Yonghai Cao

List of Publications by Year in Descending Order

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	Solvent-Free Production of ε-Caprolactone from Oxidation of Cyclohexanone Catalyzed by Nitrogen-Doped Carbon Nanotubes. *Industrial & Engineering Chemistry Research*, **2022**, 61, 2037-2044	3.9	1
106	One-pot synthesis of Ru/Nb2O5@Nb2C ternary photocatalysts for water splitting by harnessing hydrothermal redox reactions. *Applied Catalysis B: Environmental*, **2022**, 303, 120910	21.8	6
105	MnO2 nanoparticles supported on CNTs for cumene oxidation: Synergistic effect and kinetic modelling. *Chemical Engineering Journal*, **2022**, 444, 136666	14.7	2
104	Highly Enhanced Methanol Electrooxidation on Pt/NiCNT-Decorated FeP**. *ChemElectroChem*, **2021**, 8, 2442-2448	4.3	1
103	High-purity hydrogen production by sorption-enhanced steam reforming of iso-octane over a Pd-promoted Ni-Ca-Al-O bi-functional catalyst. *Fuel*, **2021**, 293, 120430	7.1	3
102	Bi-functional particles for integrated thermo-chemical processes: Catalysis and beyond. *Particuology*, **2021**, 56, 10-32	2.8	5
101	Inhibitory effect of Zn2+ on the chain-initiation process of cumene oxidation. *International Journal of Quantum Chemistry*, **2021**, 121, e26780	2.1	3
100	Radical Propagation Facilitating Aerobic Oxidation of Substituted Aromatics Promoted by Tert-Butyl Hydroperoxide. *ChemistrySelect*, **2021**, 6, 6895-6903	1.8	1
99	CdS@Ni3S2 for efficient and stable photo-assisted electrochemical (P-EC) overall water splitting. *Chemical Engineering Journal*, **2021**, 405, 126231	14.7	18
98	New Understanding of Selective Aerobic Oxidation of Ethylbenzene Catalyzed by Nitrogen-doped Carbon Nanotubes. *ChemCatChem*, **2021**, 13, 646-655	5.2	10
97	Understanding the Catalytic Sites in Porous Hexagonal Boron Nitride for the Epoxidation of Styrene. *ACS Catalysis*, **2021**, 11, 8872-8880	13.1	7
96	Modifying carbon nanotubes supported palladium nanoparticles via regulating the electronic metalCarbon interaction for phenol hydrogenation. *Chemical Engineering Journal*, **2021**, 131758	14.7	1
95	Engineering highly active Ag/Nb2O5@Nb2CT (MXene) photocatalysts via steering charge kinetics strategy. *Chemical Engineering Journal*, **2021**, 421, 128766	14.7	18
94	Essential analysis of cyclic voltammetry of methanol electrooxidation using the differential electrochemical mass spectrometry. *Journal of Power Sources*, **2021**, 509, 230397	8.9	1
93	The zinc vacancy induced CdS/ZnS Z-scheme structure as a highly stable photocatalyst for hydrogen production. *Journal of Alloys and Compounds*, **2021**, 888, 161620	5.7	4
92	Trace amounts of Cu(OAc)2 boost the efficiency of cumene oxidation catalyzed by carbon nanotubes washed with HCl. *Catalysis Science and Technology*, **2020**, 10, 2523-2530	5.5	8
91	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. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 4537-4546	8.3	30

90	Metal-free carbocatalysis for electrochemical oxygen reduction reaction: Activity origin and mechanism. *Journal of Energy Chemistry*, **2020**, 48, 308-321	12	40
89	Intrinsic acid resistance and high removal performance from the incorporation of nickel nanoparticles into nitrogen doped tubular carbons for environmental remediation. *Journal of Colloid and Interface Science*, **2020**, 566, 46-59	9.3	10
88	Selective Catalytic Oxidation of Benzyl Alcohol to Benzaldehyde by Nitrates. *Frontiers in Chemistry*, **2020**, 8, 151	5	6
87	Synergistic Effect of Nitrogen Dopants on Carbon Nanotubes on the Catalytic Selective Epoxidation of Styrene. *ACS Catalysis*, **2020**, 10, 129-137	13.1	32
86	Bifunctional CdS@Co9S8/Ni3S2 catalyst for efficient electrocatalytic and photo-assisted electrocatalytic overall water splitting. *Journal of Materials Chemistry A*, **2020**, 8, 3083-3096	13	43
85	Chlorine-Promoted Nitrogen and Sulfur Co-Doped Biocarbon Catalyst for Electrochemical Carbon Dioxide Reduction. *ChemElectroChem*, **2020**, 7, 320-327	4.3	9
84	Production of high-purity hydrogen from paper recycling black liquor via sorption enhanced steam reforming. *Green Energy and Environment*, **2020**, 6, 771-771	5.7	2
83	Oxygen Doping in Graphitic Carbon Nitride for Enhanced Photocatalytic Hydrogen Evolution. *ChemSusChem*, **2020**, 13, 5041-5049	8.3	17
82	Biomass-Derived Nitrogen-Doped Porous Carbons Activated by Magnesium Chloride as Ultrahigh-Performance Supercapacitors. *Industrial & Engineering Chemistry Research*, **2020**, 59, 21756-21767	3.9	7
81	CoNC-Supported Platinum Catalyst: Synergistic Effect on the Aerobic Oxidation of Glycerol. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 19062-19071	8.3	3
80	Lignin derived multi-doped (N, S, Cl) carbon materials as excellent electrocatalyst for oxygen reduction reaction in proton exchange membrane fuel cells. *Journal of Energy Chemistry*, **2020**, 44, 106-114	12	35
79	Theoretical calculations and controllable synthesis of MoSe2/CdS-CdSe with highly active sites for photocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2020**, 383, 123133	14.7	16
78	Syngas production by dry reforming of the mixture of glycerol and ethanol with CaCO3. *Journal of Energy Chemistry*, **2020**, 43, 90-97	12	33
77	Hydrogen Production from Sorption-Enhanced Steam Reforming of Phenol over a NiCaAlO Bifunctional Catalyst. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 7111-7120	8.3	16
76	Electron-Rich Ruthenium on Nitrogen-Doped Carbons Promoting Levulinic Acid Hydrogenation to Valerolactone: Effect of MetalSupport Interaction. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16501-16510	8.3	32
75	Electronic synergism of pyridinic- and graphitic-nitrogen on N-doped carbons for the oxygen reduction reaction. *Chemical Science*, **2019**, 10, 1589-1596	9.4	97
74	Elucidating Interaction between Palladium and N-Doped Carbon Nanotubes: Effect of Electronic Property on Activity for Nitrobenzene Hydrogenation. *ACS Catalysis*, **2019**, 9, 2893-2901	13.1	63
73	Facile Synthesis of Cobalt and Nitrogen Coordinated Carbon Nanotube as a High-Performance Electrocatalyst for Oxygen Reduction Reaction in Both Acidic and Alkaline Media. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 10951-10961	8.3	12

72	Revealing active-site structure of porous nitrogen-defected carbon nitride for highly effective photocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2019**, 373, 687-699	14.7	43
71	Efficient electrochemical reduction of CO2 into CO promoted by sulfur vacancies. *Nano Energy*, **2019**, 60, 43-51	17.1	90
70	Competitive adsorption on single-atom catalysts: Mechanistic insights into the aerobic oxidation of alcohols over CoNC. *Journal of Catalysis*, **2019**, 377, 283-292	7.3	22
69	Preparation of CdS-CoSx photocatalysts and their photocatalytic and photoelectrochemical characteristics for hydrogen production. *International Journal of Hydrogen Energy*, **2019**, 44, 27795-27805	6.7	14
68	Manipulating photocatalytic pathway and activity of ternary Cu2O/(001)TiO2@Ti3C2Tx catalysts for H2 evolution: Effect of surface coverage. *International Journal of Hydrogen Energy*, **2019**, 44, 29975-29985	6.7	29
67	MoS2 supported on hydrogenated TiO2 heterostructure film as photocathode for photoelectrochemical hydrogen production. *International Journal of Hydrogen Energy*, **2019**, 44, 31008-31019	6.7	11
66	2H- and 1T- mixed phase few-layer MoS2 as a superior to Pt co-catalyst coated on TiO2 nanorod arrays for photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2019**, 241, 236-245	21.8	160
65	Co-production of high quality hydrogen and synthesis gas via sorption-enhanced steam reforming of glycerol coupled with methane reforming of carbonates. *Chemical Engineering Journal*, **2019**, 360, 47-53	14.7	22
64	Superoxide Decay Pathways in Oxygen Reduction Reaction on Carbon-Based Catalysts Evidenced by Theoretical Calculations. *ChemSusChem*, **2019**, 12, 1133-1138	8.3	12
63	Highly efficient and acid-corrosion resistant nitrogen doped magnetic carbon nanotubes for the hexavalent chromium removal with subsequent reutilization. *Chemical Engineering Journal*, **2019**, 361, 547-558	14.7	26
62	Mn3O4@C Nanoparticles Supported on Porous Carbon as Bifunctional Oxygen Electrodes and their Electrocatalytic Mechanism. *ChemElectroChem*, **2019**, 6, 359-368	4.3	17
61	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. *Journal of Energy Chemistry*, **2019**, 34, 33-42	12	22
60	ZnO/CdS/PbS nanotube arrays with multi-heterojunctions for efficient visible-light-driven photoelectrochemical hydrogen evolution. *Chemical Engineering Journal*, **2019**, 362, 658-666	14.7	56
59	Unraveling the intrinsic enhancement of fluorine doping in the dual-doped magnetic carbon adsorbent for the environmental remediation. *Journal of Colloid and Interface Science*, **2019**, 538, 327-339	8.3	15
58	Catalytic wet air oxidation of phenol over carbon nanotubes: Synergistic effect of carboxyl groups and edge carbons. *Carbon*, **2018**, 133, 464-473	10.4	28
57	Co9S8-porous carbon spheres as bifunctional electrocatalysts with high activity and stability for oxygen reduction and evolution reactions. *Electrochimica Acta*, **2018**, 265, 32-40	6.7	42
56	Calcium cobaltate: a phase-change catalyst for stable hydrogen production from bio-glycerol. *Energy and Environmental Science*, **2018**, 11, 660-668	35.4	29
55	Design of cocatalyst loading position for photocatalytic water splitting into hydrogen in electrolyte solutions. *International Journal of Hydrogen Energy*, **2018**, 43, 5551-5560	6.7	23

54	Novel Highly Active Anatase/Rutile TiO2 Photocatalyst with Hydrogenated Heterophase Interface Structures for Photoelectrochemical Water Splitting into Hydrogen. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 10823-10832	8.3	48
53	A hydrothermal etching route to synthesis of 2D MXene (Ti3C2, Nb2C): Enhanced exfoliation and improved adsorption performance. *Ceramics International*, **2018**, 44, 18886-18893	5.1	145
52	High efficiency photocatalytic hydrogen production over ternary Cu/TiO2@Ti3C2Tx enabled by low-work-function 2D titanium carbide. *Nano Energy*, **2018**, 53, 97-107	17.1	187
51	Revealing the Relationship between Photocatalytic Properties and Structure Characteristics of TiO Reduced by Hydrogen and Carbon Monoxide Treatment. *ChemSusChem*, **2018**, 11, 2766-2775	8.3	32
50	A kinetics study on cumene oxidation catalyzed by carbon nanotubes: Effect of N-doping. *Chemical Engineering Science*, **2018**, 177, 391-398	4.4	24
49	Nickel Nanoparticles Encapsulated in Nitrogen-Doped Carbon Nanotubes as Excellent Bifunctional Oxygen Electrode for Fuel Cell and Metal–Air Battery. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 15108-15118	8.3	35
48	Dual Functional CuO1– Clusters for Enhanced Photocatalytic Activity and Stability of a Pt Cocatalyst in an Overall Water-Splitting Reaction. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 17340-17351	8.3	11
47	Hexavalent chromium removal over magnetic carbon nanoadsorbents: synergistic effect of fluorine and nitrogen co-doping. *Journal of Materials Chemistry A*, **2018**, 6, 13062-13074	13	130
46	Controllable Preparation of Holey Graphene and Electrocatalytic Performance for Oxygen Reduction Reaction. *Electrochimica Acta*, **2017**, 228, 203-213	6.7	22
45	Electron transfer dependent catalysis of Pt on N-doped carbon nanotubes: Effects of synthesis method on metal-support interaction. *Journal of Catalysis*, **2017**, 348, 100-109	7.3	94
44	Poly(vinylidene fluoride) derived fluorine-doped magnetic carbon nanoadsorbents for enhanced chromium removal. *Carbon*, **2017**, 115, 503-514	10.4	46
43	Effective dismantling of waste printed circuit board assembly with methanesulfonic acid containing hydrogen peroxide. *Environmental Progress and Sustainable Energy*, **2017**, 36, 873-878	2.5	24
42	Unravelling the radical transition during the carbon-catalyzed oxidation of cyclohexane by in situ electron paramagnetic resonance in the liquid phase. *Catalysis Science and Technology*, **2017**, 7, 4431-4436	5.5	14
41	Magnetic Nanocarbon Adsorbents with Enhanced Hexavalent Chromium Removal: Morphology Dependence of Fibrillar vs Particulate Structures. *Industrial & Engineering Chemistry Research*, **2017**, 56, 10689-10701	3.9	244
40	Design of two kinds of branched TiO2 nano array photoanodes and their comparison of photoelectrochemical performances. *Electrochimica Acta*, **2017**, 252, 368-373	6.7	18
39	Effect of the surface roughness of copper substrate on three-dimensional tin electrode for electrochemical reduction of CO2 into HCOOH. *Journal of CO2 Utilization*, **2017**, 21, 219-223	7.6	18
38	In-situ photo-deposition CuO1– cluster on TiO2 for enhanced photocatalytic H2-production activity. *International Journal of Hydrogen Energy*, **2017**, 42, 19942-19950	6.7	31
37	Solvent effect on the allylic oxidation of cyclohexene catalyzed by nitrogen doped carbon nanotubes. *Catalysis Communications*, **2017**, 88, 99-103	3.2	25

36	Carbocatalysis in Liquid-Phase Reactions. *Angewandte Chemie - International Edition*, **2017**, 56, 936-964	16.4	172
35	Design and preparation of CdS/H-3D-TiO2/Pt-wire photocatalysis system with enhanced visible-light driven H2 evolution. *International Journal of Hydrogen Energy*, **2017**, 42, 928-937	6.7	32
34	One-pot melamine derived nitrogen doped magnetic carbon nanoadsorbents with enhanced chromium removal. *Carbon*, **2016**, 109, 640-649	10.4	104
33	Correlation between the in-plain substrate strain and electrocatalytic activity of strontium ruthenate thin films in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 10794-10800	13	23
32	Carbon composite spun fibers with in situ formed multicomponent nanoparticles for a lithium-ion battery anode with enhanced performance. *Journal of Materials Chemistry A*, **2016**, 4, 9881-9889	13	34
31	A facile fabrication of hierarchical Ag nanoparticles-decorated N-TiO2 with enhanced photocatalytic hydrogen production under solar light. *International Journal of Hydrogen Energy*, **2016**, 41, 3446-3455	6.7	53
30	A bi-functional CoCaOCa 12 Al 14 O 33 catalyst for sorption-enhanced steam reforming of glycerol to high-purity hydrogen. *Chemical Engineering Journal*, **2016**, 286, 329-338	14.7	64
29	Synergistic carbon nanotube aerogel Pt nanocomposites toward enhanced energy conversion in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 3238-3244	13	31
28	The effect of surface oxygenated groups of carbon nanotubes on liquid phase catalytic oxidation of cumene. *Catalysis Science and Technology*, **2016**, 6, 2396-2402	5.5	10
27	Identifying active sites of CoNC/CNT from pyrolysis of molecularly defined complexes for oxidative esterification and hydrogenation reactions. *Catalysis Science and Technology*, **2016**, 6, 1007-1015	5.5	65
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. *Materials and Design*, **2016**, 100, 30-36	8.1	13
25	Thermoelectric photoelectric composite nanocables induced a larger efficiency in dye-sensitized solar cells. *Journal of Materials Chemistry A*, **2016**, 4, 9362-9369	13	21
24	Branched hydrogenated TiO 2 nanorod arrays for improving photocatalytic hydrogen evolution performance under simulated solar light. *International Journal of Hydrogen Energy*, **2016**, 41, 20192-20197	6.7	25
23	Ni foams decorated with carbon nanotubes as catalytic stirrers for aerobic oxidation of cumene. *Chemical Engineering Journal*, **2016**, 306, 806-815	14.7	23
22	O2 and H2O2 transformation steps for the oxygen reduction reaction catalyzed by graphitic nitrogen-doped carbon nanotubes in acidic electrolyte from first principles calculations. *Physical Chemistry Chemical Physics*, **2015**, 17, 21950-9	3.6	21
21	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. *Journal of Catalysis*, **2015**, 325, 136-144	7.3	125
20	Nitrogen doped carbon nanotubes with encapsulated ferric carbide as excellent electrocatalyst for oxygen reduction reaction in acid and alkaline media. *Journal of Power Sources*, **2015**, 286, 495-503	8.9	101
19	Aerobic oxidation of pinene catalyzed by carbon nanotubes. *Catalysis Science and Technology*, **2015**, 5, 3935-3944	5.5	25

18	Tuning the Selectivity in the Aerobic Oxidation of Cumene Catalyzed by Nitrogen-Doped Carbon Nanotubes. *ChemCatChem*, **2014**, 6, 555-560	5.2	34
17	The effect of edge carbon of carbon nanotubes on the electrocatalytic performance of oxygen reduction reaction. *Electrochemistry Communications*, **2014**, 40, 5-8	5.1	39
16	Aerobic oxidation of benzyl alcohol to benzaldehyde catalyzed by carbon nanotubes without any promoter. *Chemical Engineering Journal*, **2014**, 240, 434-442	14.7	80
15	High performance hydrogenated TiO2 nanorod arrays as a photoelectrochemical sensor for organic compounds under visible light. *Electrochemistry Communications*, **2014**, 40, 24-27	5.1	69
14	Selective Allylic Oxidation of Cyclohexene Catalyzed by Nitrogen-Doped Carbon Nanotubes. *ACS Catalysis*, **2014**, 4, 1617-1625	13.1	111
13	Carbon nanotubes as catalyst for the aerobic oxidation of cumene to cumene hydroperoxide. *Applied Catalysis A: General*, **2014**, 478, 1-8	5.1	38
12	Revealing the enhanced catalytic activity of nitrogen-doped carbon nanotubes for oxidative dehydrogenation of propane. *Chemical Communications*, **2013**, 49, 8151-3	5.8	129
11	sp2- and sp3-hybridized carbon materials as catalysts for aerobic oxidation of cyclohexane. *Catalysis Science and Technology*, **2013**, 3, 2654	5.5	41
10	Aerobic Liquid-Phase Oxidation of Ethylbenzene to Acetophenone Catalyzed by Carbon Nanotubes. *ChemCatChem*, **2013**, 5, 1578-1586	5.2	80
9	Nitrogen-, phosphorous- and boron-doped carbon nanotubes as catalysts for the aerobic oxidation of cyclohexane. *Carbon*, **2013**, 57, 433-442	10.4	176
8	Mechanistic insight into the catalytic oxidation of cyclohexane over carbon nanotubes: kinetic and in situ spectroscopic evidence. *Chemistry - A European Journal*, **2013**, 19, 9818-24	4.8	35
7	Selective liquid phase oxidation of benzyl alcohol catalyzed by carbon nanotubes. *Chemical Engineering Journal*, **2012**, 204-206, 98-106	14.7	67
6	Selective Catalysis of the Aerobic Oxidation of Cyclohexane in the Liquid Phase by Carbon Nanotubes. *Angewandte Chemie*, **2011**, 123, 4064-4068	3.6	63
5	Phosphorus-doped graphite layers with high electrocatalytic activity for the O2 reduction in an alkaline medium. *Angewandte Chemie - International Edition*, **2011**, 50, 3257-61	16.4	589
4	Selective catalysis of the aerobic oxidation of cyclohexane in the liquid phase by carbon nanotubes. *Angewandte Chemie - International Edition*, **2011**, 50, 3978-82	16.4	204
3	Preparation of cuprous oxides with different sizes and their behaviors of adsorption, visible-light driven photocatalysis and photocorrosion. *Solid State Sciences*, **2009**, 11, 129-138	3.4	248
2	Kinetically Controlled Side-Wall Functionalization of Carbon Nanotubes by Nitric Acid Oxidation. *Journal of Physical Chemistry C*, **2008**, 112, 6758-6763	3.8	119
1	Facile preparation of RuO2/CNT catalyst by a homogenous oxidation precipitation method and its catalytic performance. *Applied Catalysis A: General*, **2007**, 321, 190-197	5.1	84