

Jean Michel Andanson

List of Publications by Year in descending order

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41
papers

2,200
citations

236833

25
h-index

265120

42
g-index

47
all docs

47
docs citations

47
times ranked

3307
citing authors

#	ARTICLE	IF	CITATIONS
1	Ionic Liquids and Dense Carbon Dioxide: A Beneficial Biphasic System for Catalysis. <i>Chemical Reviews</i> , 2011, 111, 322-353.	23.0	273
2	Understanding the role of co-solvents in the dissolution of cellulose in ionic liquids. <i>Green Chemistry</i> , 2014, 16, 2528.	4.6	231
3	UV-Vis Ozone Cleaning of Supported Poly(vinylpyrrolidone)-Stabilized Palladium Nanocubes: Effect of Stabilizer Removal on Morphology and Catalytic Behavior. <i>Langmuir</i> , 2011, 27, 7909-7916.	1.6	199
4	Exploring catalytic solid/liquid interfaces by in situ attenuated total reflection infrared spectroscopy. <i>Chemical Society Reviews</i> , 2010, 39, 4571.	18.7	162
5	Impact of water on the melting temperature of urea + choline chloride deep eutectic solvent. <i>New Journal of Chemistry</i> , 2016, 40, 4492-4499.	1.4	149
6	Hydrogen Bonding in Supercritical Ethanol Assessed by Infrared and Raman Spectroscopies. <i>Journal of Physical Chemistry A</i> , 2004, 108, 3902-3909.	1.1	69
7	Tuning the Chemoselective Hydrogenation of Nitrostyrenes Catalyzed by Ionic Liquid-Supported Platinum Nanoparticles. <i>ACS Catalysis</i> , 2012, 2, 2587-2595.	5.5	69
8	Measurement of CO ₂ sorption and PEG 1500 swelling by ATR-IR spectroscopy. <i>Journal of Supercritical Fluids</i> , 2008, 45, 384-390.	1.6	68
9	Impregnation of a biocompatible polymer aided by supercritical CO ₂ : Evaluation of drug stability and drug-matrix interactions. <i>Journal of Supercritical Fluids</i> , 2009, 48, 56-63.	1.6	65
10	In situ ATR-FTIR Spectroscopy of Poly(ethylene terephthalate) Subjected to High-Temperature Methanol. <i>Macromolecular Symposia</i> , 2008, 265, 195-204.	0.4	60
11	Supercritical CO ₂ /Ionic Liquid Systems: What Can We Extract from Infrared and Raman Spectra?. <i>Journal of Physical Chemistry B</i> , 2009, 113, 10249-10254.	1.2	57
12	Deep Eutectic Solvent with Thermo-Switchable Hydrophobicity. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12516-12520.	3.2	52
13	A green pathway for hydrogenations on ionic liquid-stabilized nanoparticles. <i>Journal of Catalysis</i> , 2009, 268, 356-366.	3.1	51
14	Hydrogen bonding in supercritical tert-butanol assessed by vibrational spectroscopies and molecular-dynamics simulations. <i>Journal of Chemical Physics</i> , 2005, 122, 174512.	1.2	47
15	Thermodynamics of cellulose dissolution in an imidazolium acetate ionic liquid. <i>Chemical Communications</i> , 2015, 51, 4485-4487.	2.2	47
16	Quantification of the impact of water as an impurity on standard physico-chemical properties of ionic liquids. <i>Journal of Chemical Thermodynamics</i> , 2016, 94, 169-176.	1.0	47
17	Improving laccase thermostability with aqueous natural deep eutectic solvents. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 919-926.	3.6	44
18	Binary Ionic Liquids with a Common Cation: Insight into Nanoscopic Mixing by Infrared Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2011, 2, 2959-2964.	2.1	40

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19	Ionic Liquid-Supported Pt Nanoparticles as Catalysts for Enantioselective Hydrogenation. ACS Catalysis, 2012, 2, 337-340.	5.5	39
20	Interactions of 1-Ethyl-3-methylimidazolium Trifluoromethanesulfonate Ionic Liquid with Alumina Nanoparticles and Organic Solvents Studied by Infrared Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 12210-12217.	1.5	37
21	Bringing together fundamental and applied science: The supercritical fluids route. Journal of Molecular Liquids, 2006, 125, 88-99.	2.3	35
22	Dispersion and Stabilization of Exfoliated Graphene in Ionic Liquids. Frontiers in Chemistry, 2019, 7, 223.	1.8	35
23	Ionic association and interactions in aqueous methylsulfate alkyl-imidazolium-based ionic liquids. Journal of Chemical Thermodynamics, 2014, 77, 214-221.	1.0	34
24	Selective hydrogenation of cyclohexenone on iron-ruthenium nano-particles suspended in ionic liquids and CO ₂ -expanded ionic liquids. Catalysis Science and Technology, 2012, 2, 1403.	2.1	31
25	Relation between hydrogen bonding and intramolecular motions in liquid and supercritical methanol. Journal of Molecular Liquids, 2006, 129, 101-107.	2.3	30
26	Local examination of skin diffusion using FTIR spectroscopic imaging and multivariate target factor analysis. Analytica Chimica Acta, 2009, 642, 246-256.	2.6	26
27	Investigation of Binary and Ternary Systems of Ionic Liquids with Water and/or Supercritical CO ₂ by in Situ Attenuated Total Reflection Infrared Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 2111-2117.	1.2	26
28	Improving Cellulose Dissolution in Ionic Liquids by Tuning the Size of the Ions: Impact of the Length of the Alkyl Chains in Tetraalkylammonium Carboxylate. ChemSusChem, 2017, 10, 1749-1760.	3.6	25
29	High-Throughput Spectroscopic Imaging Applied to Permeation through the Skin. Applied Spectroscopy, 2009, 63, 512-517.	1.2	21
30	Purification of ionic liquids by supercritical CO ₂ monitored by infrared spectroscopy. Journal of Supercritical Fluids, 2010, 55, 395-400.	1.6	18
31	In situ permeation study of drug through the stratum corneum using attenuated total reflection Fourier transform infrared spectroscopic imaging. Journal of Biomedical Optics, 2009, 14, 034011.	1.4	16
32	Enhancing the Thermostability of Engineered Laccases in Aqueous Betaine-Based Natural Deep Eutectic Solvents. ACS Sustainable Chemistry and Engineering, 2022, 10, 572-581.	3.2	14
33	Spectroscopic analysis of triflusal impregnated into PMMA from supercritical CO ₂ solution. Vibrational Spectroscopy, 2009, 49, 183-189.	1.2	12
34	Application of principal component analysis to the thermal characterization of silanized nanoparticles obtained at supercritical carbon dioxide conditions. Analytica Chimica Acta, 2009, 635, 227-234.	2.6	12
35	The role of association of ions in ionic liquid/molecular solvent mixtures on metal extraction. Physical Chemistry Chemical Physics, 2017, 19, 28834-28840.	1.3	12
36	Tuning critical solution temperature for CO ₂ capture by aqueous solution of amine. Journal of Molecular Liquids, 2021, 343, 117628.	2.3	12

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37	Polycyclic aromatic hydrocarbons as model solutes for carbon nanomaterials in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 27694-27703.	1.3	11
38	Preparation of Nanostructured Organic-Inorganic Hybrid Materials Using Supercritical Fluid Technology. <i>Composite Interfaces</i> , 2009, 16, 143-155.	1.3	9
39	Simple in Situ Monitoring of a Complex Catalytic Reaction Network at High Pressure by Attenuated Total Reflection Fourier Transform Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2010, 64, 286-292.	1.2	6
40	Application of Quantitative ¹ H and ¹⁹ F NMR to Organometallics. <i>Journal of Organometallic Chemistry</i> , 2021, 950, 121991.	0.8	3
41	Tracing the Acetalization of Cyclohexanone in CO ₂ -Expanded Alcohols by Attenuated Total Reflection Infrared Spectroscopy. <i>Applied Spectroscopy</i> , 2009, 63, 1008-1014.	1.2	1