MXene quantum dots with high near-infrared photothermal performances for cancer therapy. <i>Nanoscale</i> , <b>2017</b> , 9, 17859-17864	7.7	174

219	Metabolizable Ultrathin Bi <sub>2</sub> Se <sub>3</sub> Nanosheets in Imaging-Guided Photothermal Therapy. <i>Small</i> , <b>2016</b> , 12, 4136-45	11	168
218	Gold-nanorods-siRNA nanoplex for improved photothermal therapy by gene silencing. <i>Biomaterials</i> , <b>2016</b> , 78, 27-39	15.6	167
217	Boosted Interfacial Polarization from Multishell TiO <sub>2</sub> @Fe <sub>3</sub> O <sub>4</sub> @PPy Heterojunction for Enhanced Microwave Absorption. <i>Small</i> , <b>2019</b> , 15, e1902885	11	167
216	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2600-2604	16.4	159
215	Synthesis of Au@CdS Core/Shell Hetero-Nanorods with Efficient Exciton-Plasmon Interactions. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 1788-1794	15.6	158
214	A CRISPR-Cas9-triggered strand displacement amplification method for ultrasensitive DNA detection. <i>Nature Communications</i> , <b>2018</b> , 9, 5012	17.4	148
213	Evaporative Self-Assembly of Gold Nanorods into Macroscopic 3D Plasmonic Superlattice Arrays. <i>Advanced Materials</i> , <b>2016</b> , 28, 2511-7	24	134
212	The biocompatibility of quantum dot probes used for the targeted imaging of hepatocellular carcinoma metastasis. <i>Biomaterials</i> , <b>2008</b> , 29, 4170-6	15.6	134
211	Oriented Polarization Tuning Broadband Absorption from Flexible Hierarchical ZnO Arrays Vertically Supported on Carbon Cloth. <i>Small</i> , <b>2019</b> , 15, e1900900	11	133
210	Highly Efficient Fluorescence of NdF <sub>3</sub> /SiO <sub>2</sub> Core/Shell Nanoparticles and the Applications for in vivo NIR Detection. <i>Advanced Materials</i> , <b>2008</b> , 20, 4118-4123	24	130
209	Stable and Multifunctional Dye-Modified Black Phosphorus Nanosheets for Near-Infrared Imaging-Guided Photothermal Therapy. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 7131-7139	9.6	125
208	Designing Core-Shell Gold and Selenium Nanocomposites for Cancer Radiochemotherapy. <i>ACS Nano</i> , <b>2017</b> , 11, 4848-4858	16.7	124
207	Size-dependent nonlinear optical properties of black phosphorus nanosheets and their applications in ultrafast photonics. <i>Journal of Materials Chemistry C</i> , <b>2017</b> , 5, 3007-3013	7.1	121
206	Enhanced Cytosolic Delivery and Release of CRISPR/Cas9 by Black Phosphorus Nanosheets for Genome Editing. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 10268-10272	16.4	106
205	Morphology-controlled synthesis and excellent microwave absorption performance of ZnCoO nanostructures via a self-assembly process of flake units. <i>Nanoscale</i> , <b>2019</b> , 11, 2694-2702	7.7	103
204	Two-dimensional black phosphorus: Synthesis, modification, properties, and applications. <i>Materials Science and Engineering Reports</i> , <b>2017</b> , 120, 1-33	30.9	102
203	Improved Biocompatibility of Black Phosphorus Nanosheets by Chemical Modification. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 14488-14493	16.4	101
202	Black Phosphorus Based Photocathodes in Wideband Bifacial Dye-Sensitized Solar Cells. <i>Advanced Materials</i> , <b>2016</b> , 28, 8937-8944	24	100

201	Neurotoxin-conjugated upconversion nanoprobes for direct visualization of tumors under near-infrared irradiation. <i>Biomaterials</i> , <b>2010</b> , 31, 8724-31	15.6	100
200	Surface chemistry but not aspect ratio mediates the biological toxicity of gold nanorods in vitro and in vivo. <i>Scientific Reports</i> , <b>2015</b> , 5, 11398	4.9	99
199	PLLA nanofibrous paper-based plasmonic substrate with tailored hydrophilicity for focusing SERS detection. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 5391-9	9.5	93
198	Surface Coordination of Black Phosphorus for Robust Air and Water Stability. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 5087-5091	3.6	92
197	Broadband spatial self-phase modulation of black phosphorus. <i>Optics Letters</i> , <b>2016</b> , 41, 1704-7	3	87
196	Interrogating the Escherichia coli cell cycle by cell dimension perturbations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, 15000-15005	11.5	84
195	Ultraviolet saturable absorption and ultrafast carrier dynamics in ultrasmall black phosphorus quantum dots. <i>Nanoscale</i> , <b>2017</b> , 9, 4683-4690	7.7	83
194	3D hierarchical local heterojunction of MoS <sub>2</sub> /FeS <sub>2</sub> for enhanced microwave absorption. <i>Chemical Engineering Journal</i> , <b>2020</b> , 379, 122241	14.7	79
193	A simple magnetic nanoparticles-based viral RNA extraction method for efficient detection of SARS-CoV-2		77
192	Black Phosphorus/Platinum Heterostructure: A Highly Efficient Photocatalyst for Solar-Driven Chemical Reactions. <i>Advanced Materials</i> , <b>2018</b> , 30, e1803641	24	77
191	Symmetric and asymmetric Au-AgCdSe hybrid nanorods. <i>Nano Letters</i> , <b>2012</b> , 12, 5281-6	11.5	75
190	Property-Activity Relationship of Black Phosphorus at the Nano-Bio Interface: From Molecules to Organisms. <i>Chemical Reviews</i> , <b>2020</b> , 120, 2288-2346	68.1	73
189	Biodegradable near-infrared-photoresponsive shape memory implants based on black phosphorus nanofillers. <i>Biomaterials</i> , <b>2018</b> , 164, 11-21	15.6	73
188	Black Phosphorus: Bioactive Nanomaterials with Inherent and Selective Chemotherapeutic Effects. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 769-774	16.4	73
187	Near-infrared light-triggered drug delivery system based on black phosphorus for in vivo bone regeneration. <i>Biomaterials</i> , <b>2018</b> , 179, 164-174	15.6	72
186	Stable black phosphorus/BiO heterostructures for synergistic cancer radiotherapy. <i>Biomaterials</i> , <b>2018</b> , 171, 12-22	15.6	70
185	Sequentially Triggered Delivery System of Black Phosphorus Quantum Dots with Surface Charge-Switching Ability for Precise Tumor Radiosensitization. <i>ACS Nano</i> , <b>2018</b> , 12, 12401-12415	16.7	70
184	One-pot synthesis of CdS-reduced graphene oxide 3D composites with enhanced photocatalytic properties. <i>CrystEngComm</i> , <b>2014</b> , 16, 399-405	3.3	67

183	Conductive-network enhanced microwave absorption performance from carbon coated defect-rich Fe <sub>2</sub> O <sub>3</sub> anchored on multi-wall carbon nanotubes. <i>Carbon</i> , <b>2019</b> , 155, 298-308	10.4	66
182	Bimodal optical diagnostics of oral cancer based on Rose Bengal conjugated gold nanorod platform. <i>Biomaterials</i> , <b>2013</b> , 34, 4274-83	15.6	64
181	Immunofluorescence detection with quantum dot bioconjugates for hepatoma in vivo. <i>Journal of Biomedical Optics</i> , <b>2007</b> , 12, 014008	3.5	63
180	A Novel Hybrid-Layered Organic Phototransistor Enables Efficient Intermolecular Charge Transfer and Carrier Transport for Ultrasensitive Photodetection. <i>Advanced Materials</i> , <b>2019</b> , 31, e1900763	24	61
179	Plasmon-mediated radiative energy transfer across a silver nanowire array via resonant transmission and subwavelength imaging. <i>ACS Nano</i> , <b>2010</b> , 4, 5003-10	16.7	61
178	Few-Layered Black Phosphorus: From Fabrication and Customization to Biomedical Applications. <i>Small</i> , <b>2018</b> , 14, 1702830	11	56
177	Linker-free covalent immobilization of heparin, SDF-1 $\beta$ and CD47 on PTFE surface for antithrombogenicity, endothelialization and anti-inflammation. <i>Biomaterials</i> , <b>2017</b> , 140, 201-211	15.6	55
176	A Low-Cost Metal-Free Photocatalyst Based on Black Phosphorus. <i>Advanced Science</i> , <b>2019</b> , 6, 1801321	13.6	55
175	Efficient Enrichment and Self-Assembly of Hybrid Nanoparticles into Removable and Magnetic SERS Substrates for Sensitive Detection of Environmental Pollutants. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 7472-7480	9.5	54
174	Cell-borne 2D nanomaterials for efficient cancer targeting and photothermal therapy. <i>Biomaterials</i> , <b>2017</b> , 133, 37-48	15.6	54
173	Optical properties of Au/Ag core/shell nanoshuttles. <i>Optics Express</i> , <b>2008</b> , 16, 14288-93	3.3	54
172	Electrostatic Self-Assembly of TiCT 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> , <b>2019</b> , 4, 2303-2310	9.2	53
171	Paper-based plasmonic platform for sensitive, noninvasive, and rapid cancer screening. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 128-34	11.8	52
170	Black Phosphorus-Based Multimodal Nanoagent: Showing Targeted Combinatory Therapeutics against Cancer Metastasis. <i>Nano Letters</i> , <b>2019</b> , 19, 5587-5594	11.5	51
169	Rapid Activation of Platinum with Black Phosphorus for Efficient Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 19060-19066	16.4	51
168	Decorated ultrathin bismuth selenide nanosheets as targeted theranostic agents for in vivo imaging guided cancer radiation therapy. <i>NPG Asia Materials</i> , <b>2017</b> , 9, e439-e439	10.3	51
167	Ferromagnetic Co <sub>20</sub> Ni <sub>80</sub> nanoparticles encapsulated inside reduced graphene oxide layers with superior microwave absorption performance. <i>Journal of Materials Chemistry C</i> , <b>2019</b> , 7, 2943-2953	7.1	51
166	Synthesis of Highly Luminescent and Anion-Exchangeable Cerium-Doped Layered Yttrium Hydroxides for Sensing and Photofunctional Applications. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 4388-4396	15.6	50

165	Lanthanide-Coordinated Black Phosphorus. <i>Small</i> , <b>2018</b> , 14, e1801405	11	49
164	Indocyanine green-loaded gold nanostars for sensitive SERS imaging and subcellular monitoring of photothermal therapy. <i>Nanoscale</i> , <b>2017</b> , 9, 11888-11901	7.7	48
163	Solution-dispersible Au nanocube dimers with greatly enhanced two-photon luminescence and SERS. <i>Nanoscale</i> , <b>2013</b> , 5, 5368-74	7.7	48
162	Magnetic Iron Oxide Nanoparticle (IONP) Synthesis to Applications: Present and Future. <i>Materials</i> , <b>2020</b> , 13,	3.5	48
161	Different-sized black phosphorus nanosheets with good cytocompatibility and high photothermal performance. <i>RSC Advances</i> , <b>2017</b> , 7, 14618-14624	3.7	47
160	Black phosphorus: a two-dimensional reductant for in situ nanofabrication. <i>Npj 2D Materials and Applications</i> , <b>2017</b> , 1,	8.8	44
159	Optical and Optoelectronic Properties of Black Phosphorus and Recent Photonic and Optoelectronic Applications. <i>Small Methods</i> , <b>2019</b> , 3, 1900165	12.8	43
158	In-Plane Black Phosphorus/Dicobalt Phosphide Heterostructure for Efficient Electrocatalysis. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2630-2634	3.6	43
157	Homogeneous immunoassay based on two-photon excitation fluorescence resonance energy transfer. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 7735-41	7.8	41
156	Metabolizable Small Gold Nanorods: Size-dependent Cytotoxicity, Cell Uptake and Biodistribution. <i>ACS Biomaterials Science and Engineering</i> , <b>2016</b> , 2, 789-797	5.5	41
155	Mapping the elastic properties of two-dimensional MoS <sub>2</sub> via bimodal atomic force microscopy and finite element simulation. <i>Npj Computational Materials</i> , <b>2018</b> , 4,	10.9	41
154	Synthesis of gold/rare-earth-vanadate core/shell nanorods for integrating plasmon resonance and fluorescence. <i>Nano Research</i> , <b>2015</b> , 8, 2548-2561	10	40
153	Synthesis of high-quality black phosphorus sponges for all-solid-state supercapacitors. <i>Materials Horizons</i> , <b>2019</b> , 6, 176-181	14.4	39
152	Photoelectrochemical Synthesis of Ammonia with Black Phosphorus. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2002731	15.6	38
151	Phase-Changing Microcapsules Incorporated with Black Phosphorus for Efficient Solar Energy Storage. <i>Advanced Science</i> , <b>2020</b> , 7, 2000602	13.6	38
150	Atomically Dispersed Indium Sites for Selective CO Electroreduction to Formic Acid. <i>ACS Nano</i> , <b>2021</b> , 15, 5671-5678	16.7	38
149	Synthesis of highly fluorescent LaF <sub>3</sub> :Ln <sup>3+</sup> /LaF <sub>3</sub> core/shell nanocrystals by a surfactant-free aqueous solution route. <i>Journal of Solid State Chemistry</i> , <b>2009</b> , 182, 597-601	3.3	37
148	pH-Dependent Degradation of Layered Black Phosphorus: Essential Role of Hydroxide Ions. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 467-471	16.4	37

147	Synthesis of lipid-black phosphorus quantum dot bilayer vesicles for near-infrared-controlled drug release. <i>Chemical Communications</i> , <b>2018</b> , 54, 6060-6063	5.8	37
146	Edge-Rich Black Phosphorus for Photocatalytic Nitrogen Fixation. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 1052-1058	6.4	36
145	Synthesis of different-sized gold nanostars for Raman bioimaging and photothermal therapy in cancer nanotheranostics. <i>Science China Chemistry</i> , <b>2017</b> , 60, 1219-1229	7.9	36
144	Tri-phase all-optical switching and broadband nonlinear optical response in BiSe nanosheets. <i>Optics Express</i> , <b>2017</b> , 25, 18346-18354	3.3	36
143	Crystal structure and optical properties of silver nanorings. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 153102	3.4	36
142	Black phosphorus integrated tilted fiber grating for ultrasensitive heavy metal sensing. <i>Sensors and Actuators B: Chemical</i> , <b>2018</b> , 257, 1093-1098	8.5	36
141	Synthesis of bright upconversion submicrocrystals for high-contrast imaging of latent-fingerprints with cyanoacrylate fuming. <i>RSC Advances</i> , <b>2015</b> , 5, 79525-79531	3.7	35
140	Crystalline Red Phosphorus Nanoribbons: Large-Scale Synthesis and Electrochemical Nitrogen Fixation. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 14383-14387	16.4	35
139	Fluorescence analysis with quantum dot probes for hepatoma under one- and two-photon excitation. <i>Journal of Fluorescence</i> , <b>2007</b> , 17, 243-7	2.4	35
138	Direct Synthesis of Metal-Doped Phosphorene with Enhanced Electrocatalytic Hydrogen Evolution. <i>Small Methods</i> , <b>2019</b> , 3, 1900083	12.8	34
137	Biodegradable Bi O Se Quantum Dots for Photoacoustic Imaging-Guided Cancer Photothermal Therapy. <i>Small</i> , <b>2020</b> , 16, e1905208	11	34
136	Molybdenum diselenide/black phosphorus heterostructures for electrocatalytic hydrogen evolution. <i>Applied Surface Science</i> , <b>2019</b> , 467-468, 328-334	6.7	34
135	Black phosphorus based fiber optic biosensor for ultrasensitive cancer diagnosis. <i>Biosensors and Bioelectronics</i> , <b>2019</b> , 137, 140-147	11.8	32
134	A Unique Disintegration/Reassembly Route to Mesoporous Titania Nanocrystalline Hollow Spheres with Enhanced Photocatalytic Activity. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1704208	15.6	32
133	In situ growth of all-inorganic perovskite nanocrystals on black phosphorus nanosheets. <i>Chemical Communications</i> , <b>2018</b> , 54, 2365-2368	5.8	30
132	Tunable Plasmon Enhancement of Gold/Semiconductor Core/Shell Hetero-Nanorods with Site-Selectively Grown Shell. <i>Advanced Optical Materials</i> , <b>2014</b> , 2, 679-686	8.1	30
131	Dual-emitting nanocomposites derived from rare-earth compound nanotubes for ratiometric fluorescence sensing applications. <i>Nanoscale</i> , <b>2013</b> , 5, 1629-37	7.7	28
130	Hierarchical coupling effect in hollow Ni/NiFe <sub>2</sub> O <sub>4</sub> -CNTs microsphere via spray-drying for enhanced oxygen evolution electrocatalysis. <i>Nano Research</i> , <b>2020</b> , 13, 437-446	10	27

129	Mediated Drug Release from Nanovehicles by Black Phosphorus Quantum Dots for Efficient Therapy of Chronic Obstructive Pulmonary Disease. <i>Angewandte Chemie - International Edition</i> , <b>2020</b> , 59, 20568-20576	16.4	27
128	Lactose-Functionalized Gold Nanorods for Sensitive and Rapid Serological Diagnosis of Cancer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 5813-20	9.5	26
127	Enhanced Cytosolic Delivery and Release of CRISPR/Cas9 by Black Phosphorus Nanosheets for Genome Editing. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 10425-10429	3.6	26
126	Synergistic Antibacterial Activity of Black Phosphorus Nanosheets Modified with Titanium Aminobenzenesulfonato Complexes. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1202-1209	5.6	25
125	Modulation of Phosphorene for Optimal Hydrogen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 37787-37795	9.5	24
124	Synthesis of carboxyl-capped and bright YVO <sub>4</sub> :Eu,Bi nanoparticles and their applications in immunochromatographic test strip assay. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 4454-4459	5.1	23
123	Sensitive and Robust Colorimetric Sensing of Sulfide Anion by Plasmonic Nanosensors Based on Quick Crystal Growth. <i>Plasmonics</i> , <b>2014</b> , 9, 11-16	2.4	23
122	Growth of metal-semiconductor core-multishell nanorods with optimized field confinement and nonlinear enhancement. <i>Nanoscale</i> , <b>2016</b> , 8, 11969-75	7.7	22
121	2D Material-Based Nanofibrous Membrane for Photothermal Cancer Therapy. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1155-1163	9.5	22
120	Bilayer Bismuth Selenide nanoplatelets based saturable absorber for ultra-short pulse generation (Invited). <i>Optics Communications</i> , <b>2017</b> , 395, 55-60	2	21
119	Photochemical Activity of Black Phosphorus for Near-Infrared Light Controlled In Situ Biomineralization. <i>Advanced Science</i> , <b>2020</b> , 7, 2000439	13.6	21
118	Calcium Phosphate Mineralized Black Phosphorous with Enhanced Functionality and Anticancer Bioactivity. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2003069	15.6	20
117	InSe Nanosheets for Efficient NIR-II-Responsive Drug Release. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 27521-27528	9.5	19
116	Recent Advances in Quantum Effects of 2D Materials. <i>Advanced Quantum Technologies</i> , <b>2019</b> , 2, 1800114	4.3	19
115	Synthesis of hollow rare-earth compound nanoparticles by a universal sacrificial template method. <i>CrystEngComm</i> , <b>2014</b> , 16, 6141-6148	3.3	19
114	Improved Biocompatibility of Black Phosphorus Nanosheets by Chemical Modification. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 14680-14685	3.6	18
113	Microwave-heating synthesis and sensing applications of bright gold nanoclusters. <i>Materials Research Bulletin</i> , <b>2011</b> , 46, 2418-2421	5.1	18
112	Efficient manganese luminescence induced by Ce <sup>3+</sup> -Mn <sup>2+</sup> energy transfer in rare earth fluoride and phosphate nanocrystals. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 119	5	18



111	Recent advances in cell-mediated nanomaterial delivery systems for photothermal therapy. <i>Journal of Materials Chemistry B</i> , <b>2018</b> , 6, 1296-1311	7.3	17
110	Elastic properties and intrinsic strength of two-dimensional InSe flakes. <i>Nanotechnology</i> , <b>2019</b> , 30, 3357034	9.4	16
109	Competitive reaction pathway for site-selective conjugation of Raman dyes to hotspots on gold nanorods for greatly enhanced SERS performance. <i>Small</i> , <b>2014</b> , 10, 4012-9	11	16
108	Microwave-assisted synthesis of surface-passivated doped ZnSe quantum dots with enhanced fluorescence. <i>Chemical Physics Letters</i> , <b>2011</b> , 510, 135-138	2.5	16
107	Detection of coronavirus in environmental surveillance and risk monitoring for pandemic control. <i>Chemical Society Reviews</i> , <b>2021</b> , 50, 3656-3676	58.5	16
106	Black Phosphorus Based Multicolor Light-Modulated Transparent Memristor with Enhanced Resistive Switching Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 25108-25114	9.5	15
105	Sensitive and selective ctDNA detection based on functionalized black phosphorus nanosheets. <i>Biosensors and Bioelectronics</i> , <b>2020</b> , 165, 112384	11.8	15
104	Fabrication of rare-earth/quantum-dot nanocomposites for color-tunable sensing applications. <i>Journal of Nanoparticle Research</i> , <b>2011</b> , 13, 525-531	2.3	15
103	Rapid and scalable production of high-quality phosphorene by plasma-liquid technology. <i>Chemical Communications</i> , <b>2019</b> , 56, 221-224	5.8	15
102	Tailoring nonlinear optical properties of Bi <sub>2</sub> Se <sub>3</sub> through ion irradiation. <i>Scientific Reports</i> , <b>2016</b> , 6, 217994.9	4.9	15
101	Ultrathin and Ultrasensitive Direct X-ray Detector Based on Heterojunction Phototransistors. <i>Advanced Materials</i> , <b>2021</b> , 33, e2101717	24	15
100	Intrinsic bioactivity of black phosphorus nanomaterials on mitotic centrosome destabilization through suppression of PLK1 kinase. <i>Nature Nanotechnology</i> , <b>2021</b> , 16, 1150-1160	28.7	15
99	High temperature sensitivity of manganese-assisted excitonic photoluminescence from inverted core/shell ZnSe:Mn/CdSe nanocrystals. <i>Applied Physics Letters</i> , <b>2010</b> , 96, 123104	3.4	14
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