

# Peiwen Wu

## List of Publications by Year in descending order

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86  
papers

5,113  
citations

76294

40  
h-index

88593

70  
g-index

87  
all docs

87  
docs citations

87  
times ranked

4501  
citing authors

#	ARTICLE	IF	CITATIONS
1	A DNzyme-Gold Nanoparticle Probe for Uranyl Ion in Living Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 5254-5257.	6.6	376
2	One-pot extraction combined with metal-free photochemical aerobic oxidative desulfurization in deep eutectic solvent. <i>Green Chemistry</i> , 2015, 17, 2464-2472.	4.6	232
3	Application of graphene-like layered molybdenum disulfide and its excellent adsorption behavior for doxycycline antibiotic. <i>Chemical Engineering Journal</i> , 2014, 243, 60-67.	6.6	207
4	A template-free solvent-mediated synthesis of high surface area boron nitride nanosheets for aerobic oxidative desulfurization. <i>Chemical Communications</i> , 2016, 52, 144-147.	2.2	206
5	Taming interfacial electronic properties of platinum nanoparticles on vacancy-abundant boron nitride nanosheets for enhanced catalysis. <i>Nature Communications</i> , 2017, 8, 15291.	5.8	200
6	Pyridinium-based temperature-responsive magnetic ionic liquid for oxidative desulfurization of fuels. <i>Chemical Engineering Journal</i> , 2013, 229, 250-256.	6.6	174
7	Few-layered graphene-like boron nitride induced a remarkable adsorption capacity for dibenzothiophene in fuels. <i>Green Chemistry</i> , 2015, 17, 1647-1656.	4.6	167
8	Graphene-Analogue Hexagonal BN Supported with Tungsten-based Ionic Liquid for Oxidative Desulfurization of Fuels. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 186-194.	3.2	167
9	Taming electronic properties of boron nitride nanosheets as metal-free catalysts for aerobic oxidative desulfurization of fuels. <i>Green Chemistry</i> , 2018, 20, 4453-4460.	4.6	128
10	Carbon-doped porous boron nitride: metal-free adsorbents for sulfur removal from fuels. <i>Journal of Materials Chemistry A</i> , 2015, 3, 12738-12747.	5.2	126
11	Copper nanoparticles advance electron mobility of graphene-like boron nitride for enhanced aerobic oxidative desulfurization. <i>Chemical Engineering Journal</i> , 2016, 301, 123-131.	6.6	115
12	Boosting aerobic oxidative desulfurization performance in fuel oil via strong metal-edge interactions between Pt and h-BN. <i>Chemical Engineering Journal</i> , 2020, 380, 122526.	6.6	108
13	Rapid gas-assisted exfoliation promises V2O5 nanosheets for high performance lithium-sulfur batteries. <i>Nano Energy</i> , 2020, 67, 104253.	8.2	106
14	Vibrational analysis and formation mechanism of typical deep eutectic solvents: An experimental and theoretical study. <i>Journal of Molecular Graphics and Modelling</i> , 2016, 68, 158-175.	1.3	105
15	Kinetics and mechanism for oxidative desulfurization of fuels catalyzed by peroxy-molybdenum amino acid complexes in water-immiscible ionic liquids. <i>Journal of Molecular Catalysis A</i> , 2011, 336, 16-22.	4.8	91
16	Engineering a tandem leaching system for the highly selective recycling of valuable metals from spent Li-ion batteries. <i>Green Chemistry</i> , 2021, 23, 2177-2184.	4.6	91
17	Taming wettability of lithium ion sieve via different TiO2 precursors for effective Li recovery from aqueous lithium resources. <i>Chemical Engineering Journal</i> , 2020, 392, 123731.	6.6	88
18	Tuning the Chemical Hardness of Boron Nitride Nanosheets by Doping Carbon for Enhanced Adsorption Capacity. <i>ACS Omega</i> , 2017, 2, 5385-5394.	1.6	86

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19	Harnessing strong metal–support interactions via a reverse route. <i>Nature Communications</i> , 2020, 11, 3042.	5.8	84
20	Hexagonal boron nitride: A metal-free catalyst for deep oxidative desulfurization of fuel oils. <i>Green Energy and Environment</i> , 2020, 5, 166-172.	4.7	83
21	Radical Chemistry and Reaction Mechanisms of Propane Oxidative Dehydrogenation over Hexagonal Boron Nitride Catalysts. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 8042-8046.	7.2	83
22	Boosting electrosynthesis of ammonia on surface-engineered MXene Ti <sub>3</sub> C <sub>2</sub> . <i>Nano Energy</i> , 2020, 72, 104681.	8.2	82
23	A large number of low coordinated atoms in boron nitride for outstanding adsorptive desulfurization performance. <i>Green Chemistry</i> , 2016, 18, 3040-3047.	4.6	79
24	Taming Interfacial Oxygen Vacancies of Amphiphilic Tungsten Oxide for Enhanced Catalysis in Oxidative Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 8930-8938.	3.2	75
25	Synthesis of boron nitride nanosheets with N-defects for efficient tetracycline antibiotics adsorptive removal. <i>Chemical Engineering Journal</i> , 2020, 387, 124138.	6.6	75
26	Dynamically-generated TiO <sub>2</sub> active site on MXene Ti <sub>3</sub> C <sub>2</sub> : Boosting reactive desulfurization. <i>Chemical Engineering Journal</i> , 2021, 416, 129022.	6.6	73
27	Recent advances in 3D printing for catalytic applications. <i>Chemical Engineering Journal</i> , 2022, 433, 134341.	6.6	70
28	Controllable Fabrication of Tungsten Oxide Nanoparticles Confined in Graphene-Analogous Boron Nitride as an Efficient Desulfurization Catalyst. <i>Chemistry - A European Journal</i> , 2015, 21, 15421-15427.	1.7	63
29	Tailoring N-Terminated Defective Edges of Porous Boron Nitride for Enhanced Aerobic Catalysis. <i>Small</i> , 2017, 13, 1701857.	5.2	60
30	Immobilizing Highly Catalytically Molybdenum Oxide Nanoparticles on Graphene-Analogous BN: Stable Heterogeneous Catalysts with Enhanced Aerobic Oxidative Desulfurization Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 863-871.	1.8	60
31	Hierarchical porous boron nitride with boron vacancies for improved adsorption performance to antibiotics. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 154-163.	5.0	60
32	Silicotungstic acid immobilized on lamellar hexagonal boron nitride for oxidative desulfurization of fuel components. <i>Fuel</i> , 2018, 213, 12-21.	3.4	55
33	A Novel Reaction-Controlled Foam-Type Polyoxometalate Catalyst for Deep Oxidative Desulfurization of Fuels. <i>Industrial &amp; Engineering Chemistry Research</i> , 2013, 52, 17399-17406.	1.8	54
34	Facile Synthesis of Highly Porous Metal Oxides by Mechanochemical Nanocasting. <i>Chemistry of Materials</i> , 2018, 30, 2924-2929.	3.2	54
35	Deep oxidative desulfurization with a microporous hexagonal boron nitride confining phosphotungstic acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2016, 423, 207-215.	4.8	51
36	3D-printing of integrated spheres as a superior support of phosphotungstic acid for deep oxidative desulfurization of fuel. <i>Journal of Energy Chemistry</i> , 2020, 45, 91-97.	7.1	50

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37	Chemical Control over Cellular Uptake of Organic Nanoparticles by Fine Tuning Surface Functional Groups. <i>ACS Nano</i> , 2015, 9, 10227-10236.	7.3	47
38	Photocaged DNAzymes as a General Method for Sensing Metal Ions in Living Cells. <i>Angewandte Chemie</i> , 2014, 126, 14018-14022.	1.6	43
39	Lattice-Refined Transition-Metal Oxides via Ball Milling for Boosted Catalytic Oxidation Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36666-36675.	4.0	42
40	O <sub>2</sub> Activation and Oxidative Dehydrogenation of Propane on Hexagonal Boron Nitride: Mechanism Revisited. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2256-2266.	1.5	42
41	Mechanical exfoliation of boron carbide: A metal-free catalyst for aerobic oxidative desulfurization in fuel. <i>Journal of Hazardous Materials</i> , 2020, 391, 122183.	6.5	41
42	Graphene-like BN@SiO <sub>2</sub> nanocomposites as efficient sorbents for solid-phase extraction of Rhodamine B and Rhodamine 6G from food samples. <i>Food Chemistry</i> , 2020, 320, 126666.	4.2	40
43	BN/ZIF-8 derived carbon hybrid materials for adsorptive desulfurization: Insights into adsorptive property and reaction kinetics. <i>Fuel</i> , 2021, 288, 119685.	3.4	40
44	Development of novel graphene-like layered hexagonal boron nitride for adsorptive removal of antibiotic gatifloxacin from aqueous solution. <i>Green Chemistry Letters and Reviews</i> , 2014, 7, 330-336.	2.1	35
45	One-Pot Extraction and Oxidative Desulfurization of Fuels with Molecular Oxygen in Low-Cost Metal-Based Ionic Liquids. <i>Energy &amp; Fuels</i> , 2017, 31, 1376-1382.	2.5	35
46	Gas-assisted exfoliation of boron nitride nanosheets enhancing adsorption performance. <i>Ceramics International</i> , 2019, 45, 18838-18843.	2.3	35
47	Synthesis of hierarchical porous BCN using ternary deep eutectic solvent as precursor and template for aerobic oxidative desulfurization. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109788.	2.2	33
48	Synergistic Catalysis of the PtCu Alloy on Ultrathin BN Nanosheets for Accelerated Oxidative Desulfurization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 2032-2039.	3.2	33
49	Tailoring Electronic Properties of Porphyrin Manganese on Boron Nitride for Enhancing Aerobic Oxidative Desulfurization at Room Temperature. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 1015-1022.	3.2	30
50	Pretreatment of sugarcane bagasse with deep eutectic solvents affect the structure and morphology of lignin. <i>Industrial Crops and Products</i> , 2021, 173, 114108.	2.5	30
51	Boron and Nitride Dual vacancies on Metal-Free Oxygen Doping Boron Nitride as Initiating Sites for Deep Aerobic Oxidative Desulfurization. <i>ChemCatChem</i> , 2020, 12, 1734-1742.	1.8	28
52	Metal-organic framework encapsulated high-loaded phosphomolybdic acid: A highly stable catalyst for oxidative desulfurization of 4,6-dimethyldibenzothiophene. <i>Fuel</i> , 2022, 309, 122143.	3.4	28
53	Graphene-like boron nitride anchored Brønsted acid ionic liquids as metal-free catalyst for advanced oxidation process. <i>Molecular Catalysis</i> , 2017, 436, 53-59.	1.0	27
54	Phosphomolybdic acid immobilized on ionic liquid-modified hexagonal boron nitride for oxidative desulfurization of fuel. <i>RSC Advances</i> , 2017, 7, 54266-54276.	1.7	26

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55	The mechanism of thiophene oxidation on metal-free two-dimensional hexagonal boron nitride. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 21867-21874.	1.3	26
56	Synthesis of N,O-Doped Porous Graphene from Petroleum Coke for Deep Oxidative Desulfurization of Fuel. <i>Energy &amp; Fuels</i> , 2019, 33, 8302-8311.	2.5	25
57	Tuning interfacial electronic properties of carbon nitride as an efficient catalyst for ultra-deep oxidative desulfurization of fuels. <i>Molecular Catalysis</i> , 2019, 468, 100-108.	1.0	25
58	High-entropy oxide stabilized molybdenum oxide via high temperature for deep oxidative desulfurization. <i>Applied Materials Today</i> , 2020, 20, 100680.	2.3	24
59	Phosphomolybdic acid encapsulated in ZIF-8-based porous ionic liquids for reactive extraction desulfurization of fuels. <i>Inorganic Chemistry Frontiers</i> , 2021, 9, 165-178.	3.0	24
60	Gas-exfoliated porous monolayer boron nitride for enhanced aerobic oxidative desulfurization performance. <i>Nanotechnology</i> , 2018, 29, 025604.	1.3	23
61	Extraction combined catalytic oxidation desulfurization of petcoke in ionic liquid under mild conditions. <i>Fuel</i> , 2020, 260, 116200.	3.4	23
62	Heterogenization of homogenous oxidative desulfurization reaction on graphene-like boron nitride with a peroxomolybdate ionic liquid. <i>RSC Advances</i> , 2016, 6, 140-147.	1.7	22
63	Sustainable synthesis of alkaline metal oxide-mesoporous carbons via mechanochemical coordination self-assembly. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23446-23452.	5.2	22
64	Multiple Promotional Effects of Vanadium Oxide on Boron Nitride for Oxidative Dehydrogenation of Propane. <i>Jacs Au</i> , 2022, 2, 1096-1104.	3.6	20
65	Applications of Synchrotron-Based Spectroscopic Techniques in Studying Nucleic Acids and Nucleic Acid-Functionalized Nanomaterials. <i>Advanced Materials</i> , 2014, 26, 7849-7872.	11.1	19
66	Fabrication of carbon nanotubes encapsulated cobalt phosphide on graphene: Cobalt promoted hydrogen evolution reaction performance. <i>Electrochimica Acta</i> , 2020, 330, 135213.	2.6	19
67	Three-dimensional Ce-MOFs-derived Ce@C-BN nanobundles for adsorptive desulfurization. <i>Applied Surface Science</i> , 2022, 590, 152926.	3.1	19
68	Ultra-Stable and High-Cobalt-Loaded Cobalt@Ordered Mesoporous Carbon Catalysts: All-in-One Deoxygenation of Ketone into Alkylbenzene. <i>ChemCatChem</i> , 2018, 10, 3299-3304.	1.8	17
69	Few-layered graphene via gas-driven exfoliation for enhanced supercapacitive performance. <i>Journal of Energy Chemistry</i> , 2018, 27, 1509-1515.	7.1	17
70	Carbon nitride mediated strong metal-support interactions in a Au/TiO <sub>2</sub> catalyst for aerobic oxidative desulfurization. <i>Inorganic Chemistry Frontiers</i> , 2020, 7, 1212-1219.	3.0	17
71	Deep eutectic solvent-induced high-entropy structures in boron nitride for boosted initiation of aerobic oxidative desulfurization of diesel. <i>Applied Surface Science</i> , 2020, 529, 146980.	3.1	16
72	Fabrication of CNTs encapsulated nickel-nickel phosphide nanoparticles on graphene for remarkable hydrogen evolution reaction performance. <i>Journal of Electroanalytical Chemistry</i> , 2019, 846, 113142.	1.9	15

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73	Preparation of metal ions impregnated polystyrene resins for adsorption of antibiotics contaminants in aquatic environment. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	14
74	Fabrication of oxygen-defective tungsten oxide nanorods for deep oxidative desulfurization of fuel. <i>Petroleum Science</i> , 2018, 15, 849-856.	2.4	13
75	Promoting Pt catalysis for CO oxidation via the Mott-Schottky effect. <i>Nanoscale</i> , 2019, 11, 18568-18574.	2.8	13
76	Engineering Highly Dispersed Pt Species by Defects for Boosting the Reactive Desulfurization Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 2828-2837.	1.8	13
77	Binary molten salts mediated defect engineering on hexagonal boron nitride catalyst with long-term stability for aerobic oxidative desulfurization. <i>Applied Surface Science</i> , 2021, 558, 149724.	3.1	13
78	Synergistic Effect of Au-Cu Alloy Nanoparticles on TiO <sub>2</sub> for Efficient Aerobic Catalytic Oxidative Desulfurization. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 6292-6300.	1.8	12
79	Light irradiation induced aerobic oxidative deep-desulfurization of fuel in ionic liquid. <i>RSC Advances</i> , 2015, 5, 99927-99934.	1.7	9
80	Synthesis of porous carbon via a waste tire leavening strategy for adsorptive desulfurization. <i>RSC Advances</i> , 2019, 9, 30575-30580.	1.7	8
81	Heteroatom Bridging Strategy in Carbon-Based Catalysts for Enhanced Oxidative Desulfurization Performance. <i>Inorganic Chemistry</i> , 2022, 61, 633-642.	1.9	8
82	Engineering 3D-printed aqueous colloidal ceramic slurry for direct ink writing. <i>Green Chemical Engineering</i> , 2023, 4, 73-80.	3.3	8
83	Fabrication of functional dual-mesoporous silicas by using peroxy-tungstate ionic liquid and their applications in oxidative desulfurization. <i>Journal of Porous Materials</i> , 2015, 22, 1227-1233.	1.3	5
84	Controllable electronic effect via deep eutectic solvents modification for boosted aerobic oxidative desulfurization. <i>Molecular Catalysis</i> , 2021, 512, 111757.	1.0	3
85	Aerobic ultra-deep desulfurization of diesel oil triggered by porous carbon supported organic molecular N-hydroxyphthalimide catalyst. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 641, 128455.	2.3	2
86	Interface engineering of quaternary ammonium phosphotungstate for efficient oxidative desulfurization of high-sulfur petroleum coke. <i>Petroleum Science and Technology</i> , 2023, 41, 86-103.	0.7	0