Jong Min Kim

List of Publications by Year in Descending Order

168 papers	22,775 citations	48 h-index	150 g-index
180 ext. papers	24,948 ext. citations	10 avg, IF	6.35 L-index

#	Paper	IF	Citations
168	Smart textile lighting/display system with multifunctional fibre devices for large scale smart home and IoT applications.. *Nature Communications*, **2022**, 13, 814	17.4	8
167	Dipole-assisted carrier transport in bis(trifluoromethane) sulfonamide-treated O-ReS2 field-effect transistor. *Nano Research*, **2021**, 14, 2207	10	0
166	Inkjet Printed Circuits with 2D Semiconductor Inks for High-Performance Electronics. *Advanced Electronic Materials*, **2021**, 7, 2100112	6.4	15
165	Modelling charge transport and electro-optical characteristics of quantum dot light-emitting diodes. *Npj Computational Materials*, **2021**, 7,	10.9	5
164	Technology progress on quantum dot light-emitting diodes for next-generation displays. *Nanoscale Horizons*, **2021**, 6, 68-77	10.8	5
163	Fibre electronics: towards scaled-up manufacturing of integrated e-textile systems. *Nanoscale*, **2021**, 13, 12818-12847	7.7	9
162	Charge transport mechanisms in inkjet-printed thin-film transistors based on two-dimensional materials. *Nature Electronics*, **2021**, 4, 893-905	28.4	13
161	Controlling Performance of Organic–Inorganic Hybrid Perovskite Triboelectric Nanogenerators via Chemical Composition Modulation and Electric Field-Induced Ion Migration. *Advanced Energy Materials*, **2020**, 10, 2002470	21.8	11
160	Recent Advances in Vanadium-Based Aqueous Rechargeable Zinc-Ion Batteries. *Advanced Energy Materials*, **2020**, 10, 2000477	21.8	103
159	Electrically focus-tuneable ultrathin lens for high-resolution square subpixels. *Light: Science and Applications*, **2020**, 9, 98	16.7	17
158	Waterproof Flexible InP@ZnSeS Quantum Dot Light-Emitting Diode. *Advanced Optical Materials*, **2020**, 8, 1901362	8.1	11
157	Nano-to-Microporous Networks via Inkjet Printing of ZnO Nanoparticles/Graphene Hybrid for Ultraviolet Photodetectors. *ACS Applied Nano Materials*, **2020**, 3, 4454-4464	5.6	10
156	Phosphorus Regulated Cobalt Oxide@Nitrogen-Doped Carbon Nanowires for Flexible Quasi-Solid-State Supercapacitors. *Small*, **2020**, 16, e1906458	11	49
155	Hybrid Passivation for Foldable Indium Gallium Zinc Oxide Thin-Film Transistors Mediated by Low-Temperature and Low-Damage Parylene-C/Atomic Layer Deposition-AlOx Coating. *Physica Status Solidi (A) Applications and Materials Science*, **2020**, 217, 1900832	1.6	5
154	36-3: Novel and Simple Patterning process of Quantum Dots via Transfer Printing for Active Matrix QD-LED. *Digest of Technical Papers SID International Symposium*, **2020**, 51, 512-515	0.5	0
153	Toward Controlled Electrical Stimulation for Wound Healing Based on a Precision Layered Skin Model.. *ACS Applied Bio Materials*, **2020**, 3, 8901-8910	4.1	8
152	Multiphoton Absorption Stimulated Metal Chalcogenide Quantum Dot Solar Cells under Ambient and Concentrated Irradiance. *Advanced Functional Materials*, **2020**, 30, 2004563	15.6	21

151	Highly Stable and Scalable Blue QD-LED via an Evaporated TiO2 Thin Film as an Electron Transport Layer. *Advanced Optical Materials*, **2020**, 8, 2001172	8.1	3
150	Lattice marginal reconstruction-enabled high ambient-tolerance perovskite quantum dot phototransistors. *Journal of Materials Chemistry C*, **2020**, 8, 16001-16009	7.1	3
149	Robust In-Zn-O Thin-Film Transistors with a Bilayer Heterostructure Design and a Low-Temperature Fabrication Process Using Vacuum and Solution Deposited Layers. *ACS Omega*, **2020**, 5, 21593-21601	3.9	0
148	Chalcogenide solution-mediated activation protocol for scalable and ultrafast synthesis of single-crystalline 1-D copper sulfide for supercapacitors. *Journal of Materials Chemistry A*, **2019**, 7, 2529-2535	11	14
147	Chemically encoded self-organized quantum chain supracrystals with exceptional charge and ion transport properties. *Nano Energy*, **2019**, 62, 764-771	17.1	14
146	Quantum Dots Based Photocatalytic Hydrogen Evolution. *Israel Journal of Chemistry*, **2019**, 59, 762-773	3.4	11
145	Inorganic Quantum Dot Materials and their Applications in Organic–Hybrid Solar Cells. *Israel Journal of Chemistry*, **2019**, 59, 720-728	3.4	2
144	Surface functionalization-induced photoresponse characteristics of monolayer MoS for fast flexible photodetectors. *Nanoscale*, **2019**, 11, 4726-4734	7.7	26
143	Growth of quantum dot coated core-shell anisotropic nanowires for improved thermal and electronic transport. *Applied Physics Letters*, **2019**, 114, 243104	3.4	5
142	Direct Epitaxial Synthesis of Selective Two-Dimensional Lateral Heterostructures. *ACS Nano*, **2019**, 13, 13047-13055	16.7	28
141	Modeling Electrical Percolation to optimize the Electromechanical Properties of CNT/Polymer Composites in Highly Stretchable Fiber Strain Sensors. *Scientific Reports*, **2019**, 9, 20376	4.9	9
140	Biomass-Derived Nickel Phosphide Nanoparticles as a Robust Catalyst for Hydrogen Production by Catalytic Decomposition of C2H2 or Dry Reforming of CH4. *ACS Applied Energy Materials*, **2019**, 2, 8649-8658	6.1	3
139	High-Performance n-i-p-Type Perovskite Photodetectors Employing Graphene-Transparent Conductive Electrodes N-Type Doped with Amine Group Molecules. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 734-739	8.3	11
138	Balancing Charge Carrier Transport in a Quantum Dot P-N Junction toward Hysteresis-Free High-Performance Solar Cells. *ACS Energy Letters*, **2018**, 3, 1036-1043	20.1	29
137	Effect of layer number and metal-chloride dopant on multiple layers of graphene/porous Si solar cells. *Journal of Applied Physics*, **2018**, 123, 123101	2.5	18
136	Flexible Solar Cells: Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect (Adv. Energy Mater. 3/2018). *Advanced Energy Materials*, **2018**, 8, 1870012	21.8	6
135	Graphene transparent conductive electrodes doped with graphene quantum dots-mixed silver nanowires for highly-flexible organic solar cells. *Journal of Alloys and Compounds*, **2018**, 744, 1-6	5.7	46
134	Recent Progress in Porous Graphene and Reduced Graphene Oxide-Based Nanomaterials for Electrochemical Energy Storage Devices. *Advanced Materials Interfaces*, **2018**, 5, 1701212	4.6	68

133	Field effect transistors and phototransistors based upon p-type solution-processed PbS nanowires. *Nanotechnology*, **2018**, 29, 075202	3.4	7
132	Charge Transport Modulation of a Flexible Quantum Dot Solar Cell Using a Piezoelectric Effect. *Advanced Energy Materials*, **2018**, 8, 1700809	21.8	24
131	Highly-flexible perovskite photodiodes employing doped multilayer-graphene transparent conductive electrodes. *Nanotechnology*, **2018**, 29, 425203	3.4	9
130	Synergistic effects of engineered spinel hetero-metallic cobaltites on electrochemical pseudo-capacitive behaviors. *Journal of Materials Chemistry A*, **2018**, 6, 15033-15039	13	10
129	Use of AuCl3-doped graphene as a protecting layer for enhancing the stabilities of inverted perovskite solar cells. *Applied Surface Science*, **2018**, 455, 1131-1136	6.7	21
128	Strong enhancement of emission efficiency in GaN light-emitting diodes by plasmon-coupled light amplification of graphene. *Nanotechnology*, **2018**, 29, 055201	3.4	3
127	Si-quantum-dot heterojunction solar cells with 16.2% efficiency achieved by employing doped-graphene transparent conductive electrodes. *Nano Energy*, **2018**, 43, 124-129	17.1	38
126	Sn/SnO x -loaded uniform-sized hollow carbon spheres on graphene nanosheets as an anode for lithium-ion batteries. *Journal of Alloys and Compounds*, **2018**, 736, 42-50	5.7	13
125	Consecutive Junction-Induced Efficient Charge Separation Mechanisms for High-Performance MoS/Quantum Dot Phototransistors. *ACS Applied Materials & Interfaces*, **2018**, 10, 38264-38271	9.5	33
124	Sustainable hybrid energy harvester based on air stable quantum dot solar cells and triboelectric nanogenerator. *Journal of Materials Chemistry A*, **2018**, 6, 12440-12446	13	23
123	Ag-nanowires-doped graphene/Si Schottky-junction solar cells encapsulated with another graphene layer. *Current Applied Physics*, **2017**, 17, 1136-1141	2.6	21
122	Hierarchically assembled tubular shell-core-shell heterostructure of hybrid transition metal chalcogenides for high-performance supercapacitors with ultrahigh cyclability. *Nano Energy*, **2017**, 37, 15-23	17.1	60
121	Red green blue emissive lead sulfide quantum dots: heterogeneous synthesis and applications. *Journal of Materials Chemistry C*, **2017**, 5, 3692-3698	7.1	16
120	Monolayer optical memory cells based on artificial trap-mediated charge storage and release. *Nature Communications*, **2017**, 8, 14734	17.4	133
119	Fully inkjet-printed two-dimensional material field-effect heterojunctions for wearable and textile electronics. *Nature Communications*, **2017**, 8, 1202	17.4	230
118	Enhancement of efficiency in graphene/porous silicon solar cells by co-doping graphene with gold nanoparticles and bis(trifluoromethanesulfonyl)-amide. *Journal of Materials Chemistry C*, **2017**, 5, 9005-9011	7.1	22
117	Si heterojunction solar cells employing graphene transparent conductive electrodes co-doped with gold chlorides and silver nanowires. *Journal of Alloys and Compounds*, **2017**, 726, 1047-1052	5.7	4
116	Strain-Mediated Interlayer Coupling Effects on the Excitonic Behaviors in an Epitaxially Grown MoS/WS van der Waals Heterobilayer. *Nano Letters*, **2017**, 17, 5634-5640	11.5	100

115	Thermodynamically Stable Synthesis of Large-Scale and Highly Crystalline Transition Metal Dichalcogenide Monolayers and their Unipolar n-n Heterojunction Devices. *Advanced Materials*, **2017**, 29, 1702206	24	76
114	Enhancement of efficiency and long-term stability in graphene/Si-quantum-dot heterojunction photodetectors by employing bis(trifluoromethanesulfonyl)-amide as a dopant for graphene. *Journal of Materials Chemistry C*, **2017**, 5, 12737-12743	7.1	17
113	Highly stable 3D porous heterostructures with hierarchically-coordinated octahedral transition metals for enhanced performance supercapacitors. *Nano Energy*, **2017**, 39, 337-345	17.1	54
112	Light-induced negative differential resistance in graphene/Si-quantum-dot tunneling diodes. *Scientific Reports*, **2016**, 6, 30669	4.9	14
111	Energy transfer from an individual silica nanoparticle to graphene quantum dots and resulting enhancement of photodetector responsivity. *Scientific Reports*, **2016**, 6, 27145	4.9	29
110	Precise and selective sensing of DNA-DNA hybridization by graphene/Si-nanowires diode-type biosensors. *Scientific Reports*, **2016**, 6, 31984	4.9	15
109	Synergistic Effects of a Multifunctional Graphene Based Interlayer on Electrochemical Behavior and Structural Stability. *ACS Applied Materials & Interfaces*, **2016**, 8, 17651-8	9.5	20
108	Synergistic incorporation of hybrid heterobimetal□nitrogen atoms into carbon structures for superior oxygen electroreduction performance. *Catalysis Science and Technology*, **2016**, 6, 2085-2091	5.5	12
107	In Situ Synthesis and Characterization of Ge Embedded Electrospun Carbon Nanostructures as High Performance Anode Material for Lithium-Ion Batteries. *ACS Applied Materials & Interfaces*, **2016**, 8, 7022-9	9.5	53
106	Solubility-Dependent NiMoO Nanoarchitectures: Direct Correlation between Rationally Designed Structure and Electrochemical Pseudokinetics. *ACS Applied Materials & Interfaces*, **2016**, 8, 35227-35234	9.5	32
105	Inorganic-ligand exchanging time effect in PbS quantum dot solar cell. *Applied Physics Letters*, **2016**, 109, 063901	3.4	22
104	High Performance PbS Quantum Dot/Graphene Hybrid Solar Cell with Efficient Charge Extraction. *ACS Applied Materials & Interfaces*, **2016**, 8, 13902-8	9.5	58
103	A pseudo-capacitive chalcogenide-based electrode with dense 1-dimensional nanoarrays for enhanced energy density in asymmetric supercapacitors. *Journal of Materials Chemistry A*, **2016**, 4, 10084-10090	13	44
102	Highly Monodispersed PbS Quantum Dots for Outstanding Cascaded-Junction Solar Cells. *ACS Energy Letters*, **2016**, 1, 834-839	20.1	77
101	Enhanced charge carrier transport properties in colloidal quantum dot solar cells organic and inorganic hybrid surface passivation. *Journal of Materials Chemistry A*, **2016**, 4, 18769-18775	13	22
100	Enhanced Ferroelectric Property of P(VDF-TrFE-CTFE) Film Using Room-Temperature Crystallization for High-Performance Ferroelectric Device Applications. *Advanced Electronic Materials*, **2016**, 2, 1600225	6.4	25
99	Carbon out-diffusion mechanism for direct graphene growth on a silicon surface. *Acta Materialia*, **2015**, 96, 18-23	8.4	8
98	Enhanced energy harvesting based on surface morphology engineering of P(VDF-TrFE) film. *Nano Energy*, **2015**, 16, 524-532	17.1	45

97	Graphene/Si-quantum-dot heterojunction diodes showing high photosensitivity compatible with quantum confinement effect. *Advanced Materials*, **2015**, 27, 2614-20	24	48
96	Interplay between temperature effects and surface recombination process in UV photoresponse of ZnO nanowires. *Applied Surface Science*, **2015**, 324, 512-516	6.7	7
95	Science and technology roadmap for graphene, related two-dimensional crystals, and hybrid systems. *Nanoscale*, **2015**, 7, 4598-810	7.7	2015
94	High Performance Electrocatalysts Based on Pt Nanoarchitecture for Fuel Cell Applications. *Journal of Nanomaterials*, **2015**, 2015, 1-20	3.2	6
93	Metal-Insulator Phase Transition in Quasi-One-Dimensional VO2Structures. *Journal of Nanomaterials*, **2015**, 2015, 1-15	3.2	6
92	Resilient High Catalytic Performance of Platinum Nanocatalysts with Porous Graphene Envelope. *ACS Nano*, **2015**, 9, 5947-57	16.7	44
91	Modification of electrical and piezoelectric properties of ZnO nanorods based on arsenic incorporation via low temperature spin-on-dopant method. *Journal of the Korean Physical Society*, **2015**, 67, 930-935	0.6	2
90	Clear manifestation of phonon anomaly in single-layer graphene by chemical p-type doping. *Journal Physics D: Applied Physics*, **2015**, 48, 015304	3	2
89	Surface energy-mediated construction of anisotropic semiconductor wires with selective crystallographic polarity. *Scientific Reports*, **2014**, 4, 5680	4.9	31
88	High-performance graphene-quantum-dot photodetectors. *Scientific Reports*, **2014**, 4, 5603	4.9	107
87	High photoresponsivity in an all-graphene p-n vertical junction photodetector. *Nature Communications*, **2014**, 5, 3249	17.4	124
86	A low temperature process for phosphorous doped ZnO nanorods via a combination of hydrothermal and spin-on dopant methods. *Nanoscale*, **2014**, 6, 2046-51	7.7	24
85	Tunable threshold voltage of an n-type Si nanowire ferroelectric-gate field effect transistor for high-performance nonvolatile memory applications. *Nanotechnology*, **2014**, 25, 205201	3.4	10
84	In-situ monitoring of AuCl3-doping and -dedoping behaviors in graphene. *Journal of the Korean Physical Society*, **2014**, 64, 1327-1330	0.6	3
83	Emerging Applications of Liquid Crystals Based on Nanotechnology. *Materials*, **2014**, 7, 2044-2061	3.5	9
82	Graphene synthesis by C implantation into Cu foils. *Carbon*, **2014**, 66, 267-271	10.4	24
81	Ultrafast and low temperature laser annealing for crystalline TiO2 nanostructures patterned by electro-hydrodynamic lithography. *Applied Physics Letters*, **2013**, 103, 053114	3.4	6
80	Heterogeneous stacking of nanodot monolayers by dry pick-and-place transfer and its applications in quantum dot light-emitting diodes. *Nature Communications*, **2013**, 4, 2637	17.4	77

79	Fabrication of vertically aligned ZnO nanocone arrays by wet chemical etching on various substrates and enhanced photoluminescence emission from nanocone arrays compared to nanowire arrays. *Physica Status Solidi (A) Applications and Materials Science*, **2013**, 210, 2662-2667	1.6	1
78	Rapid-thermal-annealing surface treatment for restoring the intrinsic properties of graphene field-effect transistors. *Nanotechnology*, **2013**, 24, 405301	3.4	49
77	Annealing effects on the characteristics of AuCl3-doped graphene. *Journal of Applied Physics*, **2013**, 113, 064305	2.5	34
76	Engineering of efficiency limiting free carriers and an interfacial energy barrier for an enhancing piezoelectric generation. *Energy and Environmental Science*, **2013**, 6, 97-104	35.4	104
75	Programmable ZnO nanowire transistors using switchable polarization of ferroelectric liquid crystal. *Applied Physics Letters*, **2013**, 102, 053504	3.4	10
74	Graphene p-n vertical tunneling diodes. *ACS Nano*, **2013**, 7, 5168-74	16.7	57
73	Observation of orientation-dependent photovoltaic behaviors in aligned organic nanowires. *Applied Physics Letters*, **2013**, 103, 053304	3.4	8
72	A hybrid piezoelectric structure for wearable nanogenerators. *Advanced Materials*, **2012**, 24, 1759-64	24	478
71	Large thermoelectric figure-of-merits from SiGe nanowires by simultaneously measuring electrical and thermal transport properties. *Nano Letters*, **2012**, 12, 2918-23	11.5	158
70	Design of a polymer-carbon nanohybrid junction by interface modeling for efficient printed transistors. *ACS Nano*, **2012**, 6, 662-70	16.7	23
69	Nearly Perfect Polycrystalline, Large-Grained Silicon Arrays Formed at Low-Temperature Ambient by Local Pyrolysis. *Crystal Growth and Design*, **2012**, 12, 2472-2477	3.5	6
68	Design and evaluation of novel Zn doped mesoporous TiO2 based anode material for advanced lithium ion batteries. *Journal of Materials Chemistry*, **2012**, 22, 17625		77
67	Size-dependent radiative decay processes in graphene quantum dots. *Applied Physics Letters*, **2012**, 101, 163103	3.4	24
66	Selective dispersion of high purity semiconducting single-walled carbon nanotubes with regioregular poly(3-alkylthiophene)s. *Nature Communications*, **2011**, 2, 541	17.4	291
65	Full-colour quantum dot displays fabricated by transfer printing. *Nature Photonics*, **2011**, 5, 176-182	33.9	816
64	Porous PVDF as effective sonic wave driven nanogenerators. *Nano Letters*, **2011**, 11, 5142-7	11.5	300
63	Perspectives on Nanotechnology for RF and Terahertz Electronics. *IEEE Transactions on Microwave Theory and Techniques*, **2011**, 59, 2709-2718	4.1	8
62	Nearly single-crystalline GaN light-emitting diodes on amorphous glass substrates. *Nature Photonics*, **2011**, 5, 763-769	33.9	135

61	Single-fiber-based hybridization of energy converters and storage units using graphene as electrodes. *Advanced Materials*, **2011**, 23, 3446-9	24	235
60	Graphene/carbon nanotube hybrid-based transparent 2D optical array. *Advanced Materials*, **2011**, 23, 3809-14	24	32
59	Optical Arrays: Graphene/Carbon Nanotube Hybrid-Based Transparent 2D Optical Array (Adv. Mater. 33/2011). *Advanced Materials*, **2011**, 23, 3808-3808	24	23
58	Fiber Supercapacitors Made of Nanowire-Fiber Hybrid Structures for Wearable/Flexible Energy Storage. *Angewandte Chemie*, **2011**, 123, 1721-1725	3.6	53
57	Fiber supercapacitors made of nanowire-fiber hybrid structures for wearable/flexible energy storage. *Angewandte Chemie - International Edition*, **2011**, 50, 1683-7	16.4	742
56	Control of naturally coupled piezoelectric and photovoltaic properties for multi-type energy scavengers. *Energy and Environmental Science*, **2011**, 4, 4607	35.4	43
55	Thermal conversion of electronic and electrical properties of AuCl3-doped single-walled carbon nanotubes. *ACS Nano*, **2011**, 5, 1353-9	16.7	31
54	Formation of 10-㎚-level patterned organic thin film using microthermal evaporation. *Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics*, **2011**, 29, 021016	1.3	4
53	Selective formation of GaN-based nanorod heterostructures on soda-lime glass substrates by a local heating method. *Nanotechnology*, **2011**, 22, 205602	3.4	13
52	The Perspective of Nanotechnology and Its Convergence with Future Information Technology. *ECS Transactions*, **2011**, 35, 5-11	1	1
51	Charge conversion effects of carbon nanotube network transistors by temperature for Al2O3 gate dielectric formation. *Applied Physics Letters*, **2010**, 97, 032117	3.4	6
50	Intrinsic high-frequency characteristics of graphene layers. *New Journal of Physics*, **2010**, 12, 113031	2.9	14
49	ZnO nanostructures with controlled morphologies on a glass substrate. *Nanotechnology*, **2010**, 21, 265603	3.4	12
48	Hygroscopic Effects on AuCl3-Doped Carbon Nanotubes. *Journal of Physical Chemistry C*, **2010**, 114, 11618-11622	3.8	27
47	Nanoscale Networked Single-Walled Carbon-Nanotube Electrodes for Transparent Flexible Nanogenerators. *Journal of Physical Chemistry C*, **2010**, 114, 1379-1384	3.8	51
46	Cap formation engineering: from opened C60 to single-walled carbon nanotubes. *Nano Letters*, **2010**, 10, 3343-9	11.5	106
45	Control of electronic structure of graphene by various dopants and their effects on a nanogenerator. *Journal of the American Chemical Society*, **2010**, 132, 15603-9	16.4	223
44	Piezoelectric touch-sensitive flexible hybrid energy harvesting nanoarchitectures. *Nanotechnology*, **2010**, 21, 405503	3.4	35

43	21.1: Invited Paper: FullColor Quantum Dot Display. *Digest of Technical Papers SID International Symposium*, **2010**, 41, 297	0.5	1
42	Fully rollable transparent nanogenerators based on graphene electrodes. *Advanced Materials*, **2010**, 22, 2187-92	24	258
41	Fabrication of surface plasmon-coupled si nanodots in au-embedded silicon oxide nanowires. *Advanced Materials*, **2010**, 22, 2421-5	24	7
40	Sound-driven piezoelectric nanowire-based nanogenerators. *Advanced Materials*, **2010**, 22, 4726-30	24	253
39	Solution-processed, high-performance n-channel organic microwire transistors. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 6065-70	11.5	209
38	Efficient Reduction of Graphite Oxide by Sodium Borohydride and Its Effect on Electrical Conductance. *Advanced Functional Materials*, **2009**, 19, 1987-1992	15.6	1831
37	Mechanically Powered Transparent Flexible Charge-Generating Nanodevices with Piezoelectric ZnO Nanorods. *Advanced Materials*, **2009**, 21, 2185-2189	24	346
36	One-step exfoliation synthesis of easily soluble graphite and transparent conducting graphene sheets. *Advanced Materials*, **2009**, 21, 4383-7	24	198
35	Lyotropic liquid-crystalline solutions of high-concentration dispersions of single-walled carbon nanotubes with conjugated polymers. *Small*, **2009**, 5, 1019-24	11	50
34	Large-scale pattern growth of graphene films for stretchable transparent electrodes. *Nature*, **2009**, 457, 706-10	50.4	8675
33	High-performance crosslinked colloidal quantum-dot light-emitting diodes. *Nature Photonics*, **2009**, 3, 341-345	33.9	441
32	Direct growth of semiconducting single-walled carbon nanotube array. *Journal of the American Chemical Society*, **2009**, 131, 14642-3	16.4	134
31	Selective Formation of Carbon Nanotubes and Its Application to Field-Emitter Arrays. *IEEE Electron Device Letters*, **2009**, 30, 709-711	4.4	7
30	Grow Single-Walled Carbon Nanotubes Cross-Bar in One Batch. *Journal of Physical Chemistry C*, **2009**, 113, 5341-5344	3.8	24
29	Vertical alignment of carbon nanotubes using the magneto-evaporation method. *Journal of the American Chemical Society*, **2009**, 131, 742-8	16.4	26
28	Thin film transistors using preferentially grown semiconducting single-walled carbon nanotube networks by water-assisted plasma-enhanced chemical vapor deposition. *Nanotechnology*, **2009**, 20, 295201	3.4	23
27	A high-density array of size-controlled silicon nanodots in a silicon oxide nanowire by electron-stimulated oxygen expulsion. *Nano Letters*, **2009**, 9, 1780-6	11.5	9
26	Self-sorted, aligned nanotube networks for thin-film transistors. *Science*, **2008**, 321, 101-4	33.3	535

25	Double-gated field emitter array with carbon nanotubes grown by chemical vapor deposition. *Applied Physics Letters*, **2006**, 88, 263504	3.4	29
24	Selective Electroless Deposition Using Photoinduced Oxidation of Sn(II) Compounds on Surface-Modified Polyimide Layers. *Electrochemical and Solid-State Letters*, **2006**, 9, H118		5
23	Preparation of uniformly dispersed iron-acetate nanoparticles using freeze-drying method for the growth of carbon nanotubes. *Diamond and Related Materials*, **2005**, 14, 810-814	3.5	6
22	Optimization of electron beam focusing for gated carbon nanotube field emitter arrays. *IEEE Transactions on Electron Devices*, **2005**, 52, 2584-2590	2.9	13
21	Field-emission characteristics of carbon nanotube paste layers. *Journal of Applied Physics*, **2005**, 98, 084313	2.5	8
20	Low-Temperature Fabrication of Zinc Oxide Micropatterns Using Selective Electroless Deposition. *Electrochemical and Solid-State Letters*, **2005**, 8, H75		6
19	Synthesis of Highly Crystalline Multiwalled Carbon Nanotubes by Thermal Chemical Vapor Deposition Using Buffer Gases. *Japanese Journal of Applied Physics*, **2004**, 43, 3631-3635	1.4	5
18	Carbon nanotube field emitter arrays having an electron beam focusing structure. *Applied Physics Letters*, **2004**, 84, 1022-1024	3.4	31
17	Synthesis of hybrid multiwall carbon nanotubes and their enhanced field emission properties. *Chemical Physics Letters*, **2004**, 396, 6-9	2.5	10
16	Effect of Al and catalyst thicknesses on the growth of carbon nanotubes and application to gated field emitter arrays. *Chemical Physics Letters*, **2004**, 400, 139-144	2.5	19
15	Field emission and growth characteristics of carbon nanotubes with optical emission spectroscopy analysis in C3H4 and CO deposition systems. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2003**, 21, 1720		9
14	Growth characteristics of carbon nanotubes using platinum catalyst by plasma enhanced chemical vapor deposition. *Diamond and Related Materials*, **2003**, 12, 878-883	3.5	24
13	Annealing of InGaAlAs digital alloy studied with scanning-tunneling microscopy and filled-states topography. *Applied Physics Letters*, **2003**, 82, 1191-1193	3.4	6
12	Uniform growth of high-quality 2-in diameter In0.53Ga0.47As/In0.52Al0.48As/InP and In0.2Ga0.8As/GaAs/AlGaAs multi-quantum well wafers by MBE with GaP and GaAs decomposition sources. *Journal of Crystal Growth*, **2002**, 237-239, 1504-1509	1.6	3
11	Fabrication and characterization of gated field emitter arrays with self-aligned carbon nanotubes grown by chemical vapor deposition. *Applied Physics Letters*, **2002**, 81, 2070-2072	3.4	90
10	Effects of rapid thermal annealing on the optical properties of 1.3 μm InGaAlAs multiquantum wells grown by digital-alloy molecular-beam epitaxy. *Applied Physics Letters*, **2002**, 80, 4650-4652	3.4	16
9	In situ diagnosis of chemical species for the growth of carbon nanotubes in microwave plasma-enhanced chemical vapor deposition. *Diamond and Related Materials*, **2002**, 11, 59-66	3.5	48
8	Molecular Beam Epitaxial Growth of High-Quality InP/InGaAs/InP Heterostructure with Polycrystalline GaAs and GaP Decomposition Sources. *Japanese Journal of Applied Physics*, **2000**, 39, L347-L350	1.4	14

7	Growth of carbon nanotubes by microwave plasma-enhanced chemical vapor deposition at low temperature. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2000**, 18, 1864-1868	2.9	60
6	Low temperature synthesis of carbon nanotubes by microwave plasma-enhanced chemical vapor deposition. *Synthetic Metals*, **2000**, 108, 159-163	3.6	44
5	Controlling the diameter, growth rate, and density of vertically aligned carbon nanotubes synthesized by microwave plasma-enhanced chemical vapor deposition. *Applied Physics Letters*, **2000**, 76, 2367-2369	3.4	223
4	Synthesis of uniformly distributed carbon nanotubes on a large area of Si substrates by thermal chemical vapor deposition. *Applied Physics Letters*, **1999**, 75, 1721-1723	3.4	108
3	Synthesis of aligned carbon nanotubes using thermal chemical vapor deposition. *Chemical Physics Letters*, **1999**, 312, 461-468	2.5	199
2	Swelling behavior of thermosensitive N-isopropylacrylamide–ethyl N-acryloylglycine submicron-sized copolymer gel particles. *Journal of Applied Polymer Science*, **1998**, 69, 799-806	2.9	18
1	Screen-Printed Carbon Nanotube Field Emitters for Display Applications287-309		