

# Junpei Fujiki

## List of Publications by Year in descending order

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Version: 2024-02-01

21  
papers

297  
citations

758635

12  
h-index

887659

17  
g-index

21  
all docs

21  
docs citations

21  
times ranked

462  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient post-combustion CO <sub>2</sub> capture by low-temperature steam-aided vacuum swing adsorption using a novel polyamine-based solid sorbent. <i>Chemical Engineering Journal</i> , 2017, 307, 273-282.	6.6	55
2	Carbon Dioxide Adsorption onto Polyethylenimine-Functionalized Porous Chitosan Beads. <i>Energy &amp; Fuels</i> , 2014, 28, 6467-6474.	2.5	50
3	Enhanced adsorption of carbon dioxide on surface-modified mesoporous silica-supported tetraethylenepentamine: Role of surface chemical structure. <i>Microporous and Mesoporous Materials</i> , 2015, 215, 76-83.	2.2	26
4	Development of Post-combustion CO <sub>2</sub> Capture System Using Amine-impregnated Solid Sorbent. <i>Energy Procedia</i> , 2017, 114, 2304-2312.	1.8	20
5	Enhancement Mechanism of the CO <sub>2</sub> Adsorptionâ€“Desorption Efficiency of Silica-Supported Tetraethylenepentamine by Chemical Modification of Amino Groups. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 9574-9581.	3.2	20
6	Development of Amine-impregnated Solid Sorbents for CO <sub>2</sub> capture. <i>Energy Procedia</i> , 2014, 63, 2346-2350.	1.8	18
7	Role of silanol groups on silica gel on adsorption of benzothiophene and naphthalene. <i>Fuel</i> , 2018, 215, 463-467.	3.4	17
8	Density functional theory study of adsorption of benzothiophene and naphthalene on silica gel. <i>Fuel</i> , 2016, 164, 180-185.	3.4	16
9	Experimental determination of intraparticle diffusivity and fluid film mass transfer coefficient using batch contactors. <i>Chemical Engineering Journal</i> , 2010, 160, 683-690.	6.6	15
10	Effect of isopropyl-substituent introduction into tetraethylenepentamine-based solid sorbents for CO <sub>2</sub> capture. <i>Fuel</i> , 2018, 214, 14-19.	3.4	13
11	Water adsorption on nitrogen-doped carbons for adsorption heat pump/desiccant cooling: Experimental and density functional theory calculation studies. <i>Applied Surface Science</i> , 2019, 492, 776-784.	3.1	13
12	Experimental determination of fluid-film mass transfer coefficient from adsorption uptake curve. <i>Chemical Engineering Journal</i> , 2011, 173, 49-54.	6.6	12
13	Computer-aided design of surface modified adsorbent for adsorption of 5-hydroxy-methyl-furfural. <i>Separation and Purification Technology</i> , 2008, 60, 223-229.	3.9	6
14	Polyethyleneimine-functionalized Biomass-derived Adsorbent Beads for Carbon Dioxide Capture under Ambient Conditions. <i>Chemistry Letters</i> , 2013, 42, 1484-1486.	0.7	4
15	Applicability of the $K_F a_v$ model in the prediction of fixed bed breakthrough curve. <i>Adsorption Science and Technology</i> , 2017, 35, 178-193.	1.5	4
16	Enhancement mechanisms of water vapor adsorption rate onto silica-gel in acoustic field. <i>International Journal of Heat and Mass Transfer</i> , 2020, 148, 119088.	2.5	4
17	Simplified Determination Method of Intraparticle Diffusivity Within a Resin Adsorbent from Binary-Component Liquid Adsorption Uptake Curves. <i>Transport in Porous Media</i> , 2014, 102, 349-364.	1.2	2
18	A simplified technique to determine intraparticle diffusivity of macro-reticular resins. <i>Sustainable Environment Research</i> , 2016, 26, 249-254.	2.1	2

#	ARTICLE	IF	CITATIONS
19	A Simple Method for the Determination of Adsorption Kinetic Parameters Using Recycle Fixed-Bed Adsorber. <i>Transport in Porous Media</i> , 2017, 120, 359-372.	1.2	0
20	Computational Study on Optimization of a Single Fixed-Bed Adsorber for Separation of a Multi-Component Mixture. <i>Journal of Chemical Engineering of Japan</i> , 2011, 44, 164-170.	0.3	0
21	Analysis of Adsorption of Silica Gel Particles in an Oscillating Flow Field Using CFD. <i>The Proceedings of the Symposium on Environmental Engineering</i> , 2019, 2019.29, J405.	0.0	0