Xin Hu

List of Publications by Year
in descending order

75 papers	6,039 citations	44069 48 h-index	76900 74 g-index
75 all docs	75 docs citations	75 times ranked	4344 citing authors

#	Article	IF	Citations
1	High piezo/photocatalytic efficiency of Ag/Bi5O7I nanocomposite using mechanical and solar energy for N2 fixation and methyl orange degradation. Green Energy and Environment, 2023, 8, 283-295.	8.7	139
2	Effective nitrogen and sulfur co-doped porous carbonaceous CO2 adsorbents derived from amino acid. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 632, 127750.	4.7	69
3	Biomass derived nitrogen and sulfur co-doped porous carbons for efficient CO2 adsorption. Separation and Purification Technology, 2022, 281, 119899.	7.9	143
4	Thiophene insertion and lanthanum molybdate modification of g-C3N4 for enhanced visible-light-driven photoactivity in tetracycline degradation. Applied Surface Science, 2022, 592, 153337.	6.1	21
5	A novel Z-scheme Bi-Bi₂O₃/KTa_{0.5}Nb_{0.5}O₃ heterojunction for efficient photocatalytic conversion of N₂ to NH₃. Inorganic Chemistry Frontiers, 2022, 9, 2714-2724.	6.0	53
6	Facile synthesis of strontium molybdate coupled g-C3N4 composite for effective tetracycline and dyes degradation under visible light. Advanced Powder Technology, 2022, 33, 103573.	4.1	4
7	Efficient N-Doped Porous Carbonaceous CO₂ Adsorbents Derived from Commercial Urea-Formaldehyde Resin. Energy & Fuels, 2022, 36, 5825-5832.	5.1	54
8	Synthesis of potassium Bitartrate-derived porous carbon via a facile and Self-Activating strategy for CO2 adsorption application. Separation and Purification Technology, 2022, 296, 121368.	7.9	56
9	Water chestnut shell-derived N/S-doped porous carbons and their applications in CO2 adsorption and supercapacitor. Fuel, 2022, 326, 125119.	6.4	104
10	Efficient nitrogen doped porous carbonaceous CO2 adsorbents based on lotus leaf. Journal of Environmental Sciences, 2021, 103, 268-278.	6.1	92
11	Coupling CsPbBr₃ Quantum Dots with Covalent Triazine Frameworks for Visibleâ€Lightâ€Driven CO₂ Reduction. ChemSusChem, 2021, 14, 1131-1139.	6.8	52
12	A novel Bi₂S₃/KTa_{0.75}Nb_{0.25}O₃nanocomposite with high efficiency for photocatalytic and piezocatalytic N₂fixation. Journal of Materials Chemistry A, 2021, 9, 13344-13354.	10.3	109
13	Water caltrop shell-derived nitrogen-doped porous carbons with high CO2 adsorption capacity. Biomass and Bioenergy, 2021, 145, 105969.	5.7	87
14	Analysis of the Effect of Conditions of Preparation of Nitrogen-Doped Activated Carbons Derived from Lotus Leaves by Activation with Sodium Amide on the Formation of Their Porous Structure. Materials, 2021, 14, 1540.	2.9	5
15	Facile preparation of novel nickel sulfide modified KNbO3 heterojunction composite and its enhanced performance in photocatalytic nitrogen fixation. Journal of Colloid and Interface Science, 2021, 590, 548-560.	9.4	97
16	Nitrogen and sulfur co-doped porous carbons from polyacrylonitrile fibers for CO2 adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2021, 128, 148-155.	5.3	19
17	Biomass based N-doped porous carbons as efficient CO2 adsorbents and high-performance supercapacitor electrodes. Separation and Purification Technology, 2021, 275, 119204.	7.9	49
18	CuS/KTa0.75Nb0.25O3 nanocomposite utilizing solar and mechanical energy for catalytic N2 fixation. Journal of Colloid and Interface Science, 2021, 603, 220-232.	9.4	90

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19	Highly Efficient Nitrogen-Doped Porous Carbonaceous CO₂ Adsorbents Derived from Biomass. Energy & Fuels, 2021, 35, 1620-1628.	5.1	67
20	CO₂ Adsorption on Hazelnut-Shell-Derived Nitrogen-Doped Porous Carbons Synthesized by Single-Step Sodium Amide Activation. Industrial & Engineering Chemistry Research, 2020, 59, 7046-7053.	3.7	88
21	Preparation of biomass-derived porous carbons by a facile method and application to CO2 adsorption. Journal of the Taiwan Institute of Chemical Engineers, 2020, 116, 128-136.	5.3	46
22	Superior CO2 uptake on nitrogen doped carbonaceous adsorbents from commercial phenolic resin. Journal of Environmental Sciences, 2020, 93, 109-116.	6.1	105
23	Porous Carbons Derived from Sustainable Biomass via a Facile One-Step Synthesis Strategy as Efficient CO₂ Adsorbents. Industrial & Engineering Chemistry Research, 2020, 59, 6194-6201.	3.7	92
24	Facile Single-Step Synthesis of Porous Carbons as Efficient CO₂ Adsorbents. Energy & Fuels, 2019, 33, 11544-11551.	5.1	6
25	Fabrication of a Z-scheme AgBr/Bi₄O₅Br₂nanocomposite and its high efficiency in photocatalytic N₂fixation and dye degradation. Inorganic Chemistry Frontiers, 2019, 6, 3083-3092.	6.0	71
26	Novel Nitrogen-Doped Porous Carbons Derived from Graphene for Effective CO₂ Capture. Industrial & Engineering Chemistry Research, 2019, 58, 3349-3358.	3.7	130
27	Nitrogen-Doped Porous Carbons from Lotus Leaf for CO₂ Capture and Supercapacitor Electrodes. Energy & Fuels, 2019, 33, 6568-6576.	5.1	84
28	In-situ synthesis of AgNbO3/g-C3N4 photocatalyst via microwave heating method for efficiently photocatalytic H2 generation. Journal of Colloid and Interface Science, 2019, 534, 163-171.	9.4	174
29	Preparation of interstitial carbon doped BiOI for enhanced performance in photocatalytic nitrogen fixation and methyl orange degradation. Journal of Colloid and Interface Science, 2019, 539, 563-574.	9.4	205
30	N-doped porous carbons from low-temperature and single-step sodium amide activation of carbonized water chestnut shell with excellent CO2 capture performance. Chemical Engineering Journal, 2019, 359, 428-435.	12.7	176
31	Nitrogen enriched porous carbons from d-glucose with excellent CO2 capture performance. Chemical Engineering Journal, 2019, 362, 794-801.	12.7	140
32	Formation and properties of bioactive barium titanate coatings produced by plasma electrolytic oxidation. Ceramics International, 2018, 44, 12978-12986.	4.8	20
33	Enhanced CO₂ Adsorption on Nitrogen-Doped Porous Carbons Derived from Commercial Phenolic Resin. Energy & Fuels, 2018, 32, 2081-2088.	5.1	40
34	Highly efficient CO2 adsorption by nitrogen-doped porous carbons synthesized with low-temperature sodium amide activation. Carbon, 2018, 130, 31-40.	10.3	133
35	Giant enhancement of photocatalytic H2 production over KNbO3 photocatalyst obtained via carbon doping and MoS2 decoration. International Journal of Hydrogen Energy, 2018, 43, 4347-4354.	7.1	91
36	CO2 adsorption at nitrogen-doped carbons prepared by K2CO3 activation of urea-modified coconut shell. Journal of Colloid and Interface Science, 2018, 511, 259-267.	9.4	252

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37	Single-Step Synthesis of Nitrogen-Doped Porous Carbons for CO₂ Capture by Low-Temperature Sodium Amide Activation of Petroleum Coke. Energy & Fuels, 2018, 32, 12787-12794.	5.1	18
38	Low-Temperature and Single-Step Synthesis of N-Doped Porous Carbons with a High CO₂ Adsorption Performance by Sodium Amide Activation. Energy & Fuels, 2018, 32, 10830-10837.	5.1	38
39	Novel Ternary MoS₂/C-ZnO Composite with Efficient Performance in Photocatalytic NH₃ Synthesis under Simulated Sunlight. ACS Sustainable Chemistry and Engineering, 2018, 6, 14866-14879.	6.7	67
40	Efficient CO₂ Adsorption on Nitrogen-Doped Porous Carbons Derived from <scp>d</scp>-Glucose. Energy & Fuels, 2018, 32, 6955-6963.	5.1	96
41	Novel carbon modified KTa0.75Nb0.25O3 nanocubes with excellent efficiency in photocatalytic H2 evolution. Fuel, 2018, 233, 486-496.	6.4	33
42	The construction and online/offline blended learning of small private online courses of Principles of Chemical Engineering. Computer Applications in Engineering Education, 2018, 26, 1519-1526.	3.4	18
43	In Situ Synthesis of Nitrogen-Enriched Activated Carbons from Procambarus clarkii Shells with Enhanced CO₂ Adsorption Performance. Energy & Fuels, 2018, 32, 9701-9710.	5.1	23
44	Borate's effects on coatings by PEO on AZ91D alloy. Surface Engineering, 2017, 33, 773-778.	2.2	10
45	Efficient CO₂ Capture by Porous Carbons Derived from Coconut Shell. Energy & Fuels, 2017, 31, 4287-4293.	5.1	111
46	CO₂ Adsorption of Nitrogen-Doped Carbons Prepared from Nitric Acid Preoxidized Petroleum Coke. Energy & Fuels, 2017, 31, 11060-11068.	5.1	40
47	Efficient CO₂ Capture by Nitrogen-Doped Biocarbons Derived from Rotten Strawberries. Industrial & Engineering Chemistry Research, 2017, 56, 14115-14122.	3.7	62
48	A Hierarchical Bipyridineâ€Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. ChemSusChem, 2017, 10, 1186-1192.	6.8	94
49	Role of Hydrogen Peroxide Preoxidizing on CO₂ Adsorption of Nitrogen-Doped Carbons Produced from Coconut Shell. ACS Sustainable Chemistry and Engineering, 2016, 4, 2806-2813.	6.7	92
50	CO2 removal from flue gas with amine-impregnated titanate nanotubes. Nano Energy, 2016, 25, 1-8.	16.0	69
51	Enhanced CO₂ Capture Capacity of Nitrogen-Doped Biomass-Derived Porous Carbons. ACS Sustainable Chemistry and Engineering, 2016, 4, 1439-1445.	6.7	313
52	Adsorption of CO₂ by Petroleum Coke Nitrogen-Doped Porous Carbons Synthesized by Combining Ammoxidation with KOH Activation. Industrial & Engineering Chemistry Research, 2016, 55, 757-765.	3.7	75
53	Highly Cost-Effective Nitrogen-Doped Porous Coconut Shell-Based CO₂ Sorbent Synthesized by Combining Ammoxidation with KOH Activation. Environmental Science & Technology, 2015, 49, 7063-7070.	10.0	173
54	A new mesoporous amine-TiO2 based pre-combustion CO2 capture technology. Applied Energy, 2015, 147, 214-223.	10.1	41

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55	Single and bicomponent anionic dyes adsorption equilibrium studies on magnolia-leaf-based porous carbons. RSC Advances, 2015, 5, 63970-63977.	3.6	15
56	Nitrogen-doped porous carbon spheres derived from <scp>d</scp>-glucose as highly-efficient CO₂ sorbents. RSC Advances, 2015, 5, 37964-37969.	3.6	57
57	Tetraethylenepentamine modified protonated titanate nanotubes for CO 2 capture. Fuel Processing Technology, 2015, 138, 663-669.	7.2	39
58	Synthesis of nitrogen-doped carbon with three-dimensional mesostructures for CO2 capture. Journal of Materials Science, 2015, 50, 1221-1227.	3.7	19
59	A new nanoporous nitrogen-doped highly-efficient carbonaceous CO2 sorbent synthesized with inexpensive urea and petroleum coke. Carbon, 2015, 81, 465-473.	10.3	158
60	Enhanced adsorptive removal of hazardous anionic dye â€œcongo redâ€•by a Ni/Cu mixed-component metalâ€“organic porous material. RSC Advances, 2014, 4, 35124-35130.	3.6	102
61	Capturing CO₂ with Amine-Impregnated Titanium Oxides. Energy & Fuels, 2013, 27, 5433-5439.	5.1	57
62	Effect of Thermal Annealing on Tribological and Corrosion Properties of DLC Coatings. Journal of Materials Engineering and Performance, 2013, 22, 3093-3100.	2.5	16
63	Adsorptive Removal of Methyl Orange and Methylene Blue from Aqueous Solution with Finger-Citron-Residue-Based Activated Carbon. Industrial & Engineering Chemistry Research, 2013, 52, 14297-14303.	3.7	267
64	CO2 Capture with Activated Carbons Prepared by Petroleum Coke and KOH at Low Pressure. Water, Air, and Soil Pollution, 2013, 224, 1.	2.4	36
65	Tetraethylenepentamine-Modified Silica Nanotubes for Low-Temperature CO₂ Capture. Energy & Fuels, 2013, 27, 7673-7680.	5.1	36
66	Removal of Dibenzothiophene with Composite Adsorbent MOF-5/Cu(I). Energy & Fuels, 2013, 27, 816-821.	5.1	87
67	Enhancement of CO2 adsorption and amine efficiency of titania modified by moderate loading of diethylenetriamine. Journal of Materials Chemistry A, 2013, 1, 6208.	10.3	63
68	Deposition and properties of zirconia coatings on a zirconium alloy produced by pulsed DC plasma electrolytic oxidation. Surface and Coatings Technology, 2013, 221, 150-157.	4.8	54
69	Tetraethylenepentamine-Modified Siliceous Mesocellular Foam (MCF) for CO₂ Capture. Industrial & Engineering Chemistry Research, 2013, 52, 4221-4228.	3.7	120
70	Preparation and CO₂Sorption of a High Surface Area Activated Carbon Obtained from the KOH Activation of Finger Citron Residue. Adsorption Science and Technology, 2012, 30, 183-191.	3.2	15
71	CO₂-Filling Capacity and Selectivity of Carbon Nanopores: Synthesis, Texture, and Pore-Size Distribution from Quenched-Solid Density Functional Theory (QSDFT). Environmental Science & Technology, 2011, 45, 7068-7074.	10.0	189
72	Hydrogen Storage in Mesoporous Titanium Oxideâ^'Alkali Fulleride Composites. Inorganic Chemistry, 2008, 47, 2477-2484.	4.0	13

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73	Hydrogen Storage in Microporous Titanium Oxides Reduced by Early Transition Metal Organometallic Sandwich Compounds. Chemistry of Materials, 2007, 19, 1388-1395.	6.7	35
74	Hydrogen Storage in Chemically Reducible Mesoporous and Microporous Ti Oxides. Journal of the American Chemical Society, 2006, 128, 11740-11741.	13.7	108
75	New Application and Excellent Performance of Ag/KNbO₃ Nanocomposite in Photocatalytic NH₃ Synthesis. ACS Sustainable Chemistry and Engineering, 0, , .	6.7	17