# Dong Ha Kim

## List of Publications by Citations



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|---|---|---|---|
| 230 papers | 12,719 citations | 51 h-index | 108 g-index |
| 244 ext. papers | 14,198 ext. citations | 9.3 avg, IF | 6.64 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 230 | Perovskite energy funnels for efficient light-emitting diodes. *Nature Nanotechnology*, **2016**, 11, 872-877 | 28.7 | 1484 |
| 229 | Ligand-Stabilized Reduced-Dimensionality Perovskites. *Journal of the American Chemical Society*, **2016**, 138, 2649-55 | 16.4 | 889 |
| 228 | Perovskite-fullerene hybrid materials suppress hysteresis in planar diodes. *Nature Communications*, **2015**, 6, 7081 | 17.4 | 815 |
| 227 | Highly Efficient Perovskite-Quantum-Dot Light-Emitting Diodes by Surface Engineering. *Advanced Materials*, **2016**, 28, 8718-8725 | 24 | 700 |
| 226 | Perovskite-based photodetectors: materials and devices. *Chemical Society Reviews*, **2017**, 46, 5204-5236 | 58.5 | 498 |
| 225 | A study on the mechanism for the interaction of light with noble metal-metal oxide semiconductor nanostructures for various photophysical applications. *Chemical Society Reviews*, **2013**, 42, 8467-93 | 58.5 | 439 |
| 224 | Tailoring the Energy Landscape in Quasi-2D Halide Perovskites Enables Efficient Green-Light Emission. *Nano Letters*, **2017**, 17, 3701-3709 | 11.5 | 309 |
| 223 | Plasmonic Solar Cells: From Rational Design to Mechanism Overview. *Chemical Reviews*, **2016**, 116, 14982-15034 | 58.5 | 450 |
| 222 | A Simple Route to Metal Nanodots and Nanoporous Metal Films. *Nano Letters*, **2002**, 2, 933-936 | 11.5 | 221 |
| 221 | Surface-Plasmon-Induced Visible Light Photocatalytic Activity of TiO2 Nanospheres Decorated by Au Nanoparticles with Controlled Configuration. *Journal of Physical Chemistry C*, **2012**, 116, 2500-2506 | 3.8 | 219 |
| 220 | A Rapid Route to Arrays of Nanostructures in Thin Films. *Advanced Materials*, **2002**, 14, 1373-1376 | 24 | 217 |
| 219 | Sulfur-doped graphene as a potential alternative metal-free electrocatalyst and Pt-catalyst supporting material for oxygen reduction reaction. *Physical Chemistry Chemical Physics*, **2014**, 16, 103-9 | 3.6 | 185 |
| 218 | A Route to Nanoscopic SiO2 Posts via Block Copolymer Templates. *Advanced Materials*, **2001**, 13, 795-797 | 24 | 170 |
| 217 | Biomineralized N-doped CNT/TiO2 core/shell nanowires for visible light photocatalysis. *ACS Nano*, **2012**, 6, 935-43 | 16.7 | 167 |
| 216 | Enriched photoelectrocatalytic degradation and photoelectric performance of BiOI photoelectrode by coupling rGO. *Applied Catalysis B: Environmental*, **2017**, 208, 22-34 | 21.8 | 156 |
| 215 | An unconventional route to high-efficiency dye-sensitized solar cells via embedding graphitic thin films into TiO2 nanoparticle photoanode. *Nano Letters*, **2012**, 12, 479-85 | 11.5 | 142 |
| 214 | From CO methanation to ambitious long-chain hydrocarbons: alternative fuels paving the path to sustainability. *Chemical Society Reviews*, **2019**, 48, 205-259 | 58.5 | 131 |

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| 213 | Enhancement in the Orientation of the Microdomain in Block Copolymer Thin Films upon the Addition of Homopolymer. *Advanced Materials*, **2004**, 16, 533-536 | 24 | 126 |
| 212 | Nanostructured gold films for SERS by block copolymer-templated galvanic displacement reactions. *Nano Letters*, **2009**, 9, 2384-9 | 11.5 | 125 |
| 211 | One-step route to the fabrication of highly porous polyaniline nanofiber films by using PS-b-PVP diblock copolymers as templates. *Langmuir*, **2005**, 21, 9393-7 | 4 | 118 |
| 210 | Inorganic Nanodots from Thin Films of Block Copolymers. *Nano Letters*, **2004**, 4, 1841-1844 | 11.5 | 112 |
| 209 | Plasmon-Sensitized Graphene/TiO Inverse Opal Nanostructures with Enhanced Charge Collection Efficiency for Water Splitting. *ACS Applied Materials & Interfaces*, **2017**, 9, 7075-7083 | 9.5 | 108 |
| 208 | Ordered arrays of -oriented silicon nanorods by CMOS-compatible block copolymer lithography. *Nano Letters*, **2007**, 7, 1516-20 | 11.5 | 104 |
| 207 | High-Performance Flexible Photodetectors based on High-Quality Perovskite Thin Films by a Vapor-Solution Method. *Advanced Materials*, **2017**, 29, 1703256 | 24 | 96 |
| 206 | Near-infrared light-responsive nanomaterials for cancer theranostics. *Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology*, **2016**, 8, 23-45 | 9.2 | 95 |
| 205 | Plasmonic dye-sensitized solar cells incorporated with Au-TiO nanostructures with tailored configurations. *Nanoscale*, **2014**, 6, 1823-32 | 7.7 | 94 |
| 204 | Morphologies in solvent-annealed thin films of symmetric diblock copolymer. *Journal of Chemical Physics*, **2006**, 125, 64702 | 3.9 | 86 |
| 203 | Formation of dendrimer nanotubes by layer-by-layer deposition. *Small*, **2005**, 1, 99-102 | 11 | 84 |
| 202 | Volume Contractions Induced by Crosslinking: A Novel Route to Nanoporous Polymer Films. *Advanced Materials*, **2003**, 15, 1247-1250 | 24 | 81 |
| 201 | Precise Control of Nanopore Size in Thin Film Using Mixtures of Asymmetric Block Copolymer and Homopolymer. *Macromolecules*, **2003**, 36, 10126-10129 | 5.5 | 81 |
| 200 | Novel bi-nuclear boron complex with pyrene ligand: red-light emitting as well as electron transporting material in organic light-emitting diodes. *Organic Letters*, **2010**, 12, 1272-5 | 6.2 | 80 |
| 199 | Surface plasmon resonance mediated photoluminescence properties of nanostructured multicomponent fluorophore systems. *Nanoscale*, **2014**, 6, 4966-84 | 7.7 | 79 |
| 198 | On the synergistic coupling properties of composite CdS/TiO2 nanoparticle arrays confined in nanopatterned hybrid thin films. *Journal of Materials Chemistry*, **2010**, 20, 677-682 | | 77 |
| 197 | Apertureless near-field vibrational imaging of block-copolymer nanostructures with ultrahigh spatial resolution. *ChemPhysChem*, **2005**, 6, 2197-203 | 3.2 | 77 |
| 196 | Organic–inorganic Nanohybridization by Block Copolymer Thin Films. *Advanced Functional Materials* , **2005**, 15, 1160-1164 | 15.6 | 76 |

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| 195 | A two-step route to planar perovskite cells exhibiting reduced hysteresis. *Applied Physics Letters*, **2015**, 106, 143902 | 3.4 | 74 |
| 194 | Spatial charge separation on strongly coupled 2D-hybrid of rGO/La2Ti2O7/NiFe-LDH heterostructures for highly efficient noble metal free photocatalytic hydrogen generation. *Applied Catalysis B: Environmental*, **2018**, 239, 178-186 | 21.8 | 73 |
| 193 | Synthesis and photoluminescence of titania nanoparticle arrays templated by block-copolymer thin films. *ChemPhysChem*, **2006**, 7, 370-8 | 3.2 | 72 |
| 192 | High-density arrays of titania nanoparticles using monolayer micellar films of diblock copolymers as templates. *Langmuir*, **2005**, 21, 5212-7 | 4 | 68 |
| 191 | Visible light active photocatalysis on block copolymer induced strings of ZnO nanoparticles doped with carbon. *Journal of Materials Chemistry A*, **2013**, 1, 898-905 | 13 | 67 |
| 190 | High-Performance UV□Vis□NIR Phototransistors Based on Single-Crystalline Organic Semiconductor□Gold Hybrid Nanomaterials. *Advanced Functional Materials*, **2017**, 27, 1604528 | 15.6 | 65 |
| 189 | Gold-based hybrid nanomaterials for biosensing and molecular diagnostic applications. *Biosensors and Bioelectronics*, **2016**, 80, 543-559 | 11.8 | 65 |
| 188 | Carbon-deposited TiO2 3D inverse opal photocatalysts: visible-light photocatalytic activity and enhanced activity in a viscous solution. *ACS Applied Materials & Interfaces*, **2013**, 5, 12526-32 | 9.5 | 63 |
| 187 | Hierarchical Porous Carbonized Co3O4 Inverse Opals via Combined Block Copolymer and Colloid Templating as Bifunctional Electrocatalysts in Li□O2 Battery. *Advanced Energy Materials*, **2017**, 7, 1700391 | 21.8 | 61 |
| 186 | Self-assembly of Protein Nanoarrays on Block Copolymer Templates. *Advanced Functional Materials* , **2008**, 18, 3148-3157 | 15.6 | 56 |
| 185 | On the Replication of Block Copolymer Templates by Poly(dimethylsiloxane) Elastomers. *Advanced Materials*, **2003**, 15, 811-814 | 24 | 56 |
| 184 | Fe-N4 complex embedded free-standing carbon fabric catalysts for higher performance ORR both in alkaline & acidic media. *Nano Energy*, **2019**, 56, 524-530 | 17.1 | 56 |
| 183 | Growth of Silicon Oxide in Thin Film Block Copolymer Scaffolds. *Advanced Materials*, **2004**, 16, 702-706 | 24 | 55 |
| 182 | Assembly and mechanical properties of phosphorus dendrimer/polyelectrolyte multilayer microcapsules. *Langmuir*, **2005**, 21, 7200-6 | 4 | 52 |
| 181 | Systematic study on the sensitivity enhancement in graphene plasmonic sensors based on layer-by-layer self-assembled graphene oxide multilayers and their reduced analogues. *ACS Applied Materials & Interfaces*, **2015**, 7, 144-51 | 9.5 | 51 |
| 180 | Soft-template-carbonization route to highly textured mesoporous carbon-TiO□inverse opals for efficient photocatalytic and photoelectrochemical applications. *Physical Chemistry Chemical Physics*, **2014**, 16, 9023-30 | 3.6 | 51 |
| 179 | Enhanced photocatalytic activity of C, F-codoped TiO2 loaded with AgCl. *Journal of Alloys and Compounds*, **2013**, 560, 20-26 | 5.7 | 50 |
| 178 | Development of Nanodomain and Fractal Morphologies in Solvent Annealed Block Copolymer Thin Films. *Macromolecular Rapid Communications*, **2007**, 28, 1422-1428 | 4.8 | 50 |

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| 177 | Plasmon-Mediated Electrocatalysis for Sustainable Energy: From Electrochemical Conversion of Different Feedstocks to Fuel Cell Reactions. *ACS Energy Letters*, **2018**, 3, 1415-1433 | 20.1 | 49 |
| 176 | Composite hollow nanostructures composed of carbon-coated Ti3+ self-doped TiO2-reduced graphene oxide as an efficient electrocatalyst for oxygen reduction. *Journal of Materials Chemistry A*, **2017**, 5, 7072-7080 | 13 | 48 |
| 175 | Surface-plasmon-enhanced band emission of ZnO nanoflowers decorated with Au nanoparticles. *Chemistry - A European Journal*, **2012**, 18, 7467-72 | 4.8 | 48 |
| 174 | Nanopatterned carbon films with engineered morphology by direct carbonization of UV-stabilized block copolymer films. *Nano Letters*, **2008**, 8, 3993-7 | 11.5 | 48 |
| 173 | Synergistically enhanced photocatalytic activity of graphitic carbon nitride and WO3 nanohybrids mediated by photo-Fenton reaction and H2O2. *Applied Catalysis B: Environmental*, **2017**, 206, 263-270 | 21.8 | 47 |
| 172 | Toward an Effective Control of the H2 to CO Ratio of Syngas through CO2 Electroreduction over Immobilized Gold Nanoparticles on Layered Titanate Nanosheets. *ACS Catalysis*, **2018**, 8, 4364-4374 | 13.1 | 46 |
| 171 | Divalent Fe Atom Coordination in Two-Dimensional Microporous Graphitic Carbon Nitride. *ACS Applied Materials & Interfaces*, **2016**, 8, 25438-43 | 9.5 | 46 |
| 170 | One step route to the fabrication of arrays of TiO nanobowls via a complementary block copolymer templating and sol-gel process. *Soft Matter*, **2008**, 4, 515-521 | 3.6 | 45 |
| 169 | Visible-light active nanohybrid TiO2/carbon photocatalysts with programmed morphology by direct carbonization of block copolymer templates. *Green Chemistry*, **2011**, 13, 3397 | 10 | 44 |
| 168 | Flexible Nonvolatile Transistor Memory with Solution-Processed Transition Metal Dichalcogenides. *Small*, **2017**, 13, 1603971 | 11 | 43 |
| 167 | Thin Films of Block Copolymers as Planar Optical Waveguides. *Advanced Materials*, **2005**, 17, 2442-2446 | 24 | 41 |
| 166 | Synergistic Nanozymetic Activity of Hybrid Gold Bipyramid-Molybdenum Disulfide Core@Shell Nanostructures for Two-Photon Imaging and Anticancer Therapy. *ACS Applied Materials & Interfaces*, **2018**, 10, 42068-42076 | 9.5 | 39 |
| 165 | Configuration-controlled Au nanocluster arrays on inverse micelle nano-patterns: versatile platforms for SERS and SPR sensors. *Nanoscale*, **2013**, 5, 12261-71 | 7.7 | 38 |
| 164 | Revolutionizing the FRET-based light emission in core-shell nanostructures via comprehensive activity of surface plasmons. *Scientific Reports*, **2014**, 4, 4735 | 4.9 | 38 |
| 163 | Synthesis and photocatalytic properties of hierarchical metal nanoparticles/ZnO thin films hetero nanostructures assisted by diblock copolymer inverse micellar nanotemplates. *Journal of Colloid and Interface Science*, **2010**, 345, 125-30 | 9.3 | 38 |
| 162 | Morphology change of asymmetric diblock copolymer micellar films during solvent annealing. *Polymer*, **2007**, 48, 2434-2443 | 3.9 | 38 |
| 161 | Transparent, Low-Electric-Resistance Nanocomposites of Self-Assembled Block Copolymers and SWNTs. *Advanced Materials*, **2008**, 20, 1505-1510 | 24 | 38 |
| 160 | Non-Volatile ReRAM Devices Based on Self-Assembled Multilayers of Modified Graphene Oxide 2D Nanosheets. *Small*, **2016**, 12, 6167-6174 | 11 | 37 |

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| 159 | Localized surface plasmon resonance coupling in Au nanoparticles/phosphorus dendrimer multilayer thin films fabricated by layer-by-layer self-assembly method. *Journal of Materials Chemistry*, **2009**, 19, 2006 | | 36 |
| 158 | Enhancing Solar Light-Driven Photocatalytic Activity of Mesoporous Carbon□TiO2 Hybrid Films via Upconversion Coupling. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 1310-1317 | 8.3 | 36 |
| 157 | Tunable Surface Plasmon Band of Position Selective Ag and Au Nanoparticles in Thin Block Copolymer Micelle Films. *Chemistry of Materials*, **2009**, 21, 4248-4255 | 9.6 | 35 |
| 156 | An optical waveguide study on the nanopore formation in block copolymer/homopolymer thin films by selective solvent swelling. *Journal of Physical Chemistry B*, **2006**, 110, 15381-8 | 3.4 | 34 |
| 155 | Plasmonic Hot Carriers Imaging: Promise and Outlook. *ACS Photonics*, **2018**, 5, 4711-4723 | 6.3 | 34 |
| 154 | Grafting poly(4-vinylpyridine) onto gold nanorods toward functional plasmonic core□shell nanostructures. *Journal of Materials Chemistry*, **2011**, 21, 16453 | | 33 |
| 153 | Interfacial engineering of a ZnO electron transporting layer using self-assembled monolayers for high performance and stable perovskite solar cells. *Journal of Materials Chemistry A*, **2020**, 8, 2105-2113 | 13 | 33 |
| 152 | Modulation of protein-surface interactions on nanopatterned polymer films. *Biomacromolecules*, **2009**, 10, 1061-6 | 6.9 | 32 |
| 151 | High-temperature resistant, ordered gold nanoparticle arrays. *Nanotechnology*, **2006**, 17, 2122-2126 | 3.4 | 32 |
| 150 | One-Step All-Solution-Based Au□O Core□hell Nanosphere Active Layers in Nonvolatile ReRAM Devices. *Advanced Functional Materials*, **2017**, 27, 1604604 | 15.6 | 31 |
| 149 | Plasmonic Periodic Nanodot Arrays via Laser Interference Lithography for Organic Photovoltaic Cells with >10% Efficiency. *ACS Nano*, **2016**, 10, 10143-10151 | 16.7 | 31 |
| 148 | Plasmonic-coupling-based sensing by the assembly and disassembly of dipycolylamine-tagged gold nanoparticles induced by complexing with cations and anions. *Small*, **2012**, 8, 1442-8 | 11 | 31 |
| 147 | Enhanced Photophysical Properties of Nanopatterned Titania Nanodots/Nanowires upon Hybridization with Silica via Block Copolymer Templated Sol-Gel Process. *Polymers*, **2010**, 2, 490-504 | 4.5 | 31 |
| 146 | Self-powered reduced-dimensionality perovskite photodiodes with controlled crystalline phase and improved stability. *Nano Energy*, **2019**, 57, 761-770 | 17.1 | 31 |
| 145 | Unprecedentedly high indoor performance (efficiency > 34 %) of perovskite photovoltaics with controlled bromine doping. *Nano Energy*, **2020**, 75, 104984 | 17.1 | 30 |
| 144 | Perovskite□old Nanorod Hybrid Photodetector with High Responsivity and Low Driving Voltage. *Advanced Optical Materials*, **2018**, 6, 1701397 | 8.1 | 30 |
| 143 | Bimetallic multifunctional core@shell plasmonic nanoparticles for localized surface plasmon resonance based sensing and electrocatalysis. *Analytical Chemistry*, **2012**, 84, 6494-500 | 7.8 | 30 |
| 142 | Efficient photocatalytic hybrid Ag/TiO2 nanodot arrays integrated into nanopatterned block copolymer thin films. *New Journal of Chemistry*, **2009**, 33, 2431 | 3.6 | 29 |

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| 141 | Bioactive multilayer thin films of charged N,N-disubstituted hydrazine phosphorus dendrimers fabricated by layer-by-layer self-assembly. *Thin Solid Films*, **2008**, 516, 1256-1264 | 2.2 | 28 |
| 140 | Comprehensive Study on the Controlled Plasmon-Enhanced Photocatalytic Activity of Hybrid Au/ZnO Systems Mediated by Thermoresponsive Polymer Linkers. *ACS Applied Materials & Interfaces*, **2015**, 7, 21073-81 | 9.5 | 27 |
| 139 | ZnO nanorods/Pt and ZnO nanorods/Ag heteronanostructure arrays with enhanced photocatalytic degradation of dyes. *RSC Advances*, **2014**, 4, 59009-59016 | 3.7 | 27 |
| 138 | A versatile approach to the fabrication of TiO2nanostructures with reverse morphology and mesoporous Ag/TiO2 thin films via cooperative PS-b-PEO self-assembly and a sol-gel process. *Journal of Materials Chemistry*, **2009**, 19, 7245 | | 27 |
| 137 | Toward high efficiency organic photovoltaic devices with enhanced thermal stability utilizing P3HT-b-P3PHT block copolymer additives. *Journal of Materials Chemistry A*, **2016**, 4, 18432-18443 | 13 | 26 |
| 136 | Fabrication of Au/Titania Composite Nanodot Arrays from Au-Loaded Block Copolymer Micellar Films. *Macromolecular Rapid Communications*, **2005**, 26, 1173-1178 | 4.8 | 26 |
| 135 | Interrogation of Folic Acid-Functionalized Nanomedicines: The Regulatory Roles of Plasma Proteins Reexamined. *ACS Nano*, **2020**, 14, 14779-14789 | 16.7 | 26 |
| 134 | Fabrication of metallized nanoporous films from the self-assembly of a block copolymer and homopolymer mixture. *Langmuir*, **2007**, 23, 6883-8 | 4 | 25 |
| 133 | Reduced graphene oxide wrapped core-shell metal nanowires as promising flexible transparent conductive electrodes with enhanced stability. *Nanoscale*, **2016**, 8, 18938-18944 | 7.7 | 25 |
| 132 | PtFe nanoparticles supported on electroactive Au@PANI core@shell nanoparticles for high performance bifunctional electrocatalysis. *Journal of Materials Chemistry A*, **2017**, 5, 13692-13699 | 13 | 24 |
| 131 | Hierarchically self-assembled ZnO architectures: Establishing light trapping networks for effective photoelectrochemical water splitting. *International Journal of Hydrogen Energy*, **2017**, 42, 15126-15139 | 6.7 | 24 |
| 130 | A mechanistic study on graphene-based nonvolatile ReRAM devices. *Journal of Materials Chemistry C*, **2016**, 4, 11007-11031 | 7.1 | 23 |
| 129 | Development of a Remote Monitoring System for Henhouse Environment Based on IoT Technology. *Future Internet*, **2015**, 7, 329-341 | 3.3 | 23 |
| 128 | Fabrication and Photocatalytic Activities of Morphology-Controlled Titania Nanoobject Arrays by Block Copolymer Templates. *Macromolecular Rapid Communications*, **2007**, 28, 2055-2061 | 4.8 | 23 |
| 127 | Quantitative methylation level of the EPHX1 promoter in peripheral blood DNA is associated with polycystic ovary syndrome. *PLoS ONE*, **2014**, 9, e88013 | 3.7 | 23 |
| 126 | Retarded Charge□Carrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. *Advanced Energy Materials*, **2020**, 10, 2000570 | 21.8 | 22 |
| 125 | Perovskite La0.75Sr0.25Cr0.5Mn0.5O3□sensitized SnO2 fiber-in-tube scaffold: highly selective and sensitive formaldehyde sensing. *Journal of Materials Chemistry A*, **2018**, 6, 10543-10551 | 13 | 22 |
| 124 | Experimental investigations on drag-reduction characteristics of bionic surface with water-trapping microstructures of fish scales. *Scientific Reports*, **2018**, 8, 12186 | 4.9 | 22 |

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| 123 | The fabrication of graphitic thin films with highly dispersed noble metal nanoparticles by direct carbonization of block copolymer inverse micelle templates. *Carbon*, **2011**, 49, 2120-2126 | 10.4 | 22 |
| 122 | Nanogap-based dielectric-specific colocalization for highly sensitive surface plasmon resonance detection of biotin-streptavidin interactions. *Applied Physics Letters*, **2012**, 101, 233701 | 3.4 | 22 |
| 121 | Dewetting of thin polystyrene films under confinement. *Langmuir*, **2007**, 23, 2326-9 | 4 | 22 |
| 120 | Design of tailored multi-charged phosphorus surface-block dendrimers. *New Journal of Chemistry*, **2006**, 30, 1731 | 3.6 | 22 |
| 119 | GISAXS investigation of TiO2 nanoparticles in PS-b-PEO block-copolymer films. *Physica B: Condensed Matter*, **2005**, 357, 141-143 | 2.8 | 22 |
| 118 | Towards efficient and stable perovskite solar cells employing non-hygroscopic F4-TCNQ doped TFB as the hole-transporting material. *Nanoscale*, **2019**, 11, 19586-19594 | 7.7 | 22 |
| 117 | Visible Light Photo-oxidation in Au Nanoparticle Sensitized SrTiO3:Nb Photoanode. *Journal of Physical Chemistry C*, **2013**, 117, 15532-15539 | 3.8 | 21 |
| 116 | In Situ Studies of Surface-Plasmon-Resonance-Coupling Sensor Mediated by Stimuli-Sensitive Polymer Linker. *Advanced Functional Materials*, **2015**, 25, 6716-6724 | 15.6 | 21 |
| 115 | Control of the Area Density of Vertically Grown ZnO Nanowires by Blending PS-b-P4VP and PS-b-PAA Copolymer Micelles. *Chemistry of Materials*, **2008**, 20, 6041-6047 | 9.6 | 21 |
| 114 | Studies on Polymer□Metal Interfaces. 2. Competitive Adsorption between Oxygen- and Nitrogen-Containing Functionality in Model Copolymers onto Metal Surfaces. *Macromolecules*, **2000**, 33, 3050-3058 | 5.5 | 21 |
| 113 | Plasmon-mediated wavelength-selective enhanced photoresponse in polymer photodetectors. *Journal of Materials Chemistry C*, **2017**, 5, 399-407 | 7.1 | 20 |
| 112 | Arising synergetic and antagonistic effects in the design of Ni- and Ru-based water splitting electrocatalysts. *Journal of Materials Chemistry A*, **2019**, 7, 639-646 | 13 | 20 |
| 111 | Periodically ordered inverse opal TiO2/polyaniline core/shell design for electrochemical energy storage applications. *Journal of Alloys and Compounds*, **2017**, 694, 111-118 | 5.7 | 20 |
| 110 | Layer-by-Layer Self-Assembled Graphene Multilayers as Pt-Free Alternative Counter Electrodes in Dye-Sensitized Solar Cells. *ACS Applied Materials & Interfaces*, **2016**, 8, 11488-98 | 9.5 | 20 |
| 109 | Mechanistic Study Revealing the Role of the Br3□/Br2 Redox Couple in CO2-Assisted Li□O2 Batteries. *Advanced Energy Materials*, **2020**, 10, 1903486 | 21.8 | 19 |
| 108 | Mesoporous carbon-TiO□beads with nanotextured surfaces as photoanodes in dye-sensitized solar cells. *ChemSusChem*, **2014**, 7, 2590-6 | 8.3 | 19 |
| 107 | Two-Dimensional Arrays of Strings of TiO2 Nanoparticles via Cooperative Block Copolymer Self-Assembly. *Chemistry of Materials*, **2008**, 20, 1200-1202 | 9.6 | 18 |
| 106 | Multilayer Films Fabricated from Oppositely Charged Polyphenylene Dendrimers by Electrostatic Layer-by-Layer Assembly. *Macromolecular Chemistry and Physics*, **2005**, 206, 52-58 | 2.6 | 18 |

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| 105 | A cyanine-based colorimetric and fluorescent probe for highly selective sensing and bioimaging of phosphate ions. *Dyes and Pigments*, **2016**, 133, 127-131 | 4.6 | 18 |
| 104 | Coumarin-based turn-on fluorescence probes for highly selective detection of Pi in cell culture and Caenorhabditis elegans. *Dyes and Pigments*, **2015**, 120, 293-298 | 4.6 | 17 |
| 103 | Polyethylenimine ethoxylated interlayer-mediated ZnO interfacial engineering for high-performance and low-temperature processed flexible perovskite solar cells: A simple and viable route for one-step processed CH3NH3PbI3. *Journal of Power Sources*, **2019**, 438, 226956 | 8.9 | 17 |
| 102 | Responsive polymer/gold nanoparticle composite thin films fabricated by solvent-induced self-assembly and spin-coating. *Journal of Colloid and Interface Science*, **2011**, 354, 585-91 | 9.3 | 17 |
| 101 | Au/Titania Composite Nanoparticle Arrays with Controlled Size and Spacing by Organic-Inorganic Nanohybridization in Thin Film Block Copolymer Templates. *Bulletin of the Korean Chemical Society*, **2007**, 28, 1015-1020 | 1.2 | 17 |
| 100 | Plasmon-Enhanced Electrocatalytic Properties of Rationally Designed Hybrid Nanostructures at a Catalytic Interface. *Advanced Materials Interfaces*, **2019**, 6, 1801144 | 4.6 | 17 |
| 99 | Graphene Oxide Shells on Plasmonic Nanostructures Lead to High-Performance Photovoltaics: A Model Study Based on Dye-Sensitized Solar Cells. *ACS Energy Letters*, **2017**, 2, 117-123 | 20.1 | 16 |
| 98 | Plasmon and Upconversion Mediated Broadband Spectral Response in TiO2 Inverse Opal Photocatalysts for Enhanced Photoelectrochemical Water Splitting. *ACS Applied Energy Materials*, **2019**, 2, 3780-3790 | 6.1 | 16 |
| 97 | Ultrahigh resolution and color gamut with scattering-reducing transmissive pixels. *Nature Communications*, **2019**, 10, 4782 | 17.4 | 16 |
| 96 | Nanostructuring polymeric materials by templating strategies. *Small*, **2011**, 7, 1384-91 | 11 | 16 |
| 95 | Facile Preparation of PbTiO3 Nanodot Arrays: Combining Nanohybridization with Vapor Phase Reaction Sputtering. *Advanced Functional Materials*, **2011**, 21, 4277-4284 | 15.6 | 16 |
| 94 | Lead-free halide double perovskites: Toward stable and sustainable optoelectronic devices. *Materials Today*, **2021**, | 21.8 | 16 |
| 93 | Controlling the composition of plasmonic nanoparticle arrays via galvanic displacement reactions on block copolymer nanotemplates. *Chemical Communications*, **2011**, 47, 1782-4 | 5.8 | 15 |
| 92 | Generating Color from Polydisperse, Near Micron-Sized TiO Particles. *ACS Applied Materials & Interfaces*, **2017**, 9, 23941-23948 | 9.5 | 14 |
| 91 | The effect of fluid flow on selective protein adsorption on polystyrene-block-poly(methyl methacrylate) copolymers. *Langmuir*, **2009**, 25, 12144-50 | 4 | 14 |
| 90 | Organic-inorganic hybrid Sn-based perovskite photodetectors with high external quantum efficiencies and wide spectral responses from 300 to 1000 nm. *Science China Materials*, **2019**, 62, 790-796 | 7.1 | 14 |
| 89 | Viable stretchable plasmonics based on unidirectional nanoprisms. *Nanoscale*, **2018**, 10, 4105-4112 | 7.7 | 13 |
| 88 | Effect of coupled graphene oxide on the sensitivity of surface plasmon resonance detection. *Applied Optics*, **2014**, 53, 1419-26 | 1.7 | 13 |

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| 87 | The lithium metal anode in Li batteries: challenges and recent progress. *Journal of Materials Chemistry A*, **2021**, 9, 10012-10038 | 13 | 13 |
| 86 | N-doped mesoporous inverse opal structures for visible-light photocatalysts. *RSC Advances*, **2015**, 5, 77716-77722 | 3.7 | 12 |
| 85 | Carbon/metal nanotubes with tailored order and configuration by direct carbonization of inverse block copolymer micelles inside nanoporous alumina. *Chemical Communications*, **2012**, 48, 507-9 | 5.8 | 12 |
| 84 | 3D hierarchically ordered composite block copolymer hollow sphere arrays by solution wetting. *Langmuir*, **2010**, 26, 12336-41 | 4 | 12 |
| 83 | The Effect of SiO2Shell on the Suppression of Photocatalytic Activity of TiO2and ZnO Nanoparticles. *Bulletin of the Korean Chemical Society*, **2012**, 33, 3767-3771 | 1.2 | 12 |
| 82 | Effects of additives on the morphologies of thin titania films from self-assembly of a block copolymer. *Polymer*, **2008**, 49, 1376-1384 | 3.9 | 12 |
| 81 | Studies on polymer-metal interfaces: Part 1. Comparison of adsorption behavior between oxygen and nitrogen functionality in model copolymers onto metal surfaces. *Polymer*, **1999**, 40, 3989-3994 | 3.9 | 12 |
| 80 | Molecular overlap with optical near-fields based on plasmonic nanolithography for ultrasensitive label-free detection by light-matter colocalization. *Biosensors and Bioelectronics*, **2017**, 96, 89-98 | 11.8 | 11 |
| 79 | Upconversion-Triggered Charge Separation in Polymer Semiconductors. *Journal of Physical Chemistry Letters*, **2017**, 8, 364-369 | 6.4 | 11 |
| 78 | Solution-Processed PEDOT:PSS/MoS Nanocomposites as Efficient Hole-Transporting Layers for Organic Solar Cells. *Nanomaterials*, **2019**, 9, | 5.4 | 11 |
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