

Jun He

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273
papers

7,567
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48
h-index

76
g-index

291
ext. papers

9,579
ext. citations

6.8
avg, IF

6.47
L-index

#	Paper	IF	Citations
273	Two-dimensional transition metal dichalcogenides: interface and defect engineering. <i>Chemical Society Reviews</i> , 2018 , 47, 3100-3128	58.5	381
272	Tunable GaTe-MoS ₂ van der Waals p-n Junctions with Novel Optoelectronic Performance. <i>Nano Letters</i> , 2015 , 15, 7558-66	11.5	303
271	Femtosecond laser induced robust periodic nanoripple structured mesh for highly efficient oil-water separation. <i>Nanoscale</i> , 2017 , 9, 14229-14235	7.7	219
270	2D MoS Neuromorphic Devices for Brain-Like Computational Systems. <i>Small</i> , 2017 , 13, 1700933	11	200
269	Van der Waals epitaxy and photoresponse of hexagonal tellurium nanoplates on flexible mica sheets. <i>ACS Nano</i> , 2014 , 8, 7497-505	16.7	198
268	A simple way to achieve bioinspired hybrid wettability surface with micro/nanopatterns for efficient fog collection. <i>Nanoscale</i> , 2017 , 9, 14620-14626	7.7	191
267	Three-photon absorption in ZnO and ZnS crystals. <i>Optics Express</i> , 2005 , 13, 9235-47	3.3	173
266	2D library beyond graphene and transition metal dichalcogenides: a focus on photodetection. <i>Chemical Society Reviews</i> , 2018 , 47, 6296-6341	58.5	145
265	Ultrafast recovery time and broadband saturable absorption properties of black phosphorus suspension. <i>Applied Physics Letters</i> , 2015 , 107, 091905	3.4	138
264	2D electric-double-layer phototransistor for photoelectronic and spatiotemporal hybrid neuromorphic integration. <i>Nanoscale</i> , 2019 , 11, 1360-1369	7.7	132
263	Transition from insulator to metal induced by hybridized connection of graphene and boron nitride nanoribbons. <i>Applied Physics Letters</i> , 2010 , 97, 193305	3.4	130
262	High-performance, multifunctional devices based on asymmetric van der Waals heterostructures. <i>Nature Electronics</i> , 2018 , 1, 356-361	28.4	123
261	From Water Oxidation to Reduction: Transformation from Ni(x)Co(3-x)O ₄ Nanowires to NiCo/NiCoO(x) Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 3208-14	9.5	106
260	Single-atom catalysts and their applications in organic chemistry. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8793-8814	13	100
259	Artificial Synapses Based on in-Plane Gate Organic Electrochemical Transistors. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 26169-26175	9.5	100
258	Recent Progress in the Fabrication, Properties, and Devices of Heterostructures Based on 2D Materials. <i>Nano-Micro Letters</i> , 2019 , 11, 13	19.5	100
257	Low-Temperature Processed, Efficient, and Highly Reproducible Cesium-Doped Triple Cation Perovskite Planar Heterojunction Solar Cells. <i>Solar Rrl</i> , 2018 , 2, 1700209	7.1	97

256	Templated growth of oriented layered hybrid perovskites on 3D-like perovskites. <i>Nature Communications</i> , 2020 , 11, 582	17.4	92
255	Robust laser-structured asymmetrical PTFE mesh for underwater directional transportation and continuous collection of gas bubbles. <i>Applied Physics Letters</i> , 2018 , 112, 243701	3.4	87
254	Broadband spatial self-phase modulation of black phosphorous. <i>Optics Letters</i> , 2016 , 41, 1704-7	3	87
253	High-Performance Broadband Perovskite Photodetectors Based on CH ₃ NH ₃ PbI ₃ /C ₈ BTBT Heterojunction. <i>Advanced Electronic Materials</i> , 2017 , 3, 1700058	6.4	84
252	Quantum-Dot-Derived Catalysts for CO ₂ Reduction Reaction. <i>Joule</i> , 2019 , 3, 1703-1718	27.8	78
251	Coplanar Multigate MoS Electric-Double-Layer Transistors for Neuromorphic Visual Recognition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25943-25948	9.5	74
250	A Sub-10 nm Vertical Organic/Inorganic Hybrid Transistor for Pain-Perceptual and Sensitization-Regulated Nociceptor Emulation. <i>Advanced Materials</i> , 2020 , 32, e1906171	24	74
249	Ultrafast Achievement of a Superhydrophilic/Hydrophobic Janus Foam by Femtosecond Laser Ablation for Directional Water Transport and Efficient Fog Harvesting. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31433-31440	9.5	74
248	Monolayer AgBiPSe: an atomically thin ferroelectric semiconductor with out-plane polarization. <i>Nanoscale</i> , 2017 , 9, 8427-8434	7.7	71
247	Tunable Room-Temperature Ferromagnetism in Two-Dimensional CrTe. <i>Nano Letters</i> , 2020 , 20, 3130-3139	9.5	71
246	Transient security transistors self-supported on biodegradable natural-polymer membranes for brain-inspired neuromorphic applications. <i>Nanoscale</i> , 2018 , 10, 14893-14901	7.7	69
245	Flexible and air-stable perovskite network photodetectors based on CH ₃ NH ₃ PbI ₃ /C ₈ BTBT bulk heterojunction. <i>Applied Physics Letters</i> , 2018 , 112, 233301	3.4	69
244	Two-dimensional structures of ferroelectric domain inversion in LiNbO ₃ by direct electron beam lithography. <i>Journal of Applied Physics</i> , 2003 , 93, 9943-9946	2.5	69
243	Excitonic nonlinear absorption in CdS nanocrystals studied using Z-scan technique. <i>Journal of Applied Physics</i> , 2004 , 95, 6381-6386	2.5	68
242	Ultrafast nano-structuring of superwetting Ti foam with robust antifouling and stability towards efficient oil-in-water emulsion separation. <i>Nanoscale</i> , 2019 , 11, 17607-17614	7.7	67
241	Valleytronics in transition metal dichalcogenides materials. <i>Nano Research</i> , 2019 , 12, 2695-2711	10	60
240	Z-scan theory of two-photon absorption saturation and experimental evidence. <i>Journal of Applied Physics</i> , 2007 , 102, 083101	2.5	58
239	Observation of interband two-photon absorption saturation in CdS nanocrystals. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 19184-7	3.4	58

238	Overcoming barriers in photodynamic therapy harnessing nano-formulation strategies. <i>Chemical Society Reviews</i> , 2021 , 50, 9152-9201	58.5	56
237	Ultrafast and large third-order nonlinear optical properties of CdS nanocrystals in polymeric film. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 4373-6	3.4	55
236	Highly Efficient, Solution-Processed CsPbI ₂ Br Planar Heterojunction Perovskite Solar Cells via Flash Annealing. <i>ACS Photonics</i> , 2018 , 5, 4104-4110	6.3	55
235	Enhanced microwave absorption properties of Fe ₃ O ₄ -modified flaky FeSiAl. <i>Journal of Magnetism and Magnetic Materials</i> , 2017 , 444, 49-53	2.8	54
234	Two-dimensional black phosphorus: its fabrication, functionalization and applications. <i>Nanoscale</i> , 2018 , 10, 21575-21603	7.7	54
233	Under-oil self-driven and directional transport of water on a femtosecond laser-processed superhydrophilic geometry-gradient structure. <i>Nanoscale</i> , 2020 , 12, 4077-4084	7.7	53
232	Large-area and high-performance CH ₃ NH ₃ PbI ₃ perovskite photodetectors fabricated via doctor blading in ambient condition. <i>Organic Electronics</i> , 2017 , 49, 347-354	3.5	53
231	Three-photon absorption in water-soluble ZnS nanocrystals. <i>Applied Physics Letters</i> , 2006 , 88, 181114	3.4	52
230	Femtosecond laser structuring of Janus foam: Water spontaneous antigravity unidirectional penetration and pumping. <i>Applied Physics Letters</i> , 2018 , 113, 203701	3.4	51
229	Observation of resonant energy transfer in Au:CdS nanocomposite. <i>Applied Physics Letters</i> , 2004 , 84, 4684-4686	3.4	49
228	Quantum interference in spontaneous emission of an atom embedded in a double-band photonic crystal. <i>Physical Review A</i> , 2002 , 65,	2.6	49
227	Recent advances in femtosecond laser-structured Janus membranes with asymmetric surface wettability. <i>Nanoscale</i> , 2021 , 13, 2209-2226	7.7	49
226	Nonvolatile and Programmable Photodoping in MoTe for Photoresist-Free Complementary Electronic Devices. <i>Advanced Materials</i> , 2018 , 30, e1804470	24	49
225	Observation of large nonlinear responses in a graphene-Bi ₂ Te ₃ heterostructure at a telecommunication wavelength. <i>Applied Physics Letters</i> , 2016 , 108, 221901	3.4	47
224	Vertical 0D-Perovskite/2D-MoS van der Waals Heterojunction Phototransistor for Emulating Photoelectric-Synergistically Classical Pavlovian Conditioning and Neural Coding Dynamics. <i>Small</i> , 2020 , 16, e2005217	11	46
223	Hybrids of PtRu Nanoclusters and Black Phosphorus Nanosheets for Highly Efficient Alkaline Hydrogen Evolution Reaction. <i>ACS Catalysis</i> , 2019 , 9, 10870-10875	13.1	45
222	Ultra-broadband Nonlinear Saturable Absorption for Two-dimensional Bi ₂ TexSe _{3-x} Nanosheets. <i>Scientific Reports</i> , 2016 , 6, 33070	4.9	44
221	Ultrafast and ultrasensitive phototransistors based on few-layered HfSe ₂ . <i>Applied Physics Letters</i> , 2016 , 109, 213105	3.4	44

220	Proton-electron-coupled MoS ₂ synaptic transistors with a natural renewable biopolymer neurotransmitter for brain-inspired neuromorphic learning. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 682-691	7.1	43
219	Air-Induced High-Quality CH ₃ NH ₃ PbI ₃ Thin Film for Efficient Planar Heterojunction Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 6575-6580	3.8	42
218	Direct Observation of the Linear Dichroism Transition in Two-Dimensional Palladium Diselenide. <i>Nano Letters</i> , 2020 , 20, 1172-1182	11.5	42
217	Electron-hole overlap dictates the hole spin relaxation rate in nanocrystal heterostructures. <i>Physical Review Letters</i> , 2010 , 105, 046601	7.4	41
216	Electromagnetic matching and microwave absorption abilities of Ti ₃ SiC ₂ encapsulated with Ni _{0.5} Zn _{0.5} Fe ₂ O ₄ shell. <i>Journal of Magnetism and Magnetic Materials</i> , 2019 , 473, 184-189	2.8	41
215	Facile synthesis and excellent microwave absorption properties of FeCo-C core-shell nanoparticles. <i>Nanotechnology</i> , 2018 , 29, 085604	3.4	40
214	Control of exciton spin relaxation by electron-hole decoupling in type-II nanocrystal heterostructures. <i>Nano Letters</i> , 2008 , 8, 4007-13	11.5	40
213	Gate-Coupling-Enabled Robust Hysteresis for Nonvolatile Memory and Programmable Rectifier in Van der Waals Ferroelectric Heterojunctions. <i>Advanced Materials</i> , 2020 , 32, e1908040	24	39
212	Engineering ultrafast charge transfer in a bismuthene/perovskite nanohybrid. <i>Nanoscale</i> , 2019 , 11, 2637-2643	7.43	38
211	Large-scale roll-to-roll printed, flexible and stable organic bulk heterojunction photodetector. <i>Npj Flexible Electronics</i> , 2018 , 2,	10.7	37
210	Niobium Carbide MXenes with Broad-Band Nonlinear Optical Response and Ultrafast Carrier Dynamics. <i>ACS Nano</i> , 2020 , 14, 10492-10502	16.7	37
209	Dynamic self-diffraction in MoS ₂ nanoflake solutions. <i>Optics Express</i> , 2015 , 23, 5875-87	3.3	36
208	Tri-phase all-optical switching and broadband nonlinear optical response in BiSe nanosheets. <i>Optics Express</i> , 2017 , 25, 18346-18354	3.3	36
207	Enhanced Nonlinear Optical Response of Rectangular MoS ₂ and MoS ₂ /TiO ₂ in Dispersion and Film. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 18243-18248	3.8	36
206	Abnormal Near-Infrared Absorption in 2D Black Phosphorus Induced by Ag Nanoclusters Surface Functionalization. <i>Advanced Materials</i> , 2018 , 30, e1801931	24	35
205	Three-photon absorption saturation in ZnO and ZnS crystals. <i>Journal of Applied Physics</i> , 2008 , 103, 073105	10.5	35
204	Multibit Optoelectronic Memory in Top-Floating-Gated van der Waals Heterostructures. <i>Advanced Functional Materials</i> , 2019 , 29, 1902890	15.6	33
203	Robust Hierarchical Porous PTFE Film Fabricated via Femtosecond Laser for Self-Cleaning Passive Cooling. <i>Nano Letters</i> , 2021 , 21, 4209-4216	11.5	33

202	Photoelectric Visual Adaptation Based on 0D-CsPbBr ₃ -Quantum-Dots/2D-MoS ₂ Mixed-Dimensional Heterojunction Transistor. <i>Advanced Functional Materials</i> , 2021 , 31, 2010655	15.6	31
201	Emerging 2D Memory Devices for In-Memory Computing. <i>Advanced Materials</i> , 2021 , 33, e2007081	24	30
200	Femtosecond laser induced robust Ti foam based evaporator for efficient solar desalination. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 8361-8367	13	29
199	Fano resonances in heterogeneous dimers of silicon and gold nanospheres. <i>Frontiers of Physics</i> , 2018 , 13, 1	3.7	29
198	Study on the strain-induced mechanical property modulations in monolayer Tellurene. <i>Journal of Applied Physics</i> , 2019 , 125, 064304	2.5	29
197	Phase control of chromium oxide in selective microregions by laser annealing. <i>Journal of Applied Physics</i> , 2003 , 93, 3951-3953	2.5	28
196	High-performance formamidinium-based perovskite photodetectors fabricated via doctor-blading deposition in ambient condition. <i>Organic Electronics</i> , 2017 , 47, 102-107	3.5	27
195	Boosting magnetic field enhancement with radiative couplings of magnetic modes in dielectric nanostructures. <i>Optics Express</i> , 2017 , 25, 15927-15937	3.3	27
194	Hardware implementation of photoelectrically modulated dendritic arithmetic and spike-timing-dependent plasticity enabled by an ion-coupling gate-tunable vertical 0D-perovskite/2D-MoS hybrid-dimensional van der Waals heterostructure. <i>Nanoscale</i> , 2020 , 12, 21798-21811	7.7	27
193	Fully-printed, flexible cesium-doped triple cation perovskite photodetector. <i>Applied Materials Today</i> , 2019 , 15, 389-397	6.6	26
192	Ultrafast fabrication of Cu oxide micro/nano-structures via laser ablation to promote oxygen evolution reaction. <i>Chemical Engineering Journal</i> , 2020 , 383, 123086	14.7	26
191	Black phosphorus inverter devices enabled by in-situ aluminum surface modification. <i>Nano Research</i> , 2019 , 12, 531-536	10	26
190	Facile synthesis of Fe/Fe ₃ C-C core-shell nanoparticles as a high-efficiency microwave absorber. <i>Applied Surface Science</i> , 2019 , 493, 1083-1089	6.7	25
189	Plasmonic nanoantenna-dielectric nanocavity hybrids for ultrahigh local electric field enhancement. <i>Optics Express</i> , 2018 , 26, 31116-31128	3.3	25
188	The origin of the strong microwave absorption in black TiO ₂ . <i>Applied Physics Letters</i> , 2016 , 108, 183102	3.4	25
187	Abnormal nonlinear optical properties of hybrid graphene-TiO nanostructures. <i>Optics Letters</i> , 2018 , 43, 523-526	3	24
186	Photophysical and Nonlinear-Optical Properties of a New Polymer: Hydroxylated Pyridyl Para-phenylene. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 11043-11047	3.4	24
185	Selective area epitaxy of III-V nanostructure arrays and networks: Growth, applications, and future directions. <i>Applied Physics Reviews</i> , 2021 , 8, 021302	17.3	24

184	Laser Fabrication of Bioinspired Gradient Surfaces for Wettability Applications. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001610	4.6	24
183	Role of surface energy in nanowire growth. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 283002	3	24
182	Effect of sulphur vacancy and interlayer interaction on the electronic structure and spin splitting of bilayer MoS. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 125302	1.8	23
181	Direct Observation of High Photoresponsivity in Pure Graphene Photodetectors. <i>Nanoscale Research Letters</i> , 2017 , 12, 93	5	22
180	Rapid Fabrication of Ni/NiO@CoFe Layered Double Hydroxide Hierarchical Nanostructures by Femtosecond Laser Ablation and Electrodeposition for Efficient Overall Water Splitting. <i>ChemSusChem</i> , 2019 , 12, 2773-2779	8.3	22
179	Interfacial electronic structures of MoOx/mixed perovskite photodetector. <i>Organic Electronics</i> , 2019 , 65, 162-169	3.5	22
178	Cobalt hydroxide-black phosphorus nanosheets: A superior electrocatalyst for electrochemical oxygen evolution. <i>Electrochimica Acta</i> , 2019 , 297, 40-45	6.7	22
177	Ready player one? Autophagy shapes resistance to photodynamic therapy in cancers. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2018 , 23, 587-606	5.4	22
176	Enhancing the performance of planar heterojunction perovskite solar cells using stable semiquinone and amine radical modified hole transport layer. <i>Journal of Power Sources</i> , 2018 , 390, 134-141	8.9	21
175	Nonlinear optical properties of mono-functional 1,2-dihydro-1,2-methanofullerene[60]-61-carboxylic acid/polymer composites. <i>Chemical Physics Letters</i> , 2003 , 369, 281-286	2.5	21
174	Investigation on the electromagnetic and broadband microwave absorption properties of Ti3C2 Mxene/flaky carbonyl iron composites. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 6537-6543	2.1	21
173	Facile synthesis and influences of Fe/Ni ratio on the microwave absorption performance of ultra-small FeNi-C core-shell nanoparticles. <i>Materials Research Bulletin</i> , 2020 , 126, 110837	5.1	20
172	Fast-response and high-responsivity FAXMA(1X)PbI3 photodetectors fabricated via doctor-blading deposition in ambient condition. <i>Organic Electronics</i> , 2018 , 52, 190-194	3.5	20
171	Polymer-Decorated 2D MoS2 Synaptic Transistors for Biological Bipolar Metaplasticities Emulation. <i>Chinese Physics Letters</i> , 2020 , 37, 088501	1.8	18
170	Three-photon absorption in semiconductor quantum dots: experiment. <i>Optics Express</i> , 2008 , 16, 6999-7005	3.5	18
169	A series of homoleptic bis(phthalocyaninato) rare earth sandwich complexes with large two-photon absorption cross-section. <i>Dyes and Pigments</i> , 2015 , 122, 346-350	4.6	17
168	Influences of oxygen vacancies on the enhanced nonlinear optical properties of confined ZnO quantum dots. <i>Journal of Alloys and Compounds</i> , 2018 , 739, 345-352	5.7	17
167	Atomically Thin Noble Metal Dichalcogenides for Phase-Regulated Meta-optics. <i>Nano Letters</i> , 2020 , 20, 7811-7818	11.5	17

- 166 Recent Advances in 2D Materials for Photodetectors. *Advanced Electronic Materials*, **2021**, 7, 2001125 6.4 17
- 165 High Carrier Separation Efficiency in Morphology-Controlled BiOBr/C Schottky Junctions for Photocatalytic Overall Water Splitting. *ACS Nano*, **2021**, 15, 13209-13219 16.7 17
- 164 Robust trap effect in transition metal dichalcogenides for advanced multifunctional devices. *Nature Communications*, **2019**, 10, 4133 17.4 16
- 163 Quick Optical Identification of the Defect Formation in Monolayer WSe for Growth Optimization. *Nanoscale Research Letters*, **2019**, 14, 274 5 16
- 162 Bridging the van der Waals Interface for Advanced Optoelectronic Devices. *Advanced Materials*, **2020**, 32, e1906874 24 16
- 161 Electronic structures and transport properties of zigzag BNC nanoribbons with different combinations of BN and graphene nanoribbons. *Computational Condensed Matter*, **2015**, 4, 40-45 1.7 15
- 160 Direct bilayer growth: a new growth principle for a novel WSe homo-junction and bilayer WSe growth. *Nanoscale*, **2020**, 12, 3715-3722 7.7 15
- 159 Excited state dynamics studies of iron(III) phthalocyanine using femtosecond pump-probe techniques. *Chemical Physics Letters*, **2003**, 370, 293-299 2.5 15
- 158 Femtosecond nonlinear birefringence and nonlinear dichroism in Au:TiO₂ composite films. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2003**, 306, 348-352 2.3 15
- 157 Unexpected benefits of stacking faults on the electronic structure and optical emission in wurtzite GaAs/GaN core/shell nanowires. *Nanoscale*, **2019**, 11, 9207-9215 7.7 14
- 156 Investigation on microwave dielectric behavior of flaky carbonyl iron composites. *Journal of Materials Science: Materials in Electronics*, **2018**, 29, 15112-15118 2.1 14
- 155 Gram-scale synthesis, thermal stability, magnetic properties, and microwave absorption application of extremely small Co₂ core-shell nanoparticles. *Materials Research Express*, **2017**, 4, 075044 1.7 14
- 154 Smart Acid-Activatable Self-Assembly of Black Phosphorous as Photosensitizer to Overcome Poor Tumor Retention in Photothermal Therapy. *Advanced Functional Materials*, **2020**, 30, 2003338 15.6 14
- 153 Nonlinear polarization evolution of hybridly polarized vector beams through isotropic Kerr nonlinearities. *Optics Express*, **2016**, 24, 25867-25875 3.3 14
- 152 In-Plane Optical and Electrical Anisotropy of 2D Black Arsenic. *ACS Nano*, **2021**, 15, 1701-1709 16.7 14
- 151 A review on spatial self-phase modulation of two-dimensional materials. *Journal of Central South University*, **2019**, 26, 2295-2306 2.1 13
- 150 Mechanically and electronically controlled molecular switch behavior in a compound molecular device. *Applied Physics Letters*, **2010**, 97, 103506 3.4 13
- 149 Gapless van der Waals Heterostructures for Infrared Optoelectronic Devices. *ACS Nano*, **2019**, 13, 14519-14528 16.5 13

148	Enhanced thermoelectric properties in boron nitride quantum-dot. <i>Results in Physics</i> , 2017 , 7, 1487-1491	3.7	12
147	Dopant-Free Twinning Superlattice Formation in InSb and InP Nanowires. <i>Physica Status Solidi - Rapid Research Letters</i> , 2017 , 11, 1700310	2.5	12
146	Enhanced electromagnetic wave absorption of NiO core-shell nanoparticles by HCP-Ni phase. <i>Materials Research Express</i> , 2018 , 5, 095013	1.7	12
145	Growth and Raman Scattering Investigation of a New 2D MOX Material: YbOCl. <i>Advanced Functional Materials</i> , 2019 , 29, 1903017	15.6	12
144	Z-scan characterization of optical nonlinearities of an imperfect sample profits from radially polarized beams. <i>Applied Physics B: Lasers and Optics</i> , 2014 , 117, 1141-1147	1.9	12
143	Tuning Photoluminescence of Ge/GeO ₂ Core/Shell Nanoparticles by Strain. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 19863-19866	3.8	12
142	Direct observation of three-photon resonance in water-soluble ZnS quantum dots. <i>Applied Physics Letters</i> , 2008 , 92, 131114	3.4	12
141	Spontaneous emission spectrum from a V-type three-level atom in a double-band photonic crystal. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2002 , 4, 300-307		12
140	Enhanced nonlinear optical properties of alloyed AgCu glassy nanoparticles. <i>Journal of Alloys and Compounds</i> , 2020 , 819, 153003	5.7	12
139	Creating a Dual-Functional 2D Perovskite Layer at the Interface to Enhance the Performance of Flexible Perovskite Solar Cells. <i>Small</i> , 2021 , 17, e2102368	11	12
138	A unipolar nonvolatile resistive switching behavior in a layered transition metal oxide. <i>Nanoscale</i> , 2019 , 11, 20497-20506	7.7	12
137	Femtosecond Laser Thermal Accumulation-Triggered Micro-/Nanostructures with Patternable and Controllable Wettability Towards Liquid Manipulating.. <i>Nano-Micro Letters</i> , 2022 , 14, 97	19.5	12
136	Effect of magnetic field on electronic transport in a bilayer graphene nanomesh. <i>Nanotechnology</i> , 2017 , 28, 235303	3.4	11
135	Improved magnetic loss and impedance matching of the FeNi-decorated Ti ₃ C ₂ T MXene composite toward the broadband microwave absorption performance. <i>Journal of Alloys and Compounds</i> , 2021 , 862, 158684	5.7	11
134	Polarization rotation of hybridly polarized beams in a uniaxial crystal orthogonal to the optical axis: theory and experiment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2017 , 34, 1-6	1.8	10
133	Efficient second harmonic generation in gold-silicon core-shell nanostructures. <i>Optics Express</i> , 2018 , 26, 5835-5844	3.3	10
132	Effects of the magnetic anchoring groups on spin-dependent transport properties of Ni(dmit) ₂ device. <i>Chemical Physics Letters</i> , 2014 , 608, 28-34	2.5	10
131	Enhanced sensitivity of the Z-scan technique on saturable absorbers using radially polarized beams. <i>Journal of Applied Physics</i> , 2016 , 119, 073103	2.5	10

130	Synthesis of bismuth selenide nanoplates by solvothermal methods and its stacking optical properties. <i>Journal of Applied Physics</i> , 2019 , 125, 035302	2.5	9
129	Strain-gradient facilitated formation of confined Ge/GeO ₂ nanoparticles with a cracked shell and enhanced two-photon absorption. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8768-8772	7.1	9
128	Investigation of the dynamic bending properties of MoS ₂ thin films by interference colours. <i>Scientific Reports</i> , 2015 , 5, 18441	4.9	9
127	Upconversion photoluminescence of CdS nanocrystals in polymeric film. <i>Journal of Applied Physics</i> , 2008 , 104, 023110	2.5	9
126	Observation of spatial self-phase modulation induced via two competing mechanisms. <i>Optics Letters</i> , 2020 , 45, 2850-2853	3	9
125	High-performance Memristors based on Ultrathin Two-dimensional Copper Chalcogenides.. <i>Advanced Materials</i> , 2022 , e2108313	24	9
124	Magnetic toroidal dipole response in individual all-dielectric nanodisk clusters. <i>Nanoscale</i> , 2020 , 12, 10639-10646	7.7	9
123	Tuning strain and photoluminescence of confined Au nanoparticles by hydrogen passivation. <i>RSC Advances</i> , 2017 , 7, 6875-6879	3.7	8
122	Strain Engineered Band Structure and Optical Properties of Confined GaAs Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 5800-5804	3.8	8
121	Engineering two-wire optical antennas for near field enhancement. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017 , 25, 72-76	2.6	8
120	ELECTRONIC TRANSPORT PROPERTIES OF TRANSITION METAL (Cu, Fe) PHTHALOCYANINES CONNECTING TO V-SHAPED ZIGZAG GRAPHENE NANORIBBONS. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1450019	1.1	8
119	The weak π - π interaction originated resonant tunneling and fast switching in the carbon based electronic devices. <i>AIP Advances</i> , 2012 , 2, 012137	1.5	8
118	Fabrication and electrical and photosensitive properties of silicon nanowire p-n homojunctions. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2008 , 205, 2722-2728	1.6	8
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