Yi Wang

List of Publications by Year in Descending Order

51 papers	**2,543** citations	**24** h-index	**50** g-index
53 ext. papers	**3,245** ext. citations	**7** avg, IF	**5.33** L-index

#	Paper	IF	Citations
51	Cobalt with porous carbon architecture: Towards of 4-nitrophenol degradation and reduction. *Separation and Purification Technology*, **2022**, 288, 120595	8.3	3
50	Steam pretreatment-mediated catalytic activity modulation for ammonia borane hydrolysis over ruthenium nanoclusters on nitrogen/oxygen-rich carbon nanotubes. *Applied Surface Science*, **2022**, 579, 152158	6.7	13
49	Ultrafast, dry microwave-assisted surface property modulations to boost carbon stabilized Ru nanocatalyst for catalytic hydrogen evolution. *Fuel*, **2022**, 309, 122203	7.1	16
48	Low-temperature control over deposition of ultrafine Pd nanoparticles on porous carbon nanosheets for highly efficient dehydrogenation of ammonia borane. *Journal of Alloys and Compounds*, **2022**, 165076	5.7	0
47	Defect-dominated carbon deposited Pd nanoparticles enhanced catalytic performance of formic acid dehydrogenation. *Applied Surface Science*, **2022**, 153590	6.7	0
46	Carbon-nanosheet-driven spontaneous deposition of Au nanoparticles for efficient electrochemical utilizations toward H_2O_2 generation and detection. *Chemical Engineering Journal*, **2022**, 445, 136586	14.7	2
45	The simplest and ultrafast microwave-mediated solid-state construction of cobalt oxide/carbon hybrid as an efficient peroxymonosulfate activator for ciprofloxacin degradation. *Separation and Purification Technology*, **2022**, 121346	8.3	0
44	Universal low-temperature oxidative thermal redispersion strategy for green and sustainable fabrication of oxygen-rich carbons anchored metal nanoparticles for hydrogen evolution reactions. *Chemical Engineering Journal*, **2021**, 433, 133648	14.7	17
43	Alkaline ultrasonic irradiation-mediated boosted H production over O/N-rich porous carbon anchored Ru nanoclusters.. *Journal of Colloid and Interface Science*, **2021**, 612, 57-65	9.3	12
42	Catalytic Hydrolysis of Sodium Borohydride for Hydrogen Production Using Magnetic Recyclable $CoFe_2O_4$-Modified Transition-Metal Nanoparticles. *ACS Applied Nano Materials*, **2021**, 4, 11312-11320	5.6	3
41	Integrated quantitative susceptibility and R * mapping for evaluation of liver fibrosis: An ex vivo feasibility study. *NMR in Biomedicine*, **2021**, 34, e4412	4.4	2
40	Carbon nanopore and anchoring site-assisted general construction of encapsulated metal (Rh, Ru, Ir) nanoclusters for highly efficient hydrogen evolution in pH-universal electrolytes and natural seawater. *Green Chemistry*, **2021**, 23, 4551-4559	10	14
39	Sustainable one-pot construction of oxygen-rich nitrogen-doped carbon nanosheets stabilized ultrafine Rh nanoparticles for efficient ammonia borane hydrolysis. *Journal of Colloid and Interface Science*, **2021**, 594, 131-140	9.3	28
38	Air-engaged fabrication of nitrogen-doped carbon skeleton as an excellent platform for ultrafine well-dispersed RuNi alloy nanoparticles toward efficient hydrolysis of ammonia borane. *Fuel*, **2021**, 297, 120750	7.1	28
37	Facile, general and environmental-friendly fabrication of O/N-codoped porous carbon as a universal matrix for efficient hydrogen evolution electrocatalysts. *Chemical Engineering Journal*, **2021**, 420, 130483	14.7	17
36	Surface property and spatial confinement engineering for achieving Ru nanoclusters on O/N-doped hollow carbon towards enhanced hydrogen production. *Fuel*, **2021**, 306, 121722	7.1	5
35	Strong electrostatic adsorption-engaged fabrication of sub-3.0 nm PtRu alloy nanoparticles as synergistic electrocatalysts toward hydrogen evolution. *Nanoscale*, **2021**, 13, 10044-10050	7.7	3

34	Amino-group and space-confinement assisted synthesis of small and well-defined Rh nanoparticles as efficient catalysts toward ammonia borane hydrolysis. *International Journal of Hydrogen Energy*, **2021**, 46, 2204-2212	6.7	13
33	Bagasse-derived Carbon-supported Ru nanoparticles as Catalyst for Efficient Dehydrogenation of Ammonia Borane. *ChemNanoMat*, **2020**, 6, 1251-1259	3.5	18
32	A simple and straightforward strategy for synthesis of N,P co-doped porous carbon: an efficient support for Rh nanoparticles for dehydrogenation of ammonia borane and catalytic application. *Nanoscale Advances*, **2020**, 2, 1685-1693	5.1	9
31	Salt template-assisted in situ construction of Ru nanoclusters and porous carbon: excellent catalysts toward hydrogen evolution, ammonia-borane hydrolysis, and 4-nitrophenol reduction. *Green Chemistry*, **2020**, 22, 835-842	10	89
30	Ultrasmall rhodium nanoclusters anchored on nitrogen-doped carbon nanotubes with embedded nickel nanoparticles as magnetically recyclable catalysts for efficient ammonia-borane hydrolysis. *International Journal of Hydrogen Energy*, **2020**, 45, 1640-1648	6.7	12
29	Air-mediated construction of O, N-rich carbon: An efficient support of palladium nanoparticles toward catalytic formic acid dehydrogenation and 4-nitrophenol reduction. *International Journal of Hydrogen Energy*, **2020**, 45, 29034-29045	6.7	9
28	Efficient hydrogen evolution from ammonia borane hydrolysis with Rh decorated on phosphorus-doped carbon. *International Journal of Hydrogen Energy*, **2019**, 44, 16548-16556	6.7	31
27	Ultrasmall Rh nanoparticles decorated on carbon nanotubes with encapsulated Ni nanoparticles as excellent and pH-universal electrocatalysts for hydrogen evolution reaction. *Applied Surface Science*, **2019**, 495, 143569	6.7	11
26	Rapid automated liver quantitative susceptibility mapping. *Journal of Magnetic Resonance Imaging*, **2019**, 50, 725-732	5.6	14
25	Ultrahigh Catalytic Activity of l-Proline-Functionalized Rh Nanoparticles for Methanolysis of Ammonia Borane. *ChemSusChem*, **2019**, 12, 535-541	8.3	32
24	Nitrogen-Doped Carbon-Stabilized Ru Nanoclusters as Excellent Catalysts for Hydrogen Production. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1178-1184	8.3	49
23	Multicenter reproducibility of quantitative susceptibility mapping in a gadolinium phantom using MEDI+0 automatic zero referencing. *Magnetic Resonance in Medicine*, **2019**, 81, 1229-1236	4.4	22
22	Ruthenium coordinated with triphenylphosphine-hyper-crosslinked polymer: An efficient catalyst for hydrogen evolution reaction and hydrolysis of ammonia borane. *Applied Surface Science*, **2019**, 466, 193-201	6.7	34
21	Quantitative susceptibility mapping (QSM) minimizes interference from cellular pathology in R2* estimation of liver iron concentration. *Journal of Magnetic Resonance Imaging*, **2018**, 48, 1069-1079	5.6	31
20	Carbon-supported small Rh nanoparticles prepared with sodium citrate: Toward high catalytic activity for hydrogen evolution from ammonia borane hydrolysis. *International Journal of Hydrogen Energy*, **2018**, 43, 2718-2725	6.7	52
19	Hyper-cross-linked polymer supported rhodium: an effective catalyst for hydrogen evolution from ammonia borane. *Dalton Transactions*, **2018**, 47, 2561-2567	4.3	50
18	MEDI+0: Morphology enabled dipole inversion with automatic uniform cerebrospinal fluid zero reference for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2018**, 79, 2795-2803	4.4	73
17	Facile synthesis of effective Ru nanoparticles on carbon by adsorption-low temperature pyrolysis strategy for hydrogen evolution. *Journal of Materials Chemistry A*, **2018**, 6, 14380-14386	13	63

16	Towards High-Efficiency Hydrogen Production through in situ Formation of Well-Dispersed Rhodium Nanoclusters. *ChemSusChem*, **2018**, 11, 3253-3258	8.3	44
15	Well-Defined Ru Nanoclusters Anchored on Carbon: Facile Synthesis and High Electrochemical Activity toward Alkaline Water Splitting. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 11487-11492	8.3	39
14	Catalytically active rhodium nanoparticles stabilized by nitrogen doped carbon for the hydrolysis of ammonia borane. *International Journal of Hydrogen Energy*, **2018**, 43, 22273-22280	6.7	22
13	Fluorescent Zn Chemosensor Mediated by a 1,8-Naphthyridine Derivative and Its Photophysical Properties. *ChemistryOpen*, **2018**, 7, 639-644	2.3	2
12	Ruthenium nanoclusters distributed on phosphorus-doped carbon derived from hypercrosslinked polymer networks for highly efficient hydrolysis of ammonia-borane. *International Journal of Hydrogen Energy*, **2018**, 43, 18253-18260	6.7	22
11	Ultrafine and highly dispersed Ru nanoparticles supported on nitrogen-doped carbon nanosheets: Efficient catalysts for ammonia borane hydrolysis. *Applied Surface Science*, **2018**, 455, 326-332	6.7	53
10	Clinical quantitative susceptibility mapping (QSM): Biometal imaging and its emerging roles in patient care. *Journal of Magnetic Resonance Imaging*, **2017**, 46, 951-971	5.6	128
9	Alumina nanofiber-stabilized ruthenium nanoparticles: Highly efficient catalytic materials for hydrogen evolution from ammonia borane hydrolysis. *International Journal of Hydrogen Energy*, **2017**, 42, 24142-24149	6.7	26
8	Preconditioned total field inversion (TFI) method for quantitative susceptibility mapping. *Magnetic Resonance in Medicine*, **2017**, 78, 303-315	4.4	75
7	Reproducibility of quantitative susceptibility mapping in the brain at two field strengths from two vendors. *Journal of Magnetic Resonance Imaging*, **2015**, 42, 1592-600	5.6	69
6	Simultaneous phase unwrapping and removal of chemical shift (SPURS) using graph cuts: application in quantitative susceptibility mapping. *IEEE Transactions on Medical Imaging*, **2015**, 34, 531-40	11.7	62
5	Morphology enabled dipole inversion for quantitative susceptibility mapping using structural consistency between the magnitude image and the susceptibility map. *NeuroImage*, **2012**, 59, 2560-8	7.9	303
4	A novel background field removal method for MRI using projection onto dipole fields (PDF). *NMR in Biomedicine*, **2011**, 24, 1129-36	4.4	256
3	Quantitative susceptibility map reconstruction from MR phase data using bayesian regularization: validation and application to brain imaging. *Magnetic Resonance in Medicine*, **2010**, 63, 194-206	4.4	457
2	Quantitative MR susceptibility mapping using piece-wise constant regularized inversion of the magnetic field. *Magnetic Resonance in Medicine*, **2008**, 60, 1003-9	4.4	207
1	Maximizing hydrogen production by AB hydrolysis with Pt@cobalt oxide/N,O-rich carbon and alkaline ultrasonic irradiation. *Inorganic Chemistry Frontiers*,	6.8	3