Ikuo Ushiki

List of Publications by Year
in descending order

33	471	567144 15	713332 21
papers	citations	h-index	g-index

33	33	33	263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Adsorption equilibria of rhodium acetylacetonate with MCM-41, MSU-H, and HMS silica substrates in supercritical carbon dioxide for preparing catalytic mesoporous materials. Journal of Supercritical Fluids, 2017, 120, 240-248.	1.6	31
2	Measurements and Dubininâ€“Astakhov correlation of adsorption equilibria of toluene, acetone, n-hexane, n-decane and methanol solutes in supercritical carbon dioxide on activated carbon at temperature from 313 to 353 K and at pressure from 4.2 to 15.0 MPa. Fluid Phase Equilibria, 2013, 344, 101-107.	1.4	30
3	Preparation of mesoporous silica supported cobalt catalysts using supercritical fluids for Fischerâ€“Tropsch synthesis. Chemical Engineering Research and Design, 2015, 95, 64-68.	2.7	27
4	Solubilities and diffusion coefficients of carbon dioxide and nitrogen in poly(methyl methacrylate) at high temperatures and pressures. Journal of Supercritical Fluids, 2019, 152, 104565.	1.6	27
5	Prediction of VOCs adsorption equilibria on activated carbon in supercritical carbon dioxide over a wide range of temperature and pressure by using pure component adsorption data: Combined approach of the Dubininâ€“Astakhov equation and the non-ideal adsorbed solution theory (NIAST). Fluid Phase Equilibria, 2014, 375, 293-305.	1.4	25
6	Measurement and prediction of desorption behavior of five volatile organic compounds (acetone,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 regeneration. Journal of Supercritical Fluids, 2016, 107, 226-233.	1.6	25
7	VOCs (acetone, toluene, and n-hexane) adsorption equilibria on mesoporous silica (MCM-41) over a wide range of supercritical carbon dioxide conditions: Experimental and theoretical approach by the Dubininâ€“Astakhov equation. Fluid Phase Equilibria, 2015, 403, 78-84.	1.4	23
8	Multicomponent (Binary and Ternary) Adsorption Equilibria of Volatile Organic Compounds (Acetone,) Tj ETQq0 0 0 rgBT /Overlock 10 T Engineering Chemistry Research, 2016, 55, 2163-2173.	1.8	23
9	Desorption behavior of various volatile organic compounds from activated carbon in supercritical carbon dioxide: Measurement and kinetic modeling. Journal of Supercritical Fluids, 2017, 121, 41-51.	1.6	23
10	Adsorption equilibria of VOCs (n -octane, propylene glycol monomethyl ether, ethanol, and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 T Equilibria, 2018, 462, 59-64.	1.4	23
11	Adsorption Behavior of Toluene on Activated Carbon under Supercritical Carbon Dioxide Conditions. Journal of Chemical Engineering of Japan, 2012, 45, 931-938.	0.3	19
12	Adsorption kinetics of rhodium (III) acetylacetonate onto mesoporous silica adsorbents in the presence of supercritical carbon dioxide. Journal of Supercritical Fluids, 2018, 135, 137-144.	1.6	18
13	Measurement and modeling of adsorption equilibria of cobalt (III) acetylacetonate on MCM-41 mesoporous silica in the presence of supercritical carbon dioxide with methanol co-solvent. Journal of Supercritical Fluids, 2018, 140, 329-335.	1.6	17
14	Adsorption equilibria of volatile organic compounds on various adsorbents in supercritical carbon dioxide: Measurement and analysis by the Dubinin-Astakhov equation. Fluid Phase Equilibria, 2016, 420, 58-67.	1.4	16
15	Effect of Impregnation Conditions of Cobalt Nano Particles in Mesoporous Silica Using Supercritical Fluid Solvent. Journal of Chemical Engineering of Japan, 2012, 45, 615-621.	0.3	15
16	Predicting the solubilities of metal acetylacetonates in supercritical CO2: Thermodynamic approach using PC-SAFT. Journal of Supercritical Fluids, 2020, 164, 104909.	1.6	15
17	Modeling the solubility of non-steroidal anti-inflammatory drugs (ibuprofen and ketoprofen) in supercritical CO2 using PC-SAFT. Journal of Supercritical Fluids, 2022, 186, 105626.	1.6	14
18	A generalized model for predicting adsorption equilibria of various volatile organic compounds on activated carbon in the presence of supercritical carbon dioxide. Journal of Supercritical Fluids, 2019, 146, 30-37.	1.6	13

#	Article	IF	Citations
19	Solubility and diffusivity of supercritical CO2 for polycaprolactone in its molten state: Measurement and modeling using PC-SAFT and free volume theory. Journal of Supercritical Fluids, 2022, 181, 105499.	1.6	12
20	Thermodynamic Modeling of the Solubility of Acetylacetonate-Type Metal Precursors in Supercritical Carbon Dioxide Using the PC-SAFT Equation of State. Journal of Chemical Engineering of Japan, 2019, 52, 243-252.	0.3	10
21	Measurement and modeling of solubilities and diffusion coefficients of carbon dioxide in poly(ethylene-co-acrylic acid). Journal of Supercritical Fluids, 2020, 158, 104733.	1.6	10
22	A kinetic study of organic compounds (acetone, toluene, n-hexane and n-decane) adsorption behavior on activated carbon under supercritical carbon dioxide conditions at temperature from 313 to 353K and at pressure from 4.2 to 15.0MPa. Journal of Supercritical Fluids, 2014, 95, 187-194.	1.6	9
23	Measurement and correlation of adsorption equilibria of propylene glycol monomethyl ether acetate on activated carbon in the presence of supercritical carbon dioxide. Fluid Phase Equilibria, 2020, 513, 112556.	1.4	8
24	Supercritical Carbon Dioxide Regeneration of Activated Carbon for Exhaust Processing. Kagaku Kogaku Ronbunshu, 2019, 45, 29-34.	0.1	7
25	Measurement and modeling of adsorption equilibria of imidazolium-based ionic liquids on activated carbon from aqueousÂsolutions. Fluid Phase Equilibria, 2017, 441, 17-23.	1.4	6
26	Desorption of propylene glycol monomethyl ether acetate from activated carbon in supercritical CO2: Measurement and predictive modeling. Journal of Supercritical Fluids, 2020, 166, 105018.	1.6	5
27	Influence of Heat Treatment in Exhaust Treatment Process on Activated Carbon Regeneration using Supercritical Carbon Dioxide. Kagaku Kogaku Ronbunshu, 2019, 45, 133-139.	0.1	5
28	Extraction of Template Agents from Porous Silica Using Supercritical Carbon Dioxide-Entrainer Method. Kagaku Kogaku Ronbunshu, 2011, 37, 512-517.	0.1	4
29	Sustainable Approaches for Materials Engineering With Supercritical Carbon Dioxide. , 2020, , 395-414.		3
30	Practical Reuse of Activated Carbon in the Exhaust Facility of Semiconductor Production Factory with Supercritical Carbon Dioxide Regeneration. MATEC Web of Conferences, 2021, 333, 08004.	0.1	3
31	Surface Modification of Porous Silica Using Supercritical Carbon Dioxide. Kagaku Kogaku Ronbunshu, 2012, 38, 391-396.	0.1	3
32	Continuous Wet-Extraction of Hydrocarbon from <i>Botryococcus Braunii</i>. Kagaku Kogaku Ronbunshu, 2018, 44, 103-106.	0.1	1
33	Thermodynamic Modeling of Solubilities of Metal Precursors in Supercritical Carbon Dioxide for Efficient Preparations of Supported Catalysts. Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 2019, 29, 187-193.	0.1	1