

Yonghai Cao

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107
papers

5,550
citations

38
h-index

72
g-index

111
ext. papers

6,590
ext. citations

9
avg, IF

6.1
L-index

#	Paper	IF	Citations
107	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, 3257-61	16.4	589
106	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	3.4	248
105	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	3.9	244
104	Selective catalysis of the aerobic oxidation of cyclohexane in the liquid phase by carbon nanotubes. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 3978-82	16.4	204
103	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	17.1	187
102	Nitrogen-, phosphorous- and boron-doped carbon nanotubes as catalysts for the aerobic oxidation of cyclohexane. <i>Carbon</i> , 2013 , 57, 433-442	10.4	176
101	Carbocatalysis in Liquid-Phase Reactions. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 936-964	16.4	172
100	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	21.8	160
99	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	5.1	145
98	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	13	130
97	Revealing the enhanced catalytic activity of nitrogen-doped carbon nanotubes for oxidative dehydrogenation of propane. <i>Chemical Communications</i> , 2013 , 49, 8151-3	5.8	129
96	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	7.3	125
95	Kinetically Controlled Side-Wall Functionalization of Carbon Nanotubes by Nitric Acid Oxidation. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6758-6763	3.8	119
94	Selective Allylic Oxidation of Cyclohexene Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>ACS Catalysis</i> , 2014 , 4, 1617-1625	13.1	111
93	One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal. <i>Carbon</i> , 2016 , 109, 640-649	10.4	104
92	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	8.9	101
91	Electronic synergism of pyridinic- and graphitic-nitrogen on N-doped carbons for the oxygen reduction reaction. <i>Chemical Science</i> , 2019 , 10, 1589-1596	9.4	97

90	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	7.3	94
89	Efficient electrochemical reduction of CO ₂ into CO promoted by sulfur vacancies. <i>Nano Energy</i> , 2019 , 60, 43-51	17.1	90
88	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	5.1	84
87	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. <i>Chemical Engineering Journal</i> , 2014 , 240, 434-442	14.7	80
86	Aerobic Liquid-Phase Oxidation of Ethylbenzene to Acetophenone Catalyzed by Carbon Nanotubes. <i>ChemCatChem</i> , 2013 , 5, 1578-1586	5.2	80
85	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	5.1	69
84	Selective liquid phase oxidation of benzyl alcohol catalyzed by carbon nanotubes. <i>Chemical Engineering Journal</i> , 2012 , 204-206, 98-106	14.7	67
83	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	5.5	65
82	A bi-functional Co ₁ O ₁ /Al ₁₂ O ₃₃ catalyst for sorption-enhanced steam reforming of glycerol to high-purity hydrogen. <i>Chemical Engineering Journal</i> , 2016 , 286, 329-338	14.7	64
81	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	13.1	63
80	Selective Catalysis of the Aerobic Oxidation of Cyclohexane in the Liquid Phase by Carbon Nanotubes. <i>Angewandte Chemie</i> , 2011 , 123, 4064-4068	3.6	63
79	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	14.7	56
78	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	6.7	53
77	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	8.3	48
76	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. <i>Carbon</i> , 2017 , 115, 503-514	10.4	46
75	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	14.7	43
74	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	13	43
73	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	6.7	42

72	sp ² - and sp ³ -hybridized carbon materials as catalysts for aerobic oxidation of cyclohexane. <i>Catalysis Science and Technology</i> , 2013 , 3, 2654	5.5	41
71	Metal-free carbocatalysis for electrochemical oxygen reduction reaction: Activity origin and mechanism. <i>Journal of Energy Chemistry</i> , 2020 , 48, 308-321	12	40
70	The effect of edge carbon of carbon nanotubes on the electrocatalytic performance of oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2014 , 40, 5-8	5.1	39
69	Carbon nanotubes as catalyst for the aerobic oxidation of cumene to cumene hydroperoxide. <i>Applied Catalysis A: General</i> , 2014 , 478, 1-8	5.1	38
68	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, 9818-24	4.8	35
67	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	12	35
66	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	8.3	35
65	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	13	34
64	Tuning the Selectivity in the Aerobic Oxidation of Cumene Catalyzed by Nitrogen-Doped Carbon Nanotubes. <i>ChemCatChem</i> , 2014 , 6, 555-560	5.2	34
63	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	12	33
62	Electron-Rich Ruthenium on Nitrogen-Doped Carbons Promoting Levulinic Acid Hydrogenation to γ -Valerolactone: Effect of Metal-Support Interaction. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 16501-16510	8.3	32
61	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	8.3	32
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	6.7	32
59	Synergistic Effect of Nitrogen Dopants on Carbon Nanotubes on the Catalytic Selective Epoxidation of Styrene. <i>ACS Catalysis</i> , 2020 , 10, 129-137	13.1	32
58	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	13	31
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	6.7	31
56	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	8.3	30
55	Calcium cobaltate: a phase-change catalyst for stable hydrogen production from bio-glycerol. <i>Energy and Environmental Science</i> , 2018 , 11, 660-668	35.4	29

54	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	6.7	29
53	Catalytic wet air oxidation of phenol over carbon nanotubes: Synergistic effect of carboxyl groups and edge carbons. <i>Carbon</i> , 2018 , 133, 464-473	10.4	28
52	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	14.7	26
51	Solvent effect on the allylic oxidation of cyclohexene catalyzed by nitrogen doped carbon nanotubes. <i>Catalysis Communications</i> , 2017 , 88, 99-103	3.2	25
50	Aerobic oxidation of α -pinene catalyzed by carbon nanotubes. <i>Catalysis Science and Technology</i> , 2015 , 5, 3935-3944	5.5	25
49	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	6.7	25
48	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	2.5	24
47	A kinetics study on cumene oxidation catalyzed by carbon nanotubes: Effect of N-doping. <i>Chemical Engineering Science</i> , 2018 , 177, 391-398	4.4	24
46	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	6.7	23
45	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	13	23
44	Ni foams decorated with carbon nanotubes as catalytic stirrers for aerobic oxidation of cumene. <i>Chemical Engineering Journal</i> , 2016 , 306, 806-815	14.7	23
43	Controllable Preparation of Holey Graphene and Electrocatalytic Performance for Oxygen Reduction Reaction. <i>Electrochimica Acta</i> , 2017 , 228, 203-213	6.7	22
42	Competitive adsorption on single-atom catalysts: Mechanistic insights into the aerobic oxidation of alcohols over CoNC. <i>Journal of Catalysis</i> , 2019 , 377, 283-292	7.3	22
41	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	14.7	22
40	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	12	22
39	O ₂ and H ₂ O ₂ 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, 21950-9	3.6	21
38	Thermoelectric-photoelectric composite nanocables induced a larger efficiency in dye-sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 9362-9369	13	21
37	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	6.7	18

36	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	7.6	18
35	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	14.7	18
34	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	14.7	18
33	Oxygen Doping in Graphitic Carbon Nitride for Enhanced Photocatalytic Hydrogen Evolution. <i>ChemSusChem</i> , 2020 , 13, 5041-5049	8.3	17
32	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	4.3	17
31	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	14.7	16
30	Hydrogen Production from Sorption-Enhanced Steam Reforming of Phenol over a NiCoAlO Bifunctional Catalyst. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 7111-7120	8.3	16
29	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	8.3	15
28	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	6.7	14
27	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	5.5	14
26	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	8.1	13
25	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	8.3	12
24	Superoxide Decay Pathways in Oxygen Reduction Reaction on Carbon-Based Catalysts Evidenced by Theoretical Calculations. <i>ChemSusChem</i> , 2019 , 12, 1133-1138	8.3	12
23	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	6.7	11
22	Dual Functional CuO _{1-x} 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	8.3	11
21	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	9.3	10
20	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	5.5	10
19	New Understanding of Selective Aerobic Oxidation of Ethylbenzene Catalyzed by Nitrogen-doped Carbon Nanotubes. <i>ChemCatChem</i> , 2021 , 13, 646-655	5.2	10

18	Chlorine-Promoted Nitrogen and Sulfur Co-Doped Biocarbon Catalyst for Electrochemical Carbon Dioxide Reduction. <i>ChemElectroChem</i> , 2020 , 7, 320-327	4.3	9
17	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	5.5	8
16	Biomass-Derived Nitrogen-Doped Porous Carbons Activated by Magnesium Chloride as Ultrahigh-Performance Supercapacitors. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 21756-21767	3.9	7
15	Understanding the Catalytic Sites in Porous Hexagonal Boron Nitride for the Epoxidation of Styrene. <i>ACS Catalysis</i> , 2021 , 11, 8872-8880	13.1	7
14	Selective Catalytic Oxidation of Benzyl Alcohol to Benzaldehyde by Nitrates. <i>Frontiers in Chemistry</i> , 2020 , 8, 151	5	6
13	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	21.8	6
12	Bi-functional particles for integrated thermo-chemical processes: Catalysis and beyond. <i>Particuology</i> , 2021 , 56, 10-32	2.8	5
11	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	5.7	4
10	Co ^{II} -Supported Platinum Catalyst: Synergistic Effect on the Aerobic Oxidation of Glycerol. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 19062-19071	8.3	3
9	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	7.1	3
8	Inhibitory effect of Zn ²⁺ on the chain-initiation process of cumene oxidation. <i>International Journal of Quantum Chemistry</i> , 2021 , 121, e26780	2.1	3
7	Production of high-purity hydrogen from paper recycling black liquor via sorption enhanced steam reforming. <i>Green Energy and Environment</i> , 2020 , 6, 771-771	5.7	2
6	MnO ₂ nanoparticles supported on CNTs for cumene oxidation: Synergistic effect and kinetic modelling. <i>Chemical Engineering Journal</i> , 2022 , 444, 136666	14.7	2
5	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	2.9	1
4	Highly Enhanced Methanol Electrooxidation on Pt/Ni-CNT-Decorated FeP ^{**} . <i>ChemElectroChem</i> , 2021 , 8, 2442-2448	4.3	1
3	Radical Propagation Facilitating Aerobic Oxidation of Substituted Aromatics Promoted by Tert-Butyl Hydroperoxide. <i>ChemistrySelect</i> , 2021 , 6, 6895-6903	1.8	1
2	Modifying carbon nanotubes supported palladium nanoparticles via regulating the electronic metal-carbon interaction for phenol hydrogenation. <i>Chemical Engineering Journal</i> , 2021 , 131758	14.7	1
1	Essential analysis of cyclic voltammetry of methanol electrooxidation using the differential electrochemical mass spectrometry. <i>Journal of Power Sources</i> , 2021 , 509, 230397	8.9	1

