

Gengshen Hu

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3760596/publications.pdf>

Version: 2024-02-01

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	Robust α -dry amine β -solid CO ₂ sorbent synthesized by a facile, cost-effective and environmental friendly pathway. <i>Chemical Engineering Journal</i> , 2021, 404, 126447.	6.6	18
2	One-pot synthesis of nitrogen-doped carbons with hierarchically micro- and mesoporous structures for supercapacitors and CO ₂ capture. <i>New Journal of Chemistry</i> , 2021, 45, 6618-6629.	1.4	5
3	Porous carbons derived from potato for high-performance supercapacitors. <i>Ionics</i> , 2020, 26, 6319-6329.	1.2	5
4	The volume expansion effect of amine during CO ₂ adsorption process: An experimental study combined with theoretical calculations. <i>Journal of Colloid and Interface Science</i> , 2020, 572, 190-197.	5.0	9
5	N-doped carbons with hierarchically micro- and mesoporous structure derived from sawdust for high performance supercapacitors. <i>Microporous and Mesoporous Materials</i> , 2019, 279, 323-333.	2.2	50
6	Facile synthesis of nitrogen-enriched nanoporous carbon materials for high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 199-208.	5.0	52
7	N-doped hierarchically micro- and mesoporous carbons with superior performance in supercapacitors. <i>Electrochimica Acta</i> , 2018, 291, 103-113.	2.6	40
8	Effect of amine structure on CO ₂ capture performance of amine-modified SBA-15. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 666-671.	1.3	2
9	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.	3.2	92
10	Selective Hydrogenation of Crotonaldehyde over Ir β -FeO _x /SiO ₂ Catalysts: Enhancement of Reactivity and Stability by Ir β -FeO _x Interaction. <i>Journal of Physical Chemistry C</i> , 2016, 120, 8663-8673.	1.5	32
11	CO ₂ removal from flue gas with amine-impregnated titanate nanotubes. <i>Nano Energy</i> , 2016, 25, 1-8.	8.2	69
12	Role of surface Ni and Ce species of Ni/CeO ₂ catalyst in CO ₂ methanation. <i>Applied Surface Science</i> , 2016, 383, 248-252.	3.1	257
13	Great improvement on the selective hydrogenation of crotonaldehyde over CrO _x - and FeO _x -promoted Ir/SiO ₂ catalysts. <i>Catalysis Science and Technology</i> , 2016, 6, 4294-4305.	2.1	20
14	Enhanced CO ₂ Capture Capacity of Nitrogen-Doped Biomass-Derived Porous Carbons. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 1439-1445.	3.2	313
15	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.	1.8	75
16	Kinetic and activity study of CO oxidation over Cu β -MnO β -CeO ₂ catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 117, 503-520.	0.8	17
17	Highly Cost-Effective Nitrogen-Doped Porous Coconut Shell-Based CO ₂ Sorbent Synthesized by Combining Ammoxidation with KOH Activation. <i>Environmental Science & Technology</i> , 2015, 49, 7063-7070.	4.6	173
18	Nitrogen-doped porous carbon spheres derived from α -D-glucose as highly-efficient CO ₂ sorbents. <i>RSC Advances</i> , 2015, 5, 37964-37969.	1.7	57

#	ARTICLE	IF	CITATIONS
19	CO and C ₃ H ₈ total oxidation over Pd catalysts supported on commercial Ce-Zr solid solution: Effects of the calcination temperature and hydrothermal treatment. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 288-293.	1.3	1
20	Highly selective gas-phase synthesis of 1,1-dichloroethylene from 1,1,2-trichloroethane over supported amine catalysts. <i>Chemical Research in Chinese Universities</i> , 2015, 31, 787-791.	1.3	5
21	Tetraethylenepentamine modified protonated titanate nanotubes for CO ₂ capture. <i>Fuel Processing Technology</i> , 2015, 138, 663-669.	3.7	39
22	Synthesis of nitrogen-doped carbon with three-dimensional mesostructures for CO ₂ capture. <i>Journal of Materials Science</i> , 2015, 50, 1221-1227.	1.7	19
23	Amine-modified ordered mesoporous silica: The effect of pore size on CO ₂ capture performance. <i>Applied Surface Science</i> , 2015, 324, 286-292.	3.1	92
24	A new nanoporous nitrogen-doped highly-efficient carbonaceous CO ₂ sorbent synthesized with inexpensive urea and petroleum coke. <i>Carbon</i> , 2015, 81, 465-473.	5.4	158
25	Probing different effects of surface MO _y and Mn ⁺ species (M=Cu, Ni, Co, Fe) for xMO _y /Ce _{0.9} M _{0.1} xO ₂ catalysts in CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 325-332.	10.8	37
26	Effect of reduction temperature on Ru/Ir/ZnO catalyst for selective hydrogenation of crotonaldehyde. <i>Journal of Molecular Catalysis A</i> , 2014, 392, 89-96.	4.8	40
27	The effect of post-processing conditions on aminosilane functionalization of mesocellular silica foam for post-combustion CO ₂ capture. <i>Fuel</i> , 2014, 123, 66-72.	3.4	37
28	Capturing CO ₂ with Amine-Impregnated Titanium Oxides. <i>Energy & Fuels</i> , 2013, 27, 5433-5439.	2.5	57
29	Promoting effect of Ir on the catalytic property of Ru/ZnO catalysts for selective hydrogenation of crotonaldehyde. <i>Applied Surface Science</i> , 2013, 280, 179-185.	3.1	19
30	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.	1.1	36
31	Stable Ir/SiO ₂ catalyst for selective hydrogenation of crotonaldehyde. <i>Applied Surface Science</i> , 2013, 270, 388-394.	3.1	38
32	Gas phase hydrogenolysis of methyl difluoroacetate to 1,1-difluoroethanol over Ru/C catalysts. <i>Journal of Fluorine Chemistry</i> , 2013, 145, 132-135.	0.9	7
33	Tetraethylenepentamine-Modified Silica Nanotubes for Low-Temperature CO ₂ Capture. <i>Energy & Fuels</i> , 2013, 27, 7673-7680.	2.5	36
34	Co-adsorption of hydrogen and CO on Pt film: An in-situ ATR-IR study combined with DFT calculations. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 13673-13679.	3.8	6
35	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.	5.2	63
36	Hydrogen Adsorption and Oxidation on Pt Film: An in Situ Real-Time Attenuated Total Reflection Infrared (ATR-IR) Spectroscopic Study. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12537-12543.	1.5	18

#	ARTICLE	IF	CITATIONS
37	Characterizations of Ru/ZnO catalysts with different Ru contents for selective hydrogenation of crotonaldehyde. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 250-255.	2.9	26
38	Cr ₂ O ₃ Catalysts for Fluorination of 2-Chloro-3,3,3-trifluoropropene to 2,3,3,3-Tetrafluoropropene. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 3295-3299.	1.8	20
39	Tetraethylenepentamine-Modified Siliceous Mesocellular Foam (MCF) for CO ₂ Capture. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 4221-4228.	1.8	120
40	Hydrogen adsorption on high surface area Cr ₂ O ₃ materials. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1920-1924.	0.8	3
41	CO ₂ Adsorption and Desorption on MgO/Al ₂ O ₃ : An In Situ Diffuse Reflection Infrared Fourier Transform Spectroscopy (DRIFTS) Study. <i>Applied Spectroscopy</i> , 2012, 66, 122-127.	1.2	25
42	In Situ Real-Time Diffuse Reflection Infrared Fourier Transform Spectroscopy (DRIFTS) Study of Hydrogen Adsorption and Desorption on Ir/SiO ₂ Catalyst. <i>Applied Spectroscopy</i> , 2012, 66, 600-605.	1.2	5
43	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.	1.5	15
44	CO Desorption Ability from Pt Enhanced by Al ₂ O ₃ : An in Situ Real-Time Attenuated Total Reflection Infrared Investigation. <i>Journal of Physical Chemistry C</i> , 2012, 116, 6247-6250.	1.5	5
45	Effects of Ir content on selective hydrogenation of crotonaldehyde over Ir/ZrO ₂ catalysts. <i>Catalysis Communications</i> , 2012, 21, 5-8.	1.6	17
46	CO oxidation over CuO/Ce _{1-x} Cu _x O ₂ and Ce _{1-x} Cu _x O ₂ catalysts: Synergetic effects and kinetic study. <i>Journal of Catalysis</i> , 2012, 289, 199-209.	3.1	192
47	Solid state reaction of MoO ₃ ·CeO ₂ complex oxide studied by Raman spectroscopy. <i>Solid State Sciences</i> , 2011, 13, 2096-2099.	1.5	17
48	Coadsorption of trimethyl phosphine and thiocyanate on colloidal silver: a SERS study combined with theoretical calculations. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 387-393.	1.2	8
49	In Situ FT-IR Study of Photocatalytic Decomposition of Formic Acid to Hydrogen on Pt/TiO ₂ Catalyst. <i>Chinese Journal of Catalysis</i> , 2008, 29, 105-107.	6.9	84
50	Asymmetric hydroformylation of olefins catalyzed by rhodium nanoparticles chirally stabilized with (R)-BINAP ligand. <i>Journal of Molecular Catalysis A</i> , 2008, 283, 15-22.	4.8	55
51	Charge Transfer between Triphenyl Phosphine and Colloidal Silver: A SERS Study Combined with DFT Calculations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 8632-8637.	1.5	41
52	Adsorption of Ethanediamine on Colloidal Silver: A Surface-Enhanced Raman Spectroscopy Study Combined with Density Functional Theory Calculations. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11267-11274.	1.5	30
53	Nickel-Catalyzed Fabrication of SiO ₂ , TiO ₂ /Graphitized Carbon, and the Resultant Graphitized Carbon with Periodically Macroporous Structure. <i>Chemistry of Materials</i> , 2007, 19, 477-484.	3.2	68