

Wei Qi

List of Publications by Year in descending order

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92
papers

3,946
citations

109321

35
h-index

133252

59
g-index

100
all docs

100
docs citations

100
times ranked

4075
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidative Dehydrogenation on Nanocarbon: Identification and Quantification of Active Sites by Chemical Titration. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 14224-14228.	13.8	246
2	Onionlike Hybrid Assemblies Based on Surfactant-Encapsulated Polyoxometalates. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 1300-1303.	13.8	234
3	Metal-Free Carbon Catalysts for Oxidative Dehydrogenation Reactions. <i>ACS Catalysis</i> , 2014, 4, 3212-3218.	11.2	172
4	Polyoxometalate/polymer hybrid materials: fabrication and properties. <i>Polymer International</i> , 2009, 58, 1217-1225.	3.1	169
5	Covalently functionalized carbon nanotube supported Pd nanoparticles for catalytic reduction of 4-nitrophenol. <i>Nanoscale</i> , 2014, 6, 6609-6616.	5.6	146
6	Highly Selective Hydrogen Peroxide Electrosynthesis on Carbon: In Situ Interface Engineering with Surfactants. <i>Chem</i> , 2020, 6, 1443-1458.	11.7	141
7	Nitrogen-doped onion-like carbon: a novel and efficient metal-free catalyst for epoxidation reaction. <i>Journal of Materials Chemistry A</i> , 2014, 2, 12475-12483.	10.3	123
8	Preparation of MOF Film/Aerogel Composite Catalysts via Substrate-Seed Secondary Growth for the Oxygen Evolution Reaction and CO ₂ Cycloaddition. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 701-705.	13.8	107
9	Synthesis and photo-catalytic activity of porous g-C ₃ N ₄ : Promotion effect of nitrogen vacancy in H ₂ evolution and pollutant degradation reactions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 16315-16326.	7.1	105
10	Surfactant-Encapsulated Polyoxometalates as Immobilized Supramolecular Catalysts for Highly Efficient and Selective Oxidation Reactions. <i>Chemistry - A European Journal</i> , 2010, 16, 1068-1078.	3.3	103
11	Stable Photochromism and Controllable Reduction Properties of Surfactant-Encapsulated Polyoxometalate/Silica Hybrid Films. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8257-8263.	2.6	98
12	Highly Efficient Electroreforming of 5-Hydroxymethylfurfural on Vertically Oriented Nickel Nanosheet/Carbon Hybrid Catalysts: Structure-Function Relationships. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 14528-14535.	13.8	98
13	Enhanced photocatalytic activity of Bi ₂ O ₃ /Cl ₂ nano-sheets via surface modification of carbon nanotubes as electron carriers. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 1-10.	9.4	90
14	Oxidative Dehydrogenation on Nanocarbon: Insights into the Reaction Mechanism and Kinetics via in Situ Experimental Methods. <i>Accounts of Chemical Research</i> , 2018, 51, 640-648.	15.6	87
15	g-C ₃ N ₄ nano-fragments as highly efficient hydrogen evolution photocatalysts: Boosting effect of nitrogen vacancy. <i>Applied Catalysis A: General</i> , 2020, 599, 117618.	4.3	86
16	Oxygen reduction to hydrogen peroxide on oxidized nanocarbon: Identification and quantification of active sites. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 376-383.	9.4	78
17	Oxidative Dehydrogenation on Nanocarbon: Intrinsic Catalytic Activity and Structure-Function Relationships. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 13682-13685.	13.8	76
18	Biomolecule-derived N/S co-doped CNT-graphene hybrids exhibiting excellent electrochemical activities. <i>Journal of Power Sources</i> , 2019, 413, 408-417.	7.8	72

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19	Fabrication of MOF Thin Films at Miscible Liquid-Liquid Interface by Spray Method. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 25960-25966.	8.0	64
20	Surface chemistry of nanocarbon: Characterization strategies from the viewpoint of catalysis and energy conversion. <i>Carbon</i> , 2019, 143, 915-936.	10.3	61
21	Molybdenum Carbide Modified Nanocarbon Catalysts for Alkane Dehydrogenation Reactions. <i>ACS Catalysis</i> , 2017, 7, 5820-5827.	11.2	55
22	Supramolecular assembly of chiral polyoxometalate complexes for asymmetric catalytic oxidation of thioethers. <i>Journal of Materials Chemistry</i> , 2012, 22, 9181.	6.7	49
23	Oxidative Dehydrogenation on Nanocarbon: Revealing the Catalytic Mechanism using Model Catalysts. <i>ACS Catalysis</i> , 2017, 7, 1424-1427.	11.2	48
24	Controllable fabrication of nitrogen-doped porous nanocarbons for high-performance supercapacitors via supramolecular modulation strategy. <i>Journal of Energy Chemistry</i> , 2020, 49, 348-357.	12.9	48
25	Electrochemical oxidation of 5-hydroxymethylfurfural on ternary metal-organic framework nanoarrays: enhancement from electronic structure modulation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14270-14275.	10.3	48
26	Two-dimensional MOF-derived nanoporous Cu/Cu ₂ O networks as catalytic membrane reactor for the continuous reduction of p-nitrophenol. <i>Journal of Membrane Science</i> , 2019, 582, 30-36.	8.2	45
27	Methanol conversion on borocarbonitride catalysts: Identification and quantification of active sites. <i>Science Advances</i> , 2020, 6, eaba5778.	10.3	45
28	Construction of 2D/2D layered g-C ₃ N ₄ /Bi ₁₂ O ₁₇ Cl ₂ hybrid material with matched energy band structure and its improved photocatalytic performance. <i>RSC Advances</i> , 2018, 8, 24500-24508.	3.6	43
29	The improvement of photocatalytic performance for hydrogen evolution over mesoporous g-C ₃ N ₄ modified with nitrogen defects. <i>Sustainable Energy and Fuels</i> , 2020, 4, 5179-5187.	4.9	43
30	Surfactant-free hydrothermal synthesis of sub-10 nm Fe ₃ O ₄ -polymer porous composites with high catalytic activity for reduction of nitroarenes. <i>Chemical Communications</i> , 2013, 49, 10088.	4.1	42
31	Self-Assembled Multibilayers of Europium Alkanoates: Structure, Photophysics, and Mesomorphic Behavior. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21669-21676.	2.6	40
32	Incorporation of Polyoxometalates Into Polystyrene Latex by Supramolecular Encapsulation and Miniemulsion Polymerization. <i>Macromolecular Rapid Communications</i> , 2008, 29, 431-436.	3.9	40
33	An Electrochemical Sensor for H ₂ O ₂ Based on Au Nanoparticles Embedded in UiO-66 Metal-Organic Framework Films. <i>ACS Applied Nano Materials</i> , 2021, 4, 6103-6110.	5.0	39
34	Oxygen breaks into carbon nanotubes and abstracts hydrogen from propane. <i>Carbon</i> , 2016, 96, 631-640.	10.3	38
35	Fabrication of N, S co-doped graphene aerogel for high-performance supercapacitors: π -conjugated planar molecules as efficient dopants and pillared agents. <i>Applied Surface Science</i> , 2020, 529, 147022.	6.1	38
36	Oxidative dehydrogenation on nanocarbon: Effect of heteroatom doping. <i>Applied Catalysis B: Environmental</i> , 2019, 258, 117982.	20.2	37

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37	Nanoscale Hybrid Amorphous/Graphitic Carbon as Key Towards Next-Generation Carbon-Based Oxidative Dehydrogenation Catalysts. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5898-5906.	13.8	37
38	Site-directed reduction engineering within bimetal-organic frameworks for efficient size-selective catalysis. <i>Matter</i> , 2021, 4, 2919-2935.	10.0	36
39	Oxidative dehydrogenation of ethylbenzene on nanocarbon: Kinetics and reaction mechanism. <i>Journal of Catalysis</i> , 2018, 368, 1-7.	6.2	31
40	2D layered MoS ₂ loaded on Bi ₂ O ₃ /Cl ₂ nanosheets: An effective visible-light photocatalyst. <i>Ceramics International</i> , 2020, 46, 7438-7445.	4.8	30
41	Copper oxide hierarchical morphology derived from MOF precursors for enhancing ethanol vapor sensing performance. <i>Journal of Materials Chemistry C</i> , 2020, 8, 9671-9677.	5.5	29
42	One-step preparation of novel K ⁺ and cyano-group co-doped crystalline polymeric carbon nitride with highly efficient H ₂ evolution. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 601, 125023.	4.7	28
43	Covalent Dispersion of Surfactant-Encapsulated Polyoxometalates and In Situ Incorporation of Metal Nanoparticles in Silica Spheres. <i>Langmuir</i> , 2010, 26, 4437-4442.	3.5	24
44	Methanol oxidative dehydrogenation and dehydration on carbon nanotubes: active sites and basic reaction kinetics. <i>Catalysis Science and Technology</i> , 2020, 10, 4952-4959.	4.1	24
45	In Situ Electrostatic Modulation of Path Selectivity for the Oxygen Reduction Reaction on Fe-N Doped Carbon Catalyst. <i>Chemistry of Materials</i> , 2017, 29, 4649-4653.	6.7	23
46	Water-enhanced selective hydrogenation of cinnamaldehyde to cinnamyl alcohol on RuSnB/CeO ₂ catalysts. <i>Applied Catalysis A: General</i> , 2019, 582, 117098.	4.3	23
47	Fabrication of Polydopamine Modified Carbon Nanotube Hybrids and their Catalytic Activity in Ethylbenzene Dehydrogenation. <i>ChemCatChem</i> , 2019, 11, 2073-2078.	3.7	22
48	CoNi-based metal-organic framework nanoarrays supported on carbon cloth as bifunctional electrocatalysts for efficient water-splitting. <i>New Journal of Chemistry</i> , 2020, 44, 1694-1698.	2.8	21
49	Efficient Non-Precious Metal Catalyst for Propane Dehydrogenation: Atomically Dispersed Cobalt-Nitrogen Compounds on Carbon Nanotubes. <i>ChemCatChem</i> , 2021, 13, 3067-3073.	3.7	21
50	Noncovalent functionalization of multi-walled carbon nanotubes as metal-free catalysts for the reduction of nitrobenzene. <i>Catalysis Science and Technology</i> , 2014, 4, 1730-1733.	4.1	20
51	Oxygen assisted butanol conversion on bifunctional carbon nanotube catalysts: Activity of oxygen functionalities. <i>Carbon</i> , 2020, 170, 580-588.	10.3	20
52	Heteropoly Acid/Carbon Nanotube Hybrid Materials as Efficient Solid-Acid Catalysts. <i>ChemCatChem</i> , 2014, 6, 2613-2620.	3.7	19
53	Carbon nitride modified nanocarbon materials as efficient non-metallic catalysts for alkane dehydrogenation. <i>Catalysis Today</i> , 2018, 301, 48-54.	4.4	19
54	Preparation of hierarchical trimetallic coordination polymer film as efficient electrocatalyst for oxygen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 9343-9346.	4.1	19

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55	Fabrication of mesoporous MOF nanosheets via surfactant-template method for C-S coupling reactions. <i>Microporous and Mesoporous Materials</i> , 2020, 303, 110254.	4.4	19
56	Phenol-enriched hydroxy depolymerized lignin by microwave alkali catalysis to prepare high-adhesive biomass composites. <i>Polymer Engineering and Science</i> , 2021, 61, 1463-1475.	3.1	19
57	Highly Efficient Electro-reforming of 5-Hydroxymethylfurfural on Vertically Oriented Nickel Nanosheet/Carbon Hybrid Catalysts: Structure-Function Relationships. <i>Angewandte Chemie</i> , 2021, 133, 14649-14656.	2.0	18
58	Controllable Fabrication of PdAu Ternary Hollow Shells: Synergistic Acceleration of H ₂ -Sensing Speed via Morphology Regulation and Electronic Structure Modulation. <i>Small</i> , 2022, 18, e2106874.	10.0	17
59	Highly hydrophilic covalent organic frameworks as efficient and reusable photocatalysts for oxidative coupling of amines in aqueous solution. <i>Catalysis Science and Technology</i> , 2022, 12, 2837-2845.	4.1	16
60	A generalized approach to adjust the catalytic activity of borocarbonitride for alkane oxidative dehydrogenation reactions. <i>Journal of Catalysis</i> , 2022, 405, 105-115.	6.2	15
61	Carbon nanotubes modified by multi-heteroatoms polymer for oxidative dehydrogenation of propane: Improvement of propene selectivity and oxidation resistance. <i>Carbon</i> , 2022, 189, 199-209.	10.3	15
62	Heteropoly Acid/Nitrogen Functionalized Onion-like Carbon Hybrid Catalyst for Ester Hydrolysis Reactions. <i>Chemistry - an Asian Journal</i> , 2016, 11, 491-497.	3.3	14
63	Ru/FeO _x catalyst performance design: Highly dispersed Ru species for selective carbon dioxide hydrogenation. <i>Chinese Journal of Catalysis</i> , 2018, 39, 157-166.	14.0	14
64	Highly efficient electroreduction of oxygen to hydrogen peroxide on carbon catalyst via electrode-electrolyte interface engineering. <i>Chemical Engineering Journal</i> , 2022, 444, 136665.	12.7	13
65	A novel polymerizable pigment based on surfactant-encapsulated polyoxometalates and their application in polymer coloration. <i>Dyes and Pigments</i> , 2008, 79, 105-110.	3.7	12
66	Oxidative dehydrogenation on nanocarbon: Polydopamine hollow nanospheres as novel highly efficient catalysts. <i>FlatChem</i> , 2021, 25, 100220.	5.6	11
67	Synthesis strategies towards amorphous porous carbons with selective oxygen functionalization for the application as reference material. <i>Carbon</i> , 2021, 171, 658-670.	10.3	11
68	Pseudomorphic Replacement in the Transformation between Metal-Organic Frameworks toward Three-Dimensional Hierarchical Nanostructures. <i>Chemistry of Materials</i> , 2022, 34, 5356-5365.	6.7	11
69	AgI Nanoparticles Evenly Dispersed on 2D Porous Bi ₅ O ₇ I Sheets: Simple Synthesis and Excellent Photocatalytic Performance. <i>ChemistrySelect</i> , 2017, 2, 8535-8540.	1.5	10
70	Preparation of carbon microspheres from lignin-urea-formaldehyde resin for application in high-performance supercapacitor. <i>Wood Science and Technology</i> , 2022, 56, 367-387.	3.2	10
71	Hydration of phenylacetylene on sulfonated carbon materials: active site and intrinsic catalytic activity. <i>RSC Advances</i> , 2018, 8, 38150-38156.	3.6	9
72	Oxidative Dehydrogenation on Nanocarbon: Revealing the Reaction Mechanism via In Situ Experimental Strategies. <i>ChemCatChem</i> , 2019, 11, 397-400.	3.7	9

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73	Oxidative dehydrogenation of ethyl lactate over nanocarbon catalysts: Effect of oxygen functionalities and defects. <i>Catalysis Today</i> , 2020, 347, 96-101.	4.4	9
74	Methodology for the identification of carbonyl absorption maxima of carbon surface oxides in DRIFT spectra. <i>Carbon Trends</i> , 2021, 3, 100020.	3.0	9
75	Primary amine coupling on nanocarbon catalysts: Reaction mechanism and kinetics via fluorescence probe analysis. <i>Green Energy and Environment</i> , 2020, 5, 453-460.	8.7	8
76	Preparation of phosphorus-doped Mn _x Cd _{1-x} S with boosted photocatalytic hydrogen evolution from pure water. <i>Sustainable Energy and Fuels</i> , 2021, 5, 6460-6469.	4.9	8
77	Fabrication of transparent and luminescent CdTe/TiO ₂ hybrid film with enhanced photovoltaic property. <i>Materials Letters</i> , 2013, 107, 60-63.	2.6	7
78	Conjugated polymers with defined chemical structure as model carbon catalysts for nitro reduction. <i>RSC Advances</i> , 2016, 6, 99570-99576.	3.6	7
79	Oxygen Electrocatalysis at Mn ^{III} -O _x /C Hybrid Heterojunction: An Electronic Synergy or Cooperative Catalysis?. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 706-713.	8.0	7
80	Dehydration of n-butanol on phosphate-modified carbon nanotubes: active site and intrinsic catalytic activity. <i>Catalysis Science and Technology</i> , 2021, 11, 4500-4508.	4.1	7
81	Oxygen-Functionalized Boron Nitride for the Oxidative Dehydrogenation of Propane – The Case for Supported Liquid Phase Catalysis. <i>ChemCatChem</i> , 2022, 14, .	3.7	7
82	Construction of hierarchically porous metal-organic frameworks via vapor atmosphere etching. <i>Science China Materials</i> , 2022, 65, 3062-3068.	6.3	7
83	Preparation of MOF Film/Aerogel Composite Catalysts via Substrate-Seedling Secondary-Growth for the Oxygen Evolution Reaction and CO ₂ Cycloaddition. <i>Angewandte Chemie</i> , 2021, 133, 711-715.	2.0	6
84	Enhanced electrochemical performance of MnO ₂ nanoparticles: graphene aerogels as conductive substrates and capacitance contributors. <i>Dalton Transactions</i> , 2021, 50, 8776-8784.	3.3	6
85	Encapsulation of metal oxide nanoparticles inside metal-organic frameworks via surfactant-assisted nanoconfined space. <i>Nanotechnology</i> , 2020, 31, 255604.	2.6	5
86	Nitrogen-Doped Graphene Monolith Catalysts for Oxidative Dehydrogenation of Propane. <i>Frontiers in Chemistry</i> , 2021, 9, 759936.	3.6	5
87	Nanoskaliger hybrider amorph/graphitischer Kohlenstoff als Schlüssel zur nächsten Generation von kohlenstoffbasierten Katalysatoren für oxidative Dehydrierungen. <i>Angewandte Chemie</i> , 2021, 133, 5962-5971.	2.0	3
88	The High-Temperature Acidity Paradox of Oxidized Carbon: An in-situ DRIFTS Study. <i>ChemCatChem</i> , 0, , .	3.7	3
89	Synergetic modulation of graphene oxide and metal oxide particles for exploring integrated capacitance of milk colloid-derived carbon. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 608, 125599.	4.7	2
90	Electrochemically Assisted Cycloaddition of Carbon Dioxide to Styrene Oxide on Copper/carbon Hybrid Electrodes: Active Species and Reaction Mechanism. <i>Chemistry - A European Journal</i> , 2022, , .	3.3	2

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91	Preparation and gas permeation of supported γ -Al ₂ O ₃ membranes used as substrate layer for microporous membranes. Journal Wuhan University of Technology, Materials Science Edition, 2005, 20, 27-30.	1.0	1
92	Synthesis of amorphous FeNiCo trimetallic hybrid electrode from ZIF precursors for efficient oxygen evolution reaction. Nanotechnology, 2022, 33, 035403.	2.6	1