Jeong Young Park

List of Publications by Year
in descending order

305	15,587	22153	22166
papers	citations	59 h-index	113 g-index

322	322	322	18603
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancing the inherent catalytic activity and stability of TiO₂ supported Pt single-atoms at CeO_xâ€“TiO₂ interfaces. Journal of Materials Chemistry A, 2022, 10, 5942-5952.	10.3	7
2	Revealing Pt-seed-induced structural effects to tribological/electrical/thermoelectric modulations in two-dimensional PtSe2 using scanning probe microscopy. Nano Energy, 2022, 91, 106693.	16.0	9
3	Trioctylphosphine Oxide (TOPO)-Assisted Facile Fabrication of Phosphorus-Incorporated Nanostructured Carbon Nitride Toward Photoelectrochemical Water Splitting with Enhanced Activity. Inorganic Chemistry, 2022, 61, 1368-1376.	4.0	10
4	Doping effect of zeolite-templated carbon on electrical conductance and supercapacitance properties. Carbon, 2022, 193, 42-50.	10.3	15
5	Enhanced hydrogenation conversion efficiency of porous nickel particles with homogeneously distributed unimodal nanopores. Scripta Materialia, 2022, 216, 114761.	5.2	0
6	Hydrogen spillover in nonreducible oxides: Mechanism and catalytic utilization. Nano Research, 2022, 15, 10357-10365.	10.4	14
7	Synergistic interactions between water and the metal/oxide interface in CO oxidation on Pt/CeO2 model catalysts. Catalysis Today, 2022, , .	4.4	3
8	Direct Observation of Atomic-Scale Gliding on Hydrophilic Surfaces. Journal of Physical Chemistry Letters, 2022, 13, 6612-6618.	4.6	0
9	Relaxation Dynamics of Enhanced Hot-Electron Flow on Perovskite-Coupled Plasmonic Silver Schottky Nanodiodes. Journal of Physical Chemistry C, 2021, 125, 2575-2582.	3.1	7
10	Hydrogenation of diamond nanowire surfaces for effective electrostatic charge storage. Nanoscale, 2021, 13, 7308-7321.	5.6	4
11	Cu oxide deposited on shape-controlled ceria nanocrystals for CO oxidation: influence of interface-driven oxidation states on catalytic activity. Catalysis Science and Technology, 2021, 11, 6134-6142.	4.1	19
12	The facet effect of ceria nanoparticles on platinum dispersion and catalytic activity of methanol partial oxidation. Chemical Communications, 2021, 57, 7382-7385.	4.1	16
13	In-Situ Nanotribological Properties of Ultrananocrystalline Diamond Films Investigated with Ambient Pressure Atomic Force Microscopy. Journal of Physical Chemistry C, 2021, 125, 6909-6915.	3.1	8
14	Manipulation of hot electron flow on plasmonic nanodiodes fabricated by nanosphere lithography. Nanotechnology, 2021, 32, 225203.	2.6	8
15	Operando Surface Studies on Metal-Oxide Interfaces of Bimetal and Mixed Catalysts. ACS Catalysis, 2021, 11, 8645-8677.	11.2	39
16	Catalytic Interplay of Ga, Pt, and Ce on the Alumina Surface Enabling High Activity, Selectivity, and Stability in Propane Dehydrogenation. ACS Catalysis, 2021, 11, 10767-10777.	11.2	28
17	Surface chemistry of hot electron and metal-oxide interfaces. Surface Science Reports, 2021, 76, 100532.	7.2	16
18	Breaking the inverse relationship between catalytic activity and selectivity in acetylene partial hydrogenation using dynamic metalâ€“polymer interaction. Journal of Catalysis, 2021, 404, 716-725.	6.2	8

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19	Sodium-free synthesis of mesoporous zeolite to support Pt-Y alloy nanoparticles exhibiting high catalytic performance in propane dehydrogenation. Journal of Catalysis, 2021, 404, 760-770.	6.2	16
20	Coverage of capping ligands determining the selectivity of multi-carbon products and morphological evolution of Cu nanocatalysts in electrochemical reduction of CO₂. Journal of Materials Chemistry A, 2021, 9, 11210-11218.	10.3	8
21	Controlling hot electron flux and catalytic selectivity with nanoscale metal-oxide interfaces. Nature Communications, 2021, 12, 40.	12.8	20
22	Continuous 3D-nanopatterned Niâ€“Mo solid solution as a free-standing electrocatalyst for the hydrogen evolution reaction in alkaline medium. Journal of Materials Chemistry A, 2021, 9, 7767-7773.	10.3	17
23	Influence of lattice oxygen on the catalytic activity of blue titania supported Pt catalyst for CO oxidation. Catalysis Science and Technology, 2021, 11, 1698-1708.	4.1	18
24	Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. ACS Catalysis, 2021, 11, 1516-1527.	11.2	20
25	Electronic Control of Hot Electron Transport Using Modified Schottky Barriers in Metalâ€“Semiconductor Nanodiodes. ACS Applied Materials & Interfaces, 2021, 13, 9252-9259.	8.0	17
26	Atomic scale friction properties of confined water layers. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	3
27	Atomicâ€Scale Observations of the Manganese Porphyrin/Au Catalyst Interface Under the Electrocatalytic Process Revealed with Electrochemical Scanning Tunneling Microscopy. Advanced Materials Interfaces, 2021, 8, 2100873.	3.7	6
28	Atomicâ€Scale Observations of the Manganese Porphyrin/Au Catalyst Interface Under the Electrocatalytic Process Revealed with Electrochemical Scanning Tunneling Microscopy (Adv. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0	
29	Operando observations of reactive metalâ€“Oxide structure formation on the Pt3Ni(111) surface at near-ambient pressure. Journal of Electron Spectroscopy and Related Phenomena, 2020, 238, 146857.	1.7	6
30	Surface Energy Change of Atomic-Scale Metal Oxide Thin Films by Phase Transformation. ACS Nano, 2020, 14, 676-687.	14.6	10
31	Plasmonâ€Induced Hot Carrier Separation across Dual Interface in Goldâ€“Nickel Phosphide Heterojunction for Photocatalytic Water Splitting. Advanced Functional Materials, 2020, 30, 1908239.	14.9	43
32	A tailored oxide interface creates dense Pt single-atom catalysts with high catalytic activity. Energy and Environmental Science, 2020, 13, 1231-1239.	30.8	140
33	Surface Termination-Dependent Nanotribological Properties of Single-Crystal MAPbBr₃ Surfaces. Journal of Physical Chemistry C, 2020, 124, 1484-1491.	3.1	15
34	High methane selective Pt cluster catalyst supported on Ga2O3 for CO2 hydrogenation. Catalysis Today, 2020, 352, 212-219.	4.4	20
35	Nanotribological Effect of Water Layers Intercalated between Exfoliated MoS₂ and Mica. Journal of Physical Chemistry C, 2020, 124, 16902-16907.	3.1	12
36	Operando Surface Characterization on Catalytic and Energy Materials from Single Crystals to Nanoparticles. ACS Nano, 2020, 14, 16392-16413.	14.6	24

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37	In Situ Visualization of Localized Surface Plasmon Resonanceâ€Driven Hot Hole Flux. Advanced Science, 2020, 7, 2001148.	11.2	24
38	Oxide chemistry and catalysis. Journal of Chemical Physics, 2020, 153, 050401.	3.0	1
39	Troponin Aptamer on an Atomically Flat Au Nanoplate Platform for Detection of Cardiac Troponin I. Nanomaterials, 2020, 10, 1402.	4.1	15
40	Enhanced charge storage properties of ultrananocrystalline diamond films by contact electrification-induced hydrogenation. RSC Advances, 2020, 10, 33189-33195.	3.6	1
41	Enhanced flux of chemically induced hot electrons on a Pt nanowire/Si nanodiode during decomposition of hydrogen peroxide. Nanoscale Advances, 2020, 2, 4410-4416.	4.6	6
42	Catalytic Synergy on PtNi Bimetal Catalysts Driven by Interfacial Intermediate Structures. ACS Catalysis, 2020, 10, 10459-10467.	11.2	53
43	A combined experimental and theoretical approach revealing a direct mechanism for bifunctional water splitting on doped copper phosphide. Nanoscale, 2020, 12, 17769-17779.	5.6	21
44	Role of Oxygen in Two-Step Thermal Annealing Processes for Enhancing the Performance of Colloidal Quantum Dot Solar Cells. ACS Applied Materials & Interfaces, 2020, 12, 57840-57846.	8.0	7
45	How Rh surface breaks CO2 molecules under ambient pressure. Nature Communications, 2020, 11, 5649.	12.8	24
46	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. Nano Energy, 2020, 75, 104904.	16.0	105
47	Engineering Nanoscale Interfaces of Metal/Oxide Nanowires to Control Catalytic Activity. ACS Nano, 2020, 14, 8335-8342.	14.6	22
48	Plasmonicâ€“Catalytic Nanomaterials: Plasmonâ€Induced Hot Carrier Separation across Dual Interface in Goldâ€“Nickel Phosphide Heterojunction for Photocatalytic Water Splitting (Adv. Funct. Mater.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 2	14.9	1
49	Restructuring of Porphyrin Networks Driven by Self-Assembled Octanoic Acid Monolayer on Au(111). Langmuir, 2020, 36, 3792-3797.	3.5	10
50	Nanodiode-based hot electrons: Influence on surface chemistry and catalytic reactions. MRS Bulletin, 2020, 45, 26-31.	3.5	11
51	Dynamic friction behavior of ultrananocrystalline diamond films: A depth-resolved chemical phase analysis. Ceramics International, 2019, 45, 23418-23422.	4.8	4
52	Intrinsic Relation between Hot Electron Flux and Catalytic Selectivity during Methanol Oxidation. ACS Catalysis, 2019, 9, 8424-8432.	11.2	15
53	Atomic-scale view of stability and degradation of single-crystal MAPbBr₃ surfaces. Journal of Materials Chemistry A, 2019, 7, 20760-20766.	10.3	46
54	The effect of the oxidation states of supported oxides on catalytic activity: CO oxidation studies on Pt/cobalt oxide. Chemical Communications, 2019, 55, 9503-9506.	4.1	28

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55	Size-controlled model Ni catalysts on Ga2O3 for CO2 hydrogenation to methanol. Journal of Catalysis, 2019, 376, 68-76.	6.2	50
56	Elongated Lifetime and Enhanced Flux of Hot Electrons on a Perovskite Plasmonic Nanodiode. Nano Letters, 2019, 19, 5489-5495.	9.1	38
57	Hot electrons generated by intraband and interband transition detected using a plasmonic Cu/TiO₂ nanodiode. RSC Advances, 2019, 9, 18371-18376.	3.6	38
58	Height determination of single-layer graphene on mica at controlled humidity using atomic force microscopy. Review of Scientific Instruments, 2019, 90, .	1.3	14
59	Ferroelectricâ€Polymerâ€Enabled Contactless Electric Power Generation in Triboelectric Nanogenerators. Advanced Functional Materials, 2019, 29, 1905816.	14.9	41
60	Influence of carbon doping concentration on photoelectrochemical activity of TiO2 nanotube arrays under water oxidation. Catalysis Science and Technology, 2019, 9, 688-694.	4.1	17
61	Enhanced hot electron generation by inverse metalâ€“oxide interfaces on catalytic nanodiode. Faraday Discussions, 2019, 214, 353-364.	3.2	13
62	Defective Nb2O5-supported Pt catalysts for CO oxidation: Promoting catalytic activity via oxygen vacancy engineering. Journal of Catalysis, 2019, 375, 124-134.	6.2	70
63	Two-dimensional FeS₂-encapsulated Au: a quasi-epitaxial heterojunction for synergistic catalytic activity under photoelectrocatalytic water reduction. Journal of Materials Chemistry A, 2019, 7, 19258-19268.	10.3	16
64	Applications in catalysis, photochemistry, and photodetection: general discussion. Faraday Discussions, 2019, 214, 479-499.	3.2	5
65	Theory of hot electrons: general discussion. Faraday Discussions, 2019, 214, 245-281.	3.2	34
66	Influence of Support Acidity of Pt/Nb2O5 Catalysts on Selectivity of CO2 Hydrogenation. Catalysis Letters, 2019, 149, 2823-2835.	2.6	24
67	Dynamics of hot electron generation in metallic nanostructures: general discussion. Faraday Discussions, 2019, 214, 123-146.	3.2	21
68	New materials for hot electron generation: general discussion. Faraday Discussions, 2019, 214, 365-386.	3.2	9
69	Hot electron-driven electrocatalytic hydrogen evolution reaction on metalâ€“semiconductor nanodiode electrodes. Scientific Reports, 2019, 9, 6208.	3.3	10
70	Hydrogen production by water reduction on Si photocathode coupled with Ni2P. International Journal of Hydrogen Energy, 2019, 44, 7241-7251.	7.1	8
71	Nanoscale Friction on Confined Water Layers Intercalated between MoS₂ Flakes and Silica. Journal of Physical Chemistry C, 2019, 123, 8827-8835.	3.1	36
72	Nanoscale investigation of improved triboelectric properties of UV-irradiated ultrananocrystalline diamond films. Nanoscale, 2019, 11, 6120-6128.	5.6	10

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73	Hot Electron Transport on Three-Dimensional Pt/Mesoporous TiO₂ Schottky Nanodiodes. ACS Applied Materials & Interfaces, 2019, 11, 15152-15159.	8.0	14
74	Influence of hydrogen incorporation on conductivity and work function of VO₂ nanowires. Nanoscale, 2019, 11, 4219-4225.	5.6	9
75	Oxygen activation on the interface between Pt nanoparticles and mesoporous defective TiO2 during CO oxidation. Journal of Chemical Physics, 2019, 151, 234716.	3.0	37
76	Charge Transfer during the Aluminumâ€“Water Reaction Studied with Schottky Nanodiode Sensors. ACS Omega, 2019, 4, 20838-20843.	3.5	7
77	Water-Assisted Growth of Cobalt Oxide and Cobalt Hydroxide Overlayers on the Pt₃Co(111) Surface. ACS Applied Energy Materials, 2019, 2, 8580-8586.	5.1	13
78	Boron-Doped Nanocrystalline Diamondâ€“Carbon Nanospike Hybrid Electron Emission Source. ACS Applied Materials & Interfaces, 2019, 11, 48612-48623.	8.0	13
79	Facile Tuning of Metal/Oxide Interface in Hollow Nanoreactor Affecting Catalytic Activity and Selectivity. Catalysis Letters, 2019, 149, 119-126.	2.6	5
80	Direct Imaging of Surface Plasmon-Driven Hot Electron Flux on the Au Nanoprism/TiO₂. Nano Letters, 2019, 19, 891-896.	9.1	72
81	Nitrogen ion implanted ultrananocrystalline diamond films: A better electrostatic charge storage medium. Carbon, 2019, 141, 123-133.	10.3	7
82	In Situ Observation of Competitive CO and O₂ Adsorption on the Pt(111) Surface Using Near-Ambient Pressure Scanning Tunneling Microscopy. Journal of Physical Chemistry C, 2018, 122, 6246-6254.	3.1	16
83	Reversible Oxygenâ€Driven Nickel Oxide Structural Transition on the Nickel(1â€‰1â€‰1) Surface at Nearâ€Ambient Pressure. ChemCatChem, 2018, 10, 2046-2050.	3.7	9
84	Synthesis of High Surface Area TiO2 Aerogel Support with Pt Nanoparticle Catalyst and CO Oxidation Study. Catalysis Letters, 2018, 148, 1504-1513.	2.6	11
85	The surface plasmon-induced hot carrier effect on the catalytic activity of CO oxidation on a Cu₂O/hexoctahedral Au inverse catalyst. Nanoscale, 2018, 10, 10835-10843.	5.6	35
86	Reduced Graphene Oxide as a Catalyst Binder: Greatly Enhanced Photoelectrochemical Stability of Cu(In,Ga)Se₂ Photocathode for Solar Water Splitting. Advanced Functional Materials, 2018, 28, 1705136.	14.9	46
87	Columnar-Structured Low-Concentration Donor Molecules in Bulk Heterojunction Organic Solar Cells. ACS Omega, 2018, 3, 929-936.	3.5	12
88	Isotope- and Thickness-Dependent Friction of Water Layers Intercalated Between Graphene and Mica. Tribology Letters, 2018, 66, 1.	2.6	24
89	Enhanced catalytic activity for CO oxidation by the metalâ€“oxide perimeter of TiO₂/nanostructured Au inverse catalysts. Nanoscale, 2018, 10, 3911-3917.	5.6	22
90	Enhancement of Hot Electron Flow in Plasmonic Nanodiodes by Incorporating PbS Quantum Dots. ACS Applied Materials & Interfaces, 2018, 10, 5081-5089.	8.0	20

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91	In Situ Observations of UV-Induced Restructuring of Self-Assembled Porphyrin Monolayer on Liquid/Au(111) Interface at Molecular Level. Langmuir, 2018, 34, 6003-6009.	3.5	11
92	Hydrogen Generation on Metal/Mesoporous Oxides: The Effects of Hierarchical Structure, Doping, and Coâ€¢catalysts. Energy Technology, 2018, 6, 459-469.	3.8	32
93	Hot electron flux at solidâ€“liquid interfaces probed with Pt/Si catalytic nanodiodes: Effects of pH during decomposition of hydrogen peroxide. Catalysis Today, 2018, 303, 282-288.	4.4	16
94	The Effect of Thickness and Chemical Reduction of Graphene Oxide on Nanoscale Friction. Journal of Physical Chemistry B, 2018, 122, 543-547.	2.6	27
95	Compositional engineering of solution-processed BiVO4 photoanodes toward highly efficient photoelectrochemical water oxidation. Nano Energy, 2018, 43, 244-252.	16.0	57
96	Self-organized multi-layered grapheneâ€“boron-doped diamond hybrid nanowalls for high-performance electron emission devices. Nanoscale, 2018, 10, 1345-1355.	5.6	57
97	Compositional effect of two-dimensional monodisperse AuPd bimetallic nanoparticle arrays fabricated by block copolymer nanopatterning on catalytic activity of CO oxidation. Chemical Communications, 2018, 54, 13734-13737.	4.1	8
98	Plasmonic hot carrier-driven oxygen evolution reaction on Au nanoparticles/TiO₂ nanotube arrays. Nanoscale, 2018, 10, 22180-22188.	5.6	79
99	Ambient-pressure atomic force microscope with variable pressure from ultra-high vacuum up to one bar. Review of Scientific Instruments, 2018, 89, 103701.	1.3	9
100	Graphene Fibers: Musselâ€Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity (Adv. Mater. 40/2018). Advanced Materials, 2018, 30, 1870298.	21.0	4
101	Area-Selective Atomic Layer Deposition Using Si Precursors as Inhibitors. Chemistry of Materials, 2018, 30, 7603-7610.	6.7	78
102	Low Temperature Synthesis of Lithium-Doped Nanocrystalline Diamond Films with Enhanced Field Electron Emission Properties. Nanomaterials, 2018, 8, 653.	4.1	7
103	Polarization Effect of Hot Electrons in Tandem-Structured Plasmonic Nanodiode. ACS Photonics, 2018, 5, 3499-3506.	6.6	19
104	Isotope Effect of Hot Electrons Generated on Pt Nanoparticle Surfaces Under H2 and D2 Oxidation. Topics in Catalysis, 2018, 61, 915-922.	2.8	8
105	Enhancing hot electron collection with nanotube-based three-dimensional catalytic nanodiode under hydrogen oxidation. Chemical Communications, 2018, 54, 8968-8971.	4.1	12
106	Hot electron generation on metal catalysts under surface reaction: Principles, devices, and application. Chinese Chemical Letters, 2018, 29, 727-733.	9.0	6
107	MOFâ€Derived Bifunctional Iron Oxide and Iron Phosphide Nanoarchitecture Photoelectrode for Neutral Water Splitting. ChemElectroChem, 2018, 5, 2842-2849.	3.4	33
108	Adsorbate-driven reactive interfacial Pt-NiO _{1â^' x} nanostructure formation on the Pt ₃ Ni(111) alloy surface. Science Advances, 2018, 4, eaat3151.	10.3	76

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109	Three-dimensional hot electron photovoltaic device with vertically aligned TiO2 nanotubes. Scientific Reports, 2018, 8, 7330.	3.3	23
110	How titanium dioxide cleans itself. Science, 2018, 361, 753-753.	12.6	27
111	Musselâ€Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity. Advanced Materials, 2018, 30, e1803267.	21.0	67
112	Boosting hot electron flux and catalytic activity at metalâ€“oxide interfaces of PtCo bimetallic nanoparticles. Nature Communications, 2018, 9, 2235.	12.8	80
113	Iron-doped ZnO as a support for Pt-based catalysts to improve activity and stability: enhancement of metalâ€“support interaction by the doping effect. RSC Advances, 2018, 8, 21528-21533.	3.6	18
114	Effect of the metalâ€“support interaction on the activity and selectivity of methanol oxidation over Au supported on mesoporous oxides. Chemical Communications, 2018, 54, 8174-8177.	4.1	20
115	Bacterial Nanoâ€Cellulose Triboelectric Nanogenerator. Nano Energy, 2017, 33, 130-137.	16.0	214
116	Mechanistic Insight into the Conversion Chemistry between Au-CuO Heterostructured Nanocrystals Confined inside SiO₂ Nanospheres. Chemistry of Materials, 2017, 29, 1788-1795.	6.7	19
117	EEWS 2016: Progress and Perspectives of Energy Science and Technology. ACS Energy Letters, 2017, 2, 592-594.	17.4	0
118	Transfer-printable micropatterned fluoropolymer-based triboelectric nanogenerator. Nano Energy, 2017, 36, 126-133.	16.0	58
119	Non-Colloidal Nanocatalysts Fabricated Using Arc Plasma Deposition and Their Application in Heterogenous Catalysis and Photocatalysis. Topics in Catalysis, 2017, 60, 812-822.	2.8	14
120	Nanospace-Confined High-Temperature Solid-State Reactions: Versatile Synthetic Route for High-Diversity Pool of Catalytic Nanocrystals. Chemistry of Materials, 2017, 29, 9463-9471.	6.7	23
121	Probing surface oxide formations on SiO₂-supported platinum nanocatalysts under CO oxidation. RSC Advances, 2017, 7, 45003-45009.	3.6	26
122	Extremely high electrical conductance of microporous 3D graphene-like zeolite-templated carbon framework. Scientific Reports, 2017, 7, 11460.	3.3	23
123	Surfactant-Free Vapor-Phase Synthesis of Single-Crystalline Gold Nanoplates for Optimally Bioactive Surfaces. Chemistry of Materials, 2017, 29, 8747-8756.	6.7	23
124	Hot plasmonic electron-driven catalytic reactions on patterned metalâ€“insulatorâ€“metal nanostructures. Nanoscale, 2017, 9, 11667-11677.	5.6	12
125	Strategies for Hot Electron-Mediated Catalytic Reactions: Catalytronics. Catalysis Letters, 2017, 147, 1851-1860.	2.6	12
126	Nanoscale investigation of enhanced electron field emission for silver ion implanted/post-annealed ultrananocrystalline diamond films. Scientific Reports, 2017, 7, 16325.	3.3	18

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127	Enhancement of Friction by Water Intercalated between Graphene and Mica. Journal of Physical Chemistry Letters, 2017, 8, 3482-3487.	4.6	57
128	Nature of Active Sites and Their Quantitative Measurement in Two-Dimensional Pt Metal Catalysts. Catalysis Letters, 2017, 147, 39-45.	2.6	13
129	Seamlessly Conductive 3D Nanoarchitecture of Coreâ€“Shell Niâ€Co Nanowire Network for Highly Efficient Oxygen Evolution. Advanced Energy Materials, 2017, 7, 1601492.	19.5	260
130	Surface plasmon-driven catalytic reactions on a patterned Co₃O₄/Au inverse catalyst. RSC Advances, 2017, 7, 56073-56080.	3.6	13
131	Silk Nanofiberâ€Networked Bioâ€Triboelectric Generator: Silk Bioâ€TEG. Advanced Energy Materials, 2016, 6, 1502329.	19.5	222
132	Crossing Thermal Lubricity and Electronic Effects in Friction: Vanadium Dioxide under the Metalâ€“Insulator Transition. Advanced Materials Interfaces, 2016, 3, 1500388.	3.7	13
133	Local conductance mapping of water-intercalated graphene on mica. Applied Physics Letters, 2016, 109, 241602.	3.3	6
134	Postsynthesis Modulation of the Catalytic Interface inside a Hollow Nanoreactor: Exploitation of the Bidirectional Behavior of Mixed-Valent Mn₃O₄ Phase in the Galvanic Replacement Reaction. Chemistry of Materials, 2016, 28, 9049-9055.	6.7	21
135	Enhanced triboelectrification of the polydimethylsiloxane surface by ultraviolet irradiation. Applied Physics Letters, 2016, 108, .	3.3	32
136	Liquid-phase catalytic reactor combined with measurement of hot electron flux and chemiluminescence. Review of Scientific Instruments, 2016, 87, 114101.	1.3	10
137	A facile method for the selective decoration of graphene defects based on a galvanic displacement reaction. NPG Asia Materials, 2016, 8, e262-e262.	7.9	15
138	Charge transport-driven selective oxidation of graphene. Nanoscale, 2016, 8, 11494-11502.	5.6	9
139	Ultraflat Au nanoplates as a new building block for molecular electronics. Nanotechnology, 2016, 27, 215601.	2.6	11
140	The effect of hot electrons and surface plasmons on heterogeneous catalysis. Journal of Physics Condensed Matter, 2016, 28, 254002.	1.8	48
141	Hot-electron-based solar energy conversion with metalâ€“semiconductor nanodiodes. Journal of Physics Condensed Matter, 2016, 28, 254006.	1.8	22
142	Titelbild: Hot Electrons at Solidâ€“Liquid Interfaces: A Large Chemoelectric Effect during the Catalytic Decomposition of Hydrogen Peroxide (Angew. Chem. 36/2016). Angewandte Chemie, 2016, 128, 10681-10681.	2.0	0
143	Hot Electrons at Solidâ€“Liquid Interfaces: A Large Chemoelectric Effect during the Catalytic Decomposition of Hydrogen Peroxide. Angewandte Chemie - International Edition, 2016, 55, 10859-10862.	13.8	20
144	Synergetic effects of edge formation and sulfur doping on the catalytic activity of a graphene-based catalyst for the oxygen reduction reaction. Journal of Materials Chemistry A, 2016, 4, 14400-14407.	10.3	30

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145	Photocatalytic activity of metal-decorated SiO2@TiO2 hybrid photocatalysts under water splitting. Korean Journal of Chemical Engineering, 2016, 33, 2325-2329.	2.7	16
146	Work function engineering of SnO single crystal microplates with thermal annealing. Nanotechnology, 2016, 27, 335603.	2.6	13
147	Hot Electrons at Solidâ€“Liquid Interfaces: A Large Chemoelectric Effect during the Catalytic Decomposition of Hydrogen Peroxide. Angewandte Chemie, 2016, 128, 11017-11020.	2.0	18
148	Bimodal Control of Heat Transport at Grapheneâ€“Metal Interfaces Using Disorder in Graphene. Scientific Reports, 2016, 6, 34428.	3.3	7
149	Reply to â€œComment on â€˜Nanohole-Structured and Palladium-Embedded 3D Porous Graphene for Ultrahigh Hydrogen Storage and CO Oxidation Multifunctionalitiesâ€™â€• ACS Nano, 2016, 10, 9057-9060.	14.6	0
150	Hot carrier multiplication on graphene/TiO2 Schottky nanodiodes. Scientific Reports, 2016, 6, 27549.	3.3	34
151	Pt/oxide nanocatalysts synthesized via the ultrasonic spray pyrolysis process: engineering metalâ€“oxide interfaces for enhanced catalytic activity. Research on Chemical Intermediates, 2016, 42, 211-222.	2.7	2
152	Lanthanum-catalysed synthesis of microporous 3D graphene-like carbons in a zeolite template. Nature, 2016, 535, 131-135.	27.8	253
153	Hot Electron Surface Chemistry at Oxideâ€“Metal Interfaces: Foundation of Acid-base Catalysis. Catalysis Letters, 2016, 146, 1-11.	2.6	33
154	Friction and conductance imaging of sp²- and sp³-hybridized subdomains on single-layer graphene oxide. Nanoscale, 2016, 8, 4063-4069.	5.6	34
155	Photocatalytic H₂generation on macro-mesoporous oxide-supported Pt nanoparticles. RSC Advances, 2016, 6, 18198-18203.	3.6	14
156	Effect of surface oxygen functionalization of carbon support on the activity and durability of Pt/C catalysts for the oxygen reduction reaction. Carbon, 2016, 101, 449-457.	10.3	115
157	Tailoring metalâ€“oxide interfaces of oxide-encapsulated Pt/silica hybrid nanocatalysts with enhanced thermal stability. Catalysis Today, 2016, 265, 245-253.	4.4	28
158	The nature of hot electrons generated by exothermic catalytic reactions. Chemical Physics Letters, 2016, 645, 5-14.	2.6	26
159	Thermal Evolution and Instability of CO-Induced Platinum Clusters on the Pt(557) Surface at Ambient Pressure. Journal of the American Chemical Society, 2016, 138, 1110-1113.	13.7	28
160	Grapheneâ€“Semiconductor Catalytic Nanodiodes for Quantitative Detection of Hot Electrons Induced by a Chemical Reaction. Nano Letters, 2016, 16, 1650-1656.	9.1	37
161	Charge Transport in Self-Assembled Monolayers. , 2016, , 506-513.		0
162	Organic Solar Cells: Enhancing the Internal Quantum Efficiency and Stability of Organic Solar Cells via Metallic Nanofunnels (Adv. Energy Mater. 24/2015). Advanced Energy Materials, 2015, 5, .	19.5	0

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163	Enhancing the Internal Quantum Efficiency and Stability of Organic Solar Cells via Metallic Nanofunnels. Advanced Energy Materials, 2015, 5, 1501393.	19.5	29
164	Enhanced photocatalytic generation of hydrogen by Pt-deposited nitrogen-doped TiO2 hierarchical nanostructures. Applied Surface Science, 2015, 354, 347-352.	6.1	44
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