

# Arash Arami-Niya

## List of Publications by Year in descending order

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47  
papers

2,427  
citations

304368

22  
h-index

223531

46  
g-index

48  
all docs

48  
docs citations

48  
times ranked

2902  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ammonia modification of activated carbon to enhance carbon dioxide adsorption: Effect of pre-oxidation. <i>Applied Surface Science</i> , 2011, 257, 3936-3942.	3.1	274
2	The effects of a microwave heating method on the production of activated carbon from agricultural waste: A review. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 100, 1-11.	2.6	252
3	Utilization of oil palm tree residues to produce bio-oil and bio-char via pyrolysis. <i>Energy Conversion and Management</i> , 2013, 76, 1073-1082.	4.4	178
4	Characterization of Bio-oil and Bio-char from Pyrolysis of Palm Oil Wastes. <i>Bioenergy Research</i> , 2013, 6, 830-840.	2.2	175
5	Production of microporous palm shell based activated carbon for methane adsorption: Modeling and optimization using response surface methodology. <i>Chemical Engineering Research and Design</i> , 2012, 90, 776-784.	2.7	140
6	Activated carbon monoliths with hierarchical pore structure from tar pitch and coal powder for the adsorption of CO <sub>2</sub> , CH <sub>4</sub> and N <sub>2</sub> . <i>Carbon</i> , 2016, 103, 115-124.	5.4	116
7	Comparative study of the textural characteristics of oil palm shell activated carbon produced by chemical and physical activation for methane adsorption. <i>Chemical Engineering Research and Design</i> , 2011, 89, 657-664.	2.7	113
8	Using granular activated carbon prepared from oil palm shell by ZnCl <sub>2</sub> and physical activation for methane adsorption. <i>Journal of Analytical and Applied Pyrolysis</i> , 2010, 89, 197-203.	2.6	105
9	The application of response surface methodology to optimize the amination of activated carbon for the preparation of carbon dioxide adsorbents. <i>Fuel</i> , 2012, 94, 465-472.	3.4	105
10	Comparison of oil palm shell-based activated carbons produced by microwave and conventional heating methods using zinc chloride activation. <i>Journal of Analytical and Applied Pyrolysis</i> , 2013, 104, 176-184.	2.6	100
11	Preparation of granular activated carbon from oil palm shell by microwave-induced chemical activation: Optimisation using surface response methodology. <i>Chemical Engineering Research and Design</i> , 2013, 91, 2447-2456.	2.7	86
12	Gate opening effect of zeolitic imidazolate framework ZIF-7 for adsorption of CH <sub>4</sub> and CO <sub>2</sub> from N <sub>2</sub> . <i>Journal of Materials Chemistry A</i> , 2017, 5, 21389-21399.	5.2	67
13	Kinetics of gasification of coal, biomass and their blends in air (N <sub>2</sub> /O <sub>2</sub> ) and different oxy-fuel (O <sub>2</sub> /CO <sub>2</sub> ) atmospheres. <i>Energy</i> , 2012, 37, 665-672.	4.5	64
14	Thermodynamic properties of hydrofluoroolefin (R1234yf and R1234ze(E)) refrigerant mixtures: Density, vapour-liquid equilibrium, and heat capacity data and modelling. <i>International Journal of Refrigeration</i> , 2019, 98, 249-260.	1.8	58
15	Nitrogen-Doped Carbon Foams Synthesized from Banana Peel and Zinc Complex Template for Adsorption of CO <sub>2</sub> , CH <sub>4</sub> , and N <sub>2</sub> . <i>Energy &amp; Fuels</i> , 2016, 30, 7298-7309.	2.5	52
16	Microwave-assisted production of activated carbons from oil palm shell in the presence of CO <sub>2</sub> or N <sub>2</sub> for CO <sub>2</sub> adsorption. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 24, 196-205.	2.9	48
17	Preparation and Characterization of Activated Carbon from Apple Waste by Microwave-Assisted Phosphoric Acid Activation: Application in Methylene Blue Adsorption. <i>BioResources</i> , 2013, 8, .	0.5	41
18	Anchoring a halogenated amine on the surface of a microporous activated carbon for carbon dioxide capture. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 774-779.	2.7	39

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19	Recovery of Liquid Fuel from the Aqueous Phase of Pyrolysis Oil Using Catalytic Conversion. <i>Energy &amp; Fuels</i> , 2014, 28, 3074-3085.	2.5	35
20	Measurement and modelling of the thermodynamic properties of carbon dioxide mixtures with HFO-1234yf, HFC-125, HFC-134a, and HFC-32: vapour-liquid equilibrium, density, and heat capacity. <i>International Journal of Refrigeration</i> , 2020, 118, 514-528.	1.8	33
21	Study of various curved-blade impeller geometries on power consumption in stirred vessel using response surface methodology. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2013, 44, 192-201.	2.7	30
22	Minimum ignition energies and laminar burning velocities of ammonia, HFO-1234yf, HFC-32 and their mixtures with carbon dioxide, HFC-125 and HFC-134a. <i>Journal of Hazardous Materials</i> , 2021, 407, 124781.	6.5	24
23	Thermal conductivity measurements and correlations of pure R1243zf and binary mixtures of R32+R1243zf and R32+R1234yf. <i>International Journal of Refrigeration</i> , 2021, 131, 990-999.	1.8	22
24	Thermal conductivity measurements of refrigerant mixtures containing hydrofluorocarbons (HFC-32), Tj ETQq0 0 0 rgBT /Overlock 10 Tf Thermodynamics, 2020, 151, 106248.	1.0	20
25	Temperature dependence of adsorption hysteresis in flexible metal organic frameworks. <i>Communications Chemistry</i> , 2020, 3, .	2.0	20
26	Viscosity Measurements of Binary and Multicomponent Refrigerant Mixtures Containing HFC-32, HFC-125, HFC-134a, HFO-1234yf, and CO <sub>2</sub> . <i>Journal of Chemical &amp; Engineering Data</i> , 2020, 65, 4252-4262.	1.0	19
27	Production of Palm Shell-Based Activated Carbon with More Homogeneous Pore Size Distribution. <i>Journal of Applied Sciences</i> , 2010, 10, 3361-3366.	0.1	19
28	Experimental and simulation study of the effect of surface functional groups decoration on CH <sub>4</sub> and H <sub>2</sub> storage capacity of microporous carbons. <i>Applied Surface Science</i> , 2020, 533, 147487.	3.1	18
29	Viscosity of binary refrigerant mixtures of R32+R1234yf and R32+R1243zf. <i>International Journal of Refrigeration</i> , 2021, 128, 197-197.	1.8	17
30	Superior performance of modified pitch-based adsorbents for cyclic methane storage. <i>Journal of Energy Storage</i> , 2020, 28, 101251.	3.9	16
31	Gas storage potential and electrohydraulic discharge (EHD) stimulation of coal seam interburden from the Surat Basin. <i>International Journal of Coal Geology</i> , 2019, 208, 24-36.	1.9	14
32	Gravimetric adsorption measurements of helium on natural clinoptilolite and synthetic molecular sieves at pressures up to 3500 kPa. <i>Microporous and Mesoporous Materials</i> , 2017, 244, 218-225.	2.2	13
33	Net, Excess, and Absolute Adsorption of N <sub>2</sub> , CH <sub>4</sub> , and CO <sub>2</sub> on Metal-Organic Frameworks of ZIF-8, MIL-101(Cr), and UiO-66 at 282–361 K and up to 12 MPa. <i>Journal of Chemical &amp; Engineering Data</i> , 2021, 66, 404-414.	1.0	12
34	Measurements of helium adsorption on natural clinoptilolite at temperatures from (123.15 to 423.15) K and pressures up to 35 MPa. <i>Separation and Purification Technology</i> , 2019, 223, 1-9.	3.9	11
35	Flexible Adsorbents at High Pressure: Observations and Correlation of ZIF-7 Stepped Sorption Isotherms for Nitrogen, Argon, and Other Gases. <i>Langmuir</i> , 2020, 36, 14967-14977.	1.6	10
36	Influence of Mineral Composition of Chars Derived by Hydrothermal Carbonization on Sorption Behavior of CO <sub>2</sub> , CH <sub>4</sub> , and O <sub>2</sub> . <i>ACS Omega</i> , 2020, 5, 10704-10714.	1.6	10

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37	Vapor-Liquid Equilibria for Carbon Dioxide + 3,3,3-Trifluoropropene Binary Mixtures at Temperatures between (288 and 348) K. Journal of Chemical & Engineering Data, 2021, 66, 4044-4055.	1.0	9
38	Comparative Study between Regression and Soft Computing Models to Maximize the Methane Storage Capacity of Anthracite-Based Adsorbents. Industrial & Engineering Chemistry Research, 2020, 59, 1875-1887.	1.8	8
39	Natural gas density measurements and the impact of accuracy on process design. Fuel, 2021, 304, 121395.	3.4	7
40	Application of central composite design for preparation of Kenaf fiber based activated carbon for adsorption of manganese (II) ion. African Journal of Business Management, 2011, 6, .	0.4	6
41	Gas Diffusion and Sorption in Carbon Conversion. Energy Procedia, 2019, 158, 1792-1797.	1.8	5
42	Temperature effect on the synthesis of iron-cobalt nano-particles using catalytic chemical vapor deposition of CO <sub>2</sub> in thermo-gravimetric analyzer: Analytical and thermodynamic studies. Nano Structures Nano Objects, 2019, 18, 100261.	1.9	5
43	Phase equilibrium studies of high-pressure natural gas mixtures with toluene for LNG applications. Fluid Phase Equilibria, 2020, 518, 112620.	1.4	5
44	Dynamic simulation and experimental performance of an adsorbed natural gas system under variable charging conditions. Applied Thermal Engineering, 2022, 206, 118067.	3.0	4
45	Prediction of solid formation conditions in mixed refrigerants with iso-pentane and methane at high pressures and cryogenic temperatures. Energy, 2022, 250, 123789.	4.5	3
46	Liquid and Dense Phase Thermal Conductivity Measurements of CO <sub>2</sub> + N <sub>2</sub> and CO <sub>2</sub> + CH <sub>4</sub> Mixtures at Temperatures from 223 K to 308 K and Pressures up to 20 MPa. Journal of Chemical & Engineering Data, 2021, 66, 4018-4029.	1.0	1
47	Study the effect of preparation conditions of activated carbon from palm shell for methane adsorption. , 2010, , .		0