

Xin Hu

List of Publications by Year in descending order

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papers

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44069

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75
docs citations

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times ranked

4344
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced CO ₂ Capture Capacity of Nitrogen-Doped Biomass-Derived Porous Carbons. ACS Sustainable Chemistry and Engineering, 2016, 4, 1439-1445.	6.7	313
2	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
3	CO ₂ adsorption at nitrogen-doped carbons prepared by K ₂ CO ₃ activation of urea-modified coconut shell. Journal of Colloid and Interface Science, 2018, 511, 259-267.	9.4	252
4	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
5	CO ₂ -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
6	N-doped porous carbons from low-temperature and single-step sodium amide activation of carbonized water chestnut shell with excellent CO ₂ capture performance. Chemical Engineering Journal, 2019, 359, 428-435.	12.7	176
7	In-situ synthesis of AgNbO ₃ /g-C ₃ N ₄ photocatalyst via microwave heating method for efficiently photocatalytic H ₂ generation. Journal of Colloid and Interface Science, 2019, 534, 163-171.	9.4	174
8	Highly Cost-Effective Nitrogen-Doped Porous Coconut Shell-Based CO ₂ Sorbent Synthesized by Combining Ammoxidation with KOH Activation. Environmental Science & Technology, 2015, 49, 7063-7070.	10.0	173
9	A new nanoporous nitrogen-doped highly-efficient carbonaceous CO ₂ sorbent synthesized with inexpensive urea and petroleum coke. Carbon, 2015, 81, 465-473.	10.3	158
10	Biomass derived nitrogen and sulfur co-doped porous carbons for efficient CO ₂ adsorption. Separation and Purification Technology, 2022, 281, 119899.	7.9	143
11	Nitrogen enriched porous carbons from d-glucose with excellent CO ₂ capture performance. Chemical Engineering Journal, 2019, 362, 794-801.	12.7	140
12	High piezo/photocatalytic efficiency of Ag/Bi ₅ O ₇ I nanocomposite using mechanical and solar energy for N ₂ fixation and methyl orange degradation. Green Energy and Environment, 2023, 8, 283-295.	8.7	139
13	Highly efficient CO ₂ adsorption by nitrogen-doped porous carbons synthesized with low-temperature sodium amide activation. Carbon, 2018, 130, 31-40.	10.3	133
14	Novel Nitrogen-Doped Porous Carbons Derived from Graphene for Effective CO ₂ Capture. Industrial & Engineering Chemistry Research, 2019, 58, 3349-3358.	3.7	130
15	Tetraethylenepentamine-Modified Siliceous Mesocellular Foam (MCF) for CO ₂ Capture. Industrial & Engineering Chemistry Research, 2013, 52, 4221-4228.	3.7	120
16	Efficient CO ₂ Capture by Porous Carbons Derived from Coconut Shell. Energy & Fuels, 2017, 31, 4287-4293.	5.1	111
17	A novel Bi ₂ S ₃ /KTa _{0.75} Nb _{0.25} O ₃ nanocomposite with high efficiency for photocatalytic and piezocatalytic N ₂ fixation. Journal of Materials Chemistry A, 2021, 9, 13344-13354.	10.3	109
18	Hydrogen Storage in Chemically Reducible Mesoporous and Microporous Ti Oxides. Journal of the American Chemical Society, 2006, 128, 11740-11741.	13.7	108

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19	Superior CO ₂ uptake on nitrogen doped carbonaceous adsorbents from commercial phenolic resin. <i>Journal of Environmental Sciences</i> , 2020, 93, 109-116.	6.1	105
20	Water chestnut shell-derived N/S-doped porous carbons and their applications in CO ₂ adsorption and supercapacitor. <i>Fuel</i> , 2022, 326, 125119.	6.4	104
21	Enhanced adsorptive removal of hazardous anionic dye Congo red by a Ni/Cu mixed-component metal-organic porous material. <i>RSC Advances</i> , 2014, 4, 35124-35130.	3.6	102
22	Facile preparation of novel nickel sulfide modified KNbO ₃ heterojunction composite and its enhanced performance in photocatalytic nitrogen fixation. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 548-560.	9.4	97
23	Efficient CO ₂ Adsorption on Nitrogen-Doped Porous Carbons Derived from D-Glucose. <i>Energy & Fuels</i> , 2018, 32, 6955-6963.	5.1	96
24	A Hierarchical Bipyridine-Constructed Framework for Highly Efficient Carbon Dioxide Capture and Catalytic Conversion. <i>ChemSusChem</i> , 2017, 10, 1186-1192.	6.8	94
25	Role of Hydrogen Peroxide Preoxidizing on CO ₂ Adsorption of Nitrogen-Doped Carbons Produced from Coconut Shell. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 2806-2813.	6.7	92
26	Porous Carbons Derived from Sustainable Biomass via a Facile One-Step Synthesis Strategy as Efficient CO ₂ Adsorbents. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 6194-6201.	3.7	92
27	Efficient nitrogen doped porous carbonaceous CO ₂ adsorbents based on lotus leaf. <i>Journal of Environmental Sciences</i> , 2021, 103, 268-278.	6.1	92
28	Giant enhancement of photocatalytic H ₂ production over KNbO ₃ photocatalyst obtained via carbon doping and MoS ₂ decoration. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 4347-4354.	7.1	91
29	CuS/KTa _{0.75} Nb _{0.25} O ₃ nanocomposite utilizing solar and mechanical energy for catalytic N ₂ fixation. <i>Journal of Colloid and Interface Science</i> , 2021, 603, 220-232.	9.4	90
30	CO ₂ Adsorption on Hazelnut-Shell-Derived Nitrogen-Doped Porous Carbons Synthesized by Single-Step Sodium Amide Activation. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 7046-7053.	3.7	88
31	Removal of Dibenzothiophene with Composite Adsorbent MOF-5/Cu(I). <i>Energy & Fuels</i> , 2013, 27, 816-821.	5.1	87
32	Water caltrop shell-derived nitrogen-doped porous carbons with high CO ₂ adsorption capacity. <i>Biomass and Bioenergy</i> , 2021, 145, 105969.	5.7	87
33	Nitrogen-Doped Porous Carbons from Lotus Leaf for CO ₂ Capture and Supercapacitor Electrodes. <i>Energy & Fuels</i> , 2019, 33, 6568-6576.	5.1	84
34	Adsorption of CO ₂ by Petroleum Coke Nitrogen-Doped Porous Carbons Synthesized by Combining Ammoxidation with KOH Activation. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 757-765.	3.7	75
35	Fabrication of a Z-scheme AgBr/Bi ₄ O ₅ Br ₂ nanocomposite and its high efficiency in photocatalytic N ₂ fixation and dye degradation. <i>Inorganic Chemistry Frontiers</i> , 2019, 6, 3083-3092.	6.0	71
36	CO ₂ removal from flue gas with amine-impregnated titanate nanotubes. <i>Nano Energy</i> , 2016, 25, 1-8.	16.0	69

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37	Effective nitrogen and sulfur co-doped porous carbonaceous CO ₂ adsorbents derived from amino acid. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 632, 127750.	4.7	69
38	Novel Ternary MoS ₂ /C-ZnO Composite with Efficient Performance in Photocatalytic NH ₃ Synthesis under Simulated Sunlight. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 14866-14879.	6.7	67
39	Highly Efficient Nitrogen-Doped Porous Carbonaceous CO ₂ Adsorbents Derived from Biomass. <i>Energy & Fuels</i> , 2021, 35, 1620-1628.	5.1	67
40	Enhancement of CO ₂ adsorption and amine efficiency of titania modified by moderate loading of diethylenetriamine. <i>Journal of Materials Chemistry A</i> , 2013, 1, 6208.	10.3	63
41	Efficient CO ₂ Capture by Nitrogen-Doped Biocarbons Derived from Rotten Strawberries. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 14115-14122.	3.7	62
42	Capturing CO ₂ with Amine-Impregnated Titanium Oxides. <i>Energy & Fuels</i> , 2013, 27, 5433-5439.	5.1	57
43	Nitrogen-doped porous carbon spheres derived from α -D-glucose as highly-efficient CO ₂ sorbents. <i>RSC Advances</i> , 2015, 5, 37964-37969.	3.6	57
44	Synthesis of potassium Bitartrate-derived porous carbon via a facile and Self-Activating strategy for CO ₂ adsorption application. <i>Separation and Purification Technology</i> , 2022, 296, 121368.	7.9	56
45	Deposition and properties of zirconia coatings on a zirconium alloy produced by pulsed DC plasma electrolytic oxidation. <i>Surface and Coatings Technology</i> , 2013, 221, 150-157.	4.8	54
46	Efficient N-Doped Porous Carbonaceous CO ₂ Adsorbents Derived from Commercial Urea-Formaldehyde Resin. <i>Energy & Fuels</i> , 2022, 36, 5825-5832.	5.1	54
47	A novel Z-scheme Bi-Bi ₂ O ₃ /KTa _{0.5} Nb _{0.5} O ₃ heterojunction for efficient photocatalytic conversion of N ₂ to NH ₃ . <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 2714-2724.	6.0	53
48	Coupling CsPbBr ₃ Quantum Dots with Covalent Triazine Frameworks for Visible-Light-Driven CO ₂ Reduction. <i>ChemSusChem</i> , 2021, 14, 1131-1139.	6.8	52
49	Biomass based N-doped porous carbons as efficient CO ₂ adsorbents and high-performance supercapacitor electrodes. <i>Separation and Purification Technology</i> , 2021, 275, 119204.	7.9	49
50	Preparation of biomass-derived porous carbons by a facile method and application to CO ₂ adsorption. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 116, 128-136.	5.3	46
51	A new mesoporous amine-TiO ₂ based pre-combustion CO ₂ capture technology. <i>Applied Energy</i> , 2015, 147, 214-223.	10.1	41
52	CO ₂ Adsorption of Nitrogen-Doped Carbons Prepared from Nitric Acid Preoxidized Petroleum Coke. <i>Energy & Fuels</i> , 2017, 31, 11060-11068.	5.1	40
53	Enhanced CO ₂ Adsorption on Nitrogen-Doped Porous Carbons Derived from Commercial Phenolic Resin. <i>Energy & Fuels</i> , 2018, 32, 2081-2088.	5.1	40
54	Tetraethylenepentamine modified protonated titanate nanotubes for CO ₂ capture. <i>Fuel Processing Technology</i> , 2015, 138, 663-669.	7.2	39

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55	Low-Temperature and Single-Step Synthesis of N-Doped Porous Carbons with a High CO ₂ Adsorption Performance by Sodium Amide Activation. <i>Energy & Fuels</i> , 2018, 32, 10830-10837.	5.1	38
56	CO ₂ Capture with Activated Carbons Prepared by Petroleum Coke and KOH at Low Pressure. <i>Water, Air, and Soil Pollution</i> , 2013, 224, 1.	2.4	36
57	Tetraethylenepentamine-Modified Silica Nanotubes for Low-Temperature CO ₂ Capture. <i>Energy & Fuels</i> , 2013, 27, 7673-7680.	5.1	36
58	Hydrogen Storage in Microporous Titanium Oxides Reduced by Early Transition Metal Organometallic Sandwich Compounds. <i>Chemistry of Materials</i> , 2007, 19, 1388-1395.	6.7	35
59	Novel carbon modified KTa _{0.75} Nb _{0.25} O ₃ nanocubes with excellent efficiency in photocatalytic H ₂ evolution. <i>Fuel</i> , 2018, 233, 486-496.	6.4	33
60	In Situ Synthesis of Nitrogen-Enriched Activated Carbons from <i>Procambarus clarkii</i> Shells with Enhanced CO ₂ Adsorption Performance. <i>Energy & Fuels</i> , 2018, 32, 9701-9710.	5.1	23
61	Thiophene insertion and lanthanum molybdate modification of g-C ₃ N ₄ for enhanced visible-light-driven photoactivity in tetracycline degradation. <i>Applied Surface Science</i> , 2022, 592, 153337.	6.1	21
62	Formation and properties of bioactive barium titanate coatings produced by plasma electrolytic oxidation. <i>Ceramics International</i> , 2018, 44, 12978-12986.	4.8	20
63	Synthesis of nitrogen-doped carbon with three-dimensional mesostructures for CO ₂ capture. <i>Journal of Materials Science</i> , 2015, 50, 1221-1227.	3.7	19
64	Nitrogen and sulfur co-doped porous carbons from polyacrylonitrile fibers for CO ₂ adsorption. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 128, 148-155.	5.3	19
65	Single-Step Synthesis of Nitrogen-Doped Porous Carbons for CO ₂ Capture by Low-Temperature Sodium Amide Activation of Petroleum Coke. <i>Energy & Fuels</i> , 2018, 32, 12787-12794.	5.1	18
66	The construction and online/offline blended learning of small private online courses of <i>Principles of Chemical Engineering</i> . <i>Computer Applications in Engineering Education</i> , 2018, 26, 1519-1526.	3.4	18
67	New Application and Excellent Performance of Ag/KNbO ₃ Nanocomposite in Photocatalytic NH ₃ Synthesis. <i>ACS Sustainable Chemistry and Engineering</i> , 0, , .	6.7	17
68	Effect of Thermal Annealing on Tribological and Corrosion Properties of DLC Coatings. <i>Journal of Materials Engineering and Performance</i> , 2013, 22, 3093-3100.	2.5	16
69	Preparation and CO ₂ Sorption of a High Surface Area Activated Carbon Obtained from the KOH Activation of Finger Citron Residue. <i>Adsorption Science and Technology</i> , 2012, 30, 183-191.	3.2	15
70	Single and bicomponent anionic dyes adsorption equilibrium studies on magnolia-leaf-based porous carbons. <i>RSC Advances</i> , 2015, 5, 63970-63977.	3.6	15
71	Hydrogen Storage in Mesoporous Titanium Oxide~Alkali Fulleride Composites. <i>Inorganic Chemistry</i> , 2008, 47, 2477-2484.	4.0	13
72	Borate's effects on coatings by PEO on AZ91D alloy. <i>Surface Engineering</i> , 2017, 33, 773-778.	2.2	10

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73	Facile Single-Step Synthesis of Porous Carbons as Efficient CO ₂ Adsorbents. Energy & Fuels, 2019, 33, 11544-11551.	5.1	6
74	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
75	Facile synthesis of strontium molybdate coupled g-C ₃ N ₄ composite for effective tetracycline and dyes degradation under visible light. Advanced Powder Technology, 2022, 33, 103573.	4.1	4