# Jong Hyeok Park

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 347 papers | 16,849 citations | 67 h-index | 117 g-index |
| 359 ext. papers | 18,605 ext. citations | 9.3 avg, IF | 6.95 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 347 | Interfacial nitrogen modulated Z-scheme photoanode for solar water oxidation. *Journal of Power Sources*, **2022**, 519, 230784 | 8.9 | 0 |
| 346 | Expandable crosslinked polymer coatings on silicon nanoparticle anode toward high-rate and long-cycle-life lithium-ion battery. *Applied Surface Science*, **2022**, 571, 151294 | 6.7 | 1 |
| 345 | Enhanced band-filling effect in halide perovskites via hydrophobic conductive linkers. *Cell Reports Physical Science*, **2022**, 3, 100800 | 6.1 | 0 |
| 344 | Revealing improved electrocatalytic performances of electrochemically synthesized S and Ni doped Fe2O3 nanostructure interfaces. *Applied Surface Science*, **2022**, 588, 152894 | 6.7 | 0 |
| 343 | Au/MoS2 tips as auxiliary rate aligners for the photocatalytic generation of syngas with a tunable composition. *Applied Catalysis B: Environmental*, **2022**, 308, 121219 | 21.8 | 4 |
| 342 | Monolithic Lead Halide Perovskite Photoelectrochemical Cell with 9.16% Applied Bias Photon-to-Current Efficiency. *ACS Energy Letters*, **2022**, 7, 320-327 | 20.1 | 0 |
| 341 | Artificial photosynthesis for high-value-added chemicals: Old material, new opportunity **2022**, 4, 21-44 | | 6 |
| 340 | Improving the oxygen evolution reaction using electronic structure modulation of sulfur-retaining nickel-based electrocatalysts. *Journal of Materials Chemistry A*, **2021**, 9, 27034-27040 | 13 | 1 |
| 339 | Inhibition of iodide ion migration in flexible perovskite solar cells using oxide□metal□oxide transparent electrode. *Surfaces and Interfaces*, **2021**, 27, 101546 | 4.1 | 1 |
| 338 | Pyrrolidinium-PEG Ionic Copolyester: Li-Ion Accelerator in Polymer Network Solid-State Electrolytes. *Advanced Energy Materials*, **2021**, 11, 2102660 | 21.8 | 0 |
| 337 | Understanding morphological degradation of Ag nanoparticle during electrochemical CO2 reduction reaction by identical location observation. *Electrochimica Acta*, **2021**, 371, 137795 | 6.7 | 6 |
| 336 | Defect Dominated Hierarchical Ti-Metal-Organic Frameworks via a Linker Competitive Coordination Strategy for Toluene Removal. *Advanced Functional Materials*, **2021**, 31, 2102511 | 15.6 | 11 |
| 335 | Metal-Assisted Efficient Nanotubular Electrocatalyst of MoS2 for Hydrogen Production. *ChemCatChem*, **2021**, 13, 3237-3246 | 5.2 | 1 |
| 334 | Disordered-Layer-Mediated Reverse Metal-Oxide Interactions for Enhanced Photocatalytic Water Splitting. *Nano Letters*, **2021**, 21, 5247-5253 | 11.5 | 6 |
| 333 | Optimized ion-conductive pathway in UV-cured solid polymer electrolytes for all-solid lithium/sodium ion batteries. *Journal of Membrane Science*, **2021**, 619, 118771 | 9.6 | 9 |
| 332 | Unprecedented electrocatalytic oxygen evolution performances by cobalt-incorporated molybdenum carbide microflowers with controlled charge re-distribution. *Journal of Materials Chemistry A*, **2021**, 9, 1770-1783 | 13 | 3 |
| 331 | A highly activated iron phosphate over-layer for enhancing photoelectrochemical ammonia decomposition. *Journal of Hazardous Materials*, **2021**, 408, 124900 | 12.8 | 4 |

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| 330 | Electrocatalytic methane oxidation on Co3O4- incorporated ZrO2 nanotube powder. *Applied Catalysis B: Environmental*, **2021**, 283, 119653 | 21.8 | 15 |
| 329 | Revisiting surface chemistry in TiO2: A critical role of ionic passivation for pH-independent and anti-corrosive photoelectrochemical water oxidation. *Chemical Engineering Journal*, **2021**, 407, 126929 | 14.7 | 7 |
| 328 | Unravelling the K-promotion effect in highly active and stable Fe5C2 nanoparticles for catalytic linear □-olefin production. *Materials Advances*, **2021**, 2, 1050-1058 | 3.3 | 1 |
| 327 | High-Valent Iodoplumbate-Rich Perovskite Precursor Solution Solar Illumination for Reproducible Power Conversion Efficiency. *Journal of Physical Chemistry Letters*, **2021**, 12, 1676-1682 | 6.4 | 4 |
| 326 | Engineered Polymeric Carbon Nitride Additive for Energy Storage Materials: A Review. *Advanced Functional Materials*, **2021**, 31, 2102300 | 15.6 | 6 |
| 325 | Preparation of multilayer periodic nanopatterned WO-based photoanode by reverse nanoimprinting for water splitting. *Nanotechnology*, **2021**, 32, | 3.4 | 1 |
| 324 | Unnatural Hygroscopic Property of Nicotinic Acid by Restructuring Molecular Density: Self-Healing Halide Perovskites. *Journal of Physical Chemistry Letters*, **2021**, 12, 8932-8938 | 6.4 | 0 |
| 323 | Solar-harvesting lead halide perovskite for artificial photosynthesis. *Journal of Energy Chemistry*, **2021**, 62, 11-26 | 12 | 5 |
| 322 | Enhanced desalination performance of nitrogen-doped porous carbon electrode in redox-mediated deionization. *Desalination*, **2021**, 520, 115333 | 10.3 | 2 |
| 321 | Unveiling the enhanced electrocatalytic activity at electrochemically synthesized Pt-WO hybrid nanostructure interfaces. *Chemical Communications*, **2021**, 57, 11165-11168 | 5.8 | 1 |
| 320 | Polymer-Clay Nanocomposite Solid-State Electrolyte with Selective Cation Transport Boosting and Retarded Lithium Dendrite Formation. *Advanced Energy Materials*, **2020**, 10, 2003114 | 21.8 | 35 |
| 319 | Stretchable Hole Extraction Layer for Improved Stability in Perovskite Solar Cells. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 8004-8010 | 8.3 | 4 |
| 318 | Near-Complete Suppression of Oxygen Evolution for Photoelectrochemical HO Oxidative HO Synthesis. *Journal of the American Chemical Society*, **2020**, 142, 8641-8648 | 16.4 | 68 |
| 317 | Ultrathin Hematite on Mesoporous WO3 from Atomic Layer Deposition for Minimal Charge Recombination. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 11358-11367 | 8.3 | 12 |
| 316 | Black TiO2: What are exact functions of disorder layer **2020**, 2, 44-53 | | 28 |
| 315 | Retarded Charge□arrier Recombination in Photoelectrochemical Cells from Plasmon-Induced Resonance Energy Transfer. *Advanced Energy Materials*, **2020**, 10, 2000570 | 21.8 | 22 |
| 314 | Artificial Photosynthesis for Value-Added Chemicals Production. *Ceramist*, **2020**, 23, 324-338 | 0.3 | |
| 313 | Highly dispersible graphene oxide nanoflakes in pseudo-gel-polymer porous separators for boosting ion transportation. *Carbon*, **2020**, 166, 427-435 | 10.4 | 5 |

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| 312 | In situ electrochemically synthesized Pt-MoO3 nanostructure catalysts for efficient hydrogen evolution reaction. *Journal of Catalysis*, **2020**, 381, 1-13 | 7.3 | 14 |
| 311 | Edge functionalized graphene nanoribbons with tunable band edges for carrier transport interlayers in organic-inorganic perovskite solar cells. *Physical Chemistry Chemical Physics*, **2020**, 22, 2955-2962 | 3.6 | 2 |
| 310 | Electrochemically controlled CdS@CdSe nanoparticles on ITO@TiO2 dual core shell nanowires for enhanced photoelectrochemical hydrogen production. *Applied Surface Science*, **2020**, 505, 144569 | 6.7 | 6 |
| 309 | Catalytic Oxidation of Methane to Oxygenated Products: Recent Advancements and Prospects for Electrocatalytic and Photocatalytic Conversion at Low Temperatures. *Advanced Science*, **2020**, 7, 2001946 | 13.6 | 18 |
| 308 | Large and reversible sodium storage through interlaced reaction design. *Energy Storage Materials*, **2020**, 25, 687-694 | 19.4 | 5 |
| 307 | Boosting faradaic reactions of metal oxides on polymeric carbon nitride/PANI hybrid. *Energy Storage Materials*, **2020**, 25, 487-494 | 19.4 | 9 |
| 306 | Efficient photodegradation of volatile organic compounds by iron-based metal-organic frameworks with high adsorption capacity. *Applied Catalysis B: Environmental*, **2020**, 263, 118284 | 21.8 | 34 |
| 305 | Hot Scientific Debate on Halide Perovskites: Fundamentals, Photovoltaics, and Optoelectronics at Eighth Sungkyun International Solar Forum 2019 (SISF 2019). *ACS Energy Letters*, **2019**, 4, 2475-2479 | 20.1 | 3 |
| 304 | Heterojunction Photoanode of Atomic-Layer-Deposited MoS on Single-Crystalline CdS Nanorod Arrays. *ACS Applied Materials & Interfaces*, **2019**, 11, 37586-37594 | 9.5 | 24 |
| 303 | Disordered layers on WO3 nanoparticles enable photochemical generation of hydrogen from water. *Journal of Materials Chemistry A*, **2019**, 7, 221-227 | 13 | 37 |
| 302 | Growth of BiVO4 nanoparticles on a WO3 porous scaffold: improved water-splitting by high band-edge light harvesting. *Journal of Materials Chemistry A*, **2019**, 7, 4480-4485 | 13 | 8 |
| 301 | Aligned Heterointerface-Induced 1T-MoS Monolayer with Near-Ideal Gibbs Free for Stable Hydrogen Evolution Reaction. *Small*, **2019**, 15, e1804903 | 11 | 43 |
| 300 | An ultrathin inorganic-organic hybrid layer on commercial polymer separators for advanced lithium-ion batteries. *Journal of Power Sources*, **2019**, 416, 89-94 | 8.9 | 33 |
| 299 | Carbon-Coated Supraballs of Randomly Packed LiFePO4 Nanoplates for High Rate and Stable Cycling of Li-Ion Batteries. *Particle and Particle Systems Characterization*, **2019**, 36, 1900149 | 3.1 | 3 |
| 298 | Black phosphorene as a hole extraction layer boosting solar water splitting of oxygen evolution catalysts. *Nature Communications*, **2019**, 10, 2001 | 17.4 | 120 |
| 297 | Grain Boundary Healing of Organic-Inorganic Halide Perovskites for Moisture Stability. *Nano Letters* , **2019**, 19, 6498-6505 | 11.5 | 16 |
| 296 | Electrochemical CH4 oxidation into acids and ketones on ZrO2:NiCo2O4 quasi-solid solution nanowire catalyst. *Applied Catalysis B: Environmental*, **2019**, 259, 118095 | 21.8 | 23 |
| 295 | Unveiling the origin of performance reduction in perovskite solar cells with TiO2 electron transport layer: Conduction band minimum mismatches and chemical interactions at buried interface. *Applied Surface Science*, **2019**, 495, 143490 | 6.7 | 5 |

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| 294 | Cu2O□Cu2Se Mixed-Phase Nanoflake Arrays: pH-Universal Hydrogen Evolution Reactions with Ultralow Overpotential. *ChemElectroChem*, **2019**, 6, 5014-5021 | 4.3 | 4 |
| 293 | A □urface patching□trategy to achieve highly efficient solar water oxidation beyond surface passivation effect. *Nano Energy*, **2019**, 66, 104110 | 17.1 | 12 |
| 292 | Band Alignment Engineering between Planar SnO and Halide Perovskites via Two-Step Annealing. *Journal of Physical Chemistry Letters*, **2019**, 10, 6545-6550 | 6.4 | 14 |
| 291 | Li-Ion Batteries: Carbon-Coated Supraballs of Randomly Packed LiFePO4 Nanoplates for High Rate and Stable Cycling of Li-Ion Batteries (Part. Part. Syst. Charact. 7/2019). *Particle and Particle Systems Characterization*, **2019**, 36, 1970019 | 3.1 | |
| 290 | Hydrogen Peroxide Production from Solar Water Oxidation. *ACS Energy Letters*, **2019**, 4, 3018-3027 | 20.1 | 65 |
| 289 | Vertically constructed monolithic electrodes for sodium ion batteries: toward low tortuosity and high energy density. *Journal of Materials Chemistry A*, **2019**, 7, 25985-25992 | 13 | 7 |
| 288 | In Operando Stacking of Reduced Graphene Oxide for Active Hydrogen Evolution. *ACS Applied Materials & Interfaces*, **2019**, 11, 43460-43465 | 9.5 | 13 |
| 287 | Rationally designed hybrids of NiCo2O4 and polymeric carbon nitride as faradaic electrodes with enhanced electrochemical performance. *Electrochimica Acta*, **2019**, 299, 717-726 | 6.7 | 15 |
| 286 | Rationally Designed Copper-Modified Polymeric Carbon Nitride as a Photocathode for Solar Water Splitting. *ChemSusChem*, **2019**, 12, 866-872 | 8.3 | 15 |
| 285 | Solar Cells: Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization (Adv. Energy Mater. 10/2018). *Advanced Energy Materials*, **2018**, 8, 1870045 | 21.8 | 4 |
| 284 | Conceptual design of three-dimensional CoN/Ni3N-coupled nanograsses integrated on N-doped carbon to serve as efficient and robust water splitting electrocatalysts. *Journal of Materials Chemistry A*, **2018**, 6, 4466-4476 | 13 | 107 |
| 283 | Rapid Formation of a Disordered Layer on Monoclinic BiVO : Co-Catalyst-Free Photoelectrochemical Solar Water Splitting. *ChemSusChem*, **2018**, 11, 933-940 | 8.3 | 31 |
| 282 | Enthusiastic Discussions on Halide Perovskite Materials beyond Photovoltaics at Sungkyun International Solar Forum 2017 (SISF2017). *ACS Energy Letters*, **2018**, 3, 199-203 | 20.1 | 1 |
| 281 | Oriented Grains with Preferred Low-Angle Grain Boundaries in Halide Perovskite Films by Pressure-Induced Crystallization. *Advanced Energy Materials*, **2018**, 8, 1702369 | 21.8 | 56 |
| 280 | Dual or multi carbonaceous coating strategies for next-generation batteries. *Journal of Materials Chemistry A*, **2018**, 6, 1900-1914 | 13 | 24 |
| 279 | Mediator- and co-catalyst-free direct Z-scheme composites of BiWO-CuP for solar-water splitting. *Nanoscale*, **2018**, 10, 3026-3036 | 7.7 | 65 |
| 278 | Solution-processed yolk□hell-shaped WO3/BiVO4 heterojunction photoelectrodes for efficient solar water splitting. *Journal of Materials Chemistry A*, **2018**, 6, 2585-2592 | 13 | 78 |
| 277 | Enhancement of Adsorption Performance for Organic Molecules by Combined Effect of Intermolecular Interaction and Morphology in Porous rGO-Incorporated Hydrogels. *ACS Applied Materials & Interfaces*, **2018**, 10, 17335-17344 | 9.5 | 16 |

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| 276 | Vertically Oriented MoS2 with Spatially Controlled Geometry on Nitrogenous Graphene Sheets for High-Performance Sodium-Ion Batteries. *Advanced Energy Materials*, **2018**, 8, 1703300 | 21.8 | 116 |
| 275 | Electron beam induced strong organic/inorganic grafting for thermally stable lithium-ion battery separators. *Applied Surface Science*, **2018**, 444, 339-344 | 6.7 | 19 |
| 274 | Metallic NiS Films Grown by Atomic Layer Deposition as an Efficient and Stable Electrocatalyst for Overall Water Splitting. *ACS Applied Materials & Interfaces*, **2018**, 10, 12807-12815 | 9.5 | 63 |
| 273 | Stacked Porous Iron-Doped Nickel Cobalt Phosphide Nanoparticle: An Efficient and Stable Water Splitting Electrocatalyst. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 6146-6156 | 8.3 | 84 |
| 272 | Enhancing Mo:BiVO4 Solar Water Splitting with Patterned Au Nanospheres by Plasmon-Induced Energy Transfer. *Advanced Energy Materials*, **2018**, 8, 1701765 | 21.8 | 60 |
| 271 | Tuning surface chemistry and morphology of graphene oxide by □-ray irradiation for improved performance of perovskite photovoltaics. *Carbon*, **2018**, 139, 564-571 | 10.4 | 14 |
| 270 | Halide Perovskite Nanopillar Photodetector. *ACS Nano*, **2018**, 12, 8564-8571 | 16.7 | 46 |
| 269 | Strategy for Boosting Li-Ion Current in Silicon Nanoparticles. *ACS Energy Letters*, **2018**, 3, 2252-2258 | 20.1 | 35 |
| 268 | Multiple Heterojunction in Single Titanium Dioxide Nanoparticles for Novel Metal-Free Photocatalysis. *Nano Letters*, **2018**, 18, 4257-4262 | 11.5 | 35 |
| 267 | Methodologies toward Efficient and Stable Cesium Lead Halide Perovskite-Based Solar Cells. *Advanced Science*, **2018**, 5, 1800509 | 13.6 | 38 |
| 266 | An □gstr□m-level d-spacing controlling synthetic route for MoS2 towards stable intercalation of sodium ions. *Journal of Materials Chemistry A*, **2018**, 6, 22513-22518 | 13 | 20 |
| 265 | Mixed-Phase (2H and 1T) MoS2 Catalyst for a Highly Efficient and Stable Si Photocathode. *Catalysts*, **2018**, 8, 580 | 4 | 13 |
| 264 | Electrostatically regulated ternary-doped carbon foams with exposed active sites as metal-free oxygen reduction electrocatalysts. *Nanoscale*, **2018**, 10, 19498-19508 | 7.7 | 11 |
| 263 | Porous supraparticles of LiFePO4 nanorods with carbon for high rate Li-ion batteries. *Materials Express*, **2018**, 8, 316-324 | 1.3 | 7 |
| 262 | Suppressing buoyant force: New avenue for long-term durability of oxygen evolution catalysts. *Nano Energy*, **2018**, 54, 184-191 | 17.1 | 23 |
| 261 | Epitaxial growth of WO3 nanoneedles achieved using a facile flame surface treatment process engineering of hole transport and water oxidation reactivity. *Journal of Materials Chemistry A*, **2018**, 6, 19542-19546 | 13 | 16 |
| 260 | Resolving Hysteresis in Perovskite Solar Cells with Rapid Flame-Processed Cobalt-Doped TiO2. *Advanced Energy Materials*, **2018**, 8, 1801717 | 21.8 | 54 |
| 259 | Design of a porous gel polymer electrolyte for sodium ion batteries. *Journal of Membrane Science*, **2018**, 566, 122-128 | 9.6 | 32 |

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| 258 | Improved Stability of Interfacial Energy-Level Alignment in Inverted Planar Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 18964-18973 | 9.5 | 17 |
| 257 | Additive-free electrode fabrication with reduced graphene oxide using supersonic kinetic spray for flexible lithium-ion batteries. *Carbon*, **2018**, 139, 195-204 | 10.4 | 14 |
| 256 | Controllable sulfuration engineered NiO nanosheets with enhanced capacitance for high rate supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 4543-4549 | 13 | 92 |
| 255 | Potassium Incorporation for Enhanced Performance and Stability of Fully Inorganic Cesium Lead Halide Perovskite Solar Cells. *Nano Letters*, **2017**, 17, 2028-2033 | 11.5 | 371 |
| 254 | 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 |
| 253 | Double 2-dimensional H2-evoluting catalyst tipped photocatalyst nanowires: A new avenue for high-efficiency solar to H2 generation. *Nano Energy*, **2017**, 34, 481-490 | 17.1 | 38 |
| 252 | Unveiling the Crystal Formation of Cesium Lead Mixed-Halide Perovskites for Efficient and Stable Solar Cells. *Journal of Physical Chemistry Letters*, **2017**, 8, 2936-2940 | 6.4 | 144 |
| 251 | Bulk layered heterojunction as an efficient electrocatalyst for hydrogen evolution. *Science Advances*, **2017**, 3, e1602215 | 14.3 | 64 |
| 250 | Long-term Stability of Conducting Polymers in Iodine/iodide Electrolytes: Beyond Conventional Platinum Catalysts. *Electrochimica Acta*, **2017**, 227, 95-100 | 6.7 | 7 |
| 249 | Surface Localization of Defects in Black TiO: Enhancing Photoactivity or Reactivity. *Journal of Physical Chemistry Letters*, **2017**, 8, 199-207 | 6.4 | 79 |
| 248 | Porphyrin Sensitizers with Donor Structural Engineering for Superior Performance Dye-Sensitized Solar Cells and Tandem Solar Cells for Water Splitting Applications. *Advanced Energy Materials*, **2017**, 7, 1602117 | 21.8 | 151 |
| 247 | Amorphous Phosphorus-Incorporated Cobalt Molybdenum Sulfide on Carbon Cloth: An Efficient and Stable Electrocatalyst for Enhanced Overall Water Splitting over Entire pH Values. *ACS Applied Materials & Interfaces*, **2017**, 9, 37739-37749 | 9.5 | 88 |
| 246 | Defect-Induced Epitaxial Growth for Efficient Solar Hydrogen Production. *Nano Letters*, **2017**, 17, 6676-6683 | 11.5 | 77 |
| 245 | Edge-On MoS2 Thin Films by Atomic Layer Deposition for Understanding the Interplay between the Active Area and Hydrogen Evolution Reaction. *Chemistry of Materials*, **2017**, 29, 7604-7614 | 9.6 | 64 |
| 244 | Ultrafast Flame Annealing of TiO Paste for Fabricating Dye-Sensitized and Perovskite Solar Cells with Enhanced Efficiency. *Small*, **2017**, 13, 1702260 | 11 | 13 |
| 243 | Ultrahigh Electrocatalytic Conversion of Methane at Room Temperature. *Advanced Science*, **2017**, 4, 1700379 | 13.6 | 44 |
| 242 | A Structurable Gel-Polymer Electrolyte for Sodium Ion Batteries. *Advanced Functional Materials*, **2017**, 27, 1701768 | 15.6 | 59 |
| 241 | Thermodynamically self-organized hole transport layers for high-efficiency inverted-planar perovskite solar cells. *Nanoscale*, **2017**, 9, 12677-12683 | 7.7 | 17 |

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| 240 | Tailored Metal Oxide Thin Film on Polyethylene Separators for Sodium-Ion Batteries. *Journal of the Electrochemical Society*, **2017**, 164, A1965-A1969 | 3.9 | 12 |
| 239 | Hierarchical MnCo-layered double hydroxides@Ni(OH)2 core□shell heterostructures as advanced electrodes for supercapacitors. *Journal of Materials Chemistry A*, **2017**, 5, 1043-1049 | 13 | 233 |
| 238 | Overcoming Charge Collection Limitation at Solid/Liquid Interface by a Controllable Crystal Deficient Overlayer. *Advanced Energy Materials*, **2017**, 7, 1600923 | 21.8 | 51 |
| 237 | Stibnite sensitized hollow cubic TiO2 photoelectrodes for organic-inorganic heterojunction solar cells. *Solar Energy*, **2017**, 157, 434-440 | 6.8 | 6 |
| 236 | PVdF-HFP/exfoliated graphene oxide nanosheet hybrid separators for thermally stable Li-ion batteries. *RSC Advances*, **2016**, 6, 80706-80711 | 3.7 | 18 |
| 235 | Hollow and yolk-shell structured off-stoichiometric tungsten trioxide via selective leaching and hydrogenation for enhanced lithium storage properties. *Electrochimica Acta*, **2016**, 215, 466-472 | 6.7 | 8 |
| 234 | Dual Oxygen and Tungsten Vacancies on a WO3 Photoanode for Enhanced Water Oxidation. *Angewandte Chemie - International Edition*, **2016**, 55, 11819-23 | 16.4 | 140 |
| 233 | Dual Oxygen and Tungsten Vacancies on a WO3 Photoanode for Enhanced Water Oxidation. *Angewandte Chemie*, **2016**, 128, 11998-12002 | 3.6 | 64 |
| 232 | Solution processable formation of a few nanometer thick-disordered overlayer on the surface of open-ended TiO nanotubes. *Chemical Communications*, **2016**, 52, 13807-13810 | 5.8 | 8 |
| 231 | Molecular Chemistry-Controlled Hybrid Ink-Derived Efficient Cu2ZnSnS4 Photocathodes for Photoelectrochemical Water Splitting. *ACS Energy Letters*, **2016**, 1, 1127-1136 | 20.1 | 83 |
| 230 | Unassisted photoelectrochemical water splitting exceeding 7% solar-to-hydrogen conversion efficiency using photon recycling. *Nature Communications*, **2016**, 7, 11943 | 17.4 | 109 |
| 229 | Supercritical Carbon Dioxide-Assisted Process for Well-Dispersed Silicon/Graphene Composite as a Li ion Battery Anode. *Scientific Reports*, **2016**, 6, 32011 | 4.9 | 20 |
| 228 | Designed seamless outer surface: Application for high voltage LiNi0.5Mn1.5O4 cathode with excellent cycling stability. *Journal of Power Sources*, **2016**, 336, 307-315 | 8.9 | 17 |
| 227 | Two-terminal DSSC/silicon tandem solar cells exceeding 18% efficiency. *Energy and Environmental Science*, **2016**, 9, 3657-3665 | 35.4 | 34 |
| 226 | A 3D triple-deck photoanode with a strengthened structure integrality: enhanced photoelectrochemical water oxidation. *Nanoscale*, **2016**, 8, 3474-81 | 7.7 | 22 |
| 225 | Self-Position of Au NPs in Perovskite Solar Cells: Optical and Electrical Contribution. *ACS Applied Materials & Interfaces*, **2016**, 8, 449-54 | 9.5 | 77 |
| 224 | Large Area Platinum and Fluorine-doped Tin Oxide-free Dye sensitized Solar Cells with Silver-Nanoplate Embedded Poly(3,4-Ethylenedioxythiophene) Counter Electrode. *Electrochimica Acta*, **2016**, 187, 218-223 | 6.7 | 9 |
| 223 | An order/disorder/water junction system for highly efficient co-catalyst-free photocatalytic hydrogen generation. *Energy and Environmental Science*, **2016**, 9, 499-503 | 35.4 | 201 |

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| 222 | Water Splitting Progress in Tandem Devices: Moving Photolysis beyond Electrolysis. *Advanced Energy Materials*, **2016**, 6, 1600602 | 21.8 | 216 |
| 221 | Delocalized Electron Accumulation at Nanorod Tips: Origin of Efficient H2 Generation. *Advanced Functional Materials*, **2016**, 26, 4527-4534 | 15.6 | 51 |
| 220 | Core□shelled Low-Oxidation State Oxides@Reduced Graphene Oxides Cubes via Pressurized Reduction for Highly Stable Lithium Ion Storage. *Advanced Functional Materials*, **2016**, 26, 2959-2965 | 15.6 | 33 |
| 219 | Hybrid Silver Mesh Electrode for ITO-Free Flexible Polymer Solar Cells with Good Mechanical Stability. *ChemSusChem*, **2016**, 9, 1042-9 | 8.3 | 28 |
| 218 | Tunable Bandgap Energy and Promotion of H2O2 Oxidation for Overall Water Splitting from Carbon Nitride Nanowire Bundles. *Advanced Energy Materials*, **2016**, 6, 1502352 | 21.8 | 65 |
| 217 | Morphology fixing agent for [6,6]-phenyl C61-butyric acid methyl ester (PC60BM) in planar-type perovskite solar cells for enhanced stability. *RSC Advances*, **2016**, 6, 51513-51519 | 3.7 | 10 |
| 216 | Controlled pore evolution during phase inversion from the combinatorial non-solvent approach: application to battery separators. *Journal of Materials Chemistry A*, **2016**, 4, 9496-9501 | 13 | 22 |
| 215 | Understanding the synergistic effect of WO3-BiVO4 heterostructures by impedance spectroscopy. *Physical Chemistry Chemical Physics*, **2016**, 18, 9255-61 | 3.6 | 35 |
| 214 | 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 |
| 213 | A facile chemical synthesis of ZnO@multilayer graphene nanoparticles with fast charge separation and enhanced performance for application in solar energy conversion. *Nano Energy*, **2016**, 25, 9-17 | 17.1 | 28 |
| 212 | Counterbalancing of morphology and conductivity of poly(3,4-ethylenedioxythiophene) polystyrene sulfonate based flexible devices. *Nanoscale*, **2016**, 8, 19557-19563 | 7.7 | 10 |
| 211 | High-reversible capacity of Perovskite BaSnO3/rGO composite for Lithium-Ion Battery Anodes. *Electrochimica Acta*, **2016**, 214, 31-37 | 6.7 | 22 |
| 210 | A Sharp Focus on Perovskite Solar Cells at Sungkyun International Solar Forum (SISF). *ACS Energy Letters*, **2016**, 1, 500-502 | 20.1 | 4 |
| 209 | Unassisted photoelectrochemical water splitting beyond 5.7% solar-to-hydrogen conversion efficiency by a wireless monolithic photoanode/dye-sensitised solar cell tandem device. *Nano Energy*, **2015**, 13, 182-191 | 17.1 | 114 |
| 208 | Conflicted Effects of a Solvent Additive on PTB7:PC71BM Bulk Heterojunction Solar Cells. *Journal of Physical Chemistry C*, **2015**, 119, 5954-5961 | 3.8 | 138 |
| 207 | Self-Organized Formation of Embossed Nanopatterns on Various Metal Substrates: Application to Flexible Solar Cells. *Electrochimica Acta*, **2015**, 176, 636-641 | 6.7 | 1 |
| 206 | Origin of White Electroluminescence in Graphene Quantum Dots Embedded Host/Guest Polymer Light Emitting Diodes. *Scientific Reports*, **2015**, 5, 11032 | 4.9 | 46 |
| 205 | Enhanced performance of layer-evolved bulk-heterojunction solar cells with Ag nanoparticles by sequential deposition. *Organic Electronics*, **2015**, 24, 325-329 | 3.5 | 8 |

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| 204 | Prevention of sulfur diffusion using MoS2-intercalated 3D-nanostructured graphite for high-performance lithium-ion batteries. *Nanoscale*, **2015**, 7, 11928-33 | 7.7 | 22 |
| 203 | The tailored inner space of TiO2 electrodes via a 30 second wet etching process: high efficiency solid-state perovskite solar cells. *Nanoscale*, **2015**, 7, 10745-51 | 7.7 | 11 |
| 202 | Incorporation of a Metal Oxide Interlayer using a Virus-Templated Assembly for Synthesis of Graphene-Electrode-Based Organic Photovoltaics. *ChemSusChem*, **2015**, 8, 2385-91 | 8.3 | 5 |
| 201 | Clay Nanosheets in Skeletons of Controlled Phase Inversion Separators for Thermally Stable Li-Ion Batteries. *Advanced Functional Materials*, **2015**, 25, 3399-3404 | 15.6 | 33 |
| 200 | Conformal Coating Strategy Comprising N-doped Carbon and Conventional Graphene for Achieving Ultrahigh Power and Cyclability of LiFePO4. *Nano Letters*, **2015**, 15, 6756-63 | 11.5 | 101 |
| 199 | Highly Efficient Solar Water Splitting from Transferred TiO2 Nanotube Arrays. *Nano Letters*, **2015**, 15, 5709-15 | 11.5 | 85 |
| 198 | Highly Transparent Dual-Sensitized Titanium Dioxide Nanotube Arrays for Spontaneous Solar Water Splitting Tandem Configuration. *ACS Applied Materials & Interfaces*, **2015**, 7, 18429-34 | 9.5 | 14 |
| 197 | Promising efficiency enhancement in cobalt redox couple-based back-illuminated dye-sensitized solar cells with titanium foil substrate. *Journal of Power Sources*, **2015**, 278, 32-37 | 8.9 | 14 |
| 196 | Opto-electronic properties of TiO2 nanohelices with embedded HC(NH2)2PbI3 perovskite solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 9179-9186 | 13 | 60 |
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