

# Albertina Cabañas

## List of Publications by Year in descending order

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75  
papers

2,423  
citations

257450

24  
h-index

206112

48  
g-index

77  
all docs

77  
docs citations

77  
times ranked

2467  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deposition of Conformal Copper and Nickel Films from Supercritical Carbon Dioxide. <i>Science</i> , 2001, 294, 141-145.	12.6	364
2	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. <i>Journal of Materials Chemistry</i> , 2001, 11, 561-568.	6.7	205
3	The continuous hydrothermal synthesis of nano-particulate ferrites in near critical and supercritical water. <i>Journal of Materials Chemistry</i> , 2001, 11, 1408-1416.	6.7	199
4	Deposition of Pd into mesoporous silica SBA-15 using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2011, 56, 213-222.	3.2	121
5	Supercritical fluid extraction of peach ( <i>Prunus persica</i> ) seed oil using carbon dioxide and ethanol. <i>Journal of Supercritical Fluids</i> , 2009, 49, 167-173.	3.2	101
6	A continuous and clean one-step synthesis of nano-particulate $Ce_{1-x}Zr_xO_2$ solid solutions in near-critical water. <i>Chemical Communications</i> , 2000, , 901-902.	4.1	100
7	Deposition of Gold Films and Nanostructures from Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2004, 16, 2028-2033.	6.7	93
8	Deposition of Cu films from supercritical fluids using $Cu(I)$ $\beta$ -diketonate precursors. <i>Microelectronic Engineering</i> , 2002, 64, 53-61.	2.4	81
9	Alcohol-Assisted Deposition of Copper Films from Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2003, 15, 2910-2916.	6.7	64
10	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
11	XAS (XANES and EXAFS) Investigations of Nanoparticulate Ferrites Synthesized Continuously in Near Critical and Supercritical Water. <i>Journal of Physical Chemistry C</i> , 2007, 111, 6252-6262.	3.1	61
12	Pharmaceutical co-crystals of the anti-inflammatory drug diflunisal and nicotinamide obtained using supercritical $CO_2$ as an antisolvent. <i>Journal of <math>CO_2</math> Utilization</i> , 2016, 13, 29-37.	6.8	60
13	Synthesis of nanoparticulate yttrium aluminum garnet in supercritical water-ethanol mixtures. <i>Journal of Supercritical Fluids</i> , 2007, 40, 284-292.	3.2	48
14	Dissolution rate enhancement of the anti-inflammatory drug diflunisal by coprecipitation with a biocompatible polymer using carbon dioxide as a supercritical fluid antisolvent. <i>Journal of Supercritical Fluids</i> , 2014, 88, 56-65.	3.2	43
15	Effect of surfactants and zeolites on simultaneous saccharification and fermentation of steam-exploded poplar biomass to ethanol. <i>Applied Biochemistry and Biotechnology</i> , 1998, 70-72, 369-381.	2.9	40
16	Synthesis of $SiO_2$ -Aerogel Inverse Opals in Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2005, 17, 6137-6145.	6.7	40
17	A new sustainable route in supercritical $CO_2$ to functionalize silica SBA-15 with 3-aminopropyltrimethoxysilane as material for carbon capture. <i>Chemical Engineering Journal</i> , 2015, 264, 886-898.	12.7	37
18	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. <i>Journal of Supercritical Fluids</i> , 2012, 69, 21-28.	3.2	36

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19	Solubility of Pd(hfac) <sub>2</sub> and Ni(hfac) <sub>2</sub> ·2H <sub>2</sub> O in supercritical carbon dioxide pure and modified with ethanol. Journal of Supercritical Fluids, 2012, 70, 106-111.	3.2	36
20	High-pressure phase equilibria for the binary system carbon dioxide + dibenzofuran. Journal of Supercritical Fluids, 2008, 46, 238-244.	3.2	29
21	Supercritical fluid deposition of Ru nanoparticles onto SiO <sub>2</sub> SBA-15 as a sustainable method to prepare selective hydrogenation catalysts. RSC Advances, 2015, 5, 38880-38891.	3.6	28
22	Supercritical fluid preparation of Pt, Ru and Ni/graphene nanocomposites and their application as selective catalysts in the partial hydrogenation of limonene. Journal of Supercritical Fluids, 2017, 120, 7-17.	3.2	28
23	Cocrystallization of the anticancer drug 5-fluorouracil and coformers urea, thiourea or pyrazinamide using supercritical CO <sub>2</sub> as an antisolvent (SAS) and as a solvent (CSS). Journal of Supercritical Fluids, 2020, 160, 104813.	3.2	28
24	Polymorphism in the co-crystallization of the anticonvulsant drug carbamazepine and saccharin using supercritical CO <sub>2</sub> as an anti-solvent. Journal of Supercritical Fluids, 2018, 136, 60-69.	3.2	26
25	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
26	Solubility of two metal-organic ruthenium precursors in supercritical CO <sub>2</sub> and their application in supercritical fluid technology. Journal of Chemical Thermodynamics, 2013, 58, 55-61.	2.0	24
27	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
28	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
29	Preparation of 5-fluorouracil microparticles and 5-fluorouracil/poly(L-lactide) composites by a supercritical CO <sub>2</sub> antisolvent process. Journal of Supercritical Fluids, 2019, 143, 64-71.	3.2	21
30	Studies on the porosity of SiO <sub>2</sub> -aerogel inverse opals synthesised in supercritical CO <sub>2</sub> . Microporous and Mesoporous Materials, 2007, 99, 23-29.	4.4	20
31	Prediction of the best cosolvents to solubilise fatty acids in supercritical CO <sub>2</sub> using the Hansen solubility theory. Chemical Engineering Science, 2018, 190, 14-20.	3.8	19
32	Thiol group functionalization of mesoporous SiO <sub>2</sub> SBA-15 using supercritical CO <sub>2</sub> . Microporous and Mesoporous Materials, 2018, 256, 147-154.	4.4	18
33	Synthesis of ordered macroporous SiO <sub>2</sub> in supercritical CO <sub>2</sub> using 3D-latex array templates. Chemical Communications, 2005, , 2618.	4.1	17
34	Excess Molar Enthalpies of CO <sub>2</sub> + 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	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
36	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

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37	Thermodynamic Study of the N <sub>2</sub> O + CO <sub>2</sub> and N <sub>2</sub> O + CO <sub>2</sub> + Cyclohexane Systems in the Near-Critical and Supercritical Regions. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 3566-3575.	3.7	16
38	Enthalpies of Absorption of Carbon Dioxide in Aqueous Sodium Glycinate Solutions at Temperatures of (313.15 and 323.15) K. <i>Journal of Chemical &amp; Engineering Data</i> , 2010, 55, 1215-1218.	1.9	16
39	Deposition of Ni nanoparticles onto porous supports using supercritical CO <sub>2</sub> : effect of the precursor and reduction methodology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015, 373, 20150014.	3.4	16
40	Effect of Supercritical CO <sub>2</sub> in Modified Polystyrene 3D Latex Arrays. <i>Langmuir</i> , 2006, 22, 8966-8974.	3.5	14
41	Role of excess molar enthalpies in supercritical antisolvent micronizations using dimethylsulfoxide as the polar solvent. <i>Journal of Supercritical Fluids</i> , 2011, 60, 45-50.	3.2	14
42	Functionalization of Silica SBA-15 with [3-(2-Aminoethylamino)Propyl] Trimethoxysilane in Supercritical CO <sub>2</sub> Modified with Methanol or Ethanol for Carbon Capture. <i>Energies</i> , 2020, 13, 5804.	3.1	13
43	Green preparation of PtRu and PtCu/SBA-15 catalysts using supercritical CO <sub>2</sub> . <i>Journal of CO<sub>2</sub> Utilization</i> , 2017, 22, 382-391.	6.8	12
44	Supercritical CO <sub>2</sub> as a reaction and impregnation medium in the synthesis of Pd@SiO <sub>2</sub> aerogel inverse opals. <i>Journal of Supercritical Fluids</i> , 2009, 49, 369-376.	3.2	11
45	Measurements and modeling of high-pressure excess molar enthalpies and isothermal vapor-liquid equilibria of the carbon dioxide + N,N-dimethylformamide system. <i>Journal of Supercritical Fluids</i> , 2010, 55, 566-572.	3.2	11
46	The excess enthalpies of nitrous oxide + cyclohexane at 308.15 and 318.15 K from 7.60 to 15.00 MPa. <i>Journal of Supercritical Fluids</i> , 1997, 10, 75-86.	3.2	10
47	Self-association and complex formation in alcohol-unsaturated hydrocarbon systems Heat capacities of linear alcohols mixed with alkenes and alkynes. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 665-674.	2.8	8
48	Designing nanocomposites using supercritical CO <sub>2</sub> to insert Ni nanoparticles into the pores of nanopatterned BaTiO <sub>3</sub> thin films. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1083-1089.	5.5	8
49	Excess enthalpies of ethanol–propanal binary mixtures at 298.15 and 318.15 K. <i>Fluid Phase Equilibria</i> , 1995, 108, 153-158.	2.5	7
50	Excess enthalpies, and vapor-liquid equilibrium and surface properties of the highly non-ideal associated mixtures formed by an alcohol and propanal. <i>Fluid Phase Equilibria</i> , 1996, 126, 177-194.	2.5	7
51	One-step sustainable preparation of superparamagnetic iron oxide nanoparticles supported on mesoporous SiO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , 2020, 159, 104775.	3.2	7
52	Excess molar enthalpies of nitrous oxide–octane in the liquid and supercritical regions. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1997, 93, 3067.	1.7	6
53	Excess Molar Enthalpies of Nitrous Oxide/Hexane Mixtures in the Liquid and Supercritical Regions. <i>Industrial &amp; Engineering Chemistry Research</i> , 1998, 37, 3036-3042.	3.7	6
54	Excess molar enthalpies for mixtures of supercritical carbon dioxide and water+ethanol solutions. <i>Journal of Supercritical Fluids</i> , 2005, 36, 23-30.	3.2	6

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55	Excess molar enthalpies for mixtures of supercritical carbon dioxide and limonene. Fluid Phase Equilibria, 2006, 246, 153-157.	2.5	6
56	Phase behaviour of the two binary systems formed by CO <sub>2</sub> and the silane precursors N-[3-(trimethoxysilyl)propyl]aniline or (3-mercaptopropyl)trimethoxysilane. Journal of Chemical Thermodynamics, 2016, 103, 152-156.	2.0	6
57	Excess molar enthalpies of nitrous oxide-hexane in the liquid and supercritical regions. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1998, 102, 7-13.	0.9	5
58	Excess molar enthalpies for mixtures of supercritical carbon dioxide and 1,8-cineole. Journal of Supercritical Fluids, 2007, 40, 331-335.	3.2	5
59	Excess molar enthalpies for mixtures of supercritical CO <sub>2</sub> and ethyl acetate and their role in supercritical fluid applications. Journal of Chemical Thermodynamics, 2012, 51, 59-64.	2.0	5
60	Supercritical CO <sub>2</sub> 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
61	The parameters that affect the supercritical extraction OF 2,4,6-trichloroanisole from cork. Journal of Supercritical Fluids, 2018, 141, 137-142.	3.2	5
62	Production and Characterization of a New Copper(II) Propanoate-Isonicotinamide Adduct Obtained via Slow Evaporation and using Supercritical CO <sub>2</sub> as an Antisolvent. Crystal Growth and Design, 2019, 19, 620-629.	3.0	5
63	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
64	Excess molar enthalpies for mixtures of supercritical CO <sub>2</sub> and linalool. Journal of Supercritical Fluids, 2008, 46, 265-271.	3.2	4
65	Numerically Efficient Real Space Theory of Scattering from Colloidal Crystals. Langmuir, 2011, 27, 2219-2228.	3.5	4
66	Solubility of the Metal Precursor Ni(NO <sub>3</sub> ) <sub>2</sub> ·6H <sub>2</sub> O in High-Pressure CO <sub>2</sub> + Ethanol Mixtures. Journal of Chemical & Engineering Data, 2018, 63, 1065-1071.	1.9	4
67	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
68	Deposition of Au nanoparticles into mesoporous SiO <sub>2</sub> SBA-15. Journal of Supercritical Fluids, 2022, 184, 105582.	3.2	3
69	Calorimetry in the near-critical and supercritical regions. Nitrous oxide + hydrocarbon mixtures. Pure and Applied Chemistry, 1999, 71, 1197-1205.	1.9	2
70	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
71	Excess enthalpies of mixtures of olive oil and supercritical carbon dioxide. Journal of Supercritical Fluids, 1999, 14, 173-180.	3.2	1
72	A continuous and clean one-step synthesis of nano-particulate Ce <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> solid solutions in near-critical water. , 0, .		1

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73	Alcohol-Assisted Deposition of Copper Films from Supercritical Carbon Dioxide.. ChemInform, 2003, 34, no.	0.0	0
74	A novel real space scattering theory: efficient characterization of colloidal crystals. Journal of Physics: Conference Series, 2010, 247, 012012.	0.4	0
75	Excess enthalpies of nitrous oxide-cyclohexane mixtures in the liquid and supercritical regions. High Temperatures - High Pressures, 1998, 30, 547-554.	0.3	0