Jeong Young Park

List of Publications by Year
in descending order

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305 papers	15,587 citations	22132 59 h-index	22147 113 g-index
322 all docs	322 docs citations	322 times ranked	18603 citing authors

#	Article	IF	Citations
1	Thermally stable Pt/mesoporous silica coreâ€“shell nanocatalysts for high-temperature reactions. Nature Materials, 2009, 8, 126-131.	13.3	1,372
2	Advancing the Frontiers in Nanocatalysis, Biointerfaces, and Renewable Energy Conversion by Innovations of Surface Techniques. Journal of the American Chemical Society, 2009, 131, 16589-16605.	6.6	494
3	Molecular Factors of Catalytic Selectivity. Angewandte Chemie - International Edition, 2008, 47, 9212-9228.	7.2	436
4	Size Effect of Ruthenium Nanoparticles in Catalytic Carbon Monoxide Oxidation. Nano Letters, 2010, 10, 2709-2713.	4.5	379
5	Superlubric Sliding of Graphene Nanoflakes on Graphene. ACS Nano, 2013, 7, 1718-1724.	7.3	370
6	Intrinsic Relationship between Enhanced Oxygen Reduction Reaction Activity and Nanoscale Work Function of Doped Carbons. Journal of the American Chemical Society, 2014, 136, 8875-8878.	6.6	360
7	Friction Anisotropyâ€“Driven Domain Imaging on Exfoliated Monolayer Graphene. Science, 2011, 333, 607-610.	6.0	284
8	Role of Hot Electrons and Metalâ€“Oxide Interfaces in Surface Chemistry and Catalytic Reactions. Chemical Reviews, 2015, 115, 2781-2817.	23.0	282
9	Colloid Science of Metal Nanoparticle Catalysts in 2D and 3D Structures. Challenges of Nucleation, Growth, Composition, Particle Shape, Size Control and Their Influence on Activity and Selectivity. Topics in Catalysis, 2008, 49, 126-135.	1.3	267
10	Surface Plasmon-Driven Hot Electron Flow Probed with Metal-Semiconductor Nanodiodes. Nano Letters, 2011, 11, 4251-4255.	4.5	267
11	Enhanced Nanoscale Friction on Fluorinated Graphene. Nano Letters, 2012, 12, 6043-6048.	4.5	262
12	A Reactive Oxide Overlayer on Rhodium Nanoparticles during CO Oxidation and Its Size Dependence Studied by In Situ Ambientâ€Pressure Xâ€ray Photoelectron Spectroscopy. Angewandte Chemie - International Edition, 2008, 47, 8893-8896.	7.2	260
13	Seamlessly Conductive 3D Nanoarchitecture of Coreâ€“Shell Niâ€Co Nanowire Network for Highly Efficient Oxygen Evolution. Advanced Energy Materials, 2017, 7, 1601492.	10.2	260
14	Sum Frequency Generation and Catalytic Reaction Studies of the Removal of Organic Capping Agents from Pt Nanoparticles by UVâ^'Ozone Treatment. Journal of Physical Chemistry C, 2009, 113, 6150-6155.	1.5	254
15	Lanthanum-catalysed synthesis of microporous 3D graphene-like carbons in a zeolite template. Nature, 2016, 535, 131-135.	13.7	253
16	Silk Nanofiberâ€Networked Bioâ€Triboelectric Generator: Silk Bioâ€TEG. Advanced Energy Materials, 2016, 6, 1502329.	10.2	222
17	Bacterial Nanoâ€Cellulose Triboelectric Nanogenerator. Nano Energy, 2017, 33, 130-137.	8.2	214
18	Tuning of Catalytic CO Oxidation by Changing Composition of Rhâ^'Pt Bimetallic Nanoparticles. Nano Letters, 2008, 8, 673-677.	4.5	205

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19	Fundamental Aspects of Energy Dissipation in Friction. Chemical Reviews, 2014, 114, 677-711.	23.0	195
20	High Frictional Anisotropy of Periodic and Aperiodic Directions on a Quasicrystal Surface. Science, 2005, 309, 1354-1356.	6.0	189
21	Intrinsic Relation between Catalytic Activity of CO Oxidation on Ru Nanoparticles and Ru Oxides Uncovered with Ambient Pressure XPS. Nano Letters, 2012, 12, 5761-5768.	4.5	182
22	Electronic Control of Friction in Silicon pn Junctions. Science, 2006, 313, 186-186.	6.0	172
23	Work function variation of MoS2 atomic layers grown with chemical vapor deposition: The effects of thickness and the adsorption of water/oxygen molecules. Applied Physics Letters, 2015, 106, .	1.5	167
24	Molecular surface chemistry by metal single crystals and nanoparticles from vacuum to high pressure. Chemical Society Reviews, 2008, 37, 2155.	18.7	159
25	The Role of Organic Capping Layers of Platinum Nanoparticles in Catalytic Activity of CO Oxidation. Catalysis Letters, 2009, 129, 1-6.	1.4	159
26	The Nanoscience Revolution: Merging of Colloid Science, Catalysis and Nanoelectronics. Topics in Catalysis, 2008, 47, 1-14.	1.3	157
27	The evolution of model catalytic systems; studies of structure, bonding and dynamics from single crystal metal surfaces to nanoparticles, and from low pressure (<10â^'3Torr) to high pressure (>10â^'3Torr) to liquid interfaces. Physical Chemistry Chemical Physics, 2007, 9, 3500-3513.	1.3	152
28	A tailored oxide interface creates dense Pt single-atom catalysts with high catalytic activity. Energy and Environmental Science, 2020, 13, 1231-1239.	15.6	140
29	Probing Hot Electron Flow Generated on Pt Nanoparticles with Au/TiO₂Schottky Diodes during Catalytic CO Oxidation. Nano Letters, 2008, 8, 2388-2392.	4.5	137
30	Nanotribological Properties of Fluorinated, Hydrogenated, and Oxidized Graphenes. Tribology Letters, 2013, 50, 137-144.	1.2	123
31	Hot-Electron-Mediated Surface Chemistry: Toward Electronic Control of Catalytic Activity. Accounts of Chemical Research, 2015, 48, 2475-2483.	7.6	123
32	Nanohole-Structured and Palladium-Embedded 3D Porous Graphene for Ultrahigh Hydrogen Storage and CO Oxidation Multifunctionalities. ACS Nano, 2015, 9, 7343-7351.	7.3	122
33	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.	5.4	115
34	Work function engineering of single layer graphene by irradiation-induced defects. Applied Physics Letters, 2013, 103, .	1.5	113
35	Velocity Dependence of Friction and Hydrogen Bonding Effects. Physical Review Letters, 2006, 96, 236102.	2.9	110
36	Skin-attachable and biofriendly chitosan-diatom triboelectric nanogenerator. Nano Energy, 2020, 75, 104904.	8.2	105

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37	Hot Carrier-Driven Catalytic Reactions on Ptâ€“CdSeâ€“Pt Nanodumbbells and Pt/GaN under Light Irradiation. Nano Letters, 2013, 13, 1352-1358.	4.5	101
38	Hydrogen Oxidation-Driven Hot Electron Flow Detected by Catalytic Nanodiodes. Nano Letters, 2009, 9, 3930-3933.	4.5	96
39	The Catalytic Nanodiode: Detecting Continous Electron Flow at Oxide-Metal Interfaces Generated by a Gas-Phase Exothermic Reaction. ChemPhysChem, 2006, 7, 1409-1413.	1.0	93
40	Interfacial and Chemical Properties of Pt/TiO₂, Pd/TiO₂, and Pt/GaN Catalytic Nanodiodes Influencing Hot Electron Flow. Journal of Physical Chemistry C, 2007, 111, 15331-15336.	1.5	93
41	Enhanced Surface Plasmon Effect of Ag/TiO₂ Nanodiodes on Internal Photoemission. Journal of Physical Chemistry C, 2014, 118, 5650-5656.	1.5	92
42	Boosting hot electron flux and catalytic activity at metalâ€“oxide interfaces of PtCo bimetallic nanoparticles. Nature Communications, 2018, 9, 2235.	5.8	80
43	Plasmonic hot carrier-driven oxygen evolution reaction on Au nanoparticles/TiO₂ nanotube arrays. Nanoscale, 2018, 10, 22180-22188.	2.8	79
44	Area-Selective Atomic Layer Deposition Using Si Precursors as Inhibitors. Chemistry of Materials, 2018, 30, 7603-7610.	3.2	78
45	Adsorbate-driven reactive interfacial Pt-NiO _{1â^' x} nanostructure formation on the Pt ₃ Ni(111) alloy surface. Science Advances, 2018, 4, eaat3151.	4.7	76
46	Electronic contribution to friction on GaAs: An atomic force microscope study. Physical Review B, 2008, 77, .	1.1	75
47	Catalytic activity of Au/TiO2 and Pt/TiO2 nanocatalysts prepared with arc plasma deposition under CO oxidation. Applied Catalysis A: General, 2013, 454, 53-58.	2.2	72
48	Direct Imaging of Surface Plasmon-Driven Hot Electron Flux on the Au Nanoprism/TiO₂. Nano Letters, 2019, 19, 891-896.	4.5	72
49	Defective Nb2O5-supported Pt catalysts for CO oxidation: Promoting catalytic activity via oxygen vacancy engineering. Journal of Catalysis, 2019, 375, 124-134.	3.1	70
50	The genesis and importance of oxideâ€“metal interface controlled heterogeneous catalysis; the catalytic nanodiode. Topics in Catalysis, 2007, 46, 217-222.	1.3	69
51	Concepts, instruments, and model systems that enabled the rapid evolution of surface science. Surface Science, 2009, 603, 1293-1300.	0.8	67
52	Enhanced H₂ Generation of Auâ€Loaded, Nitrogenâ€Doped TiO₂ Hierarchical Nanostructures under Visible Light. Advanced Materials Interfaces, 2014, 1, 1300018.	1.9	67
53	Musselâ€Inspired Defect Engineering of Graphene Liquid Crystalline Fibers for Synergistic Enhancement of Mechanical Strength and Electrical Conductivity. Advanced Materials, 2018, 30, e1803267.	11.1	67
54	Support Effect of Arc Plasma Deposited Pt Nanoparticles/TiO₂ Substrate on Catalytic Activity of CO Oxidation. Journal of Physical Chemistry C, 2012, 116, 24054-24059.	1.5	66

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55	Mechanical and Charge Transport Properties of Alkanethiol Self-Assembled Monolayers on a Au(111) Surface:â€‰ The Role of Molecular Tilt. Langmuir, 2008, 24, 2219-2223.	1.6	62
56	Dynamics of Surface Catalyzed Reactions; the Roles of Surface Defects, Surface Diffusion, and Hot Electronsâ€. Journal of Physical Chemistry B, 2006, 110, 20014-20022.	1.2	61
57	Mechanical and electrical properties of CdTe tetrapods studied by atomic force microscopy. Journal of Chemical Physics, 2007, 127, 184704.	1.2	61
58	Evolution of the surface science of catalysis from single crystals to metal nanoparticles under pressure. Journal of Chemical Physics, 2008, 128, 182504.	1.2	61
59	Frontiers of surface science. Physics Today, 2007, 60, 48-53.	0.3	60
60	Between Scylla and Charybdis: Hydrophobic Graphene-Guided Water Diffusion on Hydrophilic Substrates. Scientific Reports, 2013, 3, 2309.	1.6	60
61	Friction and Adhesion Properties of Clean and Oxidized Alâ€“Niâ€“Co Decagonal Quasicrystals: A UHV Atomic Force Microscopy/Scanning Tunneling Microscopy Study. Tribology Letters, 2004, 17, 629-636.	1.2	58
62	Transfer-printable micropatterned fluoropolymer-based triboelectric nanogenerator. Nano Energy, 2017, 36, 126-133.	8.2	58
63	Sensing current and forces with SPM. Materials Today, 2010, 13, 38-45.	8.3	57
64	Chemicalâ€Reactionâ€Induced Hot Electron Flows on Platinum Colloid Nanoparticles under Hydrogen Oxidation: Impact of Nanoparticle Size. Angewandte Chemie - International Edition, 2015, 54, 2340-2344.	7.2	57
65	Internal and External Atomic Steps in Graphite Exhibit Dramatically Different Physical and Chemical Properties. ACS Nano, 2015, 9, 3814-3819.	7.3	57
66	Enhancement of Friction by Water Intercalated between Graphene and Mica. Journal of Physical Chemistry Letters, 2017, 8, 3482-3487.	2.1	57
67	Compositional engineering of solution-processed BiVO4 photoanodes toward highly efficient photoelectrochemical water oxidation. Nano Energy, 2018, 43, 244-252.	8.2	57
68	Self-organized multi-layered grapheneâ€“boron-doped diamond hybrid nanowalls for high-performance electron emission devices. Nanoscale, 2018, 10, 1345-1355.	2.8	57
69	Plasmonic Hot Hole-Driven Water Splitting on Au Nanoprisms/P-Type GaN. ACS Energy Letters, 0, , 1333-1339.	8.8	57
70	Size effect of RhPt bimetallic nanoparticles in catalytic activity of CO oxidation: Role of surface segregation. Catalysis Today, 2012, 181, 133-137.	2.2	54
71	Catalytic Synergy on PtNi Bimetal Catalysts Driven by Interfacial Intermediate Structures. ACS Catalysis, 2020, 10, 10459-10467.	5.5	53
72	The impact of surface science on the commercialization of chemical processes. Catalysis Letters, 2007, 115, 87-98.	1.4	51

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73	Energy conversion from catalytic reaction to hot electron current with metal-semiconductor Schottky nanodiodes. Journal of Vacuum Science & Technology B, 2006, 24, 1967.	1.3	50
74	Influence of carrier density on the friction properties of silicon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>p</mml:mi><mml:mi>n</mml:mi></mml:mrow></mml:math>junctions. Physical Review B, 2007, 76, .	1.1	50
75	Size-controlled model Ni catalysts on Ga2O3 for CO2 hydrogenation to methanol. Journal of Catalysis, 2019, 376, 68-76.	3.1	50
76	Hot Electron and Surface Plasmon-Driven Catalytic Reaction in Metalâ€“Semiconductor Nanostructures. Catalysis Letters, 2014, 144, 1996-2004.	1.4	49
77	Sensing Dipole Fields at Atomic Steps with Combined Scanning Tunneling and Force Microscopy. Physical Review Letters, 2005, 95, 136802.	2.9	48
78	The effect of hot electrons and surface plasmons on heterogeneous catalysis. Journal of Physics Condensed Matter, 2016, 28, 254002.	0.7	48
79	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.	7.8	46
80	Atomic-scale view of stability and degradation of single-crystal MAPbBr₃ surfaces. Journal of Materials Chemistry A, 2019, 7, 20760-20766.	5.2	46
81	Charge Transport in Metalâ€“Oxide Interfaces: Genesis and Detection of Hot Electron Flow and Its Role in Heterogeneous Catalysis. Catalysis Letters, 2015, 145, 299-308.	1.4	45
82	Enhanced photocatalytic generation of hydrogen by Pt-deposited nitrogen-doped TiO2 hierarchical nanostructures. Applied Surface Science, 2015, 354, 347-352.	3.1	44
83	Plasmonâ€Induced Hot Carrier Separation across Dual Interface in Goldâ€“Nickel Phosphide Heterojunction for Photocatalytic Water Splitting. Advanced Functional Materials, 2020, 30, 1908239.	7.8	43
84	Deactivation of Ru Catalysts under Catalytic CO Oxidation by Formation of Bulk Ru Oxide Probed with Ambient Pressure XPS. Journal of Physical Chemistry C, 2013, 117, 13108-13113.	1.5	42
85	Tuning Hydrophobicity of TiO₂ Layers with Silanization and Self-Assembled Nanopatterning. Langmuir, 2013, 29, 3054-3060.	1.6	41
86	Ferroelectricâ€Polymerâ€Enabled Contactless Electric Power Generation in Triboelectric Nanogenerators. Advanced Functional Materials, 2019, 29, 1905816.	7.8	41
87	Tribological properties of quasicrystals: Effect of aperiodic versus periodic surface order. Physical Review B, 2006, 74, .	1.1	39
88	Operando Surface Studies on Metal-Oxide Interfaces of Bimetal and Mixed Catalysts. ACS Catalysis, 2021, 11, 8645-8677.	5.5	39
89	Trend of catalytic activity of CO oxidation on Rh and Ru nanoparticles: Role of surface oxide. Catalysis Today, 2012, 185, 131-137.	2.2	38
90	Elongated Lifetime and Enhanced Flux of Hot Electrons on a Perovskite Plasmonic Nanodiode. Nano Letters, 2019, 19, 5489-5495.	4.5	38

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91	Hot electrons generated by intraband and interband transition detected using a plasmonic Cu/TiO₂ nanodiode. RSC Advances, 2019, 9, 18371-18376.	1.7	38
92	Nanoscale Schottky behavior of Au islands on TiO2 probed with conductive atomic force microscopy. Applied Physics Letters, 2013, 103, .	1.5	37
93	Grapheneâ€“Semiconductor Catalytic Nanodiodes for Quantitative Detection of Hot Electrons Induced by a Chemical Reaction. Nano Letters, 2016, 16, 1650-1656.	4.5	37
94	Oxygen activation on the interface between Pt nanoparticles and mesoporous defective TiO2 during CO oxidation. Journal of Chemical Physics, 2019, 151, 234716.	1.2	37
95	Nanoscale Friction on Confined Water Layers Intercalated between MoS₂ Flakes and Silica. Journal of Physical Chemistry C, 2019, 123, 8827-8835.	1.5	36
96	Probing nanoscale conductance of monolayer graphene under pressure. Applied Physics Letters, 2011, 99, 013110.	1.5	35
97	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.	2.8	35
98	Elastic and inelastic deformations of ethylene-passivated tenfold decagonalAlâ^'Niâ^'Coquasicrystal surfaces. Physical Review B, 2005, 71, .	1.1	34
99	Highly sensitive hydrogen detection of catalyst-free ZnO nanorod networks suspended by lithography-assisted growth. Nanotechnology, 2011, 22, 085502.	1.3	34
100	Catalytic activity of Pt/SiO2 nanocatalysts synthesized via ultrasonic spray pyrolysis process under CO oxidation. Applied Catalysis B: Environmental, 2014, 154-155, 171-176.	10.8	34
101	Hot carrier multiplication on graphene/TiO2 Schottky nanodiodes. Scientific Reports, 2016, 6, 27549.	1.6	34
102	Friction and conductance imaging of sp²- and sp³-hybridized subdomains on single-layer graphene oxide. Nanoscale, 2016, 8, 4063-4069.	2.8	34
103	Theory of hot electrons: general discussion. Faraday Discussions, 2019, 214, 245-281.	1.6	34
104	Atomic scale friction and adhesion properties of quasicrystal surfaces. Journal of Physics Condensed Matter, 2008, 20, 314012.	0.7	33
105	Hot Electron Surface Chemistry at Oxideâ€“Metal Interfaces: Foundation of Acid-base Catalysis. Catalysis Letters, 2016, 146, 1-11.	1.4	33
106	MOFâ€Derived Bifunctional Iron Oxide and Iron Phosphide Nanoarchitecture Photoelectrode for Neutral Water Splitting. ChemElectroChem, 2018, 5, 2842-2849.	1.7	33
107	Nanomechanical and Charge Transport Properties of Twoâ€Dimensional Atomic Sheets. Advanced Materials Interfaces, 2014, 1, 1300089.	1.9	32
108	Enhanced triboelectrification of the polydimethylsiloxane surface by ultraviolet irradiation. Applied Physics Letters, 2016, 108, .	1.5	32

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109	Hydrogen Generation on Metal/Mesoporous Oxides: The Effects of Hierarchical Structure, Doping, and Coâ€catalysts. Energy Technology, 2018, 6, 459-469.	1.8	32
110	Polarity dependence in pulsed scanning tunneling microscopy fabrication and modification of metal nanodots on silicon. Journal of Applied Physics, 2002, 92, 2139-2143.	1.1	31
111	Influence of hot carriers on catalytic reaction; Pt nanoparticles on GaN substrates under light irradiation. Faraday Discussions, 2013, 162, 355.	1.6	31
112	Nanoimprinting-Induced Nanomorphological Transition in Polymer Solar Cells: Enhanced Electrical and Optical Performance. ACS Nano, 2015, 9, 2773-2782.	7.3	31
113	Atomic Force Microscopy Study of the Mechanical and Electrical Properties of Monolayer Films of Molecules with Aromatic End Groups. Langmuir, 2007, 23, 11522-11525.	1.6	30
114	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.	5.2	30
115	The Effect of Dye Molecules and Surface Plasmons in Photon-Induced Hot Electron Flows Detected on Au/TiO₂ Nanodiodes. Journal of Physical Chemistry C, 2012, 116, 18591-18596.	1.5	29
116	Enhancing the Internal Quantum Efficiency and Stability of Organic Solar Cells via Metallic Nanofunnels. Advanced Energy Materials, 2015, 5, 1501393.	10.2	29
117	Probing the nanoscale Schottky barrier of metal/semiconductor interfaces of Pt/CdSe/Pt nanodumbbells by conductive-probe atomic force microscopy. Nanoscale, 2015, 7, 12297-12301.	2.8	28
118	Tailoring metalâ€“oxide interfaces of oxide-encapsulated Pt/silica hybrid nanocatalysts with enhanced thermal stability. Catalysis Today, 2016, 265, 245-253.	2.2	28
119	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.	6.6	28
120	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.	2.2	28
121	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.	5.5	28
122	Chemical effect of dry and wet cleaning of the Ru protective layer of the extreme ultraviolet lithography reflector. Journal of Vacuum Science & Technology B, 2009, 27, 1919-1925.	1.3	27
123	Facile characterization of ripple domains on exfoliated graphene. Review of Scientific Instruments, 2012, 83, 073905.	0.6	27
124	The Effect of Thickness and Chemical Reduction of Graphene Oxide on Nanoscale Friction. Journal of Physical Chemistry B, 2018, 122, 543-547.	1.2	27
125	How titanium dioxide cleans itself. Science, 2018, 361, 753-753.	6.0	27
126	Atomic scale coexistence of periodic and quasiperiodic order in a 2-fold Al-Ni-Co decagonal quasicrystal surface. Physical Review B, 2005, 72, .	1.1	26

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127	Friction anisotropy: A unique and intrinsic property of decagonal quasicrystals. Journal of Materials Research, 2008, 23, 1488-1493.	1.2	26
128	Nanoscale Resistive Switching Schottky Contacts on Self-Assembled Pt Nanodots on SrTiO₃. ACS Applied Materials & Interfaces, 2013, 5, 11668-11672.	4.0	26
129	The nature of hot electrons generated by exothermic catalytic reactions. Chemical Physics Letters, 2016, 645, 5-14.	1.2	26
130	Probing surface oxide formations on SiO₂-supported platinum nanocatalysts under CO oxidation. RSC Advances, 2017, 7, 45003-45009.	1.7	26
131	Electrical transport and mechanical properties of alkylsilane self-assembled monolayers on silicon surfaces probed by atomic force microscopy. Journal of Chemical Physics, 2009, 130, 114705.	1.2	25
132	Photon-Induced Hot Electron Effect on the Catalytic Activity of Ceria-Supported Gold Nanoparticles. Journal of Physical Chemistry C, 2015, 119, 16020-16025.	1.5	25
133	Tailoring metalâ€“oxide interfaces of inverse catalysts of TiO₂/nanoporous-Au under hydrogen oxidation. Chemical Communications, 2015, 51, 9620-9623.	2.2	25
134	Tandem-structured, hot electron based photovoltaic cell with double Schottky barriers. Scientific Reports, 2014, 4, 4580.	1.6	25
135	Isotope- and Thickness-Dependent Friction of Water Layers Intercalated Between Graphene and Mica. Tribology Letters, 2018, 66, 1.	1.2	24
136	Influence of Support Acidity of Pt/Nb2O5 Catalysts on Selectivity of CO2 Hydrogenation. Catalysis Letters, 2019, 149, 2823-2835.	1.4	24
137	Operando Surface Characterization on Catalytic and Energy Materials from Single Crystals to Nanoparticles. ACS Nano, 2020, 14, 16392-16413.	7.3	24
138	In Situ Visualization of Localized Surface Plasmon Resonanceâ€Driven Hot Hole Flux. Advanced Science, 2020, 7, 2001148.	5.6	24
139	How Rh surface breaks CO2 molecules under ambient pressure. Nature Communications, 2020, 11, 5649.	5.8	24
140	Ultrathin titania coating for high-temperature stable SiO2/Pt nanocatalysts. Chemical Communications, 2011, 47, 8412.	2.2	23
141	Chemical Doping of TiO2 with Nitrogen and Fluorine and Its Support Effect on Catalytic Activity of CO Oxidation. Catalysis Letters, 2014, 144, 1411-1417.	1.4	23
142	Nanospace-Confined High-Temperature Solid-State Reactions: Versatile Synthetic Route for High-Diversity Pool of Catalytic Nanocrystals. Chemistry of Materials, 2017, 29, 9463-9471.	3.2	23
143	Extremely high electrical conductance of microporous 3D graphene-like zeolite-templated carbon framework. Scientific Reports, 2017, 7, 11460.	1.6	23
144	Surfactant-Free Vapor-Phase Synthesis of Single-Crystalline Gold Nanoplates for Optimally Bioactive Surfaces. Chemistry of Materials, 2017, 29, 8747-8756.	3.2	23

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145	Three-dimensional hot electron photovoltaic device with vertically aligned TiO2 nanotubes. Scientific Reports, 2018, 8, 7330.	1.6	23
146	Hot-electron-based solar energy conversion with metalâ€“semiconductor nanodiodes. Journal of Physics Condensed Matter, 2016, 28, 254006.	0.7	22
147	Enhanced catalytic activity for CO oxidation by the metalâ€“oxide perimeter of TiO₂/nanostructured Au inverse catalysts. Nanoscale, 2018, 10, 3911-3917.	2.8	22
148	Engineering Nanoscale Interfaces of Metal/Oxide Nanowires to Control Catalytic Activity. ACS Nano, 2020, 14, 8335-8342.	7.3	22
149	Direct measurement of forces during scanning tunneling microscopy imaging of silicon pn junctions. Applied Physics Letters, 2005, 86, 172105.	1.5	21
150	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.	3.2	21
151	Dynamics of hot electron generation in metallic nanostructures: general discussion. Faraday Discussions, 2019, 214, 123-146.	1.6	21
152	A combined experimental and theoretical approach revealing a direct mechanism for bifunctional water splitting on doped copper phosphide. Nanoscale, 2020, 12, 17769-17779.	2.8	21
153	Nature of Rh Oxide on Rh Nanoparticles and Its Effect on the Catalytic Activity of CO Oxidation. Catalysis Letters, 2013, 143, 1153-1161.	1.4	20
154	Oneâ€Pot Selfâ€Templating Synthesis of Pt Hollow Nanostructures and Their Catalytic Properties for CO Oxidation. Chemistry - A European Journal, 2014, 20, 11669-11674.	1.7	20
155	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.	7.2	20
156	Enhancement of Hot Electron Flow in Plasmonic Nanodiodes by Incorporating PbS Quantum Dots. ACS Applied Materials & Interfaces, 2018, 10, 5081-5089.	4.0	20
157	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.	2.2	20
158	High methane selective Pt cluster catalyst supported on Ga2O3 for CO2 hydrogenation. Catalysis Today, 2020, 352, 212-219.	2.2	20
159	Controlling hot electron flux and catalytic selectivity with nanoscale metal-oxide interfaces. Nature Communications, 2021, 12, 40.	5.8	20
160	Revealing Charge Transfer at the Interface of Spinel Oxide and Ceria during CO Oxidation. ACS Catalysis, 2021, 11, 1516-1527.	5.5	20
161	Adhesion properties of decagonal quasicrystals in ultrahigh vacuum. Philosophical Magazine, 2006, 86, 945-950.	0.7	19
162	Influence of Molecular Ordering on Electrical and Friction Properties of Ï‰-(trans-4-Stilbene)Alkylthiol Self-Assembled Monolayers on Au (111). Langmuir, 2010, 26, 16522-16528.	1.6	19

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163	Reversible bistability of conductance on graphene/CuOx/Cu nanojunction. Applied Physics Letters, 2012, 100, 123101.	1.5	19
164	Overcoming the â€œretention vs. voltageâ€•trade-off in nonvolatile organic memory: Ag nanoparticles covered with dipolar self-assembled monolayers as robust charge storage nodes. Organic Electronics, 2013, 14, 3260-3266.	1.4	19
165	Mechanistic Insight into the Conversion Chemistry between Au-CuO Heterostructured Nanocrystals Confined inside SiO₂ Nanospheres. Chemistry of Materials, 2017, 29, 1788-1795.	3.2	19
166	Polarization Effect of Hot Electrons in Tandem-Structured Plasmonic Nanodiode. ACS Photonics, 2018, 5, 3499-3506.	3.2	19
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