

Ikuo Ushiki

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Solubility and diffusivity of supercritical CO ₂ for polycaprolactone in its molten state: Measurement and modeling using PC-SAFT and free volume theory. <i>Journal of Supercritical Fluids</i> , 2022, 181, 105499.	1.6	12
2	Modeling the solubility of non-steroidal anti-inflammatory drugs (ibuprofen and ketoprofen) in supercritical CO ₂ using PC-SAFT. <i>Journal of Supercritical Fluids</i> , 2022, 186, 105626.	1.6	14
3	Practical Reuse of Activated Carbon in the Exhaust Facility of Semiconductor Production Factory with Supercritical Carbon Dioxide Regeneration. <i>MATEC Web of Conferences</i> , 2021, 333, 08004.	0.1	3
4	Sustainable Approaches for Materials Engineering With Supercritical Carbon Dioxide. , 2020, , 395-414.		3
5	Measurement and modeling of solubilities and diffusion coefficients of carbon dioxide in poly(ethylene-co-acrylic acid). <i>Journal of Supercritical Fluids</i> , 2020, 158, 104733.	1.6	10
6	Desorption of propylene glycol monomethyl ether acetate from activated carbon in supercritical CO ₂ : Measurement and predictive modeling. <i>Journal of Supercritical Fluids</i> , 2020, 166, 105018.	1.6	5
7	Measurement and correlation of adsorption equilibria of propylene glycol monomethyl ether acetate on activated carbon in the presence of supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 2020, 513, 112556.	1.4	8
8	Predicting the solubilities of metal acetylacetonates in supercritical CO ₂ : Thermodynamic approach using PC-SAFT. <i>Journal of Supercritical Fluids</i> , 2020, 164, 104909.	1.6	15
9	Solubilities and diffusion coefficients of carbon dioxide and nitrogen in poly(methyl methacrylate) at high temperatures and pressures. <i>Journal of Supercritical Fluids</i> , 2019, 152, 104565.	1.6	27
10	Thermodynamic Modeling of the Solubility of Acetylacetonate-Type Metal Precursors in Supercritical Carbon Dioxide Using the PC-SAFT Equation of State. <i>Journal of Chemical Engineering of Japan</i> , 2019, 52, 243-252.	0.3	10
11	A generalized model for predicting adsorption equilibria of various volatile organic compounds on activated carbon in the presence of supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2019, 146, 30-37.	1.6	13
12	Influence of Heat Treatment in Exhaust Treatment Process on Activated Carbon Regeneration using Supercritical Carbon Dioxide. <i>Kagaku Kogaku Ronbunshu</i> , 2019, 45, 133-139.	0.1	5
13	Supercritical Carbon Dioxide Regeneration of Activated Carbon for Exhaust Processing. <i>Kagaku Kogaku Ronbunshu</i> , 2019, 45, 29-34.	0.1	7
14	Thermodynamic Modeling of Solubilities of Metal Precursors in Supercritical Carbon Dioxide for Efficient Preparations of Supported Catalysts. <i>Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu</i> , 2019, 29, 187-193.	0.1	1
15	Adsorption equilibria of VOCs (n -octane, propylene glycol monomethyl ether, ethanol, and) <i>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf Equilibria</i> , 2018, 462, 59-64.	1.4	23
16	Adsorption kinetics of rhodium (III) acetylacetonate onto mesoporous silica adsorbents in the presence of supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2018, 135, 137-144.	1.6	18
17	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. <i>Journal of Supercritical Fluids</i> , 2018, 140, 329-335.	1.6	17
18	Continuous Wet-Extraction of Hydrocarbon from <i>Botryococcus Braunii</i>. <i>Kagaku Kogaku Ronbunshu</i> , 2018, 44, 103-106.	0.1	1

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19	Measurement and modeling of adsorption equilibria of imidazolium-based ionic liquids on activated carbon from aqueous solutions. <i>Fluid Phase Equilibria</i> , 2017, 441, 17-23.	1.4	6
20	Adsorption equilibria of rhodium acetylacetonate with MCM-41, MSU-H, and HMS silica substrates in supercritical carbon dioxide for preparing catalytic mesoporous materials. <i>Journal of Supercritical Fluids</i> , 2017, 120, 240-248.	1.6	31
21	Desorption behavior of various volatile organic compounds from activated carbon in supercritical carbon dioxide: Measurement and kinetic modeling. <i>Journal of Supercritical Fluids</i> , 2017, 121, 41-51.	1.6	23
22	Adsorption equilibria of volatile organic compounds on various adsorbents in supercritical carbon dioxide: Measurement and analysis by the Dubinin-Astakhov equation. <i>Fluid Phase Equilibria</i> , 2016, 420, 58-67.	1.4	16
23	Multicomponent (Binary and Ternary) Adsorption Equilibria of Volatile Organic Compounds (Acetone,) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> <i>Engineering Chemistry Research</i> , 2016, 55, 2163-2173.	1.8	23
24	Measurement and prediction of desorption behavior of five volatile organic compounds (acetone,) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50</i> regeneration. <i>Journal of Supercritical Fluids</i> , 2016, 107, 226-233.	1.6	25
25	Preparation of mesoporous silica supported cobalt catalysts using supercritical fluids for Fischer-Tropsch synthesis. <i>Chemical Engineering Research and Design</i> , 2015, 95, 64-68.	2.7	27
26	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 Dubinin-Astakhov equation. <i>Fluid Phase Equilibria</i> , 2015, 403, 78-84.	1.4	23
27	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 Dubinin-Astakhov equation and the non-ideal adsorbed solution theory (NIAST). <i>Fluid Phase Equilibria</i> , 2014, 375, 293-305.	1.4	25
28	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. <i>Journal of Supercritical Fluids</i> , 2014, 95, 187-194.	1.6	9
29	Measurements and Dubinin-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. <i>Fluid Phase Equilibria</i> , 2013, 344, 101-107.	1.4	30
30	Effect of Impregnation Conditions of Cobalt Nano Particles in Mesoporous Silica Using Supercritical Fluid Solvent. <i>Journal of Chemical Engineering of Japan</i> , 2012, 45, 615-621.	0.3	15
31	Adsorption Behavior of Toluene on Activated Carbon under Supercritical Carbon Dioxide Conditions. <i>Journal of Chemical Engineering of Japan</i> , 2012, 45, 931-938.	0.3	19
32	Surface Modification of Porous Silica Using Supercritical Carbon Dioxide. <i>Kagaku Kogaku Ronbunshu</i> , 2012, 38, 391-396.	0.1	3
33	Extraction of Template Agents from Porous Silica Using Supercritical Carbon Dioxide-Entrainer Method. <i>Kagaku Kogaku Ronbunshu</i> , 2011, 37, 512-517.	0.1	4