Guanghui Zhang

List of Publications by Year
in descending order

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122 papers	7,791 citations	44042 48 h-index	54882 84 g-index
133 all docs	133 docs citations	133 times ranked	8525 citing authors

#	Article	IF	Citations
1	High-Density Ultra-small Clusters and Single-Atom Fe Sites Embedded in Graphitic Carbon Nitride (g-C₃N₄) for Highly Efficient Catalytic Advanced Oxidation Processes. ACS Nano, 2018, 12, 9441-9450.	7.3	455
2	Engineering single-atomic ruthenium catalytic sites on defective nickel-iron layered double hydroxide for overall water splitting. Nature Communications, 2021, 12, 4587.	5.8	401
3	High-Performance Transition Metal Phosphide Alloy Catalyst for Oxygen Evolution Reaction. ACS Nano, 2018, 12, 158-167.	7.3	321
4	Selective electroreduction of CO2 to acetone by single copper atoms anchored on N-doped porous carbon. Nature Communications, 2020, 11, 2455.	5.8	265
5	Uniform N-coordinated single-atomic iron sites dispersed in porous carbon framework to activate PMS for efficient BPA degradation via high-valent iron-oxo species. Chemical Engineering Journal, 2020, 389, 124382.	6.6	226
6	Design and application of active sites in g-C3N4-based photocatalysts. Journal of Materials Science and Technology, 2020, 56, 69-88.	5.6	211
7	CO₂ Hydrogenation to Methanol over In₂O₃-Based Catalysts: From Mechanism to Catalyst Development. ACS Catalysis, 2021, 11, 1406-1423.	5.5	198
8	Reversible loss of coreâ€“shell structure for Niâ€“Au bimetallic nanoparticles during CO2 hydrogenation. Nature Catalysis, 2020, 3, 411-417.	16.1	186
9	Single-atom platinum confined by the interlayer nanospace of carbon nitride for efficient photocatalytic hydrogen evolution. Nano Energy, 2020, 69, 104409.	8.2	185
10	Enhanced performance and selectivity of CO2 methanation over phyllosilicate structure derived Ni-Mg/SBA-15 catalysts. Applied Catalysis B: Environmental, 2021, 282, 119564.	10.8	145
11	Isolated Fe^{II} on Silica As a Selective Propane Dehydrogenation Catalyst. ACS Catalysis, 2015, 5, 3494-3503.	5.5	144
12	Direct Observation of Reduction of Cu(II) to Cu(I) by Terminal Alkynes. Journal of the American Chemical Society, 2014, 136, 924-926.	6.6	136
13	Palladiumâ€Catalyzed Oxidative Carbonylation of Nâ€Allylamines for the Synthesis of Î²â€Lactams. Angewandte Chemie - International Edition, 2014, 53, 2443-2446.	7.2	133
14	CO₂ Hydrogenation on Unpromoted and M-Promoted Co/TiO₂ Catalysts (M =) Tj ETQq0 0 0 rgBT /Overlock 1 Distribution. ACS Catalysis, 2019, 9, 2739-2751.	5.5	130
15	Gas-Phase Dimerization of Ethylene under Mild Conditions Catalyzed by MOF Materials Containing (bpy)Ni^{II} Complexes. ACS Catalysis, 2015, 5, 6713-6718.	5.5	127
16	Copper-catalyzed oxidative ipso-carboalkylation of activated alkynes with ethers leading to 3-etherified azaspiro[4.5]trienones. Organic Chemistry Frontiers, 2014, 1, 484.	2.3	126
17	Changes in Catalytic and Adsorptive Properties of 2 nm Pt₃Mn Nanoparticles by Subsurface Atoms. Journal of the American Chemical Society, 2018, 140, 14870-14877.	6.6	121
18	Promoting effect of Fe on supported Ni catalysts in CO2 methanation by in situ DRIFTS and DFT study. Journal of Catalysis, 2020, 392, 266-277.	3.1	118

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19	Facile Synthesis of Atomic Feâ€Nâ€C Materials and Dual Roles Investigation of Feâ€N₄ Sites in Fentonâ€Like Reactions. Advanced Science, 2021, 8, e2101824.	5.6	118
20	Variation in the In₂O₃ Crystal Phase Alters Catalytic Performance toward the Reverse Water Gas Shift Reaction. ACS Catalysis, 2020, 10, 3264-3273.	5.5	112
21	Strong Electronic Coupling of Molecular Sites to Graphitic Electrodes via Pyrazine Conjugation. Journal of the American Chemical Society, 2018, 140, 1004-1010.	6.6	111
22	Identification of a Pt₃Co Surface Intermetallic Alloy in Ptâ€“Co Propane Dehydrogenation Catalysts. ACS Catalysis, 2019, 9, 5231-5244.	5.5	111
23	Deconvolution of the Particle Size Effect on CO₂ Hydrogenation over Iron-Based Catalysts. ACS Catalysis, 2020, 10, 7424-7433.	5.5	108
24	Selfâ€Supporting 3D Carbon Nitride with Tunable n â†' Ï€* Electronic Transition for Enhanced Solar Hydrogen Production. Advanced Materials, 2021, 33, e2104361.	11.1	105
25	Cu(II)â€“Cu(I) Synergistic Cooperation to Lead the Alkyne Câ€“H Activation. Journal of the American Chemical Society, 2014, 136, 16760-16763.	6.6	97
26	Utilization of CO2 for aromatics production over ZnO/ZrO2-ZSM-5 tandem catalyst. Journal of CO2 Utilization, 2019, 29, 140-145.	3.3	96
27	Dynamic structural evolution of iron catalysts involving competitive oxidation and carburization during CO ₂ hydrogenation. Science Advances, 2022, 8, eabm3629.	4.7	92
28	A Structural Mimic of Carbonic Anhydrase in a Metal-Organic Framework. CheM, 2018, 4, 2894-2901.	5.8	91
29	Organometallic model complexes elucidate the active gallium species in alkane dehydrogenation catalysts based on ligand effects in Ga K-edge XANES. Catalysis Science and Technology, 2016, 6, 6339-6353.	2.1	90
30	Modulating the Electronic Structure of Singleâ€Atom Catalysts on 2D Nanomaterials for Enhanced Electrocatalytic Performance. Small Methods, 2019, 3, 1800438.	4.6	88
31	Labile Cu(I) Catalyst/Spectator Cu(II) Species in Copper-Catalyzed Câ€“C Coupling Reaction: Operando IR, in Situ XANES/EXAFS Evidence and Kinetic Investigations. Journal of the American Chemical Society, 2013, 135, 488-493.	6.6	78
32	Bond breakage under pressure in a metal organic framework. Chemical Science, 2017, 8, 8004-8011.	3.7	77
33	Benzene Selectivity in Competitive Arene Hydrogenation: Effects of Single-Site CatalystÂ·Â·Â·Acidic Oxide Surface Binding Geometry. Journal of the American Chemical Society, 2015, 137, 6770-6780.	6.6	76
34	Transition metal-free decarboxylative alkylation reactions. Organic and Biomolecular Chemistry, 2016, 14, 10763-10777.	1.5	74
35	Stabilized Vanadium Catalyst for Olefin Polymerization by Site Isolation in a Metalâ€“Organic Framework. Angewandte Chemie - International Edition, 2018, 57, 8135-8139.	7.2	73
36	Designing Highly Efficient and Longâ€Term Durable Electrocatalyst for Oxygen Evolution by Coupling B and P into Amorphous Porous NiFeâ€Based Material. Small, 2019, 15, e1901020.	5.2	71

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37	Compression-Induced Deformation of Individual Metalâ€“Organic Framework Microcrystals. Journal of the American Chemical Society, 2015, 137, 1750-1753.	6.6	66
38	Single-Site Palladium(II) Catalyst for Oxidative Heck Reaction: Catalytic Performance and Kinetic Investigations. ACS Catalysis, 2015, 5, 3752-3759.	5.5	66
39	Evidence for the Coordinationâ€“Insertion Mechanism of Ethene Dimerization at Nickel Cations Exchanged onto Beta Molecular Sieves. ACS Catalysis, 2018, 8, 11407-11422.	5.5	66
40	Synthesis and properties of iridium complexes based 1,3,4-oxadiazoles derivatives. Tetrahedron, 2008, 64, 1860-1867.	1.0	65
41	Enhancing the stability of copper chromite catalysts for the selective hydrogenation of furfural using ALD overcoating. Journal of Catalysis, 2014, 317, 284-292.	3.1	65
42	Operando X-ray absorption and EPR evidence for a single electron redox process in copper catalysis. Chemical Science, 2015, 6, 4851-4854.	3.7	65
43	Highly Stereoselective Heterogeneous Diene Polymerization by Co-MFU-4l: A Single-Site Catalyst Prepared by Cation Exchange. Journal of the American Chemical Society, 2017, 139, 12664-12669.	6.6	63
44	Highly Selective Heterogeneous Ethylene Dimerization with a Scalable and Chemically Robust MOF Catalyst. ACS Sustainable Chemistry and Engineering, 2019, 7, 6654-6661.	3.2	62
45	Selective Dimerization of Propylene with Ni-MFU-4l. Organometallics, 2017, 36, 1681-1683.	1.1	55
46	The Nature of the Isolated Gallium Active Center for Propane Dehydrogenation on Ga/SiO2. Catalysis Letters, 2017, 147, 1252-1262.	1.4	54
47	Reaction-driven surface reconstruction of ZnAl2O4 boosts the methanol selectivity in CO2 catalytic hydrogenation. Applied Catalysis B: Environmental, 2021, 284, 119700.	10.8	53
48	Engineering of g-C3N4-based photocatalysts to enhance hydrogen evolution. Advances in Colloid and Interface Science, 2021, 295, 102488.	7.0	52
49	Discovery of Highly Selective Alkyne Semihydrogenation Catalysts Based on Firstâ€Row Transitionâ€Metallated Porous Organic Polymers. Angewandte Chemie - International Edition, 2014, 53, 12055-12058.	7.2	51
50	Copper-/Cobalt-Catalyzed Highly Selective Radical Dioxygenation of Alkenes. Organic Letters, 2015, 17, 3402-3405.	2.4	50
51	Supported Single-Site Ti(IV) on a Metalâ€“Organic Framework for the Hydroboration of Carbonyl Compounds. Organometallics, 2017, 36, 3921-3930.	1.1	50
52	3D self-supported Ni(PO₃)₂â€“MoO₃nanorods anchored on nickel foam for highly efficient overall water splitting. Nanoscale, 2018, 10, 22173-22179.	2.8	50
53	Intermetallic Compounds as an Alternative to Singleâ€atom Alloy Catalysts: Geometric and Electronic Structures from Advanced Xâ€ray Spectroscopies and Computational Studies. ChemCatChem, 2020, 12, 1325-1333.	1.8	50
54	Insight into the role of Fe5C2 in CO2 catalytic hydrogenation to hydrocarbons. Catalysis Today, 2021, 371, 162-170.	2.2	50

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55	Enhanced kinetics for CO2 sorption in amine-functionalized mesoporous silica nanosphere with inverted cone-shaped pore structure. Applied Energy, 2020, 264, 114637.	5.1	47
56	Identification of Surface Structures in Pt₃Cr Intermetallic Nanocatalysts. Chemistry of Materials, 2019, 31, 1597-1609.	3.2	46
57	Engineering the Local Coordination Environment and Density of FeN₄ Sites by Mn Cooperation for Electrocatalytic Oxygen Reduction. Small, 2022, 18, e2200911.	5.2	44
58	Boosting light olefin selectivity in CO2 hydrogenation by adding Co to Fe catalysts within close proximity. Catalysis Today, 2021, 371, 142-149.	2.2	43
59	Hierarchical 2D yarn-ball like metalâ€“organic framework NiFe(dobpdc) as bifunctional electrocatalyst for efficient overall electrocatalytic water splitting. Journal of Materials Chemistry A, 2020, 8, 22974-22982.	5.2	43
60	Promotion of Pd nanoparticles by Fe and formation of a Pd3Fe intermetallic alloy for propane dehydrogenation. Catalysis Today, 2019, 323, 123-128.	2.2	42
61	Bimetallic zinc complex â€“ active species in coupling of terminal alkynes with aldehydes via nucleophilic addition/Oppenauer oxidation. Chemical Communications, 2015, 51, 576-579.	2.2	39
62	Effect of Siloxane Ring Strain and Cation Charge Density on the Formation of Coordinately Unsaturated Metal Sites on Silica: Insights from Density Functional Theory (DFT) Studies. ACS Catalysis, 2015, 5, 7177-7185.	5.5	38
63	Conversion of Dimethyl Ether to 2,2,3-Trimethylbutane over a Cu/BEA Catalyst: Role of Cu Sites in Hydrogen Incorporation. ACS Catalysis, 2015, 5, 1794-1803.	5.5	37
64	Deconvolution of octahedral Pt3Ni nanoparticle growth pathway from in situ characterizations. Nature Communications, 2018, 9, 4485.	5.8	37
65	A facile sulfur-assisted method to synthesize porous alveolate Fe/g-C3N4 catalysts with ultra-small cluster and atomically dispersed Fe sites. Chinese Journal of Catalysis, 2020, 41, 1198-1207.	6.9	37
66	Catalytic Conversion of Carbon Dioxide to Methanol: Current Status and Future Perspective. Frontiers in Energy Research, 2021, 8, .	1.2	36
67	Evidence of Cu^I/Cu^{II} Redox Process by Xâ€ray Absorption and EPR Spectroscopy: Direct Synthesis of Dihydrofurans from Î²â€Ketocarbonyl Derivatives and Olefins. Chemistry - A European Journal, 2015, 21, 18925-18929.	1.7	35
68	Overcoating the Surface of Fe-Based Catalyst with ZnO and Nitrogen-Doped Carbon toward High Selectivity of Light Olefins in CO₂ Hydrogenation. Industrial & Engineering Chemistry Research, 2019, 58, 4017-4023.	1.8	35
69	Direct difunctionalization of activated alkynes via domino oxidative benzylation/1,4-aryl migration/decarboxylation reactions under metal-free conditions. Chemical Communications, 2016, 52, 3175-3178.	2.2	34
70	Controllable assembly of single/double-thin-shell g-C₃N₄ vesicles via a shape-selective solid-state templating method for efficient photocatalysis. Journal of Materials Chemistry A, 2019, 7, 17815-17822.	5.2	33
71	Trifluoromethanesulfonic Acid Catalyzed Synergetic Oxidative/[3+2] Cyclization of Quinones with Olefins. Angewandte Chemie - International Edition, 2013, 52, 10195-10198.	7.2	31
72	Tetrahedral Nickel(II) Phosphosilicate Singleâ€Site Selective Propane Dehydrogenation Catalyst. ChemCatChem, 2018, 10, 961-964.	1.8	31

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73	Identification of the structure of the Bi promoted Pt non-oxidative coupling of methane catalyst: a nanoscale Pt₃Bi intermetallic alloy. Catalysis Science and Technology, 2019, 9, 1349-1356.	2.1	31
74	Assignment of the oxidation states of Zr and Co in a highly reactive heterobimetallic Zr/Co complex using X-ray absorption spectroscopy (XANES). Dalton Transactions, 2014, 43, 13852.	1.6	29
75	Investigating Chemistry of Metal Dissolution in Amineâ€“Thiol Mixtures and Exploiting It toward Benign Ink Formulation for Metal Chalcogenide Thin Films. Chemistry of Materials, 2019, 31, 5674-5682.	3.2	28
76	Synthesis and Catalytic Hydrogenation Reactivity of a Chromium Catecholate Porous Organic Polymer. Organometallics, 2015, 34, 947-952.	1.1	27
77	Dinuclear versus mononuclear pathways in zinc mediated nucleophilic addition: a combined experimental and DFT study. Dalton Transactions, 2015, 44, 11165-11171.	1.6	26
78	Structure Determination of a Surface Tetragonal Pt₁Sb₁ Phase on Pt Nanoparticles. Chemistry of Materials, 2018, 30, 4503-4507.	3.2	26
79	Olefin oligomerization by main group Ga3+ and Zn2+ single site catalysts on SiO2. Nature Communications, 2021, 12, 2322.	5.8	26
80	Promoting Propane Dehydrogenation with CO₂ over the PtFe Bimetallic Catalyst by Eliminating the Non-selective Fe(0) Phase. ACS Catalysis, 2022, 12, 6559-6569.	5.5	26
81	Homolytic cleavage of the Oâ€“Cu(<scp>ii</scp>) bond: XAFS and EPR spectroscopy evidence for one electron reduction of Cu(<scp>ii</scp>) to Cu(<scp>i</scp>). Chemical Communications, 2016, 52, 6914-6917.	2.2	25
82	Copper-catalyzed aerobic oxidative coupling: From ketone and diamine to pyrazine. Science Advances, 2015, 1, e1500656.	4.7	24
83	Iridium(III) complexes with cyclometalated styrylbenzoimidazole ligands: Synthesis, electrochemistry and as highly efficient emitters for organic light-emitting diodes. Synthetic Metals, 2010, 160, 1906-1911.	2.1	23
84	Silverâ€Catalyzed Decarboxylative Couplings of Acids and Anhydrides: An Entry to 1,2â€Diketones and Arylâ€Substituted Ethanes. Advanced Synthesis and Catalysis, 2018, 360, 1439-1443.	2.1	23
85	Toward Efficient Carbon and Water Cycles: Emerging Opportunities with Singleâ€Site Catalysts Made of 3d Transition Metals. Advanced Materials, 2020, 32, e1905548.	11.1	23
86	Rhodium Catechol Containing Porous Organic Polymers: Defined Catalysis for Single-Site and Supported Nanoparticulate Materials. Organometallics, 2014, 33, 2517-2522.	1.1	22
87	Revealing the halide effect on the kinetics of the aerobic oxidation of Cu(<scp>i</scp>) to Cu(<scp>ii</scp>). Chemical Communications, 2015, 51, 318-321.	2.2	21
88	Highly efficient white organic light-emitting diodes based on broad excimer emission of iridium complex. Organic Electronics, 2010, 11, 1165-1171.	1.4	19
89	Structureâ€“kinetic relationship study of organozinc reagents. Chemical Communications, 2014, 50, 8709.	2.2	19
90	The effect of strong metalâ€“support interaction (SMSI) on Ptâ€“Ti/SiO2 and Ptâ€“Nb/SiO2 catalysts for propane dehydrogenation. Catalysis Science and Technology, 2020, 10, 5973-5982.	2.1	19

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91	Synthesis of a highly phosphorescent emitting iridium(III) complex and its application in OLEDs. Journal of Organometallic Chemistry, 2008, 693, 2798-2802.	0.8	17
92	Molybdenum-Incorporated Mesoporous Silica: Surface Engineering toward Enhanced Metalâ€“Support Interactions and Efficient Hydrogenation. ACS Applied Materials & Interfaces, 2018, 10, 42475-42483.	4.0	17
93	Gas-Phase Ethylene Polymerization by Single-Site Cr Centers in a Metalâ€“Organic Framework. ACS Catalysis, 2020, 10, 3864-3870.	5.5	17
94	High-efficient phosphorescent iridium(III) complexes with benzimidazole ligand for organic light-emitting diodes: Synthesis, electrochemistry and electroluminescent properties. Journal of Organometallic Chemistry, 2009, 694, 2415-2420.	0.8	16
95	Bimetallic Ironâ€“Cobalt Catalysts and Their Applications in Energy-Related Electrochemical Reactions. Catalysts, 2019, 9, 762.	1.6	16
96	Structural and Catalytic Properties of Isolated Pt²⁺ Sites in Platinum Phosphide (PtP₂). ACS Catalysis, 2021, 11, 13496-13509.	5.5	15
97	Highly efficient organic light-emitting diodes (OLEDs) based on an iridium complex with rigid cyclometalated ligand. Organic Electronics, 2010, 11, 632-640.	1.4	14
98	Pyrolysis-driven synthesis of nanoscale carambola-like carbon decorated with atomically dispersed Fe sites toward efficient oxygen reduction reaction. Catalysis Science and Technology, 2020, 10, 7160-7164.	2.1	13
99	Promoting propane dehydrogenation with CO2 over Ga2O3/SiO2 by eliminating Ga-hydrides. Chinese Journal of Catalysis, 2021, 42, 2225-2233.	6.9	13
100	Unraveling the tunable selectivity on cobalt oxide and metallic cobalt sites for CO2 hydrogenation. Chemical Engineering Journal, 2022, 446, 137217.	6.6	13
101	Tracing the Active Phase and Dynamics for Carbon Nanofiber Growth on Nickel Catalyst Using Environmental Transmission Electron Microscopy. Small Methods, 2022, 6, e2200235.	4.6	12
102	BEEF-vdW+U method applied to perovskites: thermodynamic, structural, electronic, and magnetic properties. Journal of Physics Condensed Matter, 2019, 31, 145901.	0.7	11
103	Mechanism of Meâ€“Re Bond Addition to Platinum(II) and Dioxygen Activation by the Resulting Ptâ€“Re Bimetallic Center. Inorganic Chemistry, 2017, 56, 2145-2152.	1.9	10
104	Diffusion-Limited Formation of Nonequilibrium Intermetallic Nanophase for Selective Dehydrogenation. Nano Letters, 2019, 19, 4380-4383.	4.5	10
105	Impacts of nano-scale pore structure and organic amine assembly in porous silica on the kinetics of CO2 adsorptive separation. Nano Research, 2021, 14, 3294-3302.	5.8	10
106	Trifluoromethanesulfonic Acid Catalyzed Synergetic Oxidative/[3+2] Cyclization of Quinones with Olefins. Angewandte Chemie, 2013, 125, 10385-10388.	1.6	9
107	Facile Preparation of Methyl Phenols from Ethanol over Lamellar Ce(OH)SO₄·xH₂O. ACS Catalysis, 2021, 11, 6162-6174.	5.5	9
108	In Situ Xâ€ray Absorption Spectroscopy and Nonclassical Catalytic Hydrogenation with an Iron(II) Catecholate Immobilized on a Porous Organic Polymer. European Journal of Inorganic Chemistry, 2013, 2013, 3972-3977.	1.0	7

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109	Structural Evolution of MOF-Derived RuCo, A General Catalyst for the Guerbet Reaction. ACS Applied Materials & Interfaces, 2021, , .	4.0	7
110	Short-brush NiFeOxHy films and the Pt derivative as high-performance electrode materials for efficient electrocatalytic water splitting. Applied Surface Science, 2022, 574, 151636.	3.1	7
111	Aromatic Câ€“H bond cleavage by using a Cu(i) ate-complex. Organic Chemistry Frontiers, 2016, 3, 975-978.	2.3	6
112	Stabilized Vanadium Catalyst for Olefin Polymerization by Site Isolation in a Metalâ€“Organic Framework. Angewandte Chemie, 2018, 130, 8267-8271.	1.6	6
113	Reaction-Mediated Transformation of Working Catalysts. ACS Catalysis, 2022, 12, 8007-8018.	5.5	6
114	Impact of substituents in the Nâˆ§N ligand on the emission wavelength of Cu(I) complexes: Insight from experimental and theoretical approach. Journal of Luminescence, 2010, 130, 976-980.	1.5	5
115	CO2 Hydrogenation to Olefin-Rich Hydrocarbons Over Fe-Cu Bimetallic Catalysts: An Investigation of Fe-Cu Interaction and Surface Species. Frontiers in Chemical Engineering, 2021, 3, .	1.3	5
116	Which one is faster? A kinetic investigation of Pd and Ni catalyzed Negishi-type oxidative coupling reactions. Dalton Transactions, 2015, 44, 19777-19781.	1.6	4
117	First-Principles Analysis of Ethylene Oligomerization on Single-Site Ga³⁺ Catalysts Supported on Amorphous Silica. ACS Catalysis, 2022, 12, 5416-5424.	5.5	4
118	Boosting the Production of Higher Alcohols from CO₂ and H₂ over Mn- and K-Modified Iron Carbide. Industrial & Engineering Chemistry Research, 2022, 61, 7266-7274.	1.8	4
119	Synthesis and luminescent properties of Ir complexes with fluorine substituted phenylpyridine derivative ligands. Synthetic Metals, 2008, 158, 912-916.	2.1	3
120	The Effect of Gold Nanoparticles on the Catalytic Activity of NiTiO3 for Hydrodeoxygenation of Guaiacol. Catalysts, 2021, 11, 994.	1.6	3
121	Corrigendum to â€œEnhancing the stability of copper chromite catalysts for the selective hydrogenation of furfural using ALD overcoatingâ€•[J. Catal. 317 (2014) 284â€“292]. Journal of Catalysis, 2015, 323, 165.	3.1	1
122	Controlled synthesis of metal-organic frameworks with skeletal and pore-filling iron(III) porphyrins for electrochemical oxygen reduction. Journal of Porphyrins and Phthalocyanines, 2021, 25, 878-884.	0.4	0