

Xue-Qing Gong

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.

215 papers	9,688 citations	55 h-index	92 g-index
231 ext. papers	11,327 ext. citations	8.5 avg, IF	6.53 L-index

#	Paper	IF	Citations
215	Identification of CO adsorption sites on MgO nanosheets by solid-state nuclear magnetic resonance spectroscopy.. <i>Nature Communications</i> , 2022 , 13, 707	17.4	2
214	Strong anion exchange for improved NiCo2S4 oxygen reduction reaction via interlayer spacing manipulation. <i>International Journal of Hydrogen Energy</i> , 2022 , 47, 11224-11224	6.7	0
213	FeOOH photo-deposited perylene linear polymer with accelerated charge separation for photocatalytic overall water splitting. <i>Science China Chemistry</i> , 2022 , 65, 170	7.9	3
212	Tuning the hybridization state of Ir-O to improve the OER activity and stability of iridium pyrochlore via Zn doping. <i>Applied Surface Science</i> , 2022 , 576, 151840	6.7	1
211	A theoretical study of the twinned ZnO nanostructures. <i>Applied Surface Science</i> , 2022 , 571, 151295	6.7	
210	Core-Shell Nanostructured Ru@Ir-O Electrocatalysts for Superb Oxygen Evolution in Acid.. <i>Small</i> , 2022 , e2108031	11	4
209	Unique catalytic mechanisms of methanol dehydrogenation at Pd-doped ceria: A DFT+U study.. <i>Journal of Chemical Physics</i> , 2022 , 156, 134701	3.9	0
208	Role of Low-Coordinated Ce in Hydride Formation and Selective Hydrogenation Reactions on CeO2 Surfaces. <i>ACS Catalysis</i> , 2022 , 12, 624-632	13.1	3
207	Theoretical insights into CO oxidation activities on CeO2(111) steps. <i>Surface Science</i> , 2022 , 722, 122096	1.8	
206	Thermodynamics Insights into the Selective Hydrogenation of Alkynes in C2 and C3 Streams. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 16969-16980	3.9	0
205	CH3EGenerating Capability as a Reactivity Descriptor for Metal Oxides in Oxidative Coupling of Methane. <i>ACS Catalysis</i> , 2021 , 11, 14651-14659	13.1	1
204	A comparative study on the twinning boundaries of five-fold twinned copper and gold nanorods. <i>Applied Surface Science</i> , 2021 , 543, 148764	6.7	2
203	Mechanical pressure-mediated Pd active sites formation in NaY zeolite catalysts for indirect oxidative carbonylation of methanol to dimethyl carbonate. <i>Journal of Catalysis</i> , 2021 , 396, 269-280	7.3	3
202	Metal substitution in the metalloporphyrin linker of metal-organic framework PCN-601 for photocatalytic CO2 reduction. <i>JPhys Energy</i> , 2021 , 3, 034016	4.9	1
201	Role of Organic Fluoride Salts in Stabilizing Niobium Oxo-Clusters Catalyzing Epoxidation. <i>Langmuir</i> , 2021 , 37, 8190-8203	4	1
200	Surface Reconstruction for Forming the [IrO]-[IrO] Framework: Key Structure for Stable and Activated OER Performance in Acidic Media. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 29654-29663	9.5	3
199	Site Sensitivity of Interfacial Charge Transfer and Photocatalytic Efficiency in Photocatalysis: Methanol Oxidation on Anatase TiO2 Nanocrystals. <i>Angewandte Chemie</i> , 2021 , 133, 6225-6234	3.6	4

198	Site Sensitivity of Interfacial Charge Transfer and Photocatalytic Efficiency in Photocatalysis: Methanol Oxidation on Anatase TiO Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 6160-6169	16.4	18
197	Relationships between the activities and Ce ³⁺ concentrations of CeO ₂ (111) for CO oxidation: A first-principle investigation. <i>Chinese Chemical Letters</i> , 2021 , 32, 1127-1130	8.1	0
196	Modulating Photoinduced Charge Separation in Metal-azolate Frameworks. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 2064-2073	3.8	1
195	Construction of polymeric carbon nitride and dibenzothiophene dioxide-based intramolecular donor-acceptor conjugated copolymers for photocatalytic H ₂ evolution. <i>Nanoscale Advances</i> , 2021 , 3, 1699-1707	5.1	10
194	Selective hydrogenation of 5-(hydroxymethyl)furfural to 5-methylfurfural over single atomic metals anchored on NbO. <i>Nature Communications</i> , 2021 , 12, 584	17.4	18
193	Efficient and stable photocatalytic H ₂ evolution by self-assembly of zirconium(IV) coordination with perylene diimide supramolecules under visible light irradiation. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 7675-7683	13	4
192	[4 + 2] Cycloaddition of trifluoromethyl ketimines with 2-alkenyl azaarenes through selective C-F bond cleavage of CF ₃ . <i>Organic Chemistry Frontiers</i> , 2021 , 8, 4426-4431	5.2	1
191	Photo-induced hydrophilicity at the ZnO(112 0) surface: an evolutionary algorithm-aided density functional theory study. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19790-19794	3.6	
190	Function-oriented design of robust metal cocatalyst for photocatalytic hydrogen evolution on metal/titania composites. <i>Nature Communications</i> , 2021 , 12, 158	17.4	22
189	In situ formation of grain boundaries on a supported hybrid to boost water oxidation activity of iridium oxide. <i>Nanoscale</i> , 2021 , 13, 13845-13857	7.7	0
188	Interaction of Hydrogen with Ceria: Hydroxylation, Reduction, and Hydride Formation on the Surface and in the Bulk. <i>Chemistry - A European Journal</i> , 2021 , 27, 5268-5276	4.8	16
187	Synthesis of Lattice-Contracted Cobalt Disulfide as an Outstanding Oxygen Reduction Reaction Catalyst via Self-assembly Arrangement. <i>ChemSusChem</i> , 2021 , 14, 1388-1395	8.3	2
186	Two Coexisting Forms of Simple Molecules for Directing Sesqui-Unit-Cell Zeolite Nanosheets. <i>Chemistry of Materials</i> , 2021 , 33, 6934-6941	9.6	1
185	N-doped graphitic CN nanosheets decorated with CoP nanoparticles: A highly efficient activator in singlet oxygen dominated visible-light-driven peroxymonosulfate activation for degradation of pharmaceuticals and personal care products. <i>Journal of Hazardous Materials</i> , 2021 , 416, 125891	12.8	5
184	Subtle structure matters: boosting surface-directed photoelectron transfer the introduction of specific monovalent oxygen vacancies in TiO. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19854-19861	3.6	0
183	Methanol Synthesis at a Wide Range of H ₂ /CO Ratios over a Rh-In Bimetallic Catalyst. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 16039-16046	16.4	27
182	Methanol Synthesis at a Wide Range of H ₂ /CO ₂ Ratios over a Rh-In Bimetallic Catalyst. <i>Angewandte Chemie</i> , 2020 , 132, 16173-16180	3.6	3
181	Interactions of Oxide Surfaces with Water Revealed with Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11173-11182	16.4	12

- 180 Boosting Interfacial Charge-Transfer Kinetics for Efficient Overall CO Photoreduction via Rational Design of Coordination Spheres on Metal-Organic Frameworks. *Journal of the American Chemical Society*, **2020**, 142, 12515-12523 16.4 131
- 179 Clarifying the impacts of surface hydroxyls on CO oxidation on CeO(100) surfaces: a DFT+U study. *Physical Chemistry Chemical Physics*, **2020**, 22, 7738-7746 3.6 5
- 178 (Photo)Electrocatalytic CO₂ Reduction at the Defective Anatase TiO₂ (101) Surface. *ACS Catalysis*, **2020**, 10, 4048-4058 13.1 24
- 177 Localized Electrons Enhanced Ion Transport for Ultrafast Electrochemical Energy Storage. *Advanced Materials*, **2020**, 32, e1905578 24 23
- 176 Fluorinated conjugated poly(benzotriazole)/g-C₃N₄ heterojunctions for significantly enhancing photocatalytic H₂ evolution. *Applied Catalysis B: Environmental*, **2020**, 267, 118577 21.8 30
- 175 Methanol Dynamically Activated Room-Temperature Phosphorescence from a Twisted 4-Bromobiphenyl System. *CCS Chemistry*, **2020**, 2, 158-167 7.2 17
- 174 Trace of molecular doping in metal-organic frameworks: drastic change in the electronic band structure with a preserved topology and porosity. *Journal of Materials Chemistry A*, **2020**, 8, 12370-12377 13 3
- 173 A DFT study of the CO adsorption and oxidation at ZnO surfaces and its implication for CO detection. *Chinese Chemical Letters*, **2020**, 31, 1674-1679 8.1 7
- 172 Strategies To Improve the Activity While Maintaining the Selectivity of Oxidative Coupling of Methane at La₂O₃: A Density Functional Theory Study. *ACS Catalysis*, **2020**, 10, 586-594 13.1 24
- 171 Metal-Free Ceria Catalysis for Selective Hydrogenation of Crotonaldehyde. *ACS Catalysis*, **2020**, 10, 14560-14566 14.5 15
- 170 Dispersed Nickel Boosts Catalysis by Copper in CO₂ Hydrogenation. *ACS Catalysis*, **2020**, 10, 9261-9270 13.1 23
- 169 Structures and reactivities of the CeO₂/Pt(111) reverse catalyst: A DFT+U study. *Chinese Journal of Catalysis*, **2020**, 41, 1360-1368 11.3 3
- 168 Ionic liquid-stabilized vanadium oxo-clusters catalyzing alkane oxidation by regulating oligovanadates. *Catalysis Science and Technology*, **2020**, 10, 7601-7612 5.5 3
- 167 Bandgap engineering of novel perylene[1,12-bcd]thiophene sulfone-based conjugated co-polymers for significantly enhanced hydrogen evolution without co-catalyst. *Journal of Materials Chemistry A*, **2020**, 8, 20062-20071 13 10
- 166 Anatase TiO₂(001)-(1 × 4) Surface Is Intrinsically More Photocatalytically Active than the Rutile TiO₂(110)-(1 × 1) Surface. *Journal of Physical Chemistry C*, **2019**, 123, 24558-24565 3.8 9
- 165 ¹⁷O Solid-State NMR Studies of ZrO₂ Nanoparticles. *Journal of Physical Chemistry C*, **2019**, 123, 4158-4167 13.8 14
- 164 Superior Performance of Ag over Pt for Hydrogen Evolution Reaction in Water Electrolysis under High Overpotentials. *ACS Applied Energy Materials*, **2019**, 2, 1221-1228 6.1 16
- 163 Ionic Liquid Stabilized Niobium Oxoclusters Catalyzing Oxidation of Sulfides with Exceptional Activity. *Chemistry - A European Journal*, **2019**, 25, 4206-4217 4.8 15

162	Ultrathin Metal-Organic Framework Nanosheets with Ultrahigh Loading of Single Pt Atoms for Efficient Visible-Light-Driven Photocatalytic H ₂ Evolution. <i>Angewandte Chemie</i> , 2019 , 131, 10304-10309	3.6	56
161	Ultrathin Metal-Organic Framework Nanosheets with Ultrahigh Loading of Single Pt Atoms for Efficient Visible-Light-Driven Photocatalytic H Evolution. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10198-10203	16.4	239
160	Gas phase selective propylene epoxidation over La ₂ O ₃ -supported cubic silver nanoparticles. <i>Catalysis Science and Technology</i> , 2019 , 9, 3435-3444	5.5	6
159	Octahedral-shaped perovskite CaCu ₃ Ti ₄ O ₁₂ with dual defects and coexposed {(001), (111)} facets for visible-light photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 86-97	21.8	31
158	More than oxygen vacancies: a collective crystal-plane effect of CeO ₂ in gas-phase selective oxidation of benzyl alcohol. <i>Catalysis Science and Technology</i> , 2019 , 9, 2960-2967	5.5	8
157	A promising engineering strategy for water electro-oxidation iridate catalysts via coordination distortion. <i>Chemical Communications</i> , 2019 , 55, 5801-5804	5.8	14
156	Taming the stability of Pd active phases through a compartmentalizing strategy toward nanostructured catalyst supports. <i>Nature Communications</i> , 2019 , 10, 1611	17.4	112
155	A first-principles molecular dynamics study on the surface lattice oxygen of ceria. <i>Applied Surface Science</i> , 2019 , 496, 143712	6.7	0
154	A DFT+U revisit of reconstructed CeO(100) surfaces: structures, thermostabilities and reactivities. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 19987-19994	3.6	10
153	Computational Simulation of Trapped Charge Carriers in TiO ₂ and Their Impacts on Photocatalytic Water Splitting. <i>ACS Symposium Series</i> , 2019 , 67-100	0.4	1
152	Theoretical Study of Twinning Boundaries in Twinned Gold Nanorod Using Evolutionary Algorithms Aided Computational Simulations. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31103-31107	3.8	2
151	Polar surface structure of oxide nanocrystals revealed with solid-state NMR spectroscopy. <i>Nature Communications</i> , 2019 , 10, 5420	17.4	26
150	Genetic algorithm aided density functional theory simulations unravel the kinetic nature of Au(100) in catalytic CO oxidation. <i>Chinese Chemical Letters</i> , 2019 , 30, 1346-1350	8.1	6
149	Mechanism of CO ₂ Photocatalytic Reduction to Methane and Methanol on Defected Anatase TiO ₂ (101): A Density Functional Theory Study. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 3505-3511	3.8	36
148	Unique adsorption behaviors of NO and O ₂ at hydrogenated anatase TiO ₂ (101). <i>Chinese Chemical Letters</i> , 2018 , 29, 765-768	8.1	10
147	A DFT+U study of the catalytic degradation of 1,2-dichloroethane over CeO. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 5856-5864	3.6	11
146	Effect of lattice strain on the electro-catalytic activity of IrO for water splitting. <i>Chemical Communications</i> , 2018 , 54, 996-999	5.8	50
145	Realizing highly chemoselective detection of HS in vitro and in vivo with fluorescent probes inside core-shell silica nanoparticles. <i>Biomaterials</i> , 2018 , 159, 82-90	15.6	55

144	Size-dependent catalytic performance of ruthenium nanoparticles in the hydrogenolysis of a EO-4 lignin model compound. <i>Catalysis Science and Technology</i> , 2018 , 8, 735-745	5.5	41
143	A DFT + U study of V, Cr and Mn doped CeO ₂ (111). <i>Applied Surface Science</i> , 2018 , 428, 377-384	6.7	22
142	Oxygen vacancies induced visible-light photocatalytic activities of CaCu ₃ Ti ₄ O ₁₂ with controllable morphologies for antibiotic degradation. <i>Applied Catalysis B: Environmental</i> , 2018 , 221, 422-432	21.8	80
141	Activity and selectivity of propane oxidative dehydrogenation over VO ₃ /CeO ₂ (111) catalysts: A density functional theory study. <i>Chinese Journal of Catalysis</i> , 2018 , 39, 1520-1526	11.3	13
140	Strategies of alloying effect for regulating Pt-based H-SCR catalytic activity. <i>Chemical Communications</i> , 2018 , 54, 9502-9505	5.8	6
139	Preparation of lamellar-stacked TS-1 and its catalytic performance for the ammoximation of butanone with H ₂ O ₂ . <i>Journal of Materials Science</i> , 2018 , 53, 4034-4045	4.3	12
138	Selective tracking of ovarian-cancer-specific γ -glutamyltranspeptidase using a ratiometric two-photon fluorescent probe. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 7439-7443	7.3	13
137	An Artificial Molecular Shuttle Operates in Lipid Bilayers for Ion Transport. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17992-17998	16.4	104
136	Calcination Atmosphere Regulated Morphology and Catalytic Performance of Pt/SiO ₂ in Gas-phase Oxidative Dehydrogenation of KA-oil. <i>ChemCatChem</i> , 2018 , 10, 5689-5697	5.2	3
135	Molecular Engineering of Donor-Acceptor Conjugated Polymer/g-C ₃ N ₄ Heterostructures for Significantly Enhanced Hydrogen Evolution Under Visible-Light Irradiation. <i>Advanced Functional Materials</i> , 2018 , 28, 1804512	15.6	115
134	Ligand-mediated bifunctional catalysis for enhanced oxygen reduction and methanol oxidation tolerance in fuel cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18884-18890	13	16
133	N-Annulated perylene-based organic dyes sensitized graphitic carbon nitride to form an amide bond for efficient photocatalytic hydrogen production under visible-light irradiation. <i>Applied Catalysis B: Environmental</i> , 2018 , 237, 32-42	21.8	30
132	A new PET and FRET-based molecular logic circuit mimicking the three-state logic gate. <i>Dyes and Pigments</i> , 2017 , 140, 460-468	4.6	9
131	A highly effective catalyst of Co-CeO ₂ for the oxidation of diesel soot: The excellent NO oxidation activity and NO _x storage capacity. <i>Applied Catalysis A: General</i> , 2017 , 535, 1-8	5.1	61
130	Synthesis of a hollow structured core-shell Au@CeO ₂ /rO ₂ nanocatalyst and its excellent catalytic performance. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 5601-5611	13	25
129	Surface Reconstruction-Induced Site-Specific Charge Separation and Photocatalytic Reaction on Anatase TiO ₂ (001) Surface. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9991-9999	3.8	30
128	A DFT+U study on the oxidative chlorination of CH ₄ at ceria: the role of HCl. <i>Catalysis Science and Technology</i> , 2017 , 7, 2498-2505	5.5	6
127	The Critical Role of Water in the Ring Opening of Furfural Alcohol to 1,2-Pentanediol. <i>ACS Catalysis</i> , 2017 , 7, 333-337	13.1	56

126	Mechanism of Surface-Enhanced Raman Scattering Based on 3D Graphene-TiO Nanocomposites and Application to Real-Time Monitoring of Telomerase Activity in Differentiation of Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 36596-36605	9.5	28
125	Distinguishing faceted oxide nanocrystals with O solid-state NMR spectroscopy. <i>Nature Communications</i> , 2017 , 8, 581	17.4	38
124	Catalytic Activity Control via Crossover between Two Different Microstructures. <i>Journal of the American Chemical Society</i> , 2017 , 139, 13740-13748	16.4	29
123	Layered nanostructured ferroelectric perovskite Bi ₅ FeTi ₃ O ₁₅ for visible light photodegradation of antibiotics. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 21275-21290	13	63
122	Brüstled base site engineering of graphitic carbon nitride for enhanced photocatalytic activity. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 19227-19236	13	24
121	Ni ²⁺ Codoping Breaks the Limitation of Single-Metal-Doped IrO ₂ with Higher Oxygen Evolution Reaction Performance and Less Iridium. <i>ACS Energy Letters</i> , 2017 , 2, 2786-2793	20.1	57
120	A DFT+U study of the structures and reactivities of polar CeO ₂ (100) surfaces. <i>Chinese Journal of Catalysis</i> , 2017 , 38, 1138-1147	11.3	6
119	A promising low pressure methanol synthesis route from CO ₂ hydrogenation over Pd@Zn core-shell catalysts. <i>Green Chemistry</i> , 2017 , 19, 270-280	10	56
118	Room temperature efficient reduction of NO _x by H ₂ in a permeable compounded membrane catalytic reactor. <i>Chemical Engineering Journal</i> , 2016 , 283, 929-935	14.7	8
117	A highly effective Ni-modified MnO _x catalyst for total oxidation of propane: the promotional role of nickel oxide. <i>RSC Advances</i> , 2016 , 6, 50228-50237	3.7	29
116	High-Performance PdNi Nanoalloy Catalyst in Situ Structured on Ni Foam for Catalytic Deoxygenation of Coalbed Methane: Experimental and DFT Studies. <i>ACS Catalysis</i> , 2016 , 6, 6236-6245	13.1	30
115	Surfactant-Mediated One-Pot Method To Prepare Pd-CeO Colloidal Assembled Spheres and Their Enhanced Catalytic Performance for CO Oxidation. <i>ACS Omega</i> , 2016 , 1, 118-126	3.9	15
114	Clustering of Oxygen Vacancies at CeO ₂ (111): Critical Role of Hydroxyls. <i>Physical Review Letters</i> , 2016 , 116, 086102	7.4	45
113	Direct hydrodeoxygenation of raw woody biomass into liquid alkanes. <i>Nature Communications</i> , 2016 , 7, 11162	17.4	271
112	A highly-efficient LaMnO _x catalyst for propane combustion: the promotional role of La and the effect of the preparation method. <i>Catalysis Science and Technology</i> , 2016 , 6, 8222-8233	5.5	26
111	AgBr tetradecahedrons with co-exposed {100} and {111} facets: simple fabrication and enhancing spatial charge separation using facet heterojunctions. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18570-18577	13.77	29
110	Operando NMR spectroscopic analysis of proton transfer in heterogeneous photocatalytic reactions. <i>Nature Communications</i> , 2016 , 7, 11918	17.4	43
109	An Ordered Mixed Oxide Monolayer Formed by Iron Segregation on Rutile-TiO ₂ (011): Structural Determination by X-ray Photoelectron Diffraction. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26414-26424	3.8	4

108	Monolayer Intermixed Oxide Surfaces: Fe, Ni, Cr, and V Oxides on Rutile TiO ₂ (011). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 14782-14794	3.8	10
107	Methanol Conversion into Dimethyl Ether on the Anatase TiO ₂ (001) Surface. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 623-8	16.4	54
106	Effect of One-Pot Rehydration Process on Surface Basicity and Catalytic Activity of Mg ₂ Al ₂ (OH) ₆ Cl ₂ Catalyst for Aldol Condensation of Citral and Acetone. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 1591-1601	8.3	10
105	Catalytic total oxidation of 1,2-dichloroethane over VO _x /CeO ₂ catalysts: Further insights via isotopic tracer techniques. <i>Applied Catalysis B: Environmental</i> , 2016 , 182, 598-610	21.8	61
104	Identification of different tin species in SnO ₂ nanosheets with ¹¹⁹ Sn solid-state NMR spectroscopy. <i>Chemical Physics Letters</i> , 2016 , 643, 126-130	2.5	15
103	Effects of Metal Oxyhydroxide Coatings on Photoanode in Quantum Dot Sensitized Solar Cells. <i>Chemistry of Materials</i> , 2016 , 28, 2323-2330	9.6	53
102	Pt-Doped NiFe ₂ O ₄ Spinel as a Highly Efficient Catalyst for H ₂ Selective Catalytic Reduction of NO at Room Temperature. <i>ACS Combinatorial Science</i> , 2016 , 18, 195-202	3.9	24
101	Solvent-free selective oxidation of cyclohexane with molecular oxygen over manganese oxides: Effect of the calcination temperature. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 184-192	11.3	16
100	The synthesis of Co-doped SAPO-5 molecular sieve and its performance in the oxidation of cyclohexane with molecular oxygen. <i>Chinese Journal of Catalysis</i> , 2016 , 37, 273-280	11.3	13
99	Mechanistic Study of Selective Catalytic Reduction of NO with NH ₃ on W-Doped CeO ₂ Catalysts: Unraveling the Catalytic Cycle and the Role of Oxygen Vacancy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2271-2283	3.8	63
98	Cooperative catalysis for the direct hydrodeoxygenation of vegetable oils into diesel-range alkanes over Pd/NbOPO ₄ . <i>Chemical Communications</i> , 2016 , 52, 5160-3	5.8	34
97	Hollandite Structure K _(x0.25) IrO ₂ Catalyst with Highly Efficient Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 820-6	9.5	58
96	Selectivity switching resulting in the formation of benzene by surface carbonates on ceria in catalytic gas-phase oxidation of benzyl alcohol. <i>Chemical Communications</i> , 2016 , 52, 2827-30	5.8	7
95	Methanol Conversion into Dimethyl Ether on the Anatase TiO ₂ (001) Surface. <i>Angewandte Chemie</i> , 2016 , 128, 633-638	3.6	9
94	OER activity manipulated by IrO coordination geometry: an insight from pyrochlore iridates. <i>Scientific Reports</i> , 2016 , 6, 38429	4.9	60
93	Wu and Gong Reply. <i>Physical Review Letters</i> , 2016 , 117, 279602	7.4	2
92	Facet-dependent photocatalytic performance of TiO ₂ : A DFT study. <i>Applied Catalysis B: Environmental</i> , 2016 , 198, 1-8	21.8	28
91	Fe(II)Ti(IV)O ₃ mixed oxide monolayer at rutile TiO ₂ (011): Structures and reactivities. <i>Surface Science</i> , 2016 , 653, 34-40	1.8	4

90	Reactions of Molten LiI with I ₂ , H ₂ O, and O ₂ Relevant to Halogen-Mediated Oxidative Dehydrogenation of Alkanes. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 4931-4936	3.8	4
89	Locating structures and evolution pathways of reconstructed rutile TiO ₂ (011) using genetic algorithm aided density functional theory calculations. <i>Journal of Molecular Modeling</i> , 2016 , 22, 114	2	2
88	Elucidation of the high CO ₂ reduction selectivity of isolated Rh supported on TiO ₂ : a DFT study. <i>Catalysis Science and Technology</i> , 2016 , 6, 6128-6136	5.5	27
87	Pd@Zn core-shell nanoparticles of controllable shell thickness for catalytic methanol production. <i>Catalysis Science and Technology</i> , 2016 , 6, 7698-7702	5.5	15
86	Hydrodeoxygenation of butyric acid at multi-functional Nb ₂ O ₅ catalyst: A density functional theory study. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 18502-18508	6.7	12
85	Realization approach of Pd-only three-way catalysts with high catalytic performance and thermal stability. <i>Science China Chemistry</i> , 2015 , 58, 123-130	7.9	5
84	Influence of Cl substitution on the electronic structure and catalytic activity of ceria. <i>Science China Chemistry</i> , 2015 , 58, 601-606	7.9	8
83	Prediction of Ir _{0.5} M _{0.5} O ₂ (M = Cr, Ru or Pb) Mixed Oxides as Active Catalysts for Oxygen Evolution Reaction from First-Principles Calculations. <i>Topics in Catalysis</i> , 2015 , 58, 675-681	2.3	14
82	Ordered Fe(II)Ti(IV)O ₃ Mixed Monolayer Oxide on Rutile TiO ₂ (011). <i>ACS Nano</i> , 2015 , 9, 8627-36	16.7	12
81	High-performance PdNi alloy structured in situ on monolithic metal foam for coalbed methane deoxygenation via catalytic combustion. <i>Chemical Communications</i> , 2015 , 51, 12613-6	5.8	41
80	Unique adsorption behaviors of carboxylic acids at rutile TiO ₂ (110). <i>Surface Science</i> , 2015 , 641, 82-90	1.8	16
79	Theoretical studies on the monomeric vanadium oxides supported by ceria: the atomic structures and oxidative dehydrogenation activities. <i>RSC Advances</i> , 2015 , 5, 52259-52263	3.7	6
78	An efficiently tuned d-orbital occupation of IrO by doping with Cu for enhancing the oxygen evolution reaction activity. <i>Chemical Science</i> , 2015 , 6, 4993-4999	9.4	146
77	Interfacial Effects of CeO ₂ -Supported Pd Nanorod in Catalytic CO Oxidation: A Theoretical Study. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 12923-12934	3.8	71
76	Tailoring nano-catalysts: turning gold nanoparticles on bulk metal oxides to inverse nano-metal oxides on large gold particles. <i>Chemical Communications</i> , 2015 , 51, 5975-8	5.8	15
75	Effect of the crystal plane figure on the catalytic performance of MnO ₂ for the total oxidation of propane. <i>CrystEngComm</i> , 2015 , 17, 3005-3014	3.3	125
74	Boosting power conversion efficiencies of quantum-dot-sensitized solar cells beyond 8% by recombination control. <i>Journal of the American Chemical Society</i> , 2015 , 137, 5602-9	16.4	330
73	NO adsorption and diffusion on hydroxylated rutile TiO ₂ (110). <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26594-8	3.6	14

72	Unique Electronic and Structural Effects in Vanadia/Ceria-Catalyzed Reactions. <i>Journal of the American Chemical Society</i> , 2015 , 137, 13228-31	16.4	37
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2	Tautomeric Dual-Site Passivation for Carbon-Based Printable Mesoscopic Perovskite Solar Cells. <i>Advanced Materials Interfaces</i> , 2200326	4.6	1
1	Spontaneous Bulk-Surface Charge Separation of TiO ₂ -{001} Nanocrystals Leads to High Activity in Photocatalytic Methane Combustion. <i>ACS Catalysis</i> , 6457-6463	13.1	1

