

Dae Joon Kang

List of Publications by Citations

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181
papers

5,805
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43
h-index

69
g-index

190
ext. papers

6,488
ext. citations

6
avg, IF

5.95
L-index

#	Paper	IF	Citations
181	Nitridation-driven conductive Li ₄ Ti ₅ O ₁₂ for lithium ion batteries. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14930-1	16.4	371
180	Growth of high-crystalline, single-layer hexagonal boron nitride on recyclable platinum foil. <i>Nano Letters</i> , 2013 , 13, 1834-9	11.5	278
179	Synthesis and characterization of CuO nanowires by a simple wet chemical method. <i>Nanoscale Research Letters</i> , 2012 , 7, 70	5	250
178	A reversible pH-driven DNA nanoswitch array. <i>Journal of the American Chemical Society</i> , 2006 , 128, 2067-70	16.4	198
177	Nanoscale memory cell based on a nanoelectromechanical switched capacitor. <i>Nature Nanotechnology</i> , 2008 , 3, 26-30	28.7	137
176	Surface-stress-induced Mott transition and nature of associated spatial phase transition in single crystalline VO ₂ nanowires. <i>Nano Letters</i> , 2009 , 9, 3392-7	11.5	132
175	Nanoelectromechanical switches with vertically aligned carbon nanotubes. <i>Applied Physics Letters</i> , 2005 , 87, 163114	3.4	131
174	Structural and electrochemical characterization of HfMoO ₃ nanorod-based electrochemical energy storage devices. <i>Electrochimica Acta</i> , 2010 , 56, 376-380	6.7	117
173	High performance ZnO nanowire field effect transistor using self-aligned nanogap gate electrodes. <i>Applied Physics Letters</i> , 2006 , 89, 263102	3.4	109
172	Direct observation of the structural component of the metal-insulator phase transition and growth habits of epitaxially grown VO ₂ nanowires. <i>Nano Letters</i> , 2007 , 7, 1570-4	11.5	107
171	Three-dimensional crystalline SiC nanowire flowers. <i>Nanotechnology</i> , 2004 , 15, 996-999	3.4	96
170	Sub-10 nm Electron Beam Nanolithography Using Spin-Coatable TiO ₂ Resists. <i>Nano Letters</i> , 2003 , 3, 1587-1591	15.91	91
169	An addressable antibody nanoarray produced on a nanostructured surface. <i>Journal of the American Chemical Society</i> , 2004 , 126, 6508-9	16.4	88
168	Controllable Josephson current through a pseudospin-valve structure. <i>Applied Physics Letters</i> , 2004 , 84, 1153-1155	3.4	82
167	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
166	Layer by layer assembly of ultrathin VO ₂ anchored MWCNTs and graphene on textile fabrics for fabrication of high energy density flexible supercapacitor electrodes. <i>Nanoscale</i> , 2014 , 6, 4125-30	7.7	72
165	Reversibly light-modulated dirac point of graphene functionalized with spiropyran. <i>ACS Nano</i> , 2012 , 6, 9207-13	16.7	72

164	Enhanced Power Output of a Triboelectric Nanogenerator using Poly(dimethylsiloxane) Modified with Graphene Oxide and Sodium Dodecyl Sulfate. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 25283-25272	8.5	71
163	Enhanced electrochemical performance of porous Co-doped TiO ₂ nanomaterials prepared by a solvothermal method. <i>Microporous and Mesoporous Materials</i> , 2019 , 273, 148-155	5.3	71
162	Dynamic shadow mask technique: a universal tool for nanoscience. <i>Nano Letters</i> , 2005 , 5, 15-20	11.5	71
161	Planar superconductor-normal-superconductor Josephson junctions in MgB ₂ . <i>Applied Physics Letters</i> , 2001 , 79, 3464-3466	3.4	71
160	Indium Hydroxide and Indium Oxide Nanospheres, Nanoflowers, Microcubes, and Nanorods: Synthesis and Optical Properties. <i>Crystal Growth and Design</i> , 2008 , 8, 2312-2317	3.5	69
159	Ultrahigh-energy and stable supercapacitors based on intertwined porous MoO ₃ /MWCNT nanocomposites. <i>Electrochimica Acta</i> , 2011 , 58, 76-80	6.7	67
158	Ink-jet printed ZnO nanowire field effect transistors. <i>Applied Physics Letters</i> , 2007 , 91, 043109	3.4	64
157	Flickering analysis of erythrocyte mechanical properties: dependence on oxygenation level, cell shape, and hydration level. <i>Biophysical Journal</i> , 2009 , 97, 1606-15	2.9	61
156	Resistance of a domain wall in La _{0.7} Ca _{0.3} MnO ₃ . <i>Journal of Applied Physics</i> , 1999 , 86, 6287-6290	2.5	61
155	Molecular Recognition and Specific Interactions for Biosensing Applications. <i>Sensors</i> , 2008 , 8, 6605-6641	3.8	60
154	Control Synthesis of Silver Nanosheets, Chainlike Sheets, and Microwires via a Simple Solvent-free Thermal Method. <i>Crystal Growth and Design</i> , 2007 , 7, 900-904	3.5	60
153	High-Resolution Contact Printing with Dendrimers. <i>Nano Letters</i> , 2002 , 2, 347-349	11.5	60
152	Sub-10 nm High-Aspect-Ratio Patterning of ZnO Using an Electron Beam. <i>Advanced Materials</i> , 2005 , 17, 1757-1761	24	60
151	MoO ₃ and Cu _{0.33} MoO ₃ nanorods for unprecedented UV/Visible light photocatalysis. <i>Chemical Communications</i> , 2010 , 46, 4324-6	5.8	59
150	Facile synthesis of core-shell SnO ₂ /V ₂ O ₅ nanowires and their efficient photocatalytic property. <i>Materials Chemistry and Physics</i> , 2010 , 124, 619-622	4.4	59
149	Fabrication of nanoscale heterostructure devices with a focused ion beam microscope. <i>Nanotechnology</i> , 2003 , 14, 630-632	3.4	59
148	PMMA-Etching-Free Transfer of Wafer-scale Chemical Vapor Deposition Two-dimensional Atomic Crystal by a Water Soluble Polyvinyl Alcohol Polymer Method. <i>Scientific Reports</i> , 2016 , 6, 33096	4.9	56
147	Flexible single-electrode triboelectric nanogenerators with MXene/PDMS composite film for biomechanical motion sensors. <i>Nano Energy</i> , 2020 , 78, 105383	17.1	55

146	Well-designed Te/SnS ₂ /Ag artificial nanoleaves for enabling and enhancing visible-light driven overall splitting of pure water. <i>Nano Energy</i> , 2017 , 39, 539-545	17.1	53
145	Focused ion beam fabrication of silicon print masters. <i>Nanotechnology</i> , 2003 , 14, 220-223	3.4	52
144	Ice-Templated MXene/Ag-Epoxy Nanocomposites as High-Performance Thermal Management Materials. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 24298-24307	9.5	51
143	Mesoporous TiO ₂ Spheres interconnected by multiwalled carbon nanotubes as an anode for high-performance lithium ion batteries. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 3676-83	9.5	47
142	Tin oxide coating on molybdenum oxide nanowires for high performance supercapacitor devices. <i>Electrochimica Acta</i> , 2012 , 72, 134-137	6.7	46
141	A stable and highly efficient visible-light-driven hydrogen evolution porous CdS/WO ₃ /TiO ₂ photocatalysts. <i>Materials Characterization</i> , 2018 , 142, 43-49	3.9	46
140	A comparative study of supercapacitive performances of nickel cobalt layered double hydroxides coated on ZnO nanostructured arrays on textile fibre as electrodes for wearable energy storage devices. <i>Nanoscale</i> , 2014 , 6, 2434-9	7.7	44
139	Poly(dimethylsiloxane)/ZnO Nanoflakes/Three-Dimensional Graphene Heterostructures for High-Performance Flexible Energy Harvesters with Simultaneous Piezoelectric and Triboelectric Generation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 32281-32288	9.5	44
138	Fabrication of Three-Dimensional Surface Structures with Highly Fluorescent Quantum Dots by Surface-Templated Layer-by-Layer Assembly. <i>Advanced Materials</i> , 2005 , 17, 1243-1248	24	43
137	Growth of three dimensional flower-like molybdenum disulfide hierarchical structures on graphene/carbon nanotube network: An advanced heterostructure for energy storage devices. <i>Journal of Power Sources</i> , 2015 , 280, 39-46	8.9	42
136	Evidence for the immobile bipolaron formation in the paramagnetic state of the magnetoresistive manganites. <i>Physical Review B</i> , 2000 , 62, R11949-R11952	3.3	42
135	CuS Nanosheets Decorated with CoS ₂ Nanoparticles as an Efficient Electrocatalyst for Enhanced Hydrogen Evolution at All pH Values. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 14016-14022	8.3	40
134	Synthesis of porous MoS ₂ /CdSe/TiO ₂ photoanodes for photoelectrochemical water splitting. <i>Microporous and Mesoporous Materials</i> , 2019 , 284, 403-409	5.3	39
133	Ultraviolet-visible near-field microscopy of phase-separated blends of polyfluorene-based conjugated semiconductors. <i>Applied Physics Letters</i> , 2001 , 79, 833-835	3.4	39
132	Conformal coating of ultrathin Ni(OH) ₂ on ZnO nanowires grown on textile fiber for efficient flexible energy storage devices. <i>RSC Advances</i> , 2014 , 4, 6324	3.7	36
131	Ultrahigh Output Piezoelectric and Triboelectric Hybrid Nanogenerators Based on ZnO Nanoflakes/Polydimethylsiloxane Composite Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44415-44420	9.5	36
130	Ultra-thin Solution-based coating of Molybdenum Oxide on Multiwall Carbon Nanotubes for High-performance Supercapacitor Electrodes. <i>Electrochimica Acta</i> , 2014 , 118, 138-142	6.7	34
129	Highly efficient photoelectrochemical response by sea-urchin shaped ZnO/TiO ₂ nano/micro hybrid heterostructures co-sensitized with CdS/CdSe. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 6474-6479	13	34

128	Hybrid energy harvester based on nanopillar solar cells and PVDF nanogenerator. <i>Nanotechnology</i> , 2013 , 24, 175402	3.4	34
127	Synthesis of ultra-thin tellurium nanoflakes on textiles for high-performance flexible and wearable nanogenerators. <i>Applied Surface Science</i> , 2017 , 392, 1055-1061	6.7	31
126	A Controlled Method to Synthesize Hybrid In ₂ O ₃ /Ag Nanochains and Nanoparticles: Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9998-10004	3.8	31
125	Controlled growth of vertically aligned ZnO nanowires with different crystal orientation of the ZnO seed layer. <i>Nanotechnology</i> , 2008 , 19, 235601	3.4	31
124	Pulsed laser deposition of epitaxial YBa ₂ Cu ₃ O _{7-x} /oxide multilayers onto textured NiFe substrates for coated conductor applications. <i>Superconductor Science and Technology</i> , 2002 , 15, 598-605	3.1	31
123	Molybdenum Disulfide Nanosheets Interconnected Nitrogen-Doped Reduced Graphene Oxide Hydrogel: A High-Performance Heterostructure for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , 2016 , 193, 128-136	6.7	30
122	Flexible, transparent and exceptionally high power output nanogenerators based on ultrathin ZnO nanoflakes. <i>Nanoscale</i> , 2016 , 8, 5059-66	7.7	30
121	A facile sol-gel method for synthesis of porous Nd-doped TiO ₂ monolith with enhanced photocatalytic activity under UV-vis irradiation. <i>Microporous and Mesoporous Materials</i> , 2013 , 182, 87-94	5.3	30
120	A template method for synthesis of porous Sn-doped TiO ₂ monolith and its enhanced photocatalytic activity. <i>Materials Letters</i> , 2013 , 93, 419-422	3.3	30
119	Nanoscale capacitors based on metal-insulator-carbon nanotube-metal structures. <i>Applied Physics Letters</i> , 2005 , 87, 263103	3.4	30
118	Directly coupled superconducting quantum interference device magnetometer fabricated in magnesium diboride by focused ion beam. <i>Applied Physics Letters</i> , 2002 , 81, 102-104	3.4	30
117	Enhanced Interfacial Charge Transfer and Separation Rate based on Sub 10 nm MoS ₂ Nanoflakes In Situ Grown on Graphitic-C ₃ N ₄ . <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900554	4.6	29
116	Fluorescence scanning near-field optical microscopy of polyfluorene composites. <i>Journal of Microscopy</i> , 2001 , 202, 433-8	1.9	28
115	Stress-induced domain dynamics and phase transitions in epitaxially grown VO nanowires. <i>Nanotechnology</i> , 2012 , 23, 205707	3.4	27
114	Local Probing of Photocurrent and Photoluminescence in a Phase-Separated Conjugated-Polymer Blend by Means of Near-Field Excitation. <i>Advanced Functional Materials</i> , 2006 , 16, 469-476	15.6	27
113	Flexible Supercapacitor-Type Rectifier-free Self-Charging Power Unit Based on a Multifunctional Polyvinylidene Fluoride-ZnO-rGO Piezoelectric Matrix. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 20891-20900	9.5	27
112	Controlled synthesis of anatase TiO ₂ nano-octahedra and nanospheres: shape-dependent effects on the optical and electrochemical properties. <i>CrystEngComm</i> , 2011 , 13, 4270	3.3	25
111	Realization and properties of YBa ₂ Cu ₃ O _{7-x} Josephson junctions by metal masked ion damage technique. <i>Applied Physics Letters</i> , 2002 , 80, 814-816	3.4	25

110	Enhanced charge separation of CuS and CdS quantum-dot-cosensitized porous TiO ₂ -based photoanodes for photoelectrochemical water splitting. <i>Ceramics International</i> , 2018 , 44, 3099-3106	5.1	25
109	Ultra-thin and uniform coating of vanadium oxide on multiwall carbon nanotubes through solution based approach for high-performance electrochemical supercapacitors. <i>Electrochimica Acta</i> , 2013 , 111, 400-404	6.7	24
108	Highly efficient oxygen evolution electrocatalysts based on nanosheet-shaped CuS in situ grown on carbon cloth. <i>Ceramics International</i> , 2019 , 45, 10664-10671	5.1	24
107	Controlled assembly for well-defined 3D bioarchitecture using two active enzymes. <i>ACS Nano</i> , 2010 , 4, 1580-6	16.7	23
106	Controlled synthesis of nanoplate, nanoprism and nanopyramid-shaped CdSe decorated on porous TiO ₂ photocatalysts for visible-light-driven hydrogen evolution. <i>Ceramics International</i> , 2018 , 44, 12555-12563	5.1	22
105	Pyramid-like CdS nanoparticles grown on porous TiO ₂ monolith: An advanced photocatalyst for H ₂ production. <i>Electrochimica Acta</i> , 2017 , 250, 99-107	6.7	22
104	Catalyst patterning methods for surface-bound chemical vapor deposition of carbon nanotubes. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 1559-1567	2.6	22
103	MoO ₃ -MWCNT nanocomposite photocatalyst with control of light-harvesting under visible light and natural sunlight irradiation. <i>Journal of Materials Chemistry</i> , 2012 , 22, 20549		21
102	The influence of surface chemical dynamics on electrical and optical properties of ZnO nanowire field effect transistors. <i>Nanotechnology</i> , 2009 , 20, 505202	3.4	21
101	Fabrication of Sub-10 nm Metallic Lines of Low Line-Width Roughness by Hydrogen Reduction of Patterned Metal/Organic Materials. <i>Advanced Functional Materials</i> , 2010 , 20, 2317-2323	15.6	21
100	Ultrasensitive single crystalline TeO ₂ nanowire based hydrogen gas sensors. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 5394-5398	13	20
99	A high-output flexible triboelectric nanogenerator based on polydimethylsiloxane/three-dimensional bilayer graphene/carbon cloth composites. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 17150-17155	13	20
98	Facile synthesis of cactus-shaped CdS-Cu ₉ S ₅ heterostructure on copper foam with enhanced photoelectrochemical performance. <i>Applied Surface Science</i> , 2019 , 492, 849-855	6.7	19
97	Influence of the foundation layer on the layer-by-layer assembly of poly-L-lysine and poly(styrenesulfonate) and its usage in the fabrication of 3D microscale features. <i>Langmuir</i> , 2004 , 20, 9089-94	4	19
96	Photocatalytic properties of shape-controlled ultra-long elemental Te nanowires synthesized via a facile hydrothermal method. <i>Materials Letters</i> , 2014 , 116, 341-344	3.3	18
95	Synthesis of carbon nanostructures with unique morphologies via a reduction-catalysis reaction route. <i>Materials Research Bulletin</i> , 2006 , 41, 1785-1790	5.1	18
94	Control of Multilevel Resistance in Vanadium Dioxide by Electric Field Using Hybrid Dielectrics. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 13571-13576	9.5	17
93	Large-Area High-Quality AB-Stacked Bilayer Graphene on h-BN/Pt Foil by Chemical Vapor Deposition. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 29069-29075	9.5	17

92	Nanoelectromechanical switch with low voltage drive. <i>Applied Physics Letters</i> , 2008 , 93, 113105	3.4	17
91	Electron Beam Nanolithography of β -Ketoester Modified Aluminium Tri-Sec-Butoxide. <i>Journal of Sol-Gel Science and Technology</i> , 2004 , 29, 5-10	2.3	17
90	Growth of Graphene/h-BN Heterostructures on Recyclable Pt Foils by One-Batch Chemical Vapor Deposition. <i>Scientific Reports</i> , 2017 , 7, 17083	4.9	16
89	Realization and properties of MgB ₂ metal-masked ion damage junctions. <i>Applied Physics Letters</i> , 2002 , 81, 3600-3602	3.4	16
88	Nanoflower-like MoS ₂ grown on porous TiO ₂ with enhanced hydrogen evolution activity. <i>Journal of Alloys and Compounds</i> , 2020 , 821, 153203	5.7	16
87	Tailoring Highly Thermal Conductive Properties of Te/MoS ₂ /Ag Heterostructure Nanocomposites Using a Bottom-Up Approach. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800548	6.4	16
86	Low-Programmable-Voltage Nonvolatile Memory Devices Based on Omega-shaped Gate Organic Ferroelectric P(VDF-TrFE) Field Effect Transistors Using p-type Silicon Nanowire Channels. <i>Nano-Micro Letters</i> , 2015 , 7, 35-41	19.5	15
85	High-performance, flexible planar microsupercapacitors based on crosslinked polyaniline using laser printing lithography. <i>Carbon</i> , 2020 , 161, 117-122	10.4	15
84	Oxygen stoichiometry controlled sharp insulator-metal transition in highly oriented VO ₂ /TiO ₂ thin films. <i>Current Applied Physics</i> , 2018 , 18, 652-657	2.6	15
83	Growth of single-crystalline β -Na _{0.33} V ₂ O ₅ nanowires on conducting substrate: A binder-free electrode for energy storage devices. <i>Journal of Power Sources</i> , 2014 , 251, 237-242	8.9	15
82	β -MoO ₃ nanowire-based amperometric biosensor for l-lactate detection. <i>Journal of Solid State Electrochemistry</i> , 2012 , 16, 2197-2201	2.6	15
81	Highly Functional SnO ₂ coated PZT core-shell heterostructures as a visible light photocatalyst for efficient water remediation. <i>Chemical Engineering Journal</i> , 2013 , 225, 650-655	14.7	14
80	Density control of ZnO nanowires grown using Au-PMMA nanoparticles and their growth behavior. <i>Nanotechnology</i> , 2009 , 20, 085601	3.4	14
79	Effect of oxygen content on the structural, transport, and magnetic properties of La _{1-x} Mn _{1-x} O ₃ thin films. <i>Journal of Applied Physics</i> , 1999 , 86, 6327-6330	2.5	14
78	Decorating ZnO nanoflakes on carbon cloth: Free-standing, highly stable lithium-ion battery anodes. <i>Ceramics International</i> , 2019 , 45, 15906-15912	5.1	13
77	CuBi ₂ Se ₆ -based pavonite homologue: a promising thermoelectric material with low lattice thermal conductivity. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 9768	13	13
76	A Nanogripper Employing Aligned Multiwall Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , 2008 , 7, 389-393	2.6	13
75	A High Catalytic Activity Photocatalysts Based on Porous Metal Sulfides/TiO ₂ Heterostructures. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2001627	4.6	13

74	Lithium niobate nanoflakes as electrodes for highly stable electrochemical supercapacitor devices. <i>Materials Letters</i> , 2014 , 119, 84-87	3.3	12
73	A shape-controlled method to functionalize multiwalled carbon nanotubes with Ni ₃ S ₂ . <i>Inorganic Chemistry</i> , 2007 , 46, 10307-11	5.1	12
72	Correlated transport and high resolution transmission electron microscopy investigations on inorganic-filled single-walled carbon nanotubes showing negative differential resistance. <i>Applied Physics Letters</i> , 2007 , 91, 253124	3.4	12
71	Growth and Characterization of BiFeO ₃ Film for Novel Device Applications. <i>Ferroelectrics</i> , 2006 , 333, 157-163	0.6	12
70	Layer by layer assembly of gold nanoparticles and graphene via Langmuir Blodgett method for efficient light-harvesting in photocatalytic applications. <i>Journal of Alloys and Compounds</i> , 2014 , 617, 707-712	5.7	11
69	Ultralow-power non-volatile memory cells based on P(VDF-TrFE) ferroelectric-gate CMOS silicon nanowire channel field-effect transistors. <i>Nanoscale</i> , 2015 , 7, 11660-6	7.7	11
68	Porous WO ₃ monolith-based photoanodes for high-efficient photoelectrochemical water splitting. <i>Ceramics International</i> , 2019 , 45, 7302-7308	5.1	11
67	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
66	Unusual M ²⁺ -mediated metal-insulator transition in epitaxial VO ₂ thin films on GaN substrates. <i>Europhysics Letters</i> , 2015 , 109, 27004	1.6	10
65	Patterned carbon nanotube growth using an electron beam sensitive direct writable catalyst. <i>Nanotechnology</i> , 2009 , 20, 315302	3.4	10
64	Facile synthesis of single crystalline vanadium pentoxide nanowires and their photocatalytic behavior. <i>Materials Letters</i> , 2010 , 64, 2458-2461	3.3	10
63	Phase separation in polyfluorene blends investigated with complementary scanning probe microscopies. <i>Materials Science and Technology</i> , 2002 , 18, 759-762	1.5	10
62	Masked ion damage and implantation for device fabrication. <i>Vacuum</i> , 2002 , 69, 11-15	3.7	9
61	Synthesis of single-crystalline sodium vanadate nanowires based on chemical solution deposition method. <i>Materials Chemistry and Physics</i> , 2015 , 165, 19-24	4.4	8
60	Fabrication of a nano-scale pattern with various functional materials using electrohydrodynamic lithography and functionalization. <i>RSC Advances</i> , 2016 , 6, 5944-5948	3.7	8
59	High performance Si nanowire field-effect-transistors based on a CMOS inverter with tunable threshold voltage. <i>Nanoscale</i> , 2014 , 6, 5479-83	7.7	8
58	Ir/Ag reflector for high-performance GaN-based near UV light emitting diodes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006 , 133, 26-29	3.1	8
57	Single crystalline LiNb ₃ O ₈ nanoflakes for efficient photocatalytic degradation of organic pollutants. <i>RSC Advances</i> , 2014 , 4, 4917	3.7	7

56	Biological functionality of active enzyme structures immobilized on various solid surfaces. <i>Current Applied Physics</i> , 2009 , 9, 1454-1458	2.6	7
55	An innovative scheme for sub-50 nm patterning via electrohydrodynamic lithography. <i>Nanoscale</i> , 2017 , 9, 11881-11887	7.7	6
54	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
53	Synthesis of binary metal phosphides heterostructures as a stable and efficient hydrogen evolution reaction electrocatalyst. <i>Materials Today Communications</i> , 2020 , 25, 101257	2.5	6
52	Facile synthesis of sheet-shaped Co ₂ P grown on carbon cloth as a high-performance electrocatalyst for the hydrogen evolution reaction. <i>Journal of Solid State Electrochemistry</i> , 2018 , 22, 3977-3983	2.6	6
51	Ultrathin Conformal Coating and Zn Doping in Nanocrystalline Mesoporous TiO ₂ Micron-Sized Beads for Highly Efficient Dye Sensitized Solar Cells. <i>Electrochimica Acta</i> , 2015 , 161, 329-334	6.7	5
50	Enhanced photocatalytic activity of sea-urchin-like carbon/ZnO micro/nano heterostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018 , 356, 212-218	4.7	5
49	Nanofabricated SNS junction series arrays in superconductor-normal metal bilayers. <i>Superconductor Science and Technology</i> , 2001 , 14, 1086-1089	3.1	5
48	Interfacial Microenvironment Modulation Enhancing Catalytic Kinetics of Binary Metal Sulfides Heterostructures for Advanced Water Splitting Electrocatalysts.. <i>Small Methods</i> , 2022 , 6, e2101186	12.8	5
47	Enhancing the output power density of polydimethylsiloxane-based flexible triboelectric nanogenerators with ultrathin nickel telluride nanobelts as a co-triboelectric layer. <i>Nano Energy</i> , 2021 , 90, 106536	17.1	5
46	Improving Radio Frequency Transmission Properties of Graphene via Carrier Concentration Control toward High Frequency Transmission Line Applications. <i>Advanced Functional Materials</i> , 2019 , 29, 1808057	15.6	4
45	Non-catalytic and template-free growth of single crystalline copper vanadate nanowires for field emission applications. <i>Materials Chemistry and Physics</i> , 2011 , 131, 184-189	4.4	4
44	Cu ₂ (C ₃ H ₂ N ₃ O ₃) ₂ (C ₁₀ H ₈ N ₂): A Hydrogen-bonded Assemblies Supermolecule Containing 1D Channels and Novel Two-coordinated Linear N-Cu-N Configurations. <i>Chemistry Letters</i> , 2007 , 36, 168-169	1.7	4
43	Controlled-junction superconducting quantum interference device via phonon injection. <i>Applied Physics Letters</i> , 2004 , 84, 136-138	3.4	4
42	Asymmetry modulated SQUIDs made by direct focused ion beam milling. <i>Physica C: Superconductivity and Its Applications</i> , 2002 , 368, 241-245	1.3	4
41	High quality YBa/sub 2/Cu/sub 3/O/sub 7-/spl delta// Josephson junctions and junction arrays fabricated by masked proton beam irradiation damage. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 889-892	1.8	4
40	Facile synthesis of copper sulfides on copper foam as an efficient electrocatalyst for oxygen evolution reaction. <i>Materials Today Communications</i> , 2020 , 25, 101585	2.5	4
39	Geometrically Enhanced Graphene Tunneling Diode With Lateral Nano-Scale Gap. <i>IEEE Electron Device Letters</i> , 2019 , 40, 1840-1843	4.4	3

38	Enhanced critical current density of MgB ₂ thin films deposited at low temperatures by ZnO seed impurity. <i>Current Applied Physics</i> , 2018 , 18, 762-766	2.6	3
37	Ultralow power complementary inverter circuits using axially doped p- and n-channel Si nanowire field effect transistors. <i>Nanoscale</i> , 2016 , 8, 12022-8	7.7	3
36	Spontaneous polymerization of 2-ethynylpyridine with acylated multi-walled carbon nanotubes in supercritical carbon dioxide and their optical and electrochemical performance. <i>Journal of Supercritical Fluids</i> , 2014 , 95, 431-436	4.2	3
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