Gengshen Hu

List of Publications by Year
in descending order

53 papers	2,725 citations	172386 29 h-index	175177 52 g-index
53 all docs	53 docs citations	53 times ranked	3360 citing authors

#	Article	IF	Citations
1	Enhanced CO₂ Capture Capacity of Nitrogen-Doped Biomass-Derived Porous Carbons. ACS Sustainable Chemistry and Engineering, 2016, 4, 1439-1445.	3.2	313
2	Role of surface Ni and Ce species of Ni/CeO2 catalyst in CO2 methanation. Applied Surface Science, 2016, 383, 248-252.	3.1	257
3	CO oxidation over CuO/Ce1â^'xCuxO2â^'Î´ and Ce1â^'xCuxO2â^'Î´ catalysts: Synergetic effects and kinetic study. Journal of Catalysis, 2012, 289, 199-209.	3.1	192
4	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.	4.6	173
5	A new nanoporous nitrogen-doped highly-efficient carbonaceous CO2 sorbent synthesized with inexpensive urea and petroleum coke. Carbon, 2015, 81, 465-473.	5.4	158
6	Tetraethylenepentamine-Modified Siliceous Mesocellular Foam (MCF) for CO₂ Capture. Industrial & Engineering Chemistry Research, 2013, 52, 4221-4228.	1.8	120
7	Amine-modified ordered mesoporous silica: The effect of pore size on CO2 capture performance. Applied Surface Science, 2015, 324, 286-292.	3.1	92
8	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.	3.2	92
9	In Situ FT-IR Study of Photocatalytic Decomposition of Formic Acid to Hydrogen on Pt/TiO2 Catalyst. Chinese Journal of Catalysis, 2008, 29, 105-107.	6.9	84
10	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.	1.8	75
11	CO2 removal from flue gas with amine-impregnated titanate nanotubes. Nano Energy, 2016, 25, 1-8.	8.2	69
12	Nickel-Catalyzed Fabrication of SiO2, TiO2/Graphitized Carbon, and the Resultant Graphitized Carbon with Periodically Macroporous Structure. Chemistry of Materials, 2007, 19, 477-484.	3.2	68
13	Enhancement of CO2 adsorption and amine efficiency of titania modified by moderate loading of diethylenetriamine. Journal of Materials Chemistry A, 2013, 1, 6208.	5.2	63
14	Capturing CO₂ with Amine-Impregnated Titanium Oxides. Energy & Fuels, 2013, 27, 5433-5439.	2.5	57
15	Nitrogen-doped porous carbon spheres derived from <scp>d</scp>-glucose as highly-efficient CO₂ sorbents. RSC Advances, 2015, 5, 37964-37969.	1.7	57
16	Asymmetric hydroformylation of olefins catalyzed by rhodium nanoparticles chirally stabilized with (R)-BINAP ligand. Journal of Molecular Catalysis A, 2008, 283, 15-22.	4.8	55
17	Facile synthesis of nitrogen-enriched nanoporous carbon materials for high performance supercapacitors. Journal of Colloid and Interface Science, 2019, 538, 199-208.	5.0	52
18	N-doped carbons with hierarchically micro- and mesoporous structure derived from sawdust for high performance supercapacitors. Microporous and Mesoporous Materials, 2019, 279, 323-333.	2.2	50

#	Article	IF	Citations
19	Charge Transfer between Triphenyl Phosphine and Colloidal Silver:â€‰ A SERS Study Combined with DFT Calculations. Journal of Physical Chemistry C, 2007, 111, 8632-8637.	1.5	41
20	Effect of reduction temperature on Ruâ€“Ir/ZnO catalyst for selective hydrogenation of crotonaldehyde. Journal of Molecular Catalysis A, 2014, 392, 89-96.	4.8	40
21	N-doped hierarchically micro- and mesoporous carbons with superior performance in supercapacitors. Electrochimica Acta, 2018, 291, 103-113.	2.6	40
22	Tetraethylenepentamine modified protonated titanate nanotubes for CO 2 capture. Fuel Processing Technology, 2015, 138, 663-669.	3.7	39
23	Stable Ir/SiO2 catalyst for selective hydrogenation of crotonaldehyde. Applied Surface Science, 2013, 270, 388-394.	3.1	38
24	Probing different effects of surface MOy and Mn+ species (M=Cu, Ni, Co, Fe) for xMOy/Ce0.9M0.1â^'xO2â^'Î´ catalysts in CO oxidation. Applied Catalysis B: Environmental, 2014, 144, 325-332.	10.8	37
25	The effect of post-processing conditions on aminosilane functionalizaiton of mesocellular silica foam for post-combustion CO2 capture. Fuel, 2014, 123, 66-72.	3.4	37
26	CO2 Capture with Activated Carbons Prepared by Petroleum Coke and KOH at Low Pressure. Water, Air, and Soil Pollution, 2013, 224, 1.	1.1	36
27	Tetraethylenepentamine-Modified Silica Nanotubes for Low-Temperature CO₂ Capture. Energy & Fuels, 2013, 27, 7673-7680.	2.5	36
28	Selective Hydrogenation of Crotonaldehyde over Irâ€“FeO_x/SiO₂ Catalysts: Enhancement of Reactivity and Stability by Irâ€“FeO_x Interaction. Journal of Physical Chemistry C, 2016, 120, 8663-8673.	1.5	32
29	Adsorption of Ethanediamine on Colloidal Silver:â€‰ A Surface-Enhanced Raman Spectroscopy Study Combined with Density Functional Theory Calculations. Journal of Physical Chemistry C, 2007, 111, 11267-11274.	1.5	30
30	Characterizations of Ru/ZnO catalysts with different Ru contents for selective hydrogenation of crotonaldehyde. Journal of Industrial and Engineering Chemistry, 2013, 19, 250-255.	2.9	26
31	CO₂ Adsorption and Desorption on MgO/Al₂O₃: An In Situ Diffuse Reflection Infrared Fourier Transform Spectroscopy (DRIFTS) Study. Applied Spectroscopy, 2012, 66, 122-127.	1.2	25
32	Cr₂O₃ Catalysts for Fluorination of 2-Chloro-3,3,3-trifluoropropene to 2,3,3,3-Tetrafluoropropene. Industrial & Engineering Chemistry Research, 2013, 52, 3295-3299.	1.8	20
33	Great improvement on the selective hydrogenation of crotonaldehyde over CrO_x- and FeO_x-promoted Ir/SiO₂ catalysts. Catalysis Science and Technology, 2016, 6, 4294-4305.	2.1	20
34	Promoting effect of Ir on the catalytic property of Ru/ZnO catalysts for selective hydrogenation of crotonaldehyde. Applied Surface Science, 2013, 280, 179-185.	3.1	19
35	Synthesis of nitrogen-doped carbon with three-dimensional mesostructures for CO2 capture. Journal of Materials Science, 2015, 50, 1221-1227.	1.7	19
36	Hydrogen Adsorption and Oxidation on Pt Film: An in Situ Real-Time Attenuated Total Reflection Infrared (ATR-IR) Spectroscopic Study. Journal of Physical Chemistry C, 2013, 117, 12537-12543.	1.5	18

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37	Robust â€œdry amineâ€•solid CO2 sorbent synthesized by a facile, cost-effective and environmental friendly pathway. Chemical Engineering Journal, 2021, 404, 126447.	6.6	18
38	Solid state reaction of MoO3â€“CeO2 complex oxide studied by Raman spectroscopy. Solid State Sciences, 2011, 13, 2096-2099.	1.5	17
39	Effects of Ir content on selective hydrogenation of crotonaldehyde over Ir/ZrO2 catalysts. Catalysis Communications, 2012, 21, 5-8.	1.6	17
40	Kinetic and activity study of CO oxidation over CuOâ€“MnOxâ€“CeO2 catalysts. Reaction Kinetics, Mechanisms and Catalysis, 2016, 117, 503-520.	0.8	17
41	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.	1.5	15
42	The volume expansion effect of amine during CO2 adsorption process: An experimental study combined with theoretical calculations. Journal of Colloid and Interface Science, 2020, 572, 190-197.	5.0	9
43	Coadsorption of trimethyl phosphine and thiocyanate on colloidal silver: a SERS study combined with theoretical calculations. Journal of Raman Spectroscopy, 2009, 40, 387-393.	1.2	8
44	Gas phase hydrogenolysis of methyl difluoroacetate to 1,1-difluoroethanol over Ru/C catalysts. Journal of Fluorine Chemistry, 2013, 145, 132-135.	0.9	7
45	Co-adsorption of hydrogen and CO on Pt film: AnÂin-situ ATR-IR study combined with DFT calculations. International Journal of Hydrogen Energy, 2013, 38, 13673-13679.	3.8	6
46	In Situ Real-Time Diffuse Reflection Infrared Fourier Transform Spectroscopy (DRIFTS) Study of Hydrogen Adsorption and Desorption on Ir/SiO2 Catalyst. Applied Spectroscopy, 2012, 66, 600-605.	1.2	5
47	CO Desorption Ability from Pt Enhanced by Al₂O₃: An in Situ Real-Time Attenuated Total Reflection Infrared Investigation. Journal of Physical Chemistry C, 2012, 116, 6247-6250.	1.5	5
48	Highly selective gas-phase synthesis of 1,1-dichloroethylene from 1,1,2-trichloroethane over supported amine catalysts. Chemical Research in Chinese Universities, 2015, 31, 787-791.	1.3	5
49	Porous carbons derived from potato for high-performancesupercapacitors. Ionics, 2020, 26, 6319-6329.	1.2	5
50	One-pot synthesis of nitrogen-doped carbons with hierarchically micro- and mesoporous structures for supercapacitors and CO₂ capture. New Journal of Chemistry, 2021, 45, 6618-6629.	1.4	5
51	Hydrogen adsorption on high surface area Cr2 O3 materials. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1920-1924.	0.8	3
52	Effect of amine structure on CO2 capture performance of amine-modified SBA-15. Chemical Research in Chinese Universities, 2017, 33, 666-671.	1.3	2
53	CO and C3H8 total oxidation over Pd catalysts supported on commercial Ce-Zr solid solution: Effects of the calcination temperature and hydrothermal treatment. Chemical Research in Chinese Universities, 2015, 31, 288-293.	1.3	1