

Jong Min Kim

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168
papers

22,775
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48
h-index

150
g-index

180
ext. papers

24,948
ext. citations

10
avg, IF

6.35
L-index

#	Paper	IF	Citations
168	Large-scale pattern growth of graphene films for stretchable transparent electrodes. <i>Nature</i> , 2009 , 457, 706-10	50.4	8675
167	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. <i>Nanoscale</i> , 2015 , 7, 4598-810	7.7	2015
166	Efficient Reduction of Graphite Oxide by Sodium Borohydride and Its Effect on Electrical Conductance. <i>Advanced Functional Materials</i> , 2009 , 19, 1987-1992	15.6	1831
165	Full-colour quantum dot displays fabricated by transfer printing. <i>Nature Photonics</i> , 2011 , 5, 176-182	33.9	816
164	Fiber supercapacitors made of nanowire-fiber hybrid structures for wearable/flexible energy storage. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 1683-7	16.4	742
163	Self-sorted, aligned nanotube networks for thin-film transistors. <i>Science</i> , 2008 , 321, 101-4	33.3	535
162	A hybrid piezoelectric structure for wearable nanogenerators. <i>Advanced Materials</i> , 2012 , 24, 1759-64	24	478
161	High-performance crosslinked colloidal quantum-dot light-emitting diodes. <i>Nature Photonics</i> , 2009 , 3, 341-345	33.9	441
160	Mechanically Powered Transparent Flexible Charge-Generating Nanodevices with Piezoelectric ZnO Nanorods. <i>Advanced Materials</i> , 2009 , 21, 2185-2189	24	346
159	Porous PVDF as effective sonic wave driven nanogenerators. <i>Nano Letters</i> , 2011 , 11, 5142-7	11.5	300
158	Selective dispersion of high purity semiconducting single-walled carbon nanotubes with regioregular poly(3-alkylthiophene)s. <i>Nature Communications</i> , 2011 , 2, 541	17.4	291
157	Fully rollable transparent nanogenerators based on graphene electrodes. <i>Advanced Materials</i> , 2010 , 22, 2187-92	24	258
156	Sound-driven piezoelectric nanowire-based nanogenerators. <i>Advanced Materials</i> , 2010 , 22, 4726-30	24	253
155	Single-fiber-based hybridization of energy converters and storage units using graphene as electrodes. <i>Advanced Materials</i> , 2011 , 23, 3446-9	24	235
154	Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics. <i>Nature Communications</i> , 2017 , 8, 1202	17.4	230
153	Control of electronic structure of graphene by various dopants and their effects on a nanogenerator. <i>Journal of the American Chemical Society</i> , 2010 , 132, 15603-9	16.4	223
152	Controlling the diameter, growth rate, and density of vertically aligned carbon nanotubes synthesized by microwave plasma-enhanced chemical vapor deposition. <i>Applied Physics Letters</i> , 2000 , 76, 2367-2369	3.4	223

151	Solution-processed, high-performance n-channel organic microwire transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 6065-70	11.5	209
150	Synthesis of aligned carbon nanotubes using thermal chemical vapor deposition. <i>Chemical Physics Letters</i> , 1999 , 312, 461-468	2.5	199
149	One-step exfoliation synthesis of easily soluble graphite and transparent conducting graphene sheets. <i>Advanced Materials</i> , 2009 , 21, 4383-7	24	198
148	Large thermoelectric figure-of-merits from SiGe nanowires by simultaneously measuring electrical and thermal transport properties. <i>Nano Letters</i> , 2012 , 12, 2918-23	11.5	158
147	Nearly single-crystalline GaN light-emitting diodes on amorphous glass substrates. <i>Nature Photonics</i> , 2011 , 5, 763-769	33.9	135
146	Direct growth of semiconducting single-walled carbon nanotube array. <i>Journal of the American Chemical Society</i> , 2009 , 131, 14642-3	16.4	134
145	Monolayer optical memory cells based on artificial trap-mediated charge storage and release. <i>Nature Communications</i> , 2017 , 8, 14734	17.4	133
144	High photoresponsivity in an all-graphene p-n vertical junction photodetector. <i>Nature Communications</i> , 2014 , 5, 3249	17.4	124
143	Synthesis of uniformly distributed carbon nanotubes on a large area of Si substrates by thermal chemical vapor deposition. <i>Applied Physics Letters</i> , 1999 , 75, 1721-1723	3.4	108
142	High-performance graphene-quantum-dot photodetectors. <i>Scientific Reports</i> , 2014 , 4, 5603	4.9	107
141	Cap formation engineering: from opened C60 to single-walled carbon nanotubes. <i>Nano Letters</i> , 2010 , 10, 3343-9	11.5	106
140	Engineering of efficiency limiting free carriers and an interfacial energy barrier for an enhancing piezoelectric generation. <i>Energy and Environmental Science</i> , 2013 , 6, 97-104	35.4	104
139	Recent Advances in Vanadium-Based Aqueous Rechargeable Zinc-Ion Batteries. <i>Advanced Energy Materials</i> , 2020 , 10, 2000477	21.8	103
138	Strain-Mediated Interlayer Coupling Effects on the Excitonic Behaviors in an Epitaxially Grown MoS/WS van der Waals Heterobilayer. <i>Nano Letters</i> , 2017 , 17, 5634-5640	11.5	100
137	Fabrication and characterization of gated field emitter arrays with self-aligned carbon nanotubes grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2002 , 81, 2070-2072	3.4	90
136	Heterogeneous stacking of nanodot monolayers by dry pick-and-place transfer and its applications in quantum dot light-emitting diodes. <i>Nature Communications</i> , 2013 , 4, 2637	17.4	77
135	Design and evaluation of novel Zn doped mesoporous TiO ₂ based anode material for advanced lithium ion batteries. <i>Journal of Materials Chemistry</i> , 2012 , 22, 17625		77
134	Highly Monodispersed PbS Quantum Dots for Outstanding Cascaded-Junction Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 834-839	20.1	77

133	Thermodynamically Stable Synthesis of Large-Scale and Highly Crystalline Transition Metal Dichalcogenide Monolayers and their Unipolar n-n Heterojunction Devices. <i>Advanced Materials</i> , 2017 , 29, 1702206	24	76
132	Recent Progress in Porous Graphene and Reduced Graphene Oxide-Based Nanomaterials for Electrochemical Energy Storage Devices. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701212	4.6	68
131	Hierarchically assembled tubular shell-core-shell heterostructure of hybrid transition metal chalcogenides for high-performance supercapacitors with ultrahigh cyclability. <i>Nano Energy</i> , 2017 , 37, 15-23	17.1	60
130	Growth of carbon nanotubes by microwave plasma-enhanced chemical vapor deposition at low temperature. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2000 , 18, 1864-1868	2.9	60
129	High Performance PbS Quantum Dot/Graphene Hybrid Solar Cell with Efficient Charge Extraction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 13902-8	9.5	58
128	Graphene p-n vertical tunneling diodes. <i>ACS Nano</i> , 2013 , 7, 5168-74	16.7	57
127	Highly stable 3D porous heterostructures with hierarchically-coordinated octahedral transition metals for enhanced performance supercapacitors. <i>Nano Energy</i> , 2017 , 39, 337-345	17.1	54
126	In Situ Synthesis and Characterization of Ge Embedded Electrospun Carbon Nanostructures as High Performance Anode Material for Lithium-Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 7022-9	9.5	53
125	Fiber Supercapacitors Made of Nanowire-Fiber Hybrid Structures for Wearable/Flexible Energy Storage. <i>Angewandte Chemie</i> , 2011 , 123, 1721-1725	3.6	53
124	Nanoscale Networked Single-Walled Carbon-Nanotube Electrodes for Transparent Flexible Nanogenerators. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 1379-1384	3.8	51
123	Lyotropic liquid-crystalline solutions of high-concentration dispersions of single-walled carbon nanotubes with conjugated polymers. <i>Small</i> , 2009 , 5, 1019-24	11	50
122	Rapid-thermal-annealing surface treatment for restoring the intrinsic properties of graphene field-effect transistors. <i>Nanotechnology</i> , 2013 , 24, 405301	3.4	49
121	Phosphorus Regulated Cobalt Oxide@Nitrogen-Doped Carbon Nanowires for Flexible Quasi-Solid-State Supercapacitors. <i>Small</i> , 2020 , 16, e1906458	11	49
120	Graphene/Si-quantum-dot heterojunction diodes showing high photosensitivity compatible with quantum confinement effect. <i>Advanced Materials</i> , 2015 , 27, 2614-20	24	48
119	In situ diagnosis of chemical species for the growth of carbon nanotubes in microwave plasma-enhanced chemical vapor deposition. <i>Diamond and Related Materials</i> , 2002 , 11, 59-66	3.5	48
118	Graphene transparent conductive electrodes doped with graphene quantum dots-mixed silver nanowires for highly-flexible organic solar cells. <i>Journal of Alloys and Compounds</i> , 2018 , 744, 1-6	5.7	46
117	Enhanced energy harvesting based on surface morphology engineering of P(VDF-TrFE) film. <i>Nano Energy</i> , 2015 , 16, 524-532	17.1	45
116	Resilient High Catalytic Performance of Platinum Nanocatalysts with Porous Graphene Envelope. <i>ACS Nano</i> , 2015 , 9, 5947-57	16.7	44

115	Low temperature synthesis of carbon nanotubes by microwave plasma-enhanced chemical vapor deposition. <i>Synthetic Metals</i> , 2000 , 108, 159-163	3.6	44
114	A pseudo-capacitive chalcogenide-based electrode with dense 1-dimensional nanoarrays for enhanced energy density in asymmetric supercapacitors. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10084-10094	13.1	44
113	Control of naturally coupled piezoelectric and photovoltaic properties for multi-type energy scavengers. <i>Energy and Environmental Science</i> , 2011 , 4, 4607	35.4	43
112	Si-quantum-dot heterojunction solar cells with 16.2% efficiency achieved by employing doped-graphene transparent conductive electrodes. <i>Nano Energy</i> , 2018 , 43, 124-129	17.1	38
111	Piezoelectric touch-sensitive flexible hybrid energy harvesting nanoarchitectures. <i>Nanotechnology</i> , 2010 , 21, 405503	3.4	35
110	Annealing effects on the characteristics of AuCl ₃ -doped graphene. <i>Journal of Applied Physics</i> , 2013 , 113, 064305	2.5	34
109	Consecutive Junction-Induced Efficient Charge Separation Mechanisms for High-Performance MoS ₂ /Quantum Dot Phototransistors. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38264-38271	9.5	33
108	Graphene/carbon nanotube hybrid-based transparent 2D optical array. <i>Advanced Materials</i> , 2011 , 23, 3809-14	24	32
107	Solubility-Dependent NiMoO Nanoarchitectures: Direct Correlation between Rationally Designed Structure and Electrochemical Pseudokinetics. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 35227-35234	9.5	32
106	Surface energy-mediated construction of anisotropic semiconductor wires with selective crystallographic polarity. <i>Scientific Reports</i> , 2014 , 4, 5680	4.9	31
105	Thermal conversion of electronic and electrical properties of AuCl ₃ -doped single-walled carbon nanotubes. <i>ACS Nano</i> , 2011 , 5, 1353-9	16.7	31
104	Carbon nanotube field emitter arrays having an electron beam focusing structure. <i>Applied Physics Letters</i> , 2004 , 84, 1022-1024	3.4	31
103	Balancing Charge Carrier Transport in a Quantum Dot P-N Junction toward Hysteresis-Free High-Performance Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 1036-1043	20.1	29
102	Energy transfer from an individual silica nanoparticle to graphene quantum dots and resulting enhancement of photodetector responsivity. <i>Scientific Reports</i> , 2016 , 6, 27145	4.9	29
101	Double-gated field emitter array with carbon nanotubes grown by chemical vapor deposition. <i>Applied Physics Letters</i> , 2006 , 88, 263504	3.4	29
100	Direct Epitaxial Synthesis of Selective Two-Dimensional Lateral Heterostructures. <i>ACS Nano</i> , 2019 , 13, 13047-13055	16.7	28
99	Hygroscopic Effects on AuCl ₃ -Doped Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 11618-11627	3.8	27
98	Surface functionalization-induced photoresponse characteristics of monolayer MoS ₂ for fast flexible photodetectors. <i>Nanoscale</i> , 2019 , 11, 4726-4734	7.7	26

97	Vertical alignment of carbon nanotubes using the magneto-evaporation method. <i>Journal of the American Chemical Society</i> , 2009 , 131, 742-8	16.4	26
96	Enhanced Ferroelectric Property of P(VDF-TrFE-CTFE) Film Using Room-Temperature Crystallization for High-Performance Ferroelectric Device Applications. <i>Advanced Electronic Materials</i> , 2016 , 2, 1600225	6.4	25
95	Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect. <i>Advanced Energy Materials</i> , 2018 , 8, 1700809	21.8	24
94	A low temperature process for phosphorous doped ZnO nanorods via a combination of hydrothermal and spin-on dopant methods. <i>Nanoscale</i> , 2014 , 6, 2046-51	7.7	24
93	Graphene synthesis by C implantation into Cu foils. <i>Carbon</i> , 2014 , 66, 267-271	10.4	24
92	Grow Single-Walled Carbon Nanotubes Cross-Bar in One Batch. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 5341-5344	3.8	24
91	Size-dependent radiative decay processes in graphene quantum dots. <i>Applied Physics Letters</i> , 2012 , 101, 163103	3.4	24
90	Growth characteristics of carbon nanotubes using platinum catalyst by plasma enhanced chemical vapor deposition. <i>Diamond and Related Materials</i> , 2003 , 12, 878-883	3.5	24
89	Design of a polymer-carbon nanohybrid junction by interface modeling for efficient printed transistors. <i>ACS Nano</i> , 2012 , 6, 662-70	16.7	23
88	Optical Arrays: Graphene/Carbon Nanotube Hybrid-Based Transparent 2D Optical Array (Adv. Mater. 33/2011). <i>Advanced Materials</i> , 2011 , 23, 3808-3808	24	23
87	Thin film transistors using preferentially grown semiconducting single-walled carbon nanotube networks by water-assisted plasma-enhanced chemical vapor deposition. <i>Nanotechnology</i> , 2009 , 20, 295201	3.4	23
86	Sustainable hybrid energy harvester based on air stable quantum dot solar cells and triboelectric nanogenerator. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 12440-12446	13	23
85	Enhancement of efficiency in graphene/porous silicon solar cells by co-doping graphene with gold nanoparticles and bis(trifluoromethanesulfonyl)-amide. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9005-9011	7.1	22
84	Inorganic-ligand exchanging time effect in PbS quantum dot solar cell. <i>Applied Physics Letters</i> , 2016 , 109, 063901	3.4	22
83	Enhanced charge carrier transport properties in colloidal quantum dot solar cells organic and inorganic hybrid surface passivation. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18769-18775	13	22
82	Ag-nanowires-doped graphene/Si Schottky-junction solar cells encapsulated with another graphene layer. <i>Current Applied Physics</i> , 2017 , 17, 1136-1141	2.6	21
81	Use of AuCl ₃ -doped graphene as a protecting layer for enhancing the stabilities of inverted perovskite solar cells. <i>Applied Surface Science</i> , 2018 , 455, 1131-1136	6.7	21
80	Multiphoton Absorption Stimulated Metal Chalcogenide Quantum Dot Solar Cells under Ambient and Concentrated Irradiance. <i>Advanced Functional Materials</i> , 2020 , 30, 2004563	15.6	21

79	Synergistic Effects of a Multifunctional Graphene Based Interlayer on Electrochemical Behavior and Structural Stability. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17651-8	9.5	20
78	Effect of Al and catalyst thicknesses on the growth of carbon nanotubes and application to gated field emitter arrays. <i>Chemical Physics Letters</i> , 2004 , 400, 139-144	2.5	19
77	Effect of layer number and metal-chloride dopant on multiple layers of graphene/porous Si solar cells. <i>Journal of Applied Physics</i> , 2018 , 123, 123101	2.5	18
76	Swelling behavior of thermosensitive N-isopropylacrylamide-ethyl N-acryloylglycine submicron-sized copolymer gel particles. <i>Journal of Applied Polymer Science</i> , 1998 , 69, 799-806	2.9	18
75	Electrically focus-tuneable ultrathin lens for high-resolution square subpixels. <i>Light: Science and Applications</i> , 2020 , 9, 98	16.7	17
74	Enhancement of efficiency and long-term stability in graphene/Si-quantum-dot heterojunction photodetectors by employing bis(trifluoromethanesulfonyl)-amide as a dopant for graphene. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 12737-12743	7.1	17
73	Red green blue emissive lead sulfide quantum dots: heterogeneous synthesis and applications. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3692-3698	7.1	16
72	Effects of rapid thermal annealing on the optical properties of 1.3 nm InGaAlAs multiquantum wells grown by digital-alloy molecular-beam epitaxy. <i>Applied Physics Letters</i> , 2002 , 80, 4650-4652	3.4	16
71	Precise and selective sensing of DNA-DNA hybridization by graphene/Si-nanowires diode-type biosensors. <i>Scientific Reports</i> , 2016 , 6, 31984	4.9	15
70	Inkjet Printed Circuits with 2D Semiconductor Inks for High-Performance Electronics. <i>Advanced Electronic Materials</i> , 2021 , 7, 2100112	6.4	15
69	Chalcogenide solution-mediated activation protocol for scalable and ultrafast synthesis of single-crystalline 1-D copper sulfide for supercapacitors. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2529-2535	13.35	14
68	Chemically encoded self-organized quantum chain supracrystals with exceptional charge and ion transport properties. <i>Nano Energy</i> , 2019 , 62, 764-771	17.1	14
67	Light-induced negative differential resistance in graphene/Si-quantum-dot tunneling diodes. <i>Scientific Reports</i> , 2016 , 6, 30669	4.9	14
66	Intrinsic high-frequency characteristics of graphene layers. <i>New Journal of Physics</i> , 2010 , 12, 113031	2.9	14
65	Molecular Beam Epitaxial Growth of High-Quality InP/InGaAs/InP Heterostructure with Polycrystalline GaAs and GaP Decomposition Sources. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, L347-L350	14.14	14
64	Selective formation of GaN-based nanorod heterostructures on soda-lime glass substrates by a local heating method. <i>Nanotechnology</i> , 2011 , 22, 205602	3.4	13
63	Optimization of electron beam focusing for gated carbon nanotube field emitter arrays. <i>IEEE Transactions on Electron Devices</i> , 2005 , 52, 2584-2590	2.9	13
62	Sn/SnO _x -loaded uniform-sized hollow carbon spheres on graphene nanosheets as an anode for lithium-ion batteries. <i>Journal of Alloys and Compounds</i> , 2018 , 736, 42-50	5.7	13

61	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. <i>Nature Electronics</i> , 2021 , 4, 893-905	28.4	13
60	Synergistic incorporation of hybrid heterobimetallic nitrogen atoms into carbon structures for superior oxygen electroreduction performance. <i>Catalysis Science and Technology</i> , 2016 , 6, 2085-2091	5.5	12
59	ZnO nanostructures with controlled morphologies on a glass substrate. <i>Nanotechnology</i> , 2010 , 21, 2656034	3.4	12
58	Quantum Dots Based Photocatalytic Hydrogen Evolution. <i>Israel Journal of Chemistry</i> , 2019 , 59, 762-773	3.4	11
57	Controlling Performance of Organic-Inorganic Hybrid Perovskite Triboelectric Nanogenerators via Chemical Composition Modulation and Electric Field-Induced Ion Migration. <i>Advanced Energy Materials</i> , 2020 , 10, 2002470	21.8	11
56	Waterproof Flexible InP@ZnSeS Quantum Dot Light-Emitting Diode. <i>Advanced Optical Materials</i> , 2020 , 8, 1901362	8.1	11
55	High-Performance n-i-p-Type Perovskite Photodetectors Employing Graphene-Transparent Conductive Electrodes N-Type Doped with Amine Group Molecules. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 734-739	8.3	11
54	Nano-to-Microporous Networks via Inkjet Printing of ZnO Nanoparticles/Graphene Hybrid for Ultraviolet Photodetectors. <i>ACS Applied Nano Materials</i> , 2020 , 3, 4454-4464	5.6	10
53	Synergistic effects of engineered spinel hetero-metallic cobaltites on electrochemical pseudo-capacitive behaviors. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 15033-15039	13	10
52	Tunable threshold voltage of an n-type Si nanowire ferroelectric-gate field effect transistor for high-performance nonvolatile memory applications. <i>Nanotechnology</i> , 2014 , 25, 205201	3.4	10
51	Programmable ZnO nanowire transistors using switchable polarization of ferroelectric liquid crystal. <i>Applied Physics Letters</i> , 2013 , 102, 053504	3.4	10
50	Synthesis of hybrid multiwall carbon nanotubes and their enhanced field emission properties. <i>Chemical Physics Letters</i> , 2004 , 396, 6-9	2.5	10
49	Highly-flexible perovskite photodiodes employing doped multilayer-graphene transparent conductive electrodes. <i>Nanotechnology</i> , 2018 , 29, 425203	3.4	9
48	Emerging Applications of Liquid Crystals Based on Nanotechnology. <i>Materials</i> , 2014 , 7, 2044-2061	3.5	9
47	A high-density array of size-controlled silicon nanodots in a silicon oxide nanowire by electron-stimulated oxygen expulsion. <i>Nano Letters</i> , 2009 , 9, 1780-6	11.5	9
46	Field emission and growth characteristics of carbon nanotubes with optical emission spectroscopy analysis in C ₃ H ₄ and CO deposition systems. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003 , 21, 1720		9
45	Modeling Electrical Percolation to optimize the Electromechanical Properties of CNT/Polymer Composites in Highly Stretchable Fiber Strain Sensors. <i>Scientific Reports</i> , 2019 , 9, 20376	4.9	9
44	Fibre electronics: towards scaled-up manufacturing of integrated e-textile systems. <i>Nanoscale</i> , 2021 , 13, 12818-12847	7.7	9

43	Carbon out-diffusion mechanism for direct graphene growth on a silicon surface. <i>Acta Materialia</i> , 2015 , 96, 18-23	8.4	8
42	Observation of orientation-dependent photovoltaic behaviors in aligned organic nanowires. <i>Applied Physics Letters</i> , 2013 , 103, 053304	3.4	8
41	Perspectives on Nanotechnology for RF and Terahertz Electronics. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2011 , 59, 2709-2718	4.1	8
40	Field-emission characteristics of carbon nanotube paste layers. <i>Journal of Applied Physics</i> , 2005 , 98, 084313	3.3	8
39	Smart textile lighting/display system with multifunctional fibre devices for large scale smart home and IoT applications.. <i>Nature Communications</i> , 2022 , 13, 814	17.4	8
38	Toward Controlled Electrical Stimulation for Wound Healing Based on a Precision Layered Skin Model.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 8901-8910	4.1	8
37	Interplay between temperature effects and surface recombination process in UV photoresponse of ZnO nanowires. <i>Applied Surface Science</i> , 2015 , 324, 512-516	6.7	7
36	Field effect transistors and phototransistors based upon p-type solution-processed PbS nanowires. <i>Nanotechnology</i> , 2018 , 29, 075202	3.4	7
35	Selective Formation of Carbon Nanotubes and Its Application to Field-Emitter Arrays. <i>IEEE Electron Device Letters</i> , 2009 , 30, 709-711	4.4	7
34	Fabrication of surface plasmon-coupled si nanodots in au-embedded silicon oxide nanowires. <i>Advanced Materials</i> , 2010 , 22, 2421-5	2.4	7
33	Flexible Solar Cells: Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect (Adv. Energy Mater. 3/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870012	21.8	6
32	Ultrafast and low temperature laser annealing for crystalline TiO ₂ nanostructures patterned by electro-hydrodynamic lithography. <i>Applied Physics Letters</i> , 2013 , 103, 053114	3.4	6
31	High Performance Electrocatalysts Based on Pt Nanoarchitecture for Fuel Cell Applications. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-20	3.2	6
30	Metal-Insulator Phase Transition in Quasi-One-Dimensional VO ₂ Structures. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-15	3.2	6
29	Nearly Perfect Polycrystalline, Large-Grained Silicon Arrays Formed at Low-Temperature Ambient by Local Pyrolysis. <i>Crystal Growth and Design</i> , 2012 , 12, 2472-2477	3.5	6
28	Charge conversion effects of carbon nanotube network transistors by temperature for Al ₂ O ₃ gate dielectric formation. <i>Applied Physics Letters</i> , 2010 , 97, 032117	3.4	6
27	Preparation of uniformly dispersed iron-acetate nanoparticles using freeze-drying method for the growth of carbon nanotubes. <i>Diamond and Related Materials</i> , 2005 , 14, 810-814	3.5	6
26	Annealing of InGaAlAs digital alloy studied with scanning-tunneling microscopy and filled-states topography. <i>Applied Physics Letters</i> , 2003 , 82, 1191-1193	3.4	6

25	Low-Temperature Fabrication of Zinc Oxide Micropatterns Using Selective Electroless Deposition. <i>Electrochemical and Solid-State Letters</i> , 2005 , 8, H75		6
24	Growth of quantum dot coated core-shell anisotropic nanowires for improved thermal and electronic transport. <i>Applied Physics Letters</i> , 2019 , 114, 243104	3.4	5
23	Selective Electroless Deposition Using Photoinduced Oxidation of Sn(II) Compounds on Surface-Modified Polyimide Layers. <i>Electrochemical and Solid-State Letters</i> , 2006 , 9, H118		5
22	Synthesis of Highly Crystalline Multiwalled Carbon Nanotubes by Thermal Chemical Vapor Deposition Using Buffer Gases. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 3631-3635	1.4	5
21	Hybrid Passivation for Foldable Indium Gallium Zinc Oxide Thin-Film Transistors Mediated by Low-Temperature and Low-Damage Parylene-C/Atomic Layer Deposition-AlO _x Coating. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900832	1.6	5
20	Modelling charge transport and electro-optical characteristics of quantum dot light-emitting diodes. <i>Npj Computational Materials</i> , 2021 , 7,	10.9	5
19	Technology progress on quantum dot light-emitting diodes for next-generation displays. <i>Nanoscale Horizons</i> , 2021 , 6, 68-77	10.8	5
18	Si heterojunction solar cells employing graphene transparent conductive electrodes co-doped with gold chlorides and silver nanowires. <i>Journal of Alloys and Compounds</i> , 2017 , 726, 1047-1052	5.7	4
17	Formation of 10-nm-level patterned organic thin film using microthermal evaporation. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011 , 29, 021016	1.3	4
16	In-situ monitoring of AuCl ₃ -doping and -dedoping behaviors in graphene. <i>Journal of the Korean Physical Society</i> , 2014 , 64, 1327-1330	0.6	3
15	Uniform growth of high-quality 2-in diameter In _{0.53} Ga _{0.47} As/In _{0.52} Al _{0.48} As/InP and In _{0.2} Ga _{0.8} As/GaAs/AlGaAs multi-quantum well wafers by MBE with GaP and GaAs decomposition sources. <i>Journal of Crystal Growth</i> , 2002 , 237-239, 1504-1509	1.6	3
14	Highly Stable and Scalable Blue QD-LED via an Evaporated TiO ₂ Thin Film as an Electron Transport Layer. <i>Advanced Optical Materials</i> , 2020 , 8, 2001172	8.1	3
13	Lattice marginal reconstruction-enabled high ambient-tolerance perovskite quantum dot phototransistors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 16001-16009	7.1	3
12	Biomass-Derived Nickel Phosphide Nanoparticles as a Robust Catalyst for Hydrogen Production by Catalytic Decomposition of C ₂ H ₂ or Dry Reforming of CH ₄ . <i>ACS Applied Energy Materials</i> , 2019 , 2, 8649-8658	6.1	3
11	Strong enhancement of emission efficiency in GaN light-emitting diodes by plasmon-coupled light amplification of graphene. <i>Nanotechnology</i> , 2018 , 29, 055201	3.4	3
10	Inorganic Quantum Dot Materials and their Applications in Organic-Hybrid Solar Cells. <i>Israel Journal of Chemistry</i> , 2019 , 59, 720-728	3.4	2
9	Modification of electrical and piezoelectric properties of ZnO nanorods based on arsenic incorporation via low temperature spin-on-dopant method. <i>Journal of the Korean Physical Society</i> , 2015 , 67, 930-935	0.6	2
8	Clear manifestation of phonon anomaly in single-layer graphene by chemical p-type doping. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 015304	3	2

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6	The Perspective of Nanotechnology and Its Convergence with Future Information Technology. <i>ECS Transactions</i> , 2011 , 35, 5-11	1	1
5	21.1: Invited Paper: FullColor Quantum Dot Display. <i>Digest of Technical Papers SID International Symposium</i> , 2010 , 41, 297	0.5	1
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2	Dipole-assisted carrier transport in bis(trifluoromethane) sulfonamide-treated O-ReS2 field-effect transistor. <i>Nano Research</i> , 2021 , 14, 2207	10	0
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