

Yonghai Cao

List of Publications by Year in descending order

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110
papers

7,537
citations

50170

46
h-index

54797

84
g-index

111
all docs

111
docs citations

111
times ranked

9631
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorus-doped Graphite Layers with High Electrocatalytic Activity for the O_2 Reduction in an Alkaline Medium. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3257-3261.	7.2	647
2	High efficiency photocatalytic hydrogen production over ternary Cu/TiO ₂ @Ti ₃ C ₂ T _x enabled by low-work-function 2D titanium carbide. <i>Nano Energy</i> , 2018, 53, 97-107.	8.2	300
3	A hydrothermal etching route to synthesis of 2D MXene (Ti ₃ C ₂ , Nb ₂ C): Enhanced exfoliation and improved adsorption performance. <i>Ceramics International</i> , 2018, 44, 18886-18893.	2.3	276
4	Magnetic Nanocarbon Adsorbents with Enhanced Hexavalent Chromium Removal: Morphology Dependence of Fibrillar vs Particulate Structures. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10689-10701.	1.8	267
5	Preparation of cuprous oxides with different sizes and their behaviors of adsorption, visible-light driven photocatalysis and photocorrosion. <i>Solid State Sciences</i> , 2009, 11, 129-138.	1.5	266
6	2H- and 1T- mixed phase few-layer MoS ₂ as a superior to Pt co-catalyst coated on TiO ₂ nanorod arrays for photocatalytic hydrogen evolution. <i>Applied Catalysis B: Environmental</i> , 2019, 241, 236-245.	10.8	242
7	Selective Catalysis of the Aerobic Oxidation of Cyclohexane in the Liquid Phase by Carbon Nanotubes. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 3978-3982.	7.2	234
8	Nitrogen-, phosphorous- and boron-doped carbon nanotubes as catalysts for the aerobic oxidation of cyclohexane. <i>Carbon</i> , 2013, 57, 433-442.	5.4	209
9	Carbocatalysis in Liquid-Phase Reactions. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 936-964.	7.2	209
10	Electronic synergism of pyridinic- and graphitic-nitrogen on N-doped carbons for the oxygen reduction reaction. <i>Chemical Science</i> , 2019, 10, 1589-1596.	3.7	170
11	Pt nanoparticles interacting with graphitic nitrogen of N-doped carbon nanotubes: Effect of electronic properties on activity for aerobic oxidation of glycerol and electro-oxidation of CO. <i>Journal of Catalysis</i> , 2015, 325, 136-144.	3.1	154
12	Revealing the enhanced catalytic activity of nitrogen-doped carbon nanotubes for oxidative dehydrogenation of propane. <i>Chemical Communications</i> , 2013, 49, 8151.	2.2	149
13	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. <i>Journal of Materials Chemistry A</i> , 2018, 6, 13062-13074.	5.2	145
14	Selective Allylic Oxidation of Cyclohexene Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>ACS Catalysis</i> , 2014, 4, 1617-1625.	5.5	143
15	Efficient electrochemical reduction of CO ₂ into CO promoted by sulfur vacancies. <i>Nano Energy</i> , 2019, 60, 43-51.	8.2	136
16	Kinetically Controlled Side-Wall Functionalization of Carbon Nanotubes by Nitric Acid Oxidation. <i>Journal of Physical Chemistry C</i> , 2008, 112, 6758-6763.	1.5	128
17	Electron transfer dependent catalysis of Pt on N-doped carbon nanotubes: Effects of synthesis method on metal-support interaction. <i>Journal of Catalysis</i> , 2017, 348, 100-109.	3.1	126
18	One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal. <i>Carbon</i> , 2016, 109, 640-649.	5.4	125

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19	Nitrogen doped carbon nanotubes with encapsulated ferric carbide as excellent electrocatalyst for oxygen reduction reaction in acid and alkaline media. <i>Journal of Power Sources</i> , 2015, 286, 495-503.	4.0	121
20	Elucidating Interaction between Palladium and N-Doped Carbon Nanotubes: Effect of Electronic Property on Activity for Nitrobenzene Hydrogenation. <i>ACS Catalysis</i> , 2019, 9, 2893-2901.	5.5	101
21	Facile preparation of RuO ₂ /CNT catalyst by a homogenous oxidation precipitation method and its catalytic performance. <i>Applied Catalysis A: General</i> , 2007, 321, 190-197.	2.2	100
22	Aerobic Liquid-Phase Oxidation of Ethylbenzene to Acetophenone Catalyzed by Carbon Nanotubes. <i>ChemCatChem</i> , 2013, 5, 1578-1586.	1.8	97
23	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. <i>Chemical Engineering Journal</i> , 2014, 240, 434-442.	6.6	96
24	A bi-functional Co ₁₂ Al ₁₄ O ₃₃ catalyst for sorption-enhanced steam reforming of glycerol to high-purity hydrogen. <i>Chemical Engineering Journal</i> , 2016, 286, 329-338.	6.6	81
25	Identifying active sites of CoNC/CNT from pyrolysis of molecularly defined complexes for oxidative esterification and hydrogenation reactions. <i>Catalysis Science and Technology</i> , 2016, 6, 1007-1015.	2.1	80
26	Bifunctional CdS@Co ₉ S ₈ /Ni ₃ S ₂ catalyst for efficient electrocatalytic and photo-assisted electrocatalytic overall water splitting. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3083-3096.	5.2	78
27	Selective liquid phase oxidation of benzyl alcohol catalyzed by carbon nanotubes. <i>Chemical Engineering Journal</i> , 2012, 204-206, 98-106.	6.6	77
28	ZnO/CdS/PbS nanotube arrays with multi-heterojunctions for efficient visible-light-driven photoelectrochemical hydrogen evolution. <i>Chemical Engineering Journal</i> , 2019, 362, 658-666.	6.6	76
29	High performance hydrogenated TiO ₂ nanorod arrays as a photoelectrochemical sensor for organic compounds under visible light. <i>Electrochemistry Communications</i> , 2014, 40, 24-27.	2.3	74
30	Engineering highly active Ag/Nb ₂ O ₅ @Nb ₂ CT (MXene) photocatalysts via steering charge kinetics strategy. <i>Chemical Engineering Journal</i> , 2021, 421, 128766.	6.6	73
31	Novel Highly Active Anatase/Rutile TiO ₂ Photocatalyst with Hydrogenated Heterophase Interface Structures for Photoelectrochemical Water Splitting into Hydrogen. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10823-10832.	3.2	69
32	Metal-free carbocatalysis for electrochemical oxygen reduction reaction: Activity origin and mechanism. <i>Journal of Energy Chemistry</i> , 2020, 48, 308-321.	7.1	69
33	Revealing active-site structure of porous nitrogen-defected carbon nitride for highly effective photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2019, 373, 687-699.	6.6	68
34	The Evolution from a Typical Type-I CdS/ZnS to Type-II and Z-Scheme Hybrid Structure for Efficient and Stable Hydrogen Production under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4537-4546.	3.2	65
35	Electron-Rich Ruthenium on Nitrogen-Doped Carbons Promoting Levulinic Acid Hydrogenation to β -Valerolactone: Effect of Metal-Support Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 16501-16510.	3.2	64
36	Lignin derived multi-doped (N, S, Cl) carbon materials as excellent electrocatalyst for oxygen reduction reaction in proton exchange membrane fuel cells. <i>Journal of Energy Chemistry</i> , 2020, 44, 106-114.	7.1	62

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37	A facile fabrication of hierarchical Ag nanoparticles-decorated N-TiO ₂ with enhanced photocatalytic hydrogen production under solar light. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 3446-3455.	3.8	61
38	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. <i>Carbon</i> , 2017, 115, 503-514.	5.4	60
39	Co ₉ S ₈ -porous carbon spheres as bifunctional electrocatalysts with high activity and stability for oxygen reduction and evolution reactions. <i>Electrochimica Acta</i> , 2018, 265, 32-40.	2.6	58
40	The effect of edge carbon of carbon nanotubes on the electrocatalytic performance of oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2014, 40, 5-8.	2.3	55
41	Synergistic Effect of Nitrogen Dopants on Carbon Nanotubes on the Catalytic Selective Epoxidation of Styrene. <i>ACS Catalysis</i> , 2020, 10, 129-137.	5.5	55
42	Carbon nanotubes as catalyst for the aerobic oxidation of cumene to cumene hydroperoxide. <i>Applied Catalysis A: General</i> , 2014, 478, 1-8.	2.2	54
43	Manipulating photocatalytic pathway and activity of ternary Cu ₂ O/(001)TiO ₂ @Ti ₃ C ₂ T _x catalysts for H ₂ evolution: Effect of surface coverage. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 29975-29985.	3.8	50
44	Competitive adsorption on single-atom catalysts: Mechanistic insights into the aerobic oxidation of alcohols over Co N C. <i>Journal of Catalysis</i> , 2019, 377, 283-292.	3.1	48
45	Syngas production by dry reforming of the mixture of glycerol and ethanol with CaCO ₃ . <i>Journal of Energy Chemistry</i> , 2020, 43, 90-97.	7.1	48
46	sp ² - and sp ³ -hybridized carbon materials as catalysts for aerobic oxidation of cyclohexane. <i>Catalysis Science and Technology</i> , 2013, 3, 2654.	2.1	46
47	Mechanistic Insight into the Catalytic Oxidation of Cyclohexane over Carbon Nanotubes: Kinetic and In Situ Spectroscopic Evidence. <i>Chemistry - A European Journal</i> , 2013, 19, 9818-9824.	1.7	44
48	Preparation of nitrogen and sulfur co-doped ultrathin graphitic carbon via annealing bagasse lignin as potential electrocatalyst towards oxygen reduction reaction in alkaline and acid media. <i>Journal of Energy Chemistry</i> , 2019, 34, 33-42.	7.1	44
49	Nickel Nanoparticles Encapsulated in Nitrogen-Doped Carbon Nanotubes as Excellent Bifunctional Oxygen Electrode for Fuel Cell and Metal-Air Battery. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 15108-15118.	3.2	42
50	Catalytic wet air oxidation of phenol over carbon nanotubes: Synergistic effect of carboxyl groups and edge carbons. <i>Carbon</i> , 2018, 133, 464-473.	5.4	41
51	Highly efficient and acid-corrosion resistant nitrogen doped magnetic carbon nanotubes for the hexavalent chromium removal with subsequent reutilization. <i>Chemical Engineering Journal</i> , 2019, 361, 547-558.	6.6	41
52	CdS@Ni ₃ S ₂ for efficient and stable photo-assisted electrochemical (P-EC) overall water splitting. <i>Chemical Engineering Journal</i> , 2021, 405, 126231.	6.6	41
53	A kinetics study on cumene oxidation catalyzed by carbon nanotubes: Effect of N-doping. <i>Chemical Engineering Science</i> , 2018, 177, 391-398.	1.9	40
54	Revealing the Relationship between Photocatalytic Properties and Structure Characteristics of TiO ₂ Reduced by Hydrogen and Carbon Monoxide Treatment. <i>ChemSusChem</i> , 2018, 11, 2766-2775.	3.6	40

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55	Tuning the Selectivity in the Aerobic Oxidation of Cumene Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>ChemCatChem</i> , 2014, 6, 555-560.	1.8	38
56	Carbon composite spun fibers with in situ formed multicomponent nanoparticles for a lithium-ion battery anode with enhanced performance. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9881-9889.	5.2	38
57	In-situ photo-deposition CuO cluster on TiO ₂ for enhanced photocatalytic H ₂ -production activity. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 19942-19950.	3.8	38
58	Calcium cobaltate: a phase-change catalyst for stable hydrogen production from bio-glycerol. <i>Energy and Environmental Science</i> , 2018, 11, 660-668.	15.6	38
59	Synergistic carbon nanotube aerogel Pt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3238-3244.	5.2	35
60	Design and preparation of CdS/H-3D-TiO ₂ /Pt-wire photocatalysis system with enhanced visible-light driven H ₂ evolution. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 928-937.	3.8	35
61	Co-production of high quality hydrogen and synthesis gas via sorption-enhanced steam reforming of glycerol coupled with methane reforming of carbonates. <i>Chemical Engineering Journal</i> , 2019, 360, 47-53.	6.6	35
62	Ni foams decorated with carbon nanotubes as catalytic stirrers for aerobic oxidation of cumene. <i>Chemical Engineering Journal</i> , 2016, 306, 806-815.	6.6	34
63	Solvent effect on the allylic oxidation of cyclohexene catalyzed by nitrogen doped carbon nanotubes. <i>Catalysis Communications</i> , 2017, 88, 99-103.	1.6	34
64	Theoretical calculations and controllable synthesis of MoSe ₂ /CdS-CdSe with highly active sites for photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2020, 383, 123133.	6.6	33
65	Aerobic oxidation of α -pinene catalyzed by carbon nanotubes. <i>Catalysis Science and Technology</i> , 2015, 5, 3935-3944.	2.1	32
66	Mn ₃ O ₄ @C Nanoparticles Supported on Porous Carbon as Bifunctional Oxygen Electrodes and their Electrocatalytic Mechanism. <i>ChemElectroChem</i> , 2019, 6, 359-368.	1.7	32
67	The zinc vacancy induced CdS/ZnS Z-scheme structure as a highly stable photocatalyst for hydrogen production. <i>Journal of Alloys and Compounds</i> , 2021, 888, 161620.	2.8	32
68	Effective dismantling of waste printed circuit board assembly with methanesulfonic acid containing hydrogen peroxide. <i>Environmental Progress and Sustainable Energy</i> , 2017, 36, 873-878.	1.3	30
69	Oxygen Doping in Graphitic Carbon Nitride for Enhanced Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2020, 13, 5041-5049.	3.6	28
70	Biomass-Derived Nitrogen-Doped Porous Carbons Activated by Magnesium Chloride as Ultrahigh-Performance Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 21756-21767.	1.8	28
71	Hydrogen Production from Sorption-Enhanced Steam Reforming of Phenol over a Ni-Ca-Al-O Bifunctional Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7111-7120.	3.2	28
72	One-pot synthesis of Ru/Nb ₂ O ₅ @Nb ₂ C ternary photocatalysts for water splitting by harnessing hydrothermal redox reactions. <i>Applied Catalysis B: Environmental</i> , 2022, 303, 120910.	10.8	28

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73	Branched hydrogenated TiO ₂ nanorod arrays for improving photocatalytic hydrogen evolution performance under simulated solar light. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 20192-20197.	3.8	27
74	Controllable Preparation of Holey Graphene and Electrocatalytic Performance for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2017, 228, 203-213.	2.6	26
75	Design of cocatalyst loading position for photocatalytic water splitting into hydrogen in electrolyte solutions. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 5551-5560.	3.8	26
76	Preparation of CdS-CoS _x photocatalysts and their photocatalytic and photoelectrochemical characteristics for hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 27795-27805.	3.8	26
77	Correlation between the in-plane substrate strain and electrocatalytic activity of strontium ruthenate thin films in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 10794-10800.	5.2	25
78	Modifying carbon nanotubes supported palladium nanoparticles via regulating the electronic metal-carbon interaction for phenol hydrogenation. <i>Chemical Engineering Journal</i> , 2022, 436, 131758.	6.6	24
79	Thermoelectric-photoelectric composite nanocables induced a larger efficiency in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016, 4, 9362-9369.	5.2	23
80	Effect of the surface roughness of copper substrate on three-dimensional tin electrode for electrochemical reduction of CO ₂ into HCOOH. <i>Journal of CO₂ Utilization</i> , 2017, 21, 219-223.	3.3	23
81	O ₂ and H ₂ O transformation steps for the oxygen reduction reaction catalyzed by graphitic nitrogen-doped carbon nanotubes in acidic electrolyte from first principles calculations. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 21950-21959.	1.3	22
82	Trace amounts of Cu(OAc) ₂ boost the efficiency of cumene oxidation catalyzed by carbon nanotubes washed with HCl. <i>Catalysis Science and Technology</i> , 2020, 10, 2523-2530.	2.1	22
83	Facile Synthesis of Cobalt and Nitrogen Coordinated Carbon Nanotube as a High-Performance Electrocatalyst for Oxygen Reduction Reaction in Both Acidic and Alkaline Media. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10951-10961.	3.2	21
84	Intrinsic acid resistance and high removal performance from the incorporation of nickel nanoparticles into nitrogen doped tubular carbons for environmental remediation. <i>Journal of Colloid and Interface Science</i> , 2020, 566, 46-59.	5.0	21
85	Essential analysis of cyclic voltammetry of methanol electrooxidation using the differential electrochemical mass spectrometry. <i>Journal of Power Sources</i> , 2021, 509, 230397.	4.0	21
86	MoS ₂ supported on hydrogenated TiO ₂ heterostructure film as photocathode for photoelectrochemical hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31008-31019.	3.8	20
87	Chlorine-Promoted Nitrogen and Sulfur Co-Doped Biocarbon Catalyst for Electrochemical Carbon Dioxide Reduction. <i>ChemElectroChem</i> , 2020, 7, 320-327.	1.7	20
88	New Understanding of Selective Aerobic Oxidation of Ethylbenzene Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>ChemCatChem</i> , 2021, 13, 646-655.	1.8	20
89	Understanding the Catalytic Sites in Porous Hexagonal Boron Nitride for the Epoxidation of Styrene. <i>ACS Catalysis</i> , 2021, 11, 8872-8880.	5.5	20
90	Design of two kinds of branched TiO ₂ nano array photoanodes and their comparison of photoelectrochemical performances. <i>Electrochimica Acta</i> , 2017, 252, 368-373.	2.6	19

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91	Solution growth of peony-like copper hydroxyl-phosphate (Cu ₂ (OH)PO ₄) flowers on Cu foil and their photocatalytic activity under visible light. <i>Materials and Design</i> , 2016, 100, 30-36.	3.3	18
92	Unravelling the radical transition during the carbon-catalyzed oxidation of cyclohexane by in situ electron paramagnetic resonance in the liquid phase. <i>Catalysis Science and Technology</i> , 2017, 7, 4431-4436.	2.1	18
93	Unraveling the intrinsic enhancement of fluorine doping in the dual-doped magnetic carbon adsorbent for the environmental remediation. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 327-339.	5.0	18
94	Selective Catalytic Oxidation of Benzyl Alcohol to Benzaldehyde by Nitrates. <i>Frontiers in Chemistry</i> , 2020, 8, 151.	1.8	16
95	The effect of surface oxygenated groups of carbon nanotubes on liquid phase catalytic oxidation of cumene. <i>Catalysis Science and Technology</i> , 2016, 6, 2396-2402.	2.1	15
96	Dual Functional CuO Clusters for Enhanced Photocatalytic Activity and Stability of a Pt Cocatalyst in an Overall Water-Splitting Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 17340-17351.	3.2	15
97	PtRu Catalysts on Nitrogen-Doped Carbon Nanotubes with Conformal Hydrogenated TiO ₂ Shells for Methanol Oxidation. <i>ACS Applied Nano Materials</i> , 2022, 5, 3275-3288.	2.4	15
98	Bi-functional particles for integrated thermo-chemical processes: Catalysis and beyond. <i>Particuology</i> , 2021, 56, 10-32.	2.0	14
99	Superoxide Decay Pathways in Oxygen Reduction Reaction on Carbon-Based Catalysts Evidenced by Theoretical Calculations. <i>ChemSusChem</i> , 2019, 12, 1133-1138.	3.6	13
100	Co-N-C-Supported Platinum Catalyst: Synergistic Effect on the Aerobic Oxidation of Glycerol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 19062-19071.	3.2	12
101	High-purity hydrogen production by sorption-enhanced steam reforming of iso-octane over a Pd-promoted Ni-Ca-Al-O bi-functional catalyst. <i>Fuel</i> , 2021, 293, 120430.	3.4	11
102	Inhibitory effect of Zn ²⁺ on the chain-initiation process of cumene oxidation. <i>International Journal of Quantum Chemistry</i> , 2021, 121, e26780.	1.0	11
103	MnO ₂ nanoparticles supported on CNTs for cumene oxidation: Synergistic effect and kinetic modelling. <i>Chemical Engineering Journal</i> , 2022, 444, 136666.	6.6	11
104	Production of high-purity hydrogen from paper recycling black liquor via sorption enhanced steam reforming. <i>Green Energy and Environment</i> , 2021, 6, 771-779.	4.7	9
105	Confined Cobalt on Carbon Nanotubes in Solvent-free Aerobic Oxidation of Ethylbenzene: Enhanced Interfacial Charge Transfer. <i>ChemCatChem</i> , 2022, 14, .	1.8	7
106	Solvent-Free Production of ϵ -Caprolactone from Oxidation of Cyclohexanone Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 2037-2044.	1.8	6
107	Catalytic Synthesis of Lactones from Alkanes in the Presence of Aldehydes and Carbon Nanotubes. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 6713-6723.	3.2	4
108	Highly Enhanced Methanol Electrooxidation on Pt/N-CNT Decorated FeP ^{**} . <i>ChemElectroChem</i> , 2021, 8, 2442-2448.	1.7	3

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109	Radical Propagation Facilitating Aerobic Oxidation of Substituted Aromatics Promoted by Tert-Butyl Hydroperoxide. <i>ChemistrySelect</i> , 2021, 6, 6895-6903.	0.7	2
110	Configuration Sensitivity of Electrocatalytic Oxygen Reduction Reaction on Nitrogen-Doped Graphene. <i>Journal of Physical Chemistry Letters</i> , 2022, 13, 6187-6193.	2.1	1