

Jeong Young Park

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.

296
papers

12,560
citations

54
h-index

103
g-index

322
ext. papers

14,022
ext. citations

8.1
avg, IF

6.75
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 296 | Triethylphosphine Oxide (TOPO)-Assisted Facile Fabrication of Phosphorus-Incorporated Nanostructured Carbon Nitride Toward Photoelectrochemical Water Splitting with Enhanced Activity.. <i>Inorganic Chemistry</i> , 2022 , 61, 1368-1376 | 5.1 | 0 |
| 295 | Doping effect of zeolite-templated carbon on electrical conductance and supercapacitance properties. <i>Carbon</i> , 2022 , 193, 42-50 | 10.4 | 0 |
| 294 | Enhanced hydrogenation conversion efficiency of porous nickel particles with homogeneously distributed unimodal nanopores. <i>Scripta Materialia</i> , 2022 , 216, 114761 | 5.6 | |
| 293 | Revealing Pt-seed-induced structural effects to tribological/electrical/thermoelectric modulations in two-dimensional PtSe ₂ using scanning probe microscopy. <i>Nano Energy</i> , 2021 , 91, 106693 | 17.1 | 1 |
| 292 | Atomic scale friction properties of confined water layers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 060803 | 2.9 | 0 |
| 291 | Atomic-Scale Observations of the Manganese Porphyrin/Au Catalyst Interface Under the Electrocatalytic Process Revealed with Electrochemical Scanning Tunneling Microscopy. <i>Advanced Materials Interfaces</i> , 2021 , 8, 2100873 | 4.6 | 2 |
| 290 | Electronic Control of Hot Electron Transport Using Modified Schottky Barriers in Metal-Semiconductor Nanodiodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 9252-9259 | 9.5 | 3 |
| 289 | In-Situ Nanotribological Properties of Ultrananocrystalline Diamond Films Investigated with Ambient Pressure Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 6909-6915 | 3.8 | 2 |
| 288 | Manipulation of hot electron flow on plasmonic nanodiodes fabricated by nanosphere lithography. <i>Nanotechnology</i> , 2021 , | 3.4 | 3 |
| 287 | Operando Surface Studies on Metal-Oxide Interfaces of Bimetal and Mixed Catalysts. <i>ACS Catalysis</i> , 2021 , 11, 8645-8677 | 13.1 | 11 |
| 286 | Relaxation Dynamics of Enhanced Hot-Electron Flow on Perovskite-Coupled Plasmonic Silver Schottky Nanodiodes. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2575-2582 | 3.8 | 2 |
| 285 | Hydrogenation of diamond nanowire surfaces for effective electrostatic charge storage. <i>Nanoscale</i> , 2021 , 13, 7308-7321 | 7.7 | 2 |
| 284 | Cu oxide deposited on shape-controlled ceria nanocrystals for CO oxidation: influence of interface-driven oxidation states on catalytic activity. <i>Catalysis Science and Technology</i> , 2021 , 11, 6134-6142 | 5.5 | 1 |
| 283 | The facet effect of ceria nanoparticles on platinum dispersion and catalytic activity of methanol partial oxidation. <i>Chemical Communications</i> , 2021 , 57, 7382-7385 | 5.8 | 4 |
| 282 | Catalytic Interplay of Ga, Pt, and Ce on the Alumina Surface Enabling High Activity, Selectivity, and Stability in Propane Dehydrogenation. <i>ACS Catalysis</i> , 2021 , 11, 10767-10777 | 13.1 | 9 |
| 281 | Surface chemistry of hot electron and metal-oxide interfaces. <i>Surface Science Reports</i> , 2021 , 76, 100532 | 12.9 | 3 |
| 280 | Breaking the inverse relationship between catalytic activity and selectivity in acetylene partial hydrogenation using dynamic metal-polymer interaction. <i>Journal of Catalysis</i> , 2021 , 404, 716-716 | 7.3 | 3 |

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|-----|---|------|----|
| 279 | Sodium-free synthesis of mesoporous zeolite to support Pt-Y alloy nanoparticles exhibiting high catalytic performance in propane dehydrogenation. <i>Journal of Catalysis</i> , 2021 , 404, 760-760 | 7.3 | 5 |
| 278 | Coverage of capping ligands determining the selectivity of multi-carbon products and morphological evolution of Cu nanocatalysts in electrochemical reduction of CO ₂ . <i>Journal of Materials Chemistry A</i> , 2021 , 9, 11210-11218 | 13 | 2 |
| 277 | Controlling hot electron flux and catalytic selectivity with nanoscale metal-oxide interfaces. <i>Nature Communications</i> , 2021 , 12, 40 | 17.4 | 7 |
| 276 | Continuous 3D-nanopatterned NiMo solid solution as a free-standing electrocatalyst for the hydrogen evolution reaction in alkaline medium. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7767-7773 | 13 | 5 |
| 275 | Influence of lattice oxygen on the catalytic activity of blue titania supported Pt catalyst for CO oxidation. <i>Catalysis Science and Technology</i> , 2021 , 11, 1698-1708 | 5.5 | 6 |
| 274 | Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. <i>ACS Catalysis</i> , 2021 , 11, 1516-1527 | 13.1 | 7 |
| 273 | Atomic-Scale Observations of the Manganese Porphyrin/Au Catalyst Interface Under the Electrocatalytic Process Revealed with Electrochemical Scanning Tunneling Microscopy (Adv. Mater. Interfaces 23/2021). <i>Advanced Materials Interfaces</i> , 2021 , 8, 2170140 | 4.6 | |
| 272 | Role of Oxygen in Two-Step Thermal Annealing Processes for Enhancing the Performance of Colloidal Quantum Dot Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 57840-57846 | 9.5 | 2 |
| 271 | How Rh surface breaks CO molecules under ambient pressure. <i>Nature Communications</i> , 2020 , 11, 5649 | 17.4 | 6 |
| 270 | Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. <i>Nano Energy</i> , 2020 , 75, 104904 | 17.1 | 41 |
| 269 | Engineering Nanoscale Interfaces of Metal/Oxide Nanowires to Control Catalytic Activity. <i>ACS Nano</i> , 2020 , 14, 8335-8342 | 16.7 | 9 |
| 268 | Plasmonic Catalytic Nanomaterials: Plasmon-Induced Hot Carrier Separation across Dual Interface in Gold/Nickel Phosphide Heterojunction for Photocatalytic Water Splitting (Adv. Funct. Mater. 11/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070068 | 15.6 | |
| 267 | Restructuring of Porphyrin Networks Driven by Self-Assembled Octanoic Acid Monolayer on Au(111). <i>Langmuir</i> , 2020 , 36, 3792-3797 | 4 | 3 |
| 266 | Nanodiode-based hot electrons: Influence on surface chemistry and catalytic reactions. <i>MRS Bulletin</i> , 2020 , 45, 26-31 | 3.2 | 5 |
| 265 | Surface Energy Change of Atomic-Scale Metal Oxide Thin Films by Phase Transformation. <i>ACS Nano</i> , 2020 , 14, 676-687 | 16.7 | 5 |
| 264 | Plasmon-Induced Hot Carrier Separation across Dual Interface in Gold/Nickel Phosphide Heterojunction for Photocatalytic Water Splitting. <i>Advanced Functional Materials</i> , 2020 , 30, 1908239 | 15.6 | 27 |
| 263 | A tailored oxide interface creates dense Pt single-atom catalysts with high catalytic activity. <i>Energy and Environmental Science</i> , 2020 , 13, 1231-1239 | 35.4 | 77 |
| 262 | Surface Termination-Dependent Nanotribological Properties of Single-Crystal MAPbBr ₃ Surfaces. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 1484-1491 | 3.8 | 6 |

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|-----|--|------|----|
| 261 | High methane selective Pt cluster catalyst supported on Ga ₂ O ₃ for CO ₂ hydrogenation. <i>Catalysis Today</i> , 2020 , 352, 212-219 | 5.3 | 10 |
| 260 | Nanotribological Effect of Water Layers Intercalated between Exfoliated MoS ₂ and Mica. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16902-16907 | 3.8 | 4 |
| 259 | Surface Characterization on Catalytic and Energy Materials from Single Crystals to Nanoparticles. <i>ACS Nano</i> , 2020 , | 16.7 | 10 |
| 258 | In Situ Visualization of Localized Surface Plasmon Resonance-Driven Hot Hole Flux. <i>Advanced Science</i> , 2020 , 7, 2001148 | 13.6 | 11 |
| 257 | Troponin Aptamer on an Atomically Flat Au Nanoplate Platform for Detection of Cardiac Troponin I. <i>Nanomaterials</i> , 2020 , 10, | 5.4 | 6 |
| 256 | Enhanced charge storage properties of ultrananocrystalline diamond films by contact electrification-induced hydrogenation.. <i>RSC Advances</i> , 2020 , 10, 33189-33195 | 3.7 | 1 |
| 255 | Enhanced flux of chemically induced hot electrons on a Pt nanowire/Si nanodiode during decomposition of hydrogen peroxide. <i>Nanoscale Advances</i> , 2020 , 2, 4410-4416 | 5.1 | 2 |
| 254 | Catalytic Synergy on PtNi Bimetal Catalysts Driven by Interfacial Intermediate Structures. <i>ACS Catalysis</i> , 2020 , 10, 10459-10467 | 13.1 | 18 |
| 253 | A combined experimental and theoretical approach revealing a direct mechanism for bifunctional water splitting on doped copper phosphide. <i>Nanoscale</i> , 2020 , 12, 17769-17779 | 7.7 | 5 |
| 252 | Operando observations of reactive metal oxide structure formation on the Pt ₃ Ni(111) surface at near-ambient pressure. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2020 , 238, 146857 | 1.7 | 4 |
| 251 | Ferroelectric-Polymer-Enabled Contactless Electric Power Generation in Triboelectric Nanogenerators. <i>Advanced Functional Materials</i> , 2019 , 29, 1905816 | 15.6 | 24 |
| 250 | Influence of carbon doping concentration on photoelectrochemical activity of TiO ₂ nanotube arrays under water oxidation. <i>Catalysis Science and Technology</i> , 2019 , 9, 688-694 | 5.5 | 11 |
| 249 | Enhanced hot electron generation by inverse metal-oxide interfaces on catalytic nanodiode. <i>Faraday Discussions</i> , 2019 , 214, 353-364 | 3.6 | 9 |
| 248 | Defective Nb ₂ O ₅ -supported Pt catalysts for CO oxidation: Promoting catalytic activity via oxygen vacancy engineering. <i>Journal of Catalysis</i> , 2019 , 375, 124-134 | 7.3 | 41 |
| 247 | Two-dimensional FeS ₂ -encapsulated Au: a quasi-epitaxial heterojunction for synergistic catalytic activity under photoelectrocatalytic water reduction. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 19258-19268 | 13.2 | 10 |
| 246 | Applications in catalysis, photochemistry, and photodetection: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 479-499 | 3.6 | 2 |
| 245 | Theory of hot electrons: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 245-281 | 3.6 | 15 |
| 244 | Influence of Support Acidity of Pt/Nb ₂ O ₅ Catalysts on Selectivity of CO ₂ Hydrogenation. <i>Catalysis Letters</i> , 2019 , 149, 2823-2835 | 2.8 | 10 |

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| 243 | Dynamics of hot electron generation in metallic nanostructures: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 123-146 | 3.6 | 13 |
| 242 | New materials for hot electron generation: general discussion. <i>Faraday Discussions</i> , 2019 , 214, 365-386 | 3.6 | 4 |
| 241 | Hot electron-driven electrocatalytic hydrogen evolution reaction on metal-semiconductor nanodiode electrodes. <i>Scientific Reports</i> , 2019 , 9, 6208 | 4.9 | 7 |
| 240 | Hydrogen production by water reduction on Si photocathode coupled with Ni ₂ P. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 7241-7251 | 6.7 | 6 |
| 239 | Nanoscale Friction on Confined Water Layers Intercalated between MoS ₂ Flakes and Silica. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 8827-8835 | 3.8 | 19 |
| 238 | Nanoscale investigation of improved triboelectric properties of UV-irradiated ultrananocrystalline diamond films. <i>Nanoscale</i> , 2019 , 11, 6120-6128 | 7.7 | 5 |
| 237 | Hot Electron Transport on Three-Dimensional Pt/Mesoporous TiO Schottky Nanodiodes. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 15152-15159 | 9.5 | 9 |
| 236 | Influence of hydrogen incorporation on conductivity and work function of VO nanowires. <i>Nanoscale</i> , 2019 , 11, 4219-4225 | 7.7 | 4 |
| 235 | Dynamic friction behavior of ultrananocrystalline diamond films: A depth-resolved chemical phase analysis. <i>Ceramics International</i> , 2019 , 45, 23418-23422 | 5.1 | 3 |
| 234 | Intrinsic Relation between Hot Electron Flux and Catalytic Selectivity during Methanol Oxidation. <i>ACS Catalysis</i> , 2019 , 9, 8424-8432 | 13.1 | 6 |
| 233 | Atomic-scale view of stability and degradation of single-crystal MAPbBr ₃ surfaces. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 20760-20766 | 13 | 27 |
| 232 | The effect of the oxidation states of supported oxides on catalytic activity: CO oxidation studies on Pt/cobalt oxide. <i>Chemical Communications</i> , 2019 , 55, 9503-9506 | 5.8 | 14 |
| 231 | Size-controlled model Ni catalysts on Ga ₂ O ₃ for CO ₂ hydrogenation to methanol. <i>Journal of Catalysis</i> , 2019 , 376, 68-76 | 7.3 | 23 |
| 230 | Elongated Lifetime and Enhanced Flux of Hot Electrons on a Perovskite Plasmonic Nanodiode. <i>Nano Letters</i> , 2019 , 19, 5489-5495 | 11.5 | 23 |
| 229 | Hot electrons generated by intraband and interband transition detected using a plasmonic Cu/TiO nanodiode. <i>RSC Advances</i> , 2019 , 9, 18371-18376 | 3.7 | 25 |
| 228 | Height determination of single-layer graphene on mica at controlled humidity using atomic force microscopy. <i>Review of Scientific Instruments</i> , 2019 , 90, 103702 | 1.7 | 6 |
| 227 | Oxygen activation on the interface between Pt nanoparticles and mesoporous defective TiO during CO oxidation. <i>Journal of Chemical Physics</i> , 2019 , 151, 234716 | 3.9 | 23 |
| 226 | Charge Transfer during the Aluminum-Water Reaction Studied with Schottky Nanodiode Sensors. <i>ACS Omega</i> , 2019 , 4, 20838-20843 | 3.9 | 3 |

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|-----|---|------|----|
| 225 | Water-Assisted Growth of Cobalt Oxide and Cobalt Hydroxide Overlayers on the Pt ₃ Co(111) Surface. <i>ACS Applied Energy Materials</i> , 2019 , 2, 8580-8586 | 6.1 | 5 |
| 224 | Boron-Doped Nanocrystalline Diamond-Carbon Nanospire Hybrid Electron Emission Source. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48612-48623 | 9.5 | 7 |
| 223 | Facile Tuning of Metal/Oxide Interface in Hollow Nanoreactor Affecting Catalytic Activity and Selectivity. <i>Catalysis Letters</i> , 2019 , 149, 119-126 | 2.8 | 2 |
| 222 | Direct Imaging of Surface Plasmon-Driven Hot Electron Flux on the Au Nanoprism/TiO ₂ . <i>Nano Letters</i> , 2019 , 19, 891-896 | 11.5 | 47 |
| 221 | Nitrogen ion implanted ultrananocrystalline diamond films: A better electrostatic charge storage medium. <i>Carbon</i> , 2019 , 141, 123-133 | 10.4 | 6 |
| 220 | In Situ Observation of Competitive CO and O ₂ Adsorption on the Pt(111) Surface Using Near-Ambient Pressure Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 6246-6254 | 3.8 | 12 |
| 219 | Reversible Oxygen-Driven Nickel Oxide Structural Transition on the Nickel(1 1 1) Surface at Near-Ambient Pressure. <i>ChemCatChem</i> , 2018 , 10, 2046-2050 | 5.2 | 7 |
| 218 | Synthesis of High Surface Area TiO ₂ Aerogel Support with Pt Nanoparticle Catalyst and CO Oxidation Study. <i>Catalysis Letters</i> , 2018 , 148, 1504-1513 | 2.8 | 7 |
| 217 | The surface plasmon-induced hot carrier effect on the catalytic activity of CO oxidation on a CuO/hexoctahedral Au inverse catalyst. <i>Nanoscale</i> , 2018 , 10, 10835-10843 | 7.7 | 27 |
| 216 | Reduced Graphene Oxide as a Catalyst Binder: Greatly Enhanced Photoelectrochemical Stability of Cu(In,Ga)Se ₂ Photocathode for Solar Water Splitting. <i>Advanced Functional Materials</i> , 2018 , 28, 1705136 | 15.6 | 32 |
| 215 | Columnar-Structured Low-Concentration Donor Molecules in Bulk Heterojunction Organic Solar Cells. <i>ACS Omega</i> , 2018 , 3, 929-936 | 3.9 | 8 |
| 214 | Isotope- and Thickness-Dependent Friction of Water Layers Intercalated Between Graphene and Mica. <i>Tribology Letters</i> , 2018 , 66, 1 | 2.8 | 16 |
| 213 | Enhanced catalytic activity for CO oxidation by the metal-oxide perimeter of TiO ₂ /nanostructured Au inverse catalysts. <i>Nanoscale</i> , 2018 , 10, 3911-3917 | 7.7 | 17 |
| 212 | Enhancement of Hot Electron Flow in Plasmonic Nanodiodes by Incorporating PbS Quantum Dots. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 5081-5089 | 9.5 | 12 |
| 211 | In Situ Observations of UV-Induced Restructuring of Self-Assembled Porphyrin Monolayer on Liquid/Au(111) Interface at Molecular Level. <i>Langmuir</i> , 2018 , 34, 6003-6009 | 4 | 6 |
| 210 | Hydrogen Generation on Metal/Mesoporous Oxides: The Effects of Hierarchical Structure, Doping, and Co-catalysts. <i>Energy Technology</i> , 2018 , 6, 459-469 | 3.5 | 22 |
| 209 | Hot electron flux at solid-liquid interfaces probed with Pt/Si catalytic nanodiodes: Effects of pH during decomposition of hydrogen peroxide. <i>Catalysis Today</i> , 2018 , 303, 282-288 | 5.3 | 11 |
| 208 | The Effect of Thickness and Chemical Reduction of Graphene Oxide on Nanoscale Friction. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 543-547 | 3.4 | 18 |

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|-----|---|------|----|
| 207 | Hot electron generation on metal catalysts under surface reaction: Principles, devices, and application. <i>Chinese Chemical Letters</i> , 2018 , 29, 727-733 | 8.1 | 4 |
| 206 | MOF-Derived Bifunctional Iron Oxide and Iron Phosphide Nanoarchitecture Photoelectrode for Neutral Water Splitting. <i>ChemElectroChem</i> , 2018 , 5, 2842-2849 | 4.3 | 21 |
| 205 | Adsorbate-driven reactive interfacial Pt-NiO nanostructure formation on the PtNi(111) alloy surface. <i>Science Advances</i> , 2018 , 4, eaat3151 | 14.3 | 53 |
| 204 | Three-dimensional hot electron photovoltaic device with vertically aligned TiO nanotubes. <i>Scientific Reports</i> , 2018 , 8, 7330 | 4.9 | 22 |
| 203 | How titanium dioxide cleans itself. <i>Science</i> , 2018 , 361, 753 | 33.3 | 16 |
| 202 | Mussel-Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity. <i>Advanced Materials</i> , 2018 , 30, e1803267 | 24 | 49 |
| 201 | Boosting hot electron flux and catalytic activity at metal-oxide interfaces of PtCo bimetallic nanoparticles. <i>Nature Communications</i> , 2018 , 9, 2235 | 17.4 | 56 |
| 200 | Iron-doped ZnO as a support for Pt-based catalysts to improve activity and stability: enhancement of metal-support interaction by the doping effect.. <i>RSC Advances</i> , 2018 , 8, 21528-21533 | 3.7 | 11 |
| 199 | Effect of the metal-support interaction on the activity and selectivity of methanol oxidation over Au supported on mesoporous oxides. <i>Chemical Communications</i> , 2018 , 54, 8174-8177 | 5.8 | 17 |
| 198 | Compositional engineering of solution-processed BiVO ₄ photoanodes toward highly efficient photoelectrochemical water oxidation. <i>Nano Energy</i> , 2018 , 43, 244-252 | 17.1 | 39 |
| 197 | Self-organized multi-layered graphene-boron-doped diamond hybrid nanowalls for high-performance electron emission devices. <i>Nanoscale</i> , 2018 , 10, 1345-1355 | 7.7 | 38 |
| 196 | Compositional effect of two-dimensional monodisperse AuPd bimetallic nanoparticle arrays fabricated by block copolymer nanopatterning on catalytic activity of CO oxidation. <i>Chemical Communications</i> , 2018 , 54, 13734-13737 | 5.8 | 6 |
| 195 | Plasmonic hot carrier-driven oxygen evolution reaction on Au nanoparticles/TiO nanotube arrays. <i>Nanoscale</i> , 2018 , 10, 22180-22188 | 7.7 | 63 |
| 194 | Ambient-pressure atomic force microscope with variable pressure from ultra-high vacuum up to one bar. <i>Review of Scientific Instruments</i> , 2018 , 89, 103701 | 1.7 | 6 |
| 193 | Graphene Fibers: Mussel-Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity (Adv. Mater. 40/2018). <i>Advanced Materials</i> , 2018 , 30, 1870298 | 24 | 2 |
| 192 | Area-Selective Atomic Layer Deposition Using Si Precursors as Inhibitors. <i>Chemistry of Materials</i> , 2018 , 30, 7603-7610 | 9.6 | 52 |
| 191 | Low Temperature Synthesis of Lithium-Doped Nanocrystalline Diamond Films with Enhanced Field Electron Emission Properties. <i>Nanomaterials</i> , 2018 , 8, | 5.4 | 4 |
| 190 | Polarization Effect of Hot Electrons in Tandem-Structured Plasmonic Nanodiode. <i>ACS Photonics</i> , 2018 , 5, 3499-3506 | 6.3 | 18 |

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|-----|--|------|-----|
| 189 | Isotope Effect of Hot Electrons Generated on Pt Nanoparticle Surfaces Under H ₂ and D ₂ Oxidation. <i>Topics in Catalysis</i> , 2018 , 61, 915-922 | 2.3 | 5 |
| 188 | Enhancing hot electron collection with nanotube-based three-dimensional catalytic nanodiode under hydrogen oxidation. <i>Chemical Communications</i> , 2018 , 54, 8968-8971 | 5.8 | 10 |
| 187 | Bacterial Nano-Cellulose Triboelectric Nanogenerator. <i>Nano Energy</i> , 2017 , 33, 130-137 | 17.1 | 142 |
| 186 | Mechanistic Insight into the Conversion Chemistry between Au-CuO Heterostructured Nanocrystals Confined inside SiO ₂ Nanospheres. <i>Chemistry of Materials</i> , 2017 , 29, 1788-1795 | 9.6 | 13 |
| 185 | EEWS 2016: Progress and Perspectives of Energy Science and Technology. <i>ACS Energy Letters</i> , 2017 , 2, 592-594 | 20.1 | |
| 184 | Transfer-printable micropatterned fluoropolymer-based triboelectric nanogenerator. <i>Nano Energy</i> , 2017 , 36, 126-133 | 17.1 | 37 |
| 183 | Non-Colloidal Nanocatalysts Fabricated Using Arc Plasma Deposition and Their Application in Heterogenous Catalysis and Photocatalysis. <i>Topics in Catalysis</i> , 2017 , 60, 812-822 | 2.3 | 10 |
| 182 | Nanospace-Confined High-Temperature Solid-State Reactions: Versatile Synthetic Route for High-Diversity Pool of Catalytic Nanocrystals. <i>Chemistry of Materials</i> , 2017 , 29, 9463-9471 | 9.6 | 12 |
| 181 | Probing surface oxide formations on SiO ₂ -supported platinum nanocatalysts under CO oxidation. <i>RSC Advances</i> , 2017 , 7, 45003-45009 | 3.7 | 18 |
| 180 | Extremely high electrical conductance of microporous 3D graphene-like zeolite-templated carbon framework. <i>Scientific Reports</i> , 2017 , 7, 11460 | 4.9 | 19 |
| 179 | Surfactant-Free Vapor-Phase Synthesis of Single-Crystalline Gold Nanoplates for Optimally Bioactive Surfaces. <i>Chemistry of Materials</i> , 2017 , 29, 8747-8756 | 9.6 | 22 |
| 178 | Hot plasmonic electron-driven catalytic reactions on patterned metal-insulator-metal nanostructures. <i>Nanoscale</i> , 2017 , 9, 11667-11677 | 7.7 | 8 |
| 177 | Strategies for Hot Electron-Mediated Catalytic Reactions: Catalytronics. <i>Catalysis Letters</i> , 2017 , 147, 1851-1860 | 2.8 | 12 |
| 176 | Nanoscale investigation of enhanced electron field emission for silver ion implanted/post-annealed ultrananocrystalline diamond films. <i>Scientific Reports</i> , 2017 , 7, 16325 | 4.9 | 14 |
| 175 | Enhancement of Friction by Water Intercalated between Graphene and Mica. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 3482-3487 | 6.4 | 45 |
| 174 | Nature of Active Sites and Their Quantitative Measurement in Two-Dimensional Pt Metal Catalysts. <i>Catalysis Letters</i> , 2017 , 147, 39-45 | 2.8 | 10 |
| 173 | Seamlessly Conductive 3D Nanoarchitecture of Core-Shell Ni-Co Nanowire Network for Highly Efficient Oxygen Evolution. <i>Advanced Energy Materials</i> , 2017 , 7, 1601492 | 21.8 | 184 |
| 172 | Surface plasmon-driven catalytic reactions on a patterned Co ₃ O ₄ /Au inverse catalyst. <i>RSC Advances</i> , 2017 , 7, 56073-56080 | 3.7 | 11 |

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|-----|--|------|-----|
| 171 | Hot Electrons at Solid-Liquid Interfaces: A Large Chemoelectric Effect during the Catalytic Decomposition of Hydrogen Peroxide. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 10859-62 | 16.4 | 16 |
| 170 | Synergetic effects of edge formation and sulfur doping on the catalytic activity of a graphene-based catalyst for the oxygen reduction reaction. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 14400-14407 | 13 | 27 |
| 169 | Photocatalytic activity of metal-decorated SiO ₂ @TiO ₂ hybrid photocatalysts under water splitting. <i>Korean Journal of Chemical Engineering</i> , 2016 , 33, 2325-2329 | 2.8 | 14 |
| 168 | Work function engineering of SnO single crystal microplates with thermal annealing. <i>Nanotechnology</i> , 2016 , 27, 335603 | 3.4 | 10 |
| 167 | Hot Electrons at Solid-Liquid Interfaces: A Large Chemoelectric Effect during the Catalytic Decomposition of Hydrogen Peroxide. <i>Angewandte Chemie</i> , 2016 , 128, 11017-11020 | 3.6 | 16 |
| 166 | Bimodal Control of Heat Transport at Graphene-Metal Interfaces Using Disorder in Graphene. <i>Scientific Reports</i> , 2016 , 6, 34428 | 4.9 | 5 |
| 165 | Reply to "Comment on 'Nanohole-Structured and Palladium-Embedded 3D Porous Graphene for Ultrahigh Hydrogen Storage and CO Oxidation Multifunctionalities'". <i>ACS Nano</i> , 2016 , 10, 9057-9060 | 16.7 | |
| 164 | Hot carrier multiplication on graphene/TiO ₂ Schottky nanodiodes. <i>Scientific Reports</i> , 2016 , 6, 27549 | 4.9 | 27 |
| 163 | Pt/oxide nanocatalysts synthesized via the ultrasonic spray pyrolysis process: engineering metal-oxide interfaces for enhanced catalytic activity. <i>Research on Chemical Intermediates</i> , 2016 , 42, 211-222 | 2.8 | 2 |
| 162 | Lanthanum-catalysed synthesis of microporous 3D graphene-like carbons in a zeolite template. <i>Nature</i> , 2016 , 535, 131-5 | 50.4 | 188 |
| 161 | Hot Electron Surface Chemistry at Oxide-Metal Interfaces: Foundation of Acid-base Catalysis. <i>Catalysis Letters</i> , 2016 , 146, 1-11 | 2.8 | 27 |
| 160 | Friction and conductance imaging of sp ² - and sp ³ -hybridized subdomains on single-layer graphene oxide. <i>Nanoscale</i> , 2016 , 8, 4063-9 | 7.7 | 26 |
| 159 | Photocatalytic H ₂ generation on macro-mesoporous oxide-supported Pt nanoparticles. <i>RSC Advances</i> , 2016 , 6, 18198-18203 | 3.7 | 12 |
| 158 | Effect of surface oxygen functionalization of carbon support on the activity and durability of Pt/C catalysts for the oxygen reduction reaction. <i>Carbon</i> , 2016 , 101, 449-457 | 10.4 | 86 |
| 157 | Tailoring metal-oxide interfaces of oxide-encapsulated Pt/silica hybrid nanocatalysts with enhanced thermal stability. <i>Catalysis Today</i> , 2016 , 265, 245-253 | 5.3 | 21 |
| 156 | The nature of hot electrons generated by exothermic catalytic reactions. <i>Chemical Physics Letters</i> , 2016 , 645, 5-14 | 2.5 | 23 |
| 155 | Thermal Evolution and Instability of CO-Induced Platinum Clusters on the Pt(557) Surface at Ambient Pressure. <i>Journal of the American Chemical Society</i> , 2016 , 138, 1110-3 | 16.4 | 24 |
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