

Mun Seok Jeong

List of Publications by Year in descending order

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252
papers

6,200
citations

61984

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98798

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260
all docs

260
docs citations

260
times ranked

10406
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman study of D* band in graphene oxide and its correlation with reduction. Applied Surface Science, 2021, 536, 147990.	6.1	215
2	A Review: Thermal Stability of Methylammonium Lead Halide Based Perovskite Solar Cells. Applied Sciences (Switzerland), 2019, 9, 188.	2.5	173
3	Efficient Excitonic Photoluminescence in Direct and Indirect Band Gap Monolayer MoS ₂ . Nano Letters, 2015, 15, 6841-6847.	9.1	171
4	Synthesis of Centimeter-Scale Monolayer Tungsten Disulfide Film on Gold Foils. ACS Nano, 2015, 9, 5510-5519.	14.6	166
5	Control of Photoluminescence of Carbon Nanodots via Surface Functionalization using Para-substituted Anilines. Scientific Reports, 2015, 5, 12604.	3.3	146
6	A Diameter-Selective Attack of Metallic Carbon Nanotubes by Nitronium Ions. Journal of the American Chemical Society, 2005, 127, 5196-5203.	13.7	145
7	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. Nature Communications, 2016, 7, 13278.	12.8	120
8	Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. Nature Energy, 2019, 4, 969-976.	39.5	120
9	Highly Enhanced Photoresponsivity of a Monolayer WSe ₂ Photodetector with Nitrogen-Doped Graphene Quantum Dots. ACS Applied Materials & Interfaces, 2018, 10, 10322-10329.	8.0	114
10	Synthesis of carbon-encapsulated magnetic nanoparticles by pulsed laser irradiation of solution. Carbon, 2008, 46, 1369-1377.	10.3	113
11	Polymer-Templated Hydrothermal Growth of Vertically Aligned Single-Crystal ZnO Nanorods and Morphological Transformations Using Structural Polarity. Advanced Functional Materials, 2010, 20, 3055-3063.	14.9	113
12	Photochemical Reaction in Monolayer MoS ₂ <i>via</i> Correlated Photoluminescence, Raman Spectroscopy, and Atomic Force Microscopy. ACS Nano, 2016, 10, 5230-5236.	14.6	101
13	Laser Thinning for Monolayer Graphene Formation: Heat Sink and Interference Effect. ACS Nano, 2011, 5, 263-268.	14.6	94
14	Semiconductor-Insulator-Semiconductor Diode Consisting of Monolayer MoS ₂ , h-BN, and GaN Heterostructure. ACS Nano, 2015, 9, 10032-10038.	14.6	88
15	Carrier localization in In-rich InGaN/GaN multiple quantum wells for green light-emitting diodes. Scientific Reports, 2015, 5, 9373.	3.3	86
16	Multiphoton Absorption Coefficients of Organic-Inorganic Lead Halide Perovskites CH ₃ NH ₃ PbX ₃ (X = Cl, Br, I) Single Crystals. Chemistry of Materials, 2017, 29, 6876-6882.	6.7	86
17	Modulating the Functions of MoS ₂ /MoTe ₂ van der Waals Heterostructure <i>via</i> Thickness Variation. ACS Nano, 2019, 13, 4478-4485.	14.6	85
18	Growth of Wafer-Scale Standing Layers of WS ₂ for Self-Biased High-Speed UV-Visible-NIR Optoelectronic Devices. ACS Applied Materials & Interfaces, 2018, 10, 3964-3974.	8.0	83

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19	Negative and Positive Persistent Photoconductance in Graphene. Nano Letters, 2011, 11, 4682-4687.	9.1	82
20	Augmented Quantum Yield of a 2D Monolayer Photodetector by Surface Plasmon Coupling. Nano Letters, 2018, 18, 2316-2323.	9.1	82
21	Unveiling Defect-Related Raman Mode of Monolayer WS ₂ via Tip-Enhanced Resonance Raman Scattering. ACS Nano, 2018, 12, 9982-9990.	14.6	78
22	Modulation of Junction Modes in SnSe ₂ /MoTe ₂ Broken-Gap van der Waals Heterostructure for Multifunctional Devices. Nano Letters, 2020, 20, 2370-2377.	9.1	75
23	Metal-Insulator-Semiconductor Diode Consisting of Two-Dimensional Nanomaterials. Nano Letters, 2016, 16, 1858-1862.	9.1	74
24	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. Scientific Reports, 2016, 6, 24205.	3.3	72
25	Enhancement of Light Extraction Through the Wave-Guiding Effect of ZnO Sub-microrods in InGaN Blue Light-Emitting Diodes. Advanced Functional Materials, 2010, 20, 1076-1082.	14.9	71
26	Role of Surface States in Photocatalysis: Study of Chlorine-Passivated CdSe Nanocrystals for Photocatalytic Hydrogen Generation. Chemistry of Materials, 2016, 28, 962-968.	6.7	71
27	Plasmonic Transition Metal Carbide Electrodes for High-Performance InSe Photodetectors. ACS Nano, 2019, 13, 8804-8810.	14.6	69
28	Compliance-Free Multileveled Resistive Switching in a Transparent 2D Perovskite for Neuromorphic Computing. ACS Applied Materials & Interfaces, 2018, 10, 12768-12772.	8.0	64
29	Luminescence and Raman studies of YNbO ₄ phosphors doped by Eu ³⁺ , Ga ³⁺ , and Al ³⁺ . Journal of Applied Physics, 2010, 107, .	2.5	62
30	Direct growth of GaN layer on carbon nanotube-graphene hybrid structure and its application for light emitting diodes. Scientific Reports, 2015, 5, 7747.	3.3	62
31	Light-extraction enhancement of a GaN-based LED covered with ZnO nanorod arrays. Nanoscale, 2014, 6, 4371-4378.	5.6	60
32	Enhanced Stability of MAPbI ₃ Perovskite Solar Cells using Poly(p-chloro-xylylene) Encapsulation. Scientific Reports, 2019, 9, 15461.	3.3	60
33	Spatially resolved photoluminescence in InGaN/GaN quantum wells by near-field scanning optical microscopy. Applied Physics Letters, 2001, 79, 976-978.	3.3	56
34	Directional control of surface plasmon polariton waves propagating through an asymmetric Bragg resonator. Applied Physics Letters, 2009, 94, 063115.	3.3	56
35	Fast P3HT Exciton Dissociation and Absorption Enhancement of Organic Solar Cells by PEG-Functionalized Graphene Quantum Dots. Small, 2016, 12, 994-999.	10.0	55
36	Reproducible increased Mg incorporation and large hole concentration in GaN using metal modulated epitaxy. Journal of Applied Physics, 2008, 104, .	2.5	54

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37	New PCBM/carbon based electron transport layer for perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 17960-17966.	2.8	54
38	A Novel and Facile Route to Synthesize Atomic-Layered MoS ₂ Film for Large-Area Electronics. Small, 2017, 13, 1701306.	10.0	53
39	Silver Nanowire Transparent Conductive Electrodes for High-Efficiency III-Nitride Light-Emitting Diodes. Scientific Reports, 2015, 5, 13483.	3.3	50
40	A deconvoluted PL approach to probe the charge carrier dynamics of the grain interior and grain boundary of a perovskite film for perovskite solar cell applications. Physical Chemistry Chemical Physics, 2017, 19, 9143-9148.	2.8	49
41	Effect of donor-acceptor molecular orientation on charge photogeneration in organic solar cells. NPC Asia Materials, 2018, 10, 469-481.	7.9	49
42	Exfoliation of Transition Metal Dichalcogenides by a High-Power Femtosecond Laser. Scientific Reports, 2018, 8, 12957.	3.3	48
43	Direct growth of etch pit-free GaN crystals on few-layer graphene. RSC Advances, 2015, 5, 1343-1349.	3.6	46
44	Terahertz near-field enhancement in narrow rectangular apertures on metal film. Optics Express, 2009, 17, 12493.	3.4	44
45	Modulating Electronic Properties of Monolayer MoS ₂ via Electron-Withdrawing Functional Groups of Graphene Oxide. ACS Nano, 2016, 10, 10446-10453.	14.6	41
46	Yellow luminescence and persistent photoconductivity of undoped n-type GaN. Journal of Applied Physics, 2001, 89, 5454-5459.	2.5	38
47	Photovoltaic effect in a few-layer ReS ₂ /WSe ₂ heterostructure. Nanoscale, 2018, 10, 20306-20312.	5.6	38
48	Spatial variation of photoluminescence and related defects in InGaN/GaN quantum wells. Applied Physics Letters, 2001, 79, 3440-3442.	3.3	37
49	Probing Bilayer Grain Boundaries in Large-Area Graphene with Tip-Enhanced Raman Spectroscopy. Advanced Materials, 2017, 29, 1603601.	21.0	37
50	Emission properties of hydrothermal Yb ³⁺ , Er ³⁺ and Yb ³⁺ , Tm ³⁺ -codoped Lu ₂ O ₃ nanorods: upconversion, cathodoluminescence and assessment of waveguide behavior. Nanotechnology, 2011, 22, 075205.	2.6	36
51	Impact of PCBM/C60 electron transfer layer on charge transports on ordered and disordered perovskite phases and hysteresis-free perovskite solar cells. Organic Electronics, 2018, 56, 163-169.	2.6	34
52	Integrated Freestanding Two-dimensional Transition Metal Dichalcogenides. Advanced Materials, 2017, 29, 1700308.	21.0	33
53	Static Rashba Effect by Surface Reconstruction and Photon Recycling in the Dynamic Indirect Gap of APbBr ₃ (A = Cs, CH ₃ NH ₃) Single Crystals. Journal of the American Chemical Society, 2020, 142, 21059-21067.	13.7	33
54	Design of organic tandem solar cells using PCPDTBT:PC61BM and P3HT:PC71BM. Journal of Applied Physics, 2010, 107, .	2.5	32

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55	Oriented ZnO nanostructures and their application in photocatalysis. Journal of Luminescence, 2017, 185, 17-22.	3.1	32
56	Light Soaking Phenomena in Organic-Inorganic Mixed Halide Perovskite Single Crystals. ACS Photonics, 2017, 4, 2813-2820.	6.6	31
57	Synthesis of MoWS ₂ on Flexible Carbon-Based Electrodes for High-Performance Hydrogen Evolution Reaction. ACS Applied Materials & Interfaces, 2019, 11, 37550-37558.	8.0	31
58	GaAs quantum dots with a high density on a GaAs (111)A substrate. Applied Physics Letters, 2006, 88, 241911.	3.3	30
59	Optical absorption and anomalous photoconductivity in undoped n-type GaN. Applied Physics Letters, 2000, 76, 1021-1023.	3.3	29
60	The rapid growth of vertically aligned carbon nanotubes using laser heating. Nanotechnology, 2009, 20, 185604.	2.6	29
61	Spatially resolved photoluminescence and Raman mapping of epitaxial GaN laterally overgrown on sapphire. Physical Review B, 2010, 81, .	3.2	29
62	PURITY MEASUREMENT OF SINGLE-WALLED CARBON NANOTUBES BY UV-VIS-NIR ABSORPTION SPECTROSCOPY AND THERMOGRAVIMETRIC ANALYSIS. Nano, 2008, 03, 101-108.	1.0	28
63	Morphology-Dependent Hole Transfer under Negligible HOMO Difference in Non-Fullerene Acceptor-Based Ternary Polymer Solar Cells. ACS Applied Materials & Interfaces, 2019, 11, 7208-7215.	8.0	28
64	Suppressing spontaneous polarization of p-GaN by graphene oxide passivation: Augmented light output of GaN UV-LED. Scientific Reports, 2015, 5, 7778.	3.3	27
65	Switchable Two-Terminal Transparent Optoelectronic Devices Based on 2D Perovskite. Advanced Electronic Materials, 2019, 5, 1800662.	5.1	27
66	Transferable, flexible white light-emitting diodes of GaN p-n junction microcrystals fabricated by remote epitaxy. Nano Energy, 2021, 86, 106075.	16.0	27
67	Parameter control for enhanced peak-to-valley current ratio in a MoS ₂ /MoTe ₂ van der Waals heterostructure. Nanoscale, 2018, 10, 12322-12329.	5.6	25
68	Adaptive tip-enhanced nano-spectroscopy. Nature Communications, 2021, 12, 3465.	12.8	25
69	Efficient electrochemical etching method to fabricate sharp metallic tips for scanning probe microscopes. Review of Scientific Instruments, 2006, 77, 103706.	1.3	24
70	All-optical switching with a biexcitonic double lambda system. Optics Communications, 2011, 284, 1045-1052.	2.1	24
71	Reduced haze of transparent conductive films by smaller diameter silver nanowires. Nanotechnology, 2016, 27, 465706.	2.6	24
72	Methylammonium Compensation Effects in MAPbI ₃ Perovskite Solar Cells for High-Quality Inorganic CuSCN Hole Transport Layers. ACS Applied Materials & Interfaces, 2022, 14, 5203-5210.	8.0	24

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73	An improvement of light extraction efficiency for GaN-based light emitting diodes by selective etched nanorods in periodic microholes. Optics Express, 2013, 21, 7125.	3.4	23
74	Tip-Enhanced Raman Scattering Imaging of Two-Dimensional Tungsten Disulfide with Optimized Tip Fabrication Process. Scientific Reports, 2017, 7, 40810.	3.3	23
75	Influence of air degradation on morphology, crystal size and mechanical hardness of perovskite film. Materials Letters, 2018, 229, 167-170.	2.6	23
76	Photocurrent of CdSe nanocrystals on single-walled carbon nanotube-field effect transistor. Applied Physics Letters, 2008, 92, .	3.3	22
77	Enhanced response and sensitivity of self-corrugated graphene sensors with anisotropic charge distribution. Scientific Reports, 2015, 5, 11216.	3.3	22
78	Correlational study of halogen tuning effect in hybrid perovskite single crystals with Raman scattering, X-ray diffraction, and absorption spectroscopy. Journal of Alloys and Compounds, 2018, 738, 239-245.	5.5	22
79	Highly Efficient UV-Visible Photocatalyst from Monolithic 3D Titania/Graphene Quantum Dot Heterostructure Linked by Aminosilane. Advanced Sustainable Systems, 2019, 3, 1900084.	5.3	22
80	Investigation of Chemical Origin of White-Light Emission in Two-Dimensional (C ₄ H ₉ NH ₃) ₂ PbBr ₄ via Infrared Nanoscopy. Journal of Physical Chemistry Letters, 2019, 10, 7942-7948.	4.6	22
81	Inducing and Probing Localized Excitons in Atomically Thin Semiconductors via Tip-Enhanced Cavity-Spectroscopy. Advanced Functional Materials, 2021, 31, 2102893.	14.9	22
82	Patterning of type-II Dirac semimetal PtTe ₂ for optimized interface of tellurene optoelectronic device. Nano Energy, 2021, 86, 106049.	16.0	22
83	Experimental verification of surface plasmon amplification on a metallic transmission grating. Physical Review B, 2008, 77, .	3.2	21
84	Improved electrical conductivity of very long multi-walled carbon nanotube bundle/poly (methyl) Tj ETQq0 0 0 rgBT/Overlock, 10 Tf 50 3	10.3	21
85	Quantum Dot-Carbon Nanotube Hybrid Phototransistor with an Enhanced Optical Stark Effect. Advanced Functional Materials, 2013, 23, 3653-3660.	14.9	21
86	Chemically, spatially, and temporally resolved 2D mapping study for the role of grain interiors and grain boundaries of organic-inorganic lead halide perovskites. Solar Energy Materials and Solar Cells, 2016, 155, 134-140.	6.2	21
87	Impact of perovskite precursor solution temperature on charge carrier dynamics and photovoltaic performance of perovskite based solar cells. Organic Electronics, 2017, 42, 228-233.	2.6	21
88	Large-Area Fabrication of Periodic Sub-15 nm-Width Single-Layer Graphene Nanorings. Advanced Materials, 2013, 25, 199-204.	21.0	20
89	Effects of TiO ₂ Interfacial Atomic Layers on Device Performances and Exciton Dynamics in ZnO Nanorod Polymer Solar Cells. ACS Applied Materials & Interfaces, 2014, 6, 11649-11656.	8.0	20
90	Resolution enhancing using cantilevered tip-on-aperture silicon probe in scanning near-field optical microscopy. Ultramicroscopy, 2008, 108, 1070-1075.	1.9	19

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91	Defect structure originating from threading dislocations within the GaN film grown on a convex patterned sapphire substrate. <i>Thin Solid Films</i> , 2011, 519, 2398-2401.	1.8	19
92	Indium gallium nitride-based ultraviolet, blue, and green light-emitting diodes functionalized with shallow periodic hole patterns. <i>Scientific Reports</i> , 2017, 7, 45726.	3.3	19
93	Highly Efficient Thin-Film Transistor via Cross-Linking of 1T Edge Functional 2H Molybdenum Disulfides. <i>ACS Nano</i> , 2017, 11, 12832-12839.	14.6	19
94	Efficiency enhancements in non-fullerene acceptor-based organic solar cells by post-additive soaking. <i>Journal of Materials Chemistry A</i> , 2019, 7, 8805-8810.	10.3	19
95	Gate-controlled MoTe ₂ homojunction for sub-thermionic subthreshold swing tunnel field-effect transistor. <i>Nano Today</i> , 2021, 40, 101263.	11.9	19
96	Electrically and Optically Controllable p-n Junction Memtransistor Based on an Al ₂ O ₃ Encapsulated 2D Te/ReS ₂ van der Waals Heterostructure. <i>Small Methods</i> , 2021, 5, e2101303.	8.6	19
97	A diameter-selective chiral separation of single-wall carbon nanotubes using nitronium ions. <i>Journal of Electronic Materials</i> , 2006, 35, 235-242.	2.2	18
98	Synthesis and Characterization of Multiple-Cation Rb(MAFA)PbI ₃ Perovskite Single Crystals. <i>Scientific Reports</i> , 2019, 9, 2022.	3.3	18
99	Structural and optical properties of GaN films grown by the direct reaction of Ga and NH ₃ in a CVD reactor. <i>Solid-State Electronics</i> , 2000, 44, 1655-1661.	1.4	17
100	Confocal electroluminescence investigations of highly efficient green InGaN LED via ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2016, 660, 480-485.	5.5	17
101	Selective patterning of out-of-plane piezoelectricity in MoTe ₂ via focused ion beam. <i>Nano Energy</i> , 2021, 79, 105451.	16.0	17
102	Unveiling the irreversible performance degradation of organo-inorganic halide perovskite films and solar cells during heating and cooling processes. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 19487-19495.	2.8	16
103	Effect of hot-casted NiO hole transport layer on the performance of perovskite solar cells. <i>Solar Energy</i> , 2019, 188, 609-618.	6.1	16
104	Quantitative Analysis of Immunosuppressive Drugs Using Tungsten Disulfide Nanosheet-Assisted Laser Desorption Ionization Mass Spectrometry. <i>ACS Nano</i> , 2021, 15, 10141-10152.	14.6	16
105	Direct writing of carbon nanotube patterns by laser-induced chemical vapor deposition on a transparent substrate. <i>Applied Surface Science</i> , 2009, 255, 4526-4530.	6.1	15
106	Enhanced air-cavity effect of periodically oriented embedded air protrusions for high-efficiency InGaN/GaN light-emitting diodes. <i>Optics Letters</i> , 2010, 35, 3012.	3.3	15
107	Controlled synthesis of ZnO spheres using structure directing agents. <i>Thin Solid Films</i> , 2013, 534, 76-82.	1.8	15
108	One-Step Transfer and Integration of Multifunctionality in CVD Graphene by TiO ₂ /Graphene Oxide Hybrid Layer. <i>Small</i> , 2014, 10, 2057-2066.	10.0	15

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109	Ultraviolet, blue, and green InGaN-based light-emitting diodes functionalized with ZnO nanorods. Journal of Alloys and Compounds, 2017, 708, 612-618.	5.5	15
110	Encapsulation of a Monolayer WSe ₂ Phototransistor with Hydrothermally Grown ZnO Nanorods. ACS Applied Materials & Interfaces, 2019, 11, 20257-20264.	8.0	15
111	Simultaneously intensified plasmonic and charge transfer effects in surface enhanced Raman scattering sensors using an MXene-blanketed Au nanoparticle assembly. Journal of Materials Chemistry A, 2022, 10, 2945-2956.	10.3	15
112	Effect of embedded silica nanospheres on improving the performance of InGaN/GaN light-emitting diodes. Optics Express, 2011, 19, 2029.	3.4	14
113	Effect of InGaN polarization on V_{OC} in $\text{InGaN}/\text{GaInN}$ and MQW solar cells. Physica Status Solidi - Rapid Research Letters, 2011, 5, 86-88.	2.4	14
114	Novel Method of Evaluating the Purity of Multiwall Carbon Nanotubes Using Raman Spectroscopy. Journal of Nanomaterials, 2013, 2013, 1-6.	2.7	14
115	A non-volatile ϵ -programmable transparent multilevel ultra-violet perovskite photodetector. Nanoscale, 2018, 10, 11392-11396.	5.6	14
116	Contact Engineering of Layered MoS ₂ via Chemically Dipping Treatments. Advanced Functional Materials, 2020, 30, 2000250.	14.9	14
117	Effect of V-shaped defects on structural and optical properties of AlGaN/InGaN multiple quantum wells. Journal Physics D: Applied Physics, 2008, 41, 132006.	2.8	13
118	A crossbar-type high sensitivity ultraviolet photodetector array based on a one hole-one nanorod configuration via nanoimprint lithography. Nanotechnology, 2011, 22, 275310.	2.6	13
119	Enhancement of light output power in GaN-based light-emitting diodes using hydrothermally grown ZnO micro-walls. Optics Express, 2012, 20, 10597.	3.4	13
120	Structural and electrical characterization of InN, InGaN, and p-InGaN grown by metal-modulated epitaxy. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	1.2	13
121	Growth of Wafer-Scale ReS ₂ with ϵ -Tunable Geometry toward Electron Field-Emission Application. ACS Applied Materials & Interfaces, 2019, 11, 35845-35852.	8.0	13
122	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. ACS Applied Materials & Interfaces, 2019, 11, 38006-38015.	8.0	13
123	Hole trap, charge transfer and photoelectrochemical water oxidation in thickness-controlled TiO ₂ anatase thin films. Applied Surface Science, 2020, 529, 147020.	6.1	13
124	Role of the A-Site Cation in Low-Temperature Optical Behaviors of APbBr ₃ (A = Cs, Tl, Ag, Na, K). Journal of Physical Chemistry Letters, 2015, 6, 1370-1374.	13.7	13
125	Tip-Induced Strain Engineering of a Single Metal Halide Perovskite Quantum Dot. ACS Nano, 2021, 15, 9057-9064.	14.6	13
126	Light outcoupling effect in GaN light-emitting diodes via convex microstructures monolithically fabricated on sapphire substrate. Optics Express, 2011, 19, 9385.	3.4	12

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127	Singlet Exciton Delocalization in Gold Nanoparticle-Tethered Poly(3-hexylthiophene) Nanofibers with Enhanced Intrachain Ordering. <i>Macromolecules</i> , 2017, 50, 8487-8496.	4.8	12
128	Enhanced Stability of Perovskite Solar Cells using Organosilane-treated Double Polymer Passivation Layers. <i>Journal of the Korean Physical Society</i> , 2018, 73, 1787-1793.	0.7	12
129	Nanochemical Investigation of Degradation in Organic-Inorganic Hybrid Perovskite Films Using Infrared Nanoscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 3915-3922.	3.1	12
130	MoS ₂ Monolayers on Au Nanodot Arrays: Surface Plasmon, Local Strain, and Interfacial Electronic Interaction. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 3039-3044.	4.6	12
131	Unusual Hole Transfer Dynamics of the NiO Layer in Methylammonium Lead Tri-iodide Absorber Solar Cells. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 2770-2779.	4.6	12
132	Equilibrium structure and migration of a single dimer vacancy on the Si(001) surface. <i>Physical Review B</i> , 1995, 51, 17151-17157.	3.2	11
133	Current flow through different phases of dodecanethiol self-assembled monolayer. <i>Surface Science</i> , 2005, 583, 88-93.	1.9	11
134	Position-controlled synthesis of single-walled carbon nanotubes on a transparent substrate by laser-induced chemical vapor deposition. <i>Applied Surface Science</i> , 2010, 257, 641-649.	6.1	11
135	Enhanced light emission in blue light-emitting diodes by multiple Mie scattering from embedded silica nanosphere stacking layers. <i>Optics Express</i> , 2011, 19, 23429.	3.4	11
136	Chemically doped three-dimensional porous graphene monoliths for high-performance flexible field emitters. <i>Nanoscale</i> , 2015, 7, 5495-5502.	5.6	11
137	Optimal length of ZnO nanorods for improving the light-extraction efficiency of blue InGaN light-emitting diodes. <i>Optics Express</i> , 2015, 23, 23195.	3.4	11
138	Facile preparation of molybdenum disulfide quantum dots using a femtosecond laser. <i>Applied Surface Science</i> , 2020, 511, 145507.	6.1	11
139	Elucidating the photoluminescence-enhancement mechanism in a push-pull conjugated polymer induced by hot-electron injection from gold nanoparticles. <i>Photonics Research</i> , 2021, 9, 131.	7.0	11
140	Composites of cross-linked perovskite/polymer with sodium borate for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2022, 10, 14884-14893.	10.3	11
141	Influence of the purification process on the semiconducting content of single-walled carbon nanotubes synthesized by arc discharge. <i>Carbon</i> , 2013, 57, 338-345.	10.3	10
142	Photofluidic Near-Field Mapping of Electric-Field Resonance in Plasmonic Metasurface Assembled with Gold Nanoparticles. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 3745-3751.	4.6	10
143	Rapid large-grain (>100 nm) formation of organic-inorganic perovskite thin films via shear deposition for photovoltaic application. <i>Solar Energy</i> , 2019, 191, 629-636.	6.1	10
144	Quasi-2D Halide Perovskite Memory Device Formed by Acid-Base Binary Ligand Solution Composed of Oleylamine and Oleic Acid. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 40891-40900.	8.0	10

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145	Intrachain Delocalization Effect of Charge Carriers on the Charge-Transfer State Dynamics in Organic Solar Cells. Journal of Physical Chemistry C, 2022, 126, 3171-3179.	3.1	10
146	Strain-Induced Compositional Fluctuation and V-Defect Formation in Green-InGaN/GaN Multi-Quantum Wells Grown on Sapphire and Freestanding GaN Substrates. Japanese Journal of Applied Physics, 2007, 46, L372-L375.	1.5	9
147	Femtosecond phase control of spatial localization of the optical near-field in a metal nanoslit array. Optics Express, 2008, 16, 12075.	3.4	9
148	Spatial distribution of crown shaped light emission from a periodic inverted polygonal deflector embedded in an InGaN/GaN light emitting diode. Applied Physics Letters, 2008, 92, 061118.	3.3	9
149	Electroluminescence comparison of photonic crystal light-emitting diodes with random and periodic hole structure. Journal Physics D: Applied Physics, 2009, 42, 152004.	2.8	9
150	Ultraviolet tip-enhanced nanoscale Raman imaging. Journal of Raman Spectroscopy, 2012, 43, 1931-1934.	2.5	9
151	Hierarchically Structured ZnO/Petal Hybrid Composites with Tuned Optoelectronic and Mechanical Properties. ACS Applied Materials & Interfaces, 2014, 6, 16243-16248.	8.0	9
152	Wide channel broadband CH ₃ NH ₃ PbI ₃ /SnS hybrid photodetector: breaking the limit of bandgap energy operation. RSC Advances, 2018, 8, 23206-23212.	3.6	9
153	Defect states of organic lead halide single crystals grown by inverse-temperature crystallization. Applied Physics Letters, 2019, 115, .	3.3	9
154	Augmented All-Optical Active Terahertz Device Using Graphene-Based Metasurface. Advanced Optical Materials, 2021, 9, 2100462.	7.3	9
155	Charge Recycling Mechanism Through a Triplet Charge-Transfer State in Ternary-Blend Organic Solar Cells Containing a Nonfullerene Acceptor. ACS Energy Letters, 2021, 6, 2610-2618.	17.4	9
156	Fabrication of coupled GaAs quantum dots and their optical properties. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 802-805.	0.8	8
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158	Suppressing Ambipolar Characteristics of WSe ₂ Field Effect Transistors Using Graphene Oxide. Advanced Electronic Materials, 2019, 5, 1800608.	5.1	8
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