

# Dae Joon Kang

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

181  
papers

5,805  
citations

43  
h-index

69  
g-index

190  
ext. papers

6,488  
ext. citations

6  
avg, IF

5.95  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 181 | Interfacial Microenvironment Modulation Enhancing Catalytic Kinetics of Binary Metal Sulfides Heterostructures for Advanced Water Splitting Electrocatalysts.. <i>Small Methods</i> , <b>2022</b> , 6, e2101186   | 12.8 | 5         |
| 180 | Strain-dependent phase-change devices based on vanadium dioxide thin films on flexible glass substrates. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 173503   | 3.4  | 1         |
| 179 | Fog Collection Based on Secondary Electrohydrodynamic-Induced Hybrid Structures with Anisotropic Hydrophilicity. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 27575-27585  | 9.5  | 2         |
| 178 | Enhanced AC conductivity and dielectric properties of ultrathin Silver vanadium oxide/aniline nanowires. <i>Materials Letters</i> , <b>2021</b> , 290, 123714   | 3.3  | 1         |
| 177 | A High Catalytic Activity Photocatalysts Based on Porous Metal Sulfides/TiO <sub>2</sub> Heterostructures. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2001627  | 4.6  | 13        |
| 176 | Parametric scheme for rapid nanopattern replication electrohydrodynamic instability.. <i>RSC Advances</i> , <b>2021</b> , 11, 18152-18161   | 3.7  | 1         |
| 175 | Hierarchical porous spinel nickel cobaltite nanoflakes anchored reduced graphene oxide nano-photocatalyst for efficient degradation of organic pollutants under natural sunlight. <i>Journal of Materials Research and Technology</i> , <b>2021</b> , 15, 623-632 | 5.5  | 1         |
| 174 | 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> , <b>2021</b> , 90, 106536                                       | 17.1 | 5         |
| 173 | High-performance, flexible planar microsupercapacitors based on crosslinked polyaniline using laser printing lithography. <i>Carbon</i> , <b>2020</b> , 161, 117-122  | 10.4 | 15        |
| 172 | Ice-Templated MXene/Ag-Epoxy Nanocomposites as High-Performance Thermal Management Materials. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 24298-24307   | 9.5  | 51        |
| 171 | Review on the Recent Advances in Composite Based Highoutput Piezo-Triboelectric Energy Harvesters. <i>Ceramist</i> , <b>2020</b> , 23, 54-88  | 0.3  |           |
| 170 | Synthesis of binary metal phosphides heterostructures as a stable and efficient hydrogen evolution reaction electrocatalyst. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101257   | 2.5  | 6         |
| 169 | Nanoflower-like MoS <sub>2</sub> grown on porous TiO <sub>2</sub> with enhanced hydrogen evolution activity. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 821, 153203   | 5.7  | 16        |
| 168 | Universal 2D material film transfer using a novel low molecular weight polyvinyl acetate. <i>Applied Surface Science</i> , <b>2020</b> , 534, 147650  | 6.7  | 3         |
| 167 | Facile synthesis of copper sulfides on copper foam as an efficient electrocatalyst for oxygen evolution reaction. <i>Materials Today Communications</i> , <b>2020</b> , 25, 101585  | 2.5  | 4         |
| 166 | Flexible single-electrode triboelectric nanogenerators with MXene/PDMS composite film for biomechanical motion sensors. <i>Nano Energy</i> , <b>2020</b> , 78, 105383   | 17.1 | 55        |
| 165 | A high-output flexible triboelectric nanogenerator based on polydimethylsiloxane/three-dimensional bilayer graphene/carbon cloth composites. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 17150-17155   | 13   | 20        |

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|-----|---|------|----|
| 164 | Flexible Supercapacitor-Type Rectifier-free Self-Charging Power Unit Based on a Multifunctional Polyvinylidene Fluoride-ZnO-rGO Piezoelectric Matrix. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 20891-20900   | 9.5  | 27 |
| 163 | Geometrically Enhanced Graphene Tunneling Diode With Lateral Nano-Scale Gap. <i>IEEE Electron Device Letters</i> , <b>2019</b> , 40, 1840-1843  | 4.4  | 3  |
| 162 | Enhanced Interfacial Charge Transfer and Separation Rate based on Sub 10 nm MoS2 Nanoflakes In Situ Grown on Graphitic-C3N4. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1900554  | 4.6  | 29 |
| 161 | Decorating ZnO nanoflakes on carbon cloth: Free-standing, highly stable lithium-ion battery anodes. <i>Ceramics International</i> , <b>2019</b> , 45, 15906-15912   | 5.1  | 13 |
| 160 | Synthesis of porous MoS2/CdSe/TiO2 photoanodes for photoelectrochemical water splitting. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 284, 403-409   | 5.3  | 39 |
| 159 | Radio Frequency Transmission: Improving Radio Frequency Transmission Properties of Graphene via Carrier Concentration Control toward High Frequency Transmission Line Applications (Adv. Funct. Mater. 18/2019). <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1970123 | 15.6 |    |
| 158 | Synthesis and Enhanced Photocatalytic Activity of Porous SrTiO3/TiO2 Composites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2019</b> , 19, 5707-5712   | 1.3  | 2  |
| 157 | Improving Radio Frequency Transmission Properties of Graphene via Carrier Concentration Control toward High Frequency Transmission Line Applications. <i>Advanced Functional Materials</i> , <b>2019</b> , 29, 1808057  | 15.6 | 4  |
| 156 | Enhanced electrochemical performance of porous Co-doped TiO2 nanomaterials prepared by a solvothermal method. <i>Microporous and Mesoporous Materials</i> , <b>2019</b> , 273, 148-155  | 5.3  | 71 |
| 155 | Facile synthesis of cactus-shaped CdS-Cu9S5 heterostructure on copper foam with enhanced photoelectrochemical performance. <i>Applied Surface Science</i> , <b>2019</b> , 492, 849-855  | 6.7  | 19 |
| 154 | CuS Nanosheets Decorated with CoS2 Nanoparticles as an Efficient Electrocatalyst for Enhanced Hydrogen Evolution at All pH Values. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2019</b> , 7, 14016-14022  | 8.3  | 40 |
| 153 | A new achievement [Increased Impact Factor of Current Nanoscience] <i>Current Nanoscience</i> , <b>2019</b> , 15, 548-548   | 1.4  |    |
| 152 | Highly efficient oxygen evolution electrocatalysts based on nanosheet-shaped CuS in situ grown on carbon cloth. <i>Ceramics International</i> , <b>2019</b> , 45, 10664-10671   | 5.1  | 24 |
| 151 | Tailoring Highly Thermal Conductive Properties of Te/MoS2/Ag Heterostructure Nanocomposites Using a Bottom-Up Approach. <i>Advanced Electronic Materials</i> , <b>2019</b> , 5, 1800548   | 6.4  | 16 |
| 150 | Porous WO3 monolith-based photoanodes for high-efficient photoelectrochemical water splitting. <i>Ceramics International</i> , <b>2019</b> , 45, 7302-7308  | 5.1  | 11 |
| 149 | Enhanced critical current density of MgB2 thin films deposited at low temperatures by ZnO seed impurity. <i>Current Applied Physics</i> , <b>2018</b> , 18, 762-766   | 2.6  | 3  |
| 148 | Oxygen stoichiometry controlled sharp insulator-metal transition in highly oriented VO2/TiO2 thin films. <i>Current Applied Physics</i> , <b>2018</b> , 18, 652-657   | 2.6  | 15 |
| 147 | Controlled synthesis of nanoplate, nanoprism and nanopyramid-shaped CdSe decorated on porous TiO2 photocatalysts for visible-light-driven hydrogen evolution. <i>Ceramics International</i> , <b>2018</b> , 44, 12555-12563   | 5.1  | 22 |

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|-----|---|------|----|
| 146 | Enhanced photocatalytic activity of sea-urchin-like carbon/ZnO micro/nano heterostructures. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2018</b> , 356, 212-218   | 4.7  | 5  |
| 145 | Effects of insulating vanadium oxide composite in concomitant mixed phases via interface barrier modulations on the performance improvements in metal-insulator-metal diodes. <i>AIP Advances</i> , <b>2018</b> , 8, 035125   | 1.5  | 1  |
| 144 | Large-Area High-Quality AB-Stacked Bilayer Graphene on h-BN/Pt Foil by Chemical Vapor Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 29069-29075   | 9.5  | 17 |
| 143 | Enhanced Power Output of a Triboelectric Nanogenerator using Poly(dimethylsiloxane) Modified with Graphene Oxide and Sodium Dodecyl Sulfate. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 25283-25272  | 8.5  | 72 |
| 142 | Enhanced charge separation of CuS and CdS quantum-dot-cosensitized porous TiO <sub>2</sub> -based photoanodes for photoelectrochemical water splitting. <i>Ceramics International</i> , <b>2018</b> , 44, 3099-3106   | 5.1  | 25 |
| 141 | Ultrahigh Output Piezoelectric and Triboelectric Hybrid Nanogenerators Based on ZnO Nanoflakes/Polydimethylsiloxane Composite Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 44415-44420  | 9.5  | 36 |
| 140 | Highly Efficient Photocatalysts Based on Lamellar-Shaped Bi <sub>2</sub> S <sub>3</sub> Grown on TiO <sub>2</sub> Monolith. <i>Nano</i> , <b>2018</b> , 13, 1850110   | 1.1  | 2  |
| 139 | Facile synthesis of sheet-shaped Co <sub>2</sub> P grown on carbon cloth as a high-performance electrocatalyst for the hydrogen evolution reaction. <i>Journal of Solid State Electrochemistry</i> , <b>2018</b> , 22, 3977-3983  | 2.6  | 6  |
| 138 | Poly(dimethylsiloxane)/ZnO Nanoflakes/Three-Dimensional Graphene Heterostructures for High-Performance Flexible Energy Harvesters with Simultaneous Piezoelectric and Triboelectric Generation. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 32281-32288 | 9.5  | 44 |
| 137 | A stable and highly efficient visible-light-driven hydrogen evolution porous CdS/WO <sub>3</sub> /TiO <sub>2</sub> photocatalysts. <i>Materials Characterization</i> , <b>2018</b> , 142, 43-49   | 3.9  | 46 |
| 136 | An innovative scheme for sub-50 nm patterning via electrohydrodynamic lithography. <i>Nanoscale</i> , <b>2017</b> , 9, 11881-11887  | 7.7  | 6  |
| 135 | Control of Multilevel Resistance in Vanadium Dioxide by Electric Field Using Hybrid Dielectrics. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 13571-13576   | 9.5  | 17 |
| 134 | Pyramid-like CdS nanoparticles grown on porous TiO <sub>2</sub> monolith: An advanced photocatalyst for H <sub>2</sub> production. <i>Electrochimica Acta</i> , <b>2017</b> , 250, 99-107   | 6.7  | 22 |
| 133 | Well-designed Te/SnS <sub>2</sub> /Ag artificial nanoleaves for enabling and enhancing visible-light driven overall splitting of pure water. <i>Nano Energy</i> , <b>2017</b> , 39, 539-545   | 17.1 | 53 |
| 132 | Growth of Graphene/h-BN Heterostructures on Recyclable Pt Foils by One-Batch Chemical Vapor Deposition. <i>Scientific Reports</i> , <b>2017</b> , 7, 17083  | 4.9  | 16 |
| 131 | Synthesis of ultra-thin tellurium nanoflakes on textiles for high-performance flexible and wearable nanogenerators. <i>Applied Surface Science</i> , <b>2017</b> , 392, 1055-1061   | 6.7  | 31 |
| 130 | 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> , <b>2016</b> , 6, 33096  | 4.9  | 56 |
| 129 | Ultralow power complementary inverter circuits using axially doped p- and n-channel Si nanowire field effect transistors. <i>Nanoscale</i> , <b>2016</b> , 8, 12022-8   | 7.7  | 3  |

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|-----|---|------|----|
| 128 | Fabrication of a nano-scale pattern with various functional materials using electrohydrodynamic lithography and functionalization. <i>RSC Advances</i> , <b>2016</b> , 6, 5944-5948   | 3.7  | 8  |
| 127 | Molybdenum Disulfide Nanosheets Interconnected Nitrogen-Doped Reduced Graphene Oxide Hydrogel: A High-Performance Heterostructure for Lithium-Ion Batteries. <i>Electrochimica Acta</i> , <b>2016</b> , 193, 128-136                              | 6.7  | 30 |
| 126 | Flexible, transparent and exceptionally high power output nanogenerators based on ultrathin ZnO nanoflakes. <i>Nanoscale</i> , <b>2016</b> , 8, 5059-66   | 7.7  | 30 |
| 125 | Investigation of thioglycerol stabilized ZnS quantum dots in electroluminescent device performance <b>2016</b> ,  |      | 1  |
| 124 | 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> , <b>2015</b> , 280, 39-46      | 8.9  | 42 |
| 123 | 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> , <b>2015</b> , 7, 35-41              | 19.5 | 15 |
| 122 | Ultrathin Conformal Coating and Zn Doping in Nanocrystalline Mesoporous TiO <sub>2</sub> Micron-Sized Beads for Highly Efficient Dye Sensitized Solar Cells. <i>Electrochimica Acta</i> , <b>2015</b> , 161, 329-334                              | 6.7  | 5  |
| 121 | Synthesis of single-crystalline sodium vanadate nanowires based on chemical solution deposition method. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 165, 19-24   | 4.4  | 8  |
| 120 | Ultralow-power non-volatile memory cells based on P(VDF-TrFE) ferroelectric-gate CMOS silicon nanowire channel field-effect transistors. <i>Nanoscale</i> , <b>2015</b> , 7, 11660-6  | 7.7  | 11 |
| 119 | Unusual M <sup>2+</sup> -mediated metal-insulator transition in epitaxial VO <sub>2</sub> thin films on GaN substrates. <i>Europhysics Letters</i> , <b>2015</b> , 109, 27004   | 1.6  | 10 |
| 118 | Mesoporous TiO <sub>2</sub> Spheres interconnected by multiwalled carbon nanotubes as an anode for high-performance lithium ion batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 3676-83                               | 9.5  | 47 |
| 117 | Growth of ultra-uniform graphene using a Ni/W bilayer metal catalyst. <i>Applied Physics Letters</i> , <b>2015</b> , 106, 043110  | 3.4  | 2  |
| 116 | Ultrasensitive single crystalline TeO <sub>2</sub> nanowire based hydrogen gas sensors. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 5394-5398  | 13   | 20 |
| 115 | Layer by layer assembly of ultrathin VO <sub>2</sub> anchored MWCNTs and graphene on textile fabrics for fabrication of high energy density flexible supercapacitor electrodes. <i>Nanoscale</i> , <b>2014</b> , 6, 4125-30                       | 7.7  | 72 |
| 114 | Ultra-thin Solution-based coating of Molybdenum Oxide on Multiwall Carbon Nanotubes for High-performance Supercapacitor Electrodes. <i>Electrochimica Acta</i> , <b>2014</b> , 118, 138-142   | 6.7  | 34 |
| 113 | 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> , <b>2014</b> , 6, 2434-9 | 7.7  | 44 |
| 112 | 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> , <b>2014</b> , 95, 431-436 | 4.2  | 3  |
| 111 | Highly efficient photoelectrochemical response by sea-urchin shaped ZnO/TiO <sub>2</sub> nano/micro hybrid heterostructures co-sensitized with CdS/CdSe. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 6474-6479                     | 13   | 34 |

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| 110 | High performance Si nanowire field-effect-transistors based on a CMOS inverter with tunable threshold voltage. <i>Nanoscale</i> , <b>2014</b> , 6, 5479-83  | 7.7  | 8   |
| 109 | Tunable threshold voltage of an n-type Si nanowire ferroelectric-gate field effect transistor for high-performance nonvolatile memory applications. <i>Nanotechnology</i> , <b>2014</b> , 25, 205201                              | 3.4  | 10  |
| 108 | Single crystalline LiNb3O8 nanoflakes for efficient photocatalytic degradation of organic pollutants. <i>RSC Advances</i> , <b>2014</b> , 4, 4917   | 3.7  | 7   |
| 107 | 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> , <b>2014</b> , 617, 707-712        | 5.7  | 11  |
| 106 | Conformal coating of ultrathin Ni(OH) <sub>2</sub> on ZnO nanowires grown on textile fiber for efficient flexible energy storage devices. <i>RSC Advances</i> , <b>2014</b> , 4, 6324   | 3.7  | 36  |
| 105 | Growth of single-crystalline Na <sub>0.33</sub> V <sub>2</sub> O <sub>5</sub> nanowires on conducting substrate: A binder-free electrode for energy storage devices. <i>Journal of Power Sources</i> , <b>2014</b> , 251, 237-242 | 8.9  | 15  |
| 104 | Synthesis of TeO <sub>2</sub> nanowires via a facile thermal oxidation method. <i>Crystal Research and Technology</i> , <b>2014</b> , 49, 400-404   | 1.3  | 2   |
| 103 | Lithium niobate nanoflakes as electrodes for highly stable electrochemical supercapacitor devices. <i>Materials Letters</i> , <b>2014</b> , 119, 84-87  | 3.3  | 12  |
| 102 | Photocatalytic properties of shape-controlled ultra-long elemental Te nanowires synthesized via a facile hydrothermal method. <i>Materials Letters</i> , <b>2014</b> , 116, 341-344   | 3.3  | 18  |
| 101 | Hybrid energy harvester based on nanopillar solar cells and PVDF nanogenerator. <i>Nanotechnology</i> , <b>2013</b> , 24, 175402  | 3.4  | 34  |
| 100 | Ultrafast and low temperature laser annealing for crystalline TiO <sub>2</sub> nanostructures patterned by electro-hydrodynamic lithography. <i>Applied Physics Letters</i> , <b>2013</b> , 103, 053114                           | 3.4  | 6   |
| 99  | 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> , <b>2013</b> , 111, 400-404      | 6.7  | 24  |
| 98  | Highly functional SnO <sub>2</sub> coated PZT core-shell heterostructures as a visible light photocatalyst for efficient water remediation. <i>Chemical Engineering Journal</i> , <b>2013</b> , 225, 650-655                      | 14.7 | 14  |
| 97  | Cu <sub>2</sub> Bi <sub>2</sub> Be-based pavonite homologue: a promising thermoelectric material with low lattice thermal conductivity. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9768                           | 13   | 13  |
| 96  | A facile sol-gel method for synthesis of porous Nd-doped TiO <sub>2</sub> monolith with enhanced photocatalytic activity under UV-vis irradiation. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 182, 87-94         | 5.3  | 30  |
| 95  | A template method for synthesis of porous Sn-doped TiO <sub>2</sub> monolith and its enhanced photocatalytic activity. <i>Materials Letters</i> , <b>2013</b> , 93, 419-422   | 3.3  | 30  |
| 94  | Growth of high-crystalline, single-layer hexagonal boron nitride on recyclable platinum foil. <i>Nano Letters</i> , <b>2013</b> , 13, 1834-9  | 11.5 | 278 |
| 93  | Tin oxide coating on molybdenum oxide nanowires for high performance supercapacitor devices. <i>Electrochimica Acta</i> , <b>2012</b> , 72, 134-137   | 6.7  | 46  |

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| 92 | Field emission study of strain controlled ZnO nanowire arrays via a hydrothermal technique <b>2012</b> ,   |      | 1   |
| 91 | Fabrication of an inorganic nano structure for a large area via electrohydrodynamic lithography (EHL). <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 5307-12                        | 1.3  | 3   |
| 90 | Reversibly light-modulated dirac point of graphene functionalized with spiropyran. <i>ACS Nano</i> , <b>2012</b> , 6, 9207-13  | 16.7 | 72  |
| 89 | MoO <sub>3</sub> -MWCNT nanocomposite photocatalyst with control of light-harvesting under visible light and natural sunlight irradiation. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 20549 |      | 21  |
| 88 | Constructing LBL-assembled functional bio-architecture using gold nanorods for lactate detection. <i>Materials Research Bulletin</i> , <b>2012</b> , 47, 3056-3060   | 5.1  | 3   |
| 87 | Design and evaluation of novel Zn doped mesoporous TiO <sub>2</sub> based anode material for advanced lithium ion batteries. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 17625               |      | 77  |
| 86 | Stress-induced domain dynamics and phase transitions in epitaxially grown VO nanowires. <i>Nanotechnology</i> , <b>2012</b> , 23, 205707   | 3.4  | 27  |
| 85 | Synthesis and characterization of CuO nanowires by a simple wet chemical method. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 70   | 5    | 250 |
| 84 | MoO <sub>3</sub> nanowire-based amperometric biosensor for l-lactate detection. <i>Journal of Solid State Electrochemistry</i> , <b>2012</b> , 16, 2197-2201   | 2.6  | 15  |
| 83 | Parameter optimization for positive dielectrophoretic trapping force on ZnO nanoparticles through simulation. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2012</b> , 12, 1152-6                  | 1.3  |     |
| 82 | Controlled synthesis of anatase TiO <sub>2</sub> nano-octahedra and nanospheres: shape-dependent effects on the optical and electrochemical properties. <i>CrystEngComm</i> , <b>2011</b> , 13, 4270       | 3.3  | 25  |
| 81 | Non-catalytic and template-free growth of single crystalline copper vanadate nanowires for field emission applications. <i>Materials Chemistry and Physics</i> , <b>2011</b> , 131, 184-189                | 4.4  | 4   |
| 80 | Ultrahigh-energy and stable supercapacitors based on intertwined porous MoO <sub>3</sub> /MWCNT nanocomposites. <i>Electrochimica Acta</i> , <b>2011</b> , 58, 76-80                                       | 6.7  | 67  |
| 79 | Controlled assembly for well-defined 3D bioarchitecture using two active enzymes. <i>ACS Nano</i> , <b>2010</b> , 4, 1580-6  | 16.7 | 23  |
| 78 | MoO <sub>3</sub> and Cu <sub>0.33</sub> MoO <sub>3</sub> nanorods for unprecedented UV/Visible light photocatalysis. <i>Chemical Communications</i> , <b>2010</b> , 46, 4324-6                             | 5.8  | 59  |
| 77 | Facile synthesis of core-shell SnO <sub>2</sub> /V <sub>2</sub> O <sub>5</sub> nanowires and their efficient photocatalytic property. <i>Materials Chemistry and Physics</i> , <b>2010</b> , 124, 619-622  | 4.4  | 59  |
| 76 | Facile synthesis of single crystalline vanadium pentoxide nanowires and their photocatalytic behavior. <i>Materials Letters</i> , <b>2010</b> , 64, 2458-2461  | 3.3  | 10  |
| 75 | Fabrication of Sub-10 nm Metallic Lines of Low Line-Width Roughness by Hydrogen Reduction of Patterned MetalOrganic Materials. <i>Advanced Functional Materials</i> , <b>2010</b> , 20, 2317-2323          | 15.6 | 21  |

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|----|--|------|-----|
| 74 | Structural and electrochemical characterization of $\text{HfMoO}_3$ nanorod-based electrochemical energy storage devices. <i>Electrochimica Acta</i> , <b>2010</b> , 56, 376-380                                   | 6.7  | 117 |
| 73 | Functional CuO Nanowire Bundle Growth on ITO from a Novel Spin Coatable Seed Layer and Electrochemical Route. <i>Journal of the Korean Physical Society</i> , <b>2010</b> , 56, 1504-1508                          | 0.6  | 2   |
| 72 | The influence of surface chemical dynamics on electrical and optical properties of ZnO nanowire field effect transistors. <i>Nanotechnology</i> , <b>2009</b> , 20, 505202   | 3.4  | 21  |
| 71 | Density control of ZnO nanowires grown using Au-PMMA nanoparticles and their growth behavior. <i>Nanotechnology</i> , <b>2009</b> , 20, 085601   | 3.4  | 14  |
| 70 | Biological functionality of active enzyme structures immobilized on various solid surfaces. <i>Current Applied Physics</i> , <b>2009</b> , 9, 1454-1458  | 2.6  | 7   |
| 69 | Patterned carbon nanotube growth using an electron beam sensitive direct writable catalyst. <i>Nanotechnology</i> , <b>2009</b> , 20, 315302   | 3.4  | 10  |
| 68 | Flickering analysis of erythrocyte mechanical properties: dependence on oxygenation level, cell shape, and hydration level. <i>Biophysical Journal</i> , <b>2009</b> , 97, 1606-15                                 | 2.9  | 61  |
| 67 | A Controlled Method to Synthesize Hybrid $\text{In}_2\text{O}_3/\text{Ag}$ Nanochains and Nanoparticles: Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 9998-10004 | 3.8  | 31  |
| 66 | Surface-stress-induced Mott transition and nature of associated spatial phase transition in single crystalline $\text{VO}_2$ nanowires. <i>Nano Letters</i> , <b>2009</b> , 9, 3392-7                              | 11.5 | 132 |
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| 60 | A Nanogripper Employing Aligned Multiwall Carbon Nanotubes. <i>IEEE Nanotechnology Magazine</i> , <b>2008</b> , 7, 389-393   | 2.6  | 13  |
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| 53 | 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> , <b>2007</b> , 91, 253124   | 3.4  | 12  |
| 52 | Cu <sub>2</sub> (C <sub>3</sub> H <sub>2</sub> N <sub>3</sub> O <sub>3</sub> ) <sub>2</sub> (C <sub>10</sub> H <sub>8</sub> N <sub>2</sub> ): A Hydrogen-bonded Assemblies Supermolecule Containing 1D Channels and Novel Two-coordinated Linear Ni <sub>2</sub> Configurations. <i>Chemistry Letters</i> , <b>2007</b> , 36, 168-169 | 1.7  | 4   |
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