

Mun Seok Jeong

List of Publications by Year in descending order

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252
papers

6,200
citations

61857

43
h-index

102304

66
g-index

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.	3.1	215
2	A Review: Thermal Stability of Methylammonium Lead Halide Based Perovskite Solar Cells. Applied Sciences (Switzerland), 2019, 9, 188.	1.3	173
3	Efficient Excitonic Photoluminescence in Direct and Indirect Band Gap Monolayer MoS ₂ . Nano Letters, 2015, 15, 6841-6847.	4.5	171
4	Synthesis of Centimeter-Scale Monolayer Tungsten Disulfide Film on Gold Foils. ACS Nano, 2015, 9, 5510-5519.	7.3	166
5	Control of Photoluminescence of Carbon Nanodots via Surface Functionalization using Para-substituted Anilines. Scientific Reports, 2015, 5, 12604.	1.6	146
6	A Diameter-Selective Attack of Metallic Carbon Nanotubes by Nitronium Ions. Journal of the American Chemical Society, 2005, 127, 5196-5203.	6.6	145
7	Unusually efficient photocurrent extraction in monolayer van der Waals heterostructure by tunnelling through discretized barriers. Nature Communications, 2016, 7, 13278.	5.8	120
8	Efficient hybrid colloidal quantum dot/organic solar cells mediated by near-infrared sensitizing small molecules. Nature Energy, 2019, 4, 969-976.	19.8	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.	4.0	114
10	Synthesis of carbon-encapsulated magnetic nanoparticles by pulsed laser irradiation of solution. Carbon, 2008, 46, 1369-1377.	5.4	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.	7.8	113
12	Photochemical Reaction in Monolayer MoS ₂ via Correlated Photoluminescence, Raman Spectroscopy, and Atomic Force Microscopy. ACS Nano, 2016, 10, 5230-5236.	7.3	101
13	Laser Thinning for Monolayer Graphene Formation: Heat Sink and Interference Effect. ACS Nano, 2011, 5, 263-268.	7.3	94
14	Semiconductor-Insulator-Semiconductor Diode Consisting of Monolayer MoS ₂ , h-BN, and GaN Heterostructure. ACS Nano, 2015, 9, 10032-10038.	7.3	88
15	Carrier localization in In-rich InGaN/GaN multiple quantum wells for green light-emitting diodes. Scientific Reports, 2015, 5, 9373.	1.6	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.	3.2	86
17	Modulating the Functions of MoS ₂ /MoTe ₂ van der Waals Heterostructure via Thickness Variation. ACS Nano, 2019, 13, 4478-4485.	7.3	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.	4.0	83

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19	Negative and Positive Persistent Photoconductance in Graphene. <i>Nano Letters</i> , 2011, 11, 4682-4687.	4.5	82
20	Augmented Quantum Yield of a 2D Monolayer Photodetector by Surface Plasmon Coupling. <i>Nano Letters</i> , 2018, 18, 2316-2323.	4.5	82
21	Unveiling Defect-Related Raman Mode of Monolayer WS ₂ via Tip-Enhanced Resonance Raman Scattering. <i>ACS Nano</i> , 2018, 12, 9982-9990.	7.3	78
22	Modulation of Junction Modes in SnSe ₂ /MoTe ₂ Broken-Gap van der Waals Heterostructure for Multifunctional Devices. <i>Nano Letters</i> , 2020, 20, 2370-2377.	4.5	75
23	Metal-Insulator-Semiconductor Diode Consisting of Two-Dimensional Nanomaterials. <i>Nano Letters</i> , 2016, 16, 1858-1862.	4.5	74
24	High Color-Purity Green, Orange, and Red Light-Emitting Diodes Based on Chemically Functionalized Graphene Quantum Dots. <i>Scientific Reports</i> , 2016, 6, 24205.	1.6	72
25	Enhancement of Light Extraction Through the Wave-Guiding Effect of ZnO Sub-microrods in InGaN Blue Light-Emitting Diodes. <i>Advanced Functional Materials</i> , 2010, 20, 1076-1082.	7.8	71
26	Role of Surface States in Photocatalysis: Study of Chlorine-Passivated CdSe Nanocrystals for Photocatalytic Hydrogen Generation. <i>Chemistry of Materials</i> , 2016, 28, 962-968.	3.2	71
27	Plasmonic Transition Metal Carbide Electrodes for High-Performance InSe Photodetectors. <i>ACS Nano</i> , 2019, 13, 8804-8810.	7.3	69
28	Compliance-Free Multileveled Resistive Switching in a Transparent 2D Perovskite for Neuromorphic Computing. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12768-12772.	4.0	64
29	Luminescence and Raman studies of YNbO ₄ phosphors doped by Eu ³⁺ , Ga ³⁺ , and Al ³⁺ . <i>Journal of Applied Physics</i> , 2010, 107, .	1.1	62
30	Direct growth of GaN layer on carbon nanotube-graphene hybrid structure and its application for light emitting diodes. <i>Scientific Reports</i> , 2015, 5, 7747.	1.6	62
31	Light-extraction enhancement of a GaN-based LED covered with ZnO nanorod arrays. <i>Nanoscale</i> , 2014, 6, 4371-4378.	2.8	60
32	Enhanced Stability of MAPbI ₃ Perovskite Solar Cells using Poly(p-chloro-xylylene) Encapsulation. <i>Scientific Reports</i> , 2019, 9, 15461.	1.6	60
33	Spatially resolved photoluminescence in InGaN/GaN quantum wells by near-field scanning optical microscopy. <i>Applied Physics Letters</i> , 2001, 79, 976-978.	1.5	56
34	Directional control of surface plasmon polariton waves propagating through an asymmetric Bragg resonator. <i>Applied Physics Letters</i> , 2009, 94, 063115.	1.5	56
35	Fast P3HT Exciton Dissociation and Absorption Enhancement of Organic Solar Cells by PEG-Functionalized Graphene Quantum Dots. <i>Small</i> , 2016, 12, 994-999.	5.2	55
36	Reproducible increased Mg incorporation and large hole concentration in GaN using metal modulated epitaxy. <i>Journal of Applied Physics</i> , 2008, 104, .	1.1	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.	1.3	54
38	A Novel and Facile Route to Synthesize Atomic-Layered MoS ₂ Film for Large-Area Electronics. Small, 2017, 13, 1701306.	5.2	53
39	Silver Nanowire Transparent Conductive Electrodes for High-Efficiency III-Nitride Light-Emitting Diodes. Scientific Reports, 2015, 5, 13483.	1.6	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.	1.3	49
41	Effect of donor-acceptor molecular orientation on charge photogeneration in organic solar cells. NPC Asia Materials, 2018, 10, 469-481.	3.8	49
42	Exfoliation of Transition Metal Dichalcogenides by a High-Power Femtosecond Laser. Scientific Reports, 2018, 8, 12957.	1.6	48
43	Direct growth of etch pit-free GaN crystals on few-layer graphene. RSC Advances, 2015, 5, 1343-1349.	1.7	46
44	Terahertz near-field enhancement in narrow rectangular apertures on metal film. Optics Express, 2009, 17, 12493.	1.7	44
45	Modulating Electronic Properties of Monolayer MoS ₂ via Electron-Withdrawing Functional Groups of Graphene Oxide. ACS Nano, 2016, 10, 10446-10453.	7.3	41
46	Yellow luminescence and persistent photoconductivity of undoped n-type GaN. Journal of Applied Physics, 2001, 89, 5454-5459.	1.1	38
47	Photovoltaic effect in a few-layer ReS ₂ /WSe ₂ heterostructure. Nanoscale, 2018, 10, 20306-20312.	2.8	38
48	Spatial variation of photoluminescence and related defects in InGaN/GaN quantum wells. Applied Physics Letters, 2001, 79, 3440-3442.	1.5	37
49	Probing Bilayer Grain Boundaries in Large-Area Graphene with Tip-Enhanced Raman Spectroscopy. Advanced Materials, 2017, 29, 1603601.	11.1	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.	1.3	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.	1.4	34
52	Integrated Freestanding Two-dimensional Transition Metal Dichalcogenides. Advanced Materials, 2017, 29, 1700308.	11.1	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.	6.6	33
54	Design of organic tandem solar cells using PCPDTBT:PC61BM and P3HT:PC71BM. Journal of Applied Physics, 2010, 107, .	1.1	32

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55	Oriented ZnO nanostructures and their application in photocatalysis. <i>Journal of Luminescence</i> , 2017, 185, 17-22.	1.5	32
56	Light Soaking Phenomena in Organic-Inorganic Mixed Halide Perovskite Single Crystals. <i>ACS Photonics</i> , 2017, 4, 2813-2820.	3.2	31
57	Synthesis of MoWS ₂ on Flexible Carbon-Based Electrodes for High-Performance Hydrogen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 37550-37558.	4.0	31
58	GaAs quantum dots with a high density on a GaAs (111)A substrate. <i>Applied Physics Letters</i> , 2006, 88, 241911.	1.5	30
59	Optical absorption and anomalous photoconductivity in undoped n-type GaN. <i>Applied Physics Letters</i> , 2000, 76, 1021-1023.	1.5	29
60	The rapid growth of vertically aligned carbon nanotubes using laser heating. <i>Nanotechnology</i> , 2009, 20, 185604.	1.3	29
61	Spatially resolved photoluminescence and Raman mapping of epitaxial GaN laterally overgrown on sapphire. <i>Physical Review B</i> , 2010, 81, .	1.1	29
62	PURITY MEASUREMENT OF SINGLE-WALLED CARBON NANOTUBES BY UV-VIS-NIR ABSORPTION SPECTROSCOPY AND THERMOGRAVIMETRIC ANALYSIS. <i>Nano</i> , 2008, 03, 101-108.	0.5	28
63	Morphology-Dependent Hole Transfer under Negligible HOMO Difference in Non-Fullerene Acceptor-Based Ternary Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 7208-7215.	4.0	28
64	Suppressing spontaneous polarization of p-GaN by graphene oxide passivation: Augmented light output of GaN UV-LED. <i>Scientific Reports</i> , 2015, 5, 7778.	1.6	27
65	Switchable Two-Terminal Transparent Optoelectronic Devices Based on 2D Perovskite. <i>Advanced Electronic Materials</i> , 2019, 5, 1800662.	2.6	27
66	Transferable, flexible white light-emitting diodes of GaN p-n junction microcrystals fabricated by remote epitaxy. <i>Nano Energy</i> , 2021, 86, 106075.	8.2	27
67	Parameter control for enhanced peak-to-valley current ratio in a MoS ₂ /MoTe ₂ van der Waals heterostructure. <i>Nanoscale</i> , 2018, 10, 12322-12329.	2.8	25
68	Adaptive tip-enhanced nano-spectroscopy. <i>Nature Communications</i> , 2021, 12, 3465.	5.8	25
69	Efficient electrochemical etching method to fabricate sharp metallic tips for scanning probe microscopes. <i>Review of Scientific Instruments</i> , 2006, 77, 103706.	0.6	24
70	All-optical switching with a biexcitonic double lambda system. <i>Optics Communications</i> , 2011, 284, 1045-1052.	1.0	24
71	Reduced haze of transparent conductive films by smaller diameter silver nanowires. <i>Nanotechnology</i> , 2016, 27, 465706.	1.3	24
72	Methylammonium Compensation Effects in MAPbI ₃ Perovskite Solar Cells for High-Quality Inorganic CuSCN Hole Transport Layers. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 5203-5210.	4.0	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. <i>Optics Express</i> , 2013, 21, 7125.	1.7	23
74	Tip-Enhanced Raman Scattering Imaging of Two-Dimensional Tungsten Disulfide with Optimized Tip Fabrication Process. <i>Scientific Reports</i> , 2017, 7, 40810.	1.6	23
75	Influence of air degradation on morphology, crystal size and mechanical hardness of perovskite film. <i>Materials Letters</i> , 2018, 229, 167-170.	1.3	23
76	Photocurrent of CdSe nanocrystals on single-walled carbon nanotube-field effect transistor. <i>Applied Physics Letters</i> , 2008, 92, .	1.5	22
77	Enhanced response and sensitivity of self-corrugated graphene sensors with anisotropic charge distribution. <i>Scientific Reports</i> , 2015, 5, 11216.	1.6	22
78	Correlational study of halogen tuning effect in hybrid perovskite single crystals with Raman scattering, X-ray diffraction, and absorption spectroscopy. <i>Journal of Alloys and Compounds</i> , 2018, 738, 239-245.	2.8	22
79	Highly Efficient UV-Visible Photocatalyst from Monolithic 3D Titania/Graphene Quantum Dot Heterostructure Linked by Aminosilane. <i>Advanced Sustainable Systems</i> , 2019, 3, 1900084.	2.7	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. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 7942-7948.	2.1	22
81	Inducing and Probing Localized Excitons in Atomically Thin Semiconductors via Tip-Enhanced Cavity Spectroscopy. <i>Advanced Functional Materials</i> , 2021, 31, 2102893.	7.8	22
82	Patterning of type-II Dirac semimetal PtTe ₂ for optimized interface of tellurene optoelectronic device. <i>Nano Energy</i> , 2021, 86, 106049.	8.2	22
83	Experimental verification of surface plasmon amplification on a metallic transmission grating. <i>Physical Review B</i> , 2008, 77, .	1.1	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	8.4	21
85	Quantum Dot-Carbon Nanotube Hybrid Phototransistor with an Enhanced Optical Stark Effect. <i>Advanced Functional Materials</i> , 2013, 23, 3653-3660.	7.8	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. <i>Solar Energy Materials and Solar Cells</i> , 2016, 155, 134-140.	3.0	21
87	Impact of perovskite precursor solution temperature on charge carrier dynamics and photovoltaic performance of perovskite based solar cells. <i>Organic Electronics</i> , 2017, 42, 228-233.	1.4	21
88	Large-Area Fabrication of Periodic Sub-15 nm-Width Single-Layer Graphene Nanorings. <i>Advanced Materials</i> , 2013, 25, 199-204.	11.1	20
89	Effects of TiO ₂ Interfacial Atomic Layers on Device Performances and Exciton Dynamics in ZnO Nanorod Polymer Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11649-11656.	4.0	20
90	Resolution enhancing using cantilevered tip-on-aperture silicon probe in scanning near-field optical microscopy. <i>Ultramicroscopy</i> , 2008, 108, 1070-1075.	0.8	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.	0.8	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.	1.6	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.	7.3	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.	5.2	19
95	Gate-controlled MoTe ₂ homojunction for sub-thermionic subthreshold swing tunnel field-effect transistor. <i>Nano Today</i> , 2021, 40, 101263.	6.2	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.	4.6	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.	1.0	18
98	Synthesis and Characterization of Multiple-Cation Rb(MAFA)PbI ₃ Perovskite Single Crystals. <i>Scientific Reports</i> , 2019, 9, 2022.	1.6	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.	0.8	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.	2.8	17
101	Selective patterning of out-of-plane piezoelectricity in MoTe ₂ via focused ion beam. <i>Nano Energy</i> , 2021, 79, 105451.	8.2	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.	1.3	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.	2.9	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.	7.3	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.	3.1	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.	1.7	15
107	Controlled synthesis of ZnO spheres using structure directing agents. <i>Thin Solid Films</i> , 2013, 534, 76-82.	0.8	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.	5.2	15

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109	Ultraviolet, blue, and green InGaN-based light-emitting diodes functionalized with ZnO nanorods. <i>Journal of Alloys and Compounds</i> , 2017, 708, 612-618.	2.8	15
110	Encapsulation of a Monolayer WSe ₂ Phototransistor with Hydrothermally Grown ZnO Nanorods. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20257-20264.	4.0	15
111	Simultaneously intensified plasmonic and charge transfer effects in surface enhanced Raman scattering sensors using an MXene-blanketed Au nanoparticle assembly. <i>Journal of Materials Chemistry A</i> , 2022, 10, 2945-2956.	5.2	15
112	Effect of embedded silica nanospheres on improving the performance of InGaN/GaN light-emitting diodes. <i>Optics Express</i> , 2011, 19, 2029.	1.7	14
113	Effect of III-nitride polarization on V_{OC} in μ c-Si and MQW solar cells. <i>Physica Status Solidi - Rapid Research Letters</i> , 2011, 5, 86-88.	1.2	14
114	Novel Method of Evaluating the Purity of Multiwall Carbon Nanotubes Using Raman Spectroscopy. <i>Journal of Nanomaterials</i> , 2013, 2013, 1-6.	1.5	14
115	A non-volatile ϵ -programmable transparent multilevel ultra-violet perovskite photodetector. <i>Nanoscale</i> , 2018, 10, 11392-11396.	2.8	14
116	Contact Engineering of Layered MoS ₂ via Chemically Dipping Treatments. <i>Advanced Functional Materials</i> , 2020, 30, 2000250.	7.8	14
117	Effect of V-shaped defects on structural and optical properties of AlGaIn/InGaN multiple quantum wells. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 132006.	1.3	13
118	A crossbar-type high sensitivity ultraviolet photodetector array based on a one hole-one nanorod configuration via nanoimprint lithography. <i>Nanotechnology</i> , 2011, 22, 275310.	1.3	13
119	Enhancement of light output power in GaN-based light-emitting diodes using hydrothermally grown ZnO micro-walls. <i>Optics Express</i> , 2012, 20, 10597.	1.7	13
120	Structural and electrical characterization of InN, InGaN, and p-InGaN grown by metal-modulated epitaxy. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, .	0.6	13
121	Growth of Wafer-Scale ReS ₂ with ϵ -Tunable Geometry toward Electron Field-Emission Application. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35845-35852.	4.0	13
122	Intact Crystalline Semiconducting Graphene Nanoribbons from Unzipping Nitrogen-Doped Carbon Nanotubes. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 38006-38015.	4.0	13
123	Hole trap, charge transfer and photoelectrochemical water oxidation in thickness-controlled TiO ₂ anatase thin films. <i>Applied Surface Science</i> , 2020, 529, 147020.	3.1	13
124	Role of the A-Site Cation in Low-Temperature Optical Behaviors of APbBr ₃ (A = Cs, Tl, Rb, K). <i>Journal of Applied Physics</i> , 2010, 107, 104301.	6.6	13
125	Tip-Induced Strain Engineering of a Single Metal Halide Perovskite Quantum Dot. <i>ACS Nano</i> , 2021, 15, 9057-9064.	7.3	13
126	Light outcoupling effect in GaN light-emitting diodes via convex microstructures monolithically fabricated on sapphire substrate. <i>Optics Express</i> , 2011, 19, 9385.	1.7	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.	2.2	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.	0.3	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.	1.5	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.	2.1	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.	2.1	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.	1.1	11
133	Current flow through different phases of dodecanethiol self-assembled monolayer. <i>Surface Science</i> , 2005, 583, 88-93.	0.8	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.	3.1	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.	1.7	11
136	Chemically doped three-dimensional porous graphene monoliths for high-performance flexible field emitters. <i>Nanoscale</i> , 2015, 7, 5495-5502.	2.8	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.	1.7	11
138	Facile preparation of molybdenum disulfide quantum dots using a femtosecond laser. <i>Applied Surface Science</i> , 2020, 511, 145507.	3.1	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.	3.4	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.	5.2	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.	5.4	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.	2.1	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.	2.9	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.	4.0	10

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145	Intrachain Delocalization Effect of Charge Carriers on the Charge-Transfer State Dynamics in Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2022, 126, 3171-3179.	1.5	10
146	Strain-Induced Compositional Fluctuation and V-Defect Formation in Green-InGaN/GaN Multi-Quantum Wells Grown on Sapphire and Freestanding GaN Substrates. <i>Japanese Journal of Applied Physics</i> , 2007, 46, L372-L375.	0.8	9
147	Femtosecond phase control of spatial localization of the optical near-field in a metal nanoslit array. <i>Optics Express</i> , 2008, 16, 12075.	1.7	9
148	Spatial distribution of crown shaped light emission from a periodic inverted polygonal deflector embedded in an InGaN/GaN light emitting diode. <i>Applied Physics Letters</i> , 2008, 92, 061118.	1.5	9
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