

Albertina Cabañas

List of Publications by Year in descending order

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75
papers

2,423
citations

257450

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h-index

206112

48
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77
all docs

77
docs citations

77
times ranked

2467
citing authors

#	ARTICLE	IF	CITATIONS
1	Deposition of Au nanoparticles into mesoporous SiO ₂ SBA-15. <i>Journal of Supercritical Fluids</i> , 2022, 184, 105582.	3.2	3
2	Functionalization of Silica SBA-15 with [3-(2-Aminoethylamino)Propyl] Trimethoxysilane in Supercritical CO ₂ Modified with Methanol or Ethanol for Carbon Capture. <i>Energies</i> , 2020, 13, 5804.	3.1	13
3	Cocrystallization of the anticancer drug 5-fluorouracil and coformers urea, thiourea or pyrazinamide using supercritical CO ₂ as an antisolvent (SAS) and as a solvent (CSS). <i>Journal of Supercritical Fluids</i> , 2020, 160, 104813.	3.2	28
4	One-step sustainable preparation of superparamagnetic iron oxide nanoparticles supported on mesoporous SiO ₂ . <i>Journal of Supercritical Fluids</i> , 2020, 159, 104775.	3.2	7
5	Preparation of 5-fluorouracil microparticles and 5-fluorouracil/poly(L-lactide) composites by a supercritical CO ₂ antisolvent process. <i>Journal of Supercritical Fluids</i> , 2019, 143, 64-71.	3.2	21
6	Production and Characterization of a New Copper(II) Propanoate-Isonicotinamide Adduct Obtained via Slow Evaporation and using Supercritical CO ₂ as an Antisolvent. <i>Crystal Growth and Design</i> , 2019, 19, 620-629.	3.0	5
7	The parameters that affect the supercritical extraction OF 2,4,6-trichloroanisol from cork. <i>Journal of Supercritical Fluids</i> , 2018, 141, 137-142.	3.2	5
8	Polymorphism in the co-crystallization of the anticonvulsant drug carbamazepine and saccharin using supercritical CO ₂ as an anti-solvent. <i>Journal of Supercritical Fluids</i> , 2018, 136, 60-69.	3.2	26
9	Solubility of the Metal Precursor Ni(NO ₃) ₂ ·6H ₂ O in High-Pressure CO ₂ + Ethanol Mixtures. <i>Journal of Chemical & Engineering Data</i> , 2018, 63, 1065-1071.	1.9	4
10	Thiol group functionalization of mesoporous SiO ₂ SBA-15 using supercritical CO ₂ . <i>Microporous and Mesoporous Materials</i> , 2018, 256, 147-154.	4.4	18
11	Prediction of the best cosolvents to solubilise fatty acids in supercritical CO ₂ using the Hansen solubility theory. <i>Chemical Engineering Science</i> , 2018, 190, 14-20.	3.8	19
12	Designing nanocomposites using supercritical CO ₂ to insert Ni nanoparticles into the pores of nanopatterned BaTiO ₃ thin films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1083-1089.	5.5	8
13	Green preparation of PtRu and PtCu/SBA-15 catalysts using supercritical CO ₂ . <i>Journal of CO₂ Utilization</i> , 2017, 22, 382-391.	6.8	12
14	Supercritical fluid preparation of Pt, Ru and Ni/graphene nanocomposites and their application as selective catalysts in the partial hydrogenation of limonene. <i>Journal of Supercritical Fluids</i> , 2017, 120, 7-17.	3.2	28
15	Phase behaviour of the two binary systems formed by CO ₂ and the silane precursors N-[3-(trimethoxysilyl)propyl]aniline or (3-mercaptopropyl)trimethoxysilane. <i>Journal of Chemical Thermodynamics</i> , 2016, 103, 152-156.	2.0	6
16	Preparation of pharmaceutical co-crystals through sustainable processes using supercritical carbon dioxide: a review. <i>RSC Advances</i> , 2016, 6, 71134-71150.	3.6	62
17	Pharmaceutical co-crystals of the anti-inflammatory drug diflunisal and nicotinamide obtained using supercritical CO ₂ as an antisolvent. <i>Journal of CO₂ Utilization</i> , 2016, 13, 29-37.	6.8	60
18	Deposition of Ni nanoparticles onto porous supports using supercritical CO ₂ : effect of the precursor and reduction methodology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20150014.	3.4	16

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19	Supercritical fluid deposition of Ru nanoparticles onto SiO ₂ SBA-15 as a sustainable method to prepare selective hydrogenation catalysts. RSC Advances, 2015, 5, 38880-38891.	3.6	28
20	A new sustainable route in supercritical CO ₂ to functionalize silica SBA-15 with 3-aminopropyltrimethoxysilane as material for carbon capture. Chemical Engineering Journal, 2015, 264, 886-898.	12.7	37
21	Chemical surface modification of mesoporous silica SBA-15 with a tertiary aminosilane using supercritical carbon dioxide. Microporous and Mesoporous Materials, 2014, 193, 145-153.	4.4	25
22	Dissolution rate enhancement of the anti-inflammatory drug diflunisal by coprecipitation with a biocompatible polymer using carbon dioxide as a supercritical fluid antisolvent. Journal of Supercritical Fluids, 2014, 88, 56-65.	3.2	43
23	Supercritical CO ₂ as a green solvent for eucalyptus and citrus essential oils processing: role of thermal effects upon mixing. RSC Advances, 2013, 3, 6065.	3.6	5
24	Solubility of two metal-organic ruthenium precursors in supercritical CO ₂ and their application in supercritical fluid technology. Journal of Chemical Thermodynamics, 2013, 58, 55-61.	2.0	24
25	Adsorption of Pd(hfac) ₂ on mesoporous silica SBA-15 using supercritical CO ₂ and its role in the performance of Pd@SiO ₂ catalyst. Journal of Supercritical Fluids, 2012, 69, 21-28.	3.2	36
26	Solubility of Pd(hfac) ₂ and Ni(hfac) ₂ ·2H ₂ O in supercritical carbon dioxide pure and modified with ethanol. Journal of Supercritical Fluids, 2012, 70, 106-111.	3.2	36
27	Excess molar enthalpies for mixtures of supercritical CO ₂ and ethyl acetate and their role in supercritical fluid applications. Journal of Chemical Thermodynamics, 2012, 51, 59-64.	2.0	5
28	Numerically Efficient Real Space Theory of Scattering from Colloidal Crystals. Langmuir, 2011, 27, 2219-2228.	3.5	4
29	Role of excess molar enthalpies in supercritical antisolvent micronizations using dimethylsulfoxide as the polar solvent. Journal of Supercritical Fluids, 2011, 60, 45-50.	3.2	14
30	Deposition of Pd into mesoporous silica SBA-15 using supercritical carbon dioxide. Journal of Supercritical Fluids, 2011, 56, 213-222.	3.2	121
31	A novel real space scattering theory: efficient characterization of colloidal crystals. Journal of Physics: Conference Series, 2010, 247, 012012.	0.4	0
32	Measurements and modeling of high-pressure excess molar enthalpies and isothermal vapor-liquid equilibria of the carbon dioxide +N,N-dimethylformamide system. Journal of Supercritical Fluids, 2010, 55, 566-572.	3.2	11
33	Enthalpies of Absorption of Carbon Dioxide in Aqueous Sodium Glycinate Solutions at Temperatures of (313.15 and 323.15) K. Journal of Chemical & Engineering Data, 2010, 55, 1215-1218.	1.9	16
34	Excess Molar Enthalpies of CO ₂ + Acetone at Pressures from (9.00 to 18.00) MPa and Temperatures from (313.15 to 333.15) K. Journal of Chemical & Engineering Data, 2010, 55, 3649-3654.	1.9	17
35	Supercritical fluid extraction of peach (Prunus persica) seed oil using carbon dioxide and ethanol. Journal of Supercritical Fluids, 2009, 49, 167-173.	3.2	101
36	Supercritical CO ₂ as a reaction and impregnation medium in the synthesis of Pd@SiO ₂ aerogel inverse opals. Journal of Supercritical Fluids, 2009, 49, 369-376.	3.2	11

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37	Excess molar enthalpies for mixtures of supercritical CO ₂ and linalool. Journal of Supercritical Fluids, 2008, 46, 265-271.	3.2	4
38	High-pressure phase equilibria for the binary system carbon dioxide + dibenzofuran. Journal of Supercritical Fluids, 2008, 46, 238-244.	3.2	29
39	Cosolvent Effect of Methanol and Acetic Acid on Dibenzofuran Solubility in Supercritical Carbon Dioxide. Journal of Chemical & Engineering Data, 2008, 53, 2649-2653.	1.9	21
40	XAS (XANES and EXAFS) Investigations of Nanoparticulate Ferrites Synthesized Continuously in Near Critical and Supercritical Water. Journal of Physical Chemistry C, 2007, 111, 6252-6262.	3.1	61
41	Excess molar enthalpies for mixtures of supercritical carbon dioxide and 1,8-cineole. Journal of Supercritical Fluids, 2007, 40, 331-335.	3.2	5
42	Excess molar enthalpies for binary mixtures related to supercritical antisolvent precipitation: Carbon dioxide+N-methyl-2-pyrrolidone. Journal of Supercritical Fluids, 2007, 42, 172-179.	3.2	21
43	Studies on the porosity of SiO ₂ -aerogel inverse opals synthesised in supercritical CO ₂ . Microporous and Mesoporous Materials, 2007, 99, 23-29.	4.4	20
44	Synthesis of nanoparticulate yttrium aluminum garnet in supercritical water+ethanol mixtures. Journal of Supercritical Fluids, 2007, 40, 284-292.	3.2	48
45	Excess molar enthalpies for mixtures of carbon dioxide+a modifier (5mol% methanol or 1-octanol) and hexane at 308.15K and 12.40MPa. Fluid Phase Equilibria, 2006, 241, 283-289.	2.5	2
46	Excess molar enthalpies for mixtures of supercritical carbon dioxide and limonene. Fluid Phase Equilibria, 2006, 246, 153-157.	2.5	6
47	Effect of Supercritical CO ₂ in Modified Polystyrene 3D Latex Arrays. Langmuir, 2006, 22, 8966-8974.	3.5	14
48	Excess molar enthalpies for mixtures of supercritical carbon dioxide and water+ethanol solutions. Journal of Supercritical Fluids, 2005, 36, 23-30.	3.2	6
49	Synthesis of ordered macroporous SiO ₂ in supercritical CO ₂ using 3D-latex array templates. Chemical Communications, 2005, , 2618.	4.1	17
50	Synthesis of SiO ₂ -Aerogel Inverse Opals in Supercritical Carbon Dioxide. Chemistry of Materials, 2005, 17, 6137-6145.	6.7	40
51	Deposition of Gold Films and Nanostructures from Supercritical Carbon Dioxide. Chemistry of Materials, 2004, 16, 2028-2033.	6.7	93
52	Alcohol-Assisted Deposition of Copper Films from Supercritical Carbon Dioxide.. ChemInform, 2003, 34, no.	0.0	0
53	Alcohol-Assisted Deposition of Copper Films from Supercritical Carbon Dioxide. Chemistry of Materials, 2003, 15, 2910-2916.	6.7	64
54	Deposition of Cu films from supercritical fluids using Cu(I) β -diketonate precursors. Microelectronic Engineering, 2002, 64, 53-61.	2.4	81

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55	Continuous hydrothermal synthesis of inorganic materials in a near-critical water flow reactor; the one-step synthesis of nano-particulate $Ce_{1-x}Zr_xO_2$ ($x = 0-1$) solid solutions. Journal of Materials Chemistry, 2001, 11, 561-568.	6.7	205
56	The continuous hydrothermal synthesis of nano-particulate ferrites in near critical and supercritical water. Journal of Materials Chemistry, 2001, 11, 1408-1416.	6.7	199
57	Deposition of Conformal Copper and Nickel Films from Supercritical Carbon Dioxide. Science, 2001, 294, 141-145.	12.6	364
58	A continuous and clean one-step synthesis of nano-particulate $Ce_{1-x}Zr_xO_2$ solid solutions in near-critical water. Chemical Communications, 2000, , 901-902.	4.1	100
59	Thermodynamic Study of the $N_2O + CO_2$ and $N_2O + CO_2 +$ Cyclohexane Systems in the Near-Critical and Supercritical Regions. Industrial & Engineering Chemistry Research, 2000, 39, 3566-3575.	3.7	16
60	Excess enthalpies of mixtures of olive oil and supercritical carbon dioxide. Journal of Supercritical Fluids, 1999, 14, 173-180.	3.2	1
61	Self-association and complex formation in alcohol-unsaturated hydrocarbon systems Heat capacities of linear alcohols mixed with alkenes and alkynes. Physical Chemistry Chemical Physics, 1999, 1, 665-674.	2.8	8
62	Calorimetry in the near-critical and supercritical regions. Nitrous oxide + hydrocarbon mixtures. Pure and Applied Chemistry, 1999, 71, 1197-1205.	1.9	2
63	Excess molar enthalpies of nitrous oxide-heptane in the liquid and supercritical regions. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1998, 102, 7-13.	0.9	5
64	Effect of surfactants and zeolites on simultaneous saccharification and fermentation of steam-exploded poplar biomass to ethanol. Applied Biochemistry and Biotechnology, 1998, 70-72, 369-381.	2.9	40
65	Excess Molar Enthalpies of Nitrous Oxide/Hexane Mixtures in the Liquid and Supercritical Regions. Industrial & Engineering Chemistry Research, 1998, 37, 3036-3042.	3.7	6
66	Excess enthalpies of nitrous oxide-cyclohexane mixtures in the liquid and supercritical regions. High Temperatures - High Pressures, 1998, 30, 547-554.	0.3	0
67	Excess molar enthalpies of nitrous oxide-octane in the liquid and supercritical regions. Journal of the Chemical Society, Faraday Transactions, 1997, 93, 3067.	1.7	6
68	Excess Enthalpies of Binary Mixtures of Methanol with Heptanone Isomers at 298.15 and 323.15 K. Journal of Chemical & Engineering Data, 1997, 42, 735-737.	1.9	4
69	The excess enthalpies of nitrous oxide + cyclohexane at 308.15 and 318.15 K from 7.60 to 15.00 MPa. Journal of Supercritical Fluids, 1997, 10, 75-86.	3.2	10
70	Excess enthalpies, and vapor-liquid equilibrium and surface properties of the highly non-ideal associated mixtures formed by an alcohol and propanal. Fluid Phase Equilibria, 1996, 126, 177-194.	2.5	7
71	Simultaneous description of vapor-liquid equilibrium and excess enthalpies for methanol and ethanol binary mixtures with propanal. Journal of Solution Chemistry, 1996, 25, 267-278.	1.2	3
72	Excess enthalpies of ethanol-propanal binary mixtures at 298.15 and 318.15 K. Fluid Phase Equilibria, 1995, 108, 153-158.	2.5	7

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73	Bulk and surface properties of the highly non-ideal associated mixtures formed by methanol and propanal. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 2779-2787.	1.7	16
74	Prediction of vapor-liquid equilibrium data from excess enthalpy data for alkanol/alkane mixtures by the extended real associated solution model. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1994, 98, 777-784.	0.9	16
75	A continuous and clean one-step synthesis of nano-particulate Ce _{1-x} Zr _x O ₂ solid solutions in near-critical water. , 0, .		1