

Junpei Fujiki

List of Publications by Year in descending order

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21
papers

297
citations

758635

12
h-index

887659

17
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21
all docs

21
docs citations

21
times ranked

462
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement mechanisms of water vapor adsorption rate onto silica-gel in acoustic field. International Journal of Heat and Mass Transfer, 2020, 148, 119088.	2.5	4
2	Water adsorption on nitrogen-doped carbons for adsorption heat pump/desiccant cooling: Experimental and density functional theory calculation studies. Applied Surface Science, 2019, 492, 776-784.	3.1	13
3	Enhancement Mechanism of the CO ₂ Adsorption-Desorption Efficiency of Silica-Supported Tetraethylenepentamine by Chemical Modification of Amino Groups. ACS Sustainable Chemistry and Engineering, 2019, 7, 9574-9581.	3.2	20
4	Analysis of Adsorption of Silica Gel Particles in an Oscillating Flow Field Using CFD. The Proceedings of the Symposium on Environmental Engineering, 2019, 2019.29, J405.	0.0	0
5	Role of silanol groups on silica gel on adsorption of benzothiophene and naphthalene. Fuel, 2018, 215, 463-467.	3.4	17
6	Effect of isopropyl-substituent introduction into tetraethylenepentamine-based solid sorbents for CO ₂ capture. Fuel, 2018, 214, 14-19.	3.4	13
7	A Simple Method for the Determination of Adsorption Kinetic Parameters Using Recycle Fixed-Bed Adsorber. Transport in Porous Media, 2017, 120, 359-372.	1.2	0
8	Development of Post-combustion CO ₂ Capture System Using Amine-impregnated Solid Sorbent. Energy Procedia, 2017, 114, 2304-2312.	1.8	20
9	Highly efficient post-combustion CO ₂ capture by low-temperature steam-aided vacuum swing adsorption using a novel polyamine-based solid sorbent. Chemical Engineering Journal, 2017, 307, 273-282.	6.6	55
10	Applicability of the $K_F a_v$ model in the prediction of fixed bed breakthrough curve. Adsorption Science and Technology, 2017, 35, 178-193.	1.5	4
11	A simplified technique to determine intraparticle diffusivity of macro-reticular resins. Sustainable Environment Research, 2016, 26, 249-254.	2.1	2
12	Density functional theory study of adsorption of benzothiophene and naphthalene on silica gel. Fuel, 2016, 164, 180-185.	3.4	16
13	Enhanced adsorption of carbon dioxide on surface-modified mesoporous silica-supported tetraethylenepentamine: Role of surface chemical structure. Microporous and Mesoporous Materials, 2015, 215, 76-83.	2.2	26
14	Development of Amine-impregnated Solid Sorbents for CO ₂ capture. Energy Procedia, 2014, 63, 2346-2350.	1.8	18
15	Carbon Dioxide Adsorption onto Polyethylenimine-Functionalized Porous Chitosan Beads. Energy & Fuels, 2014, 28, 6467-6474.	2.5	50
16	Simplified Determination Method of Intraparticle Diffusivity Within a Resin Adsorbent from Binary-Component Liquid Adsorption Uptake Curves. Transport in Porous Media, 2014, 102, 349-364.	1.2	2
17	Polyethyleneimine-functionalized Biomass-derived Adsorbent Beads for Carbon Dioxide Capture under Ambient Conditions. Chemistry Letters, 2013, 42, 1484-1486.	0.7	4
18	Experimental determination of fluid-film mass transfer coefficient from adsorption uptake curve. Chemical Engineering Journal, 2011, 173, 49-54.	6.6	12

#	ARTICLE	IF	CITATIONS
19	Computational Study on Optimization of a Single Fixed-Bed Adsorber for Separation of a Multi-Component Mixture. Journal of Chemical Engineering of Japan, 2011, 44, 164-170.	0.3	0
20	Experimental determination of intraparticle diffusivity and fluid film mass transfer coefficient using batch contactors. Chemical Engineering Journal, 2010, 160, 683-690.	6.6	15
21	Computer-aided design of surface modified adsorbent for adsorption of 5-hydroxy-methyl-furfural. Separation and Purification Technology, 2008, 60, 223-229.	3.9	6