

Zeljko Knez

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251
papers

8,688
citations

50
h-index

84
g-index

272
ext. papers

10,066
ext. citations

4.2
avg, IF

6.64
L-index

#	Paper	IF	Citations
251	Phenols, proanthocyanidins, flavones and flavonols in some plant materials and their antioxidant activities. <i>Food Chemistry</i> , 2005 , 89, 191-198	8.5	664
250	Polyphenols: Extraction Methods, Antioxidative Action, Bioavailability and Anticarcinogenic Effects. <i>Molecules</i> , 2016 , 21,	4.8	441
249	Extraction of active ingredients from green tea (<i>Camellia sinensis</i>): Extraction efficiency of major catechins and caffeine. <i>Food Chemistry</i> , 2006 , 96, 597-605	8.5	294
248	Industrial applications of supercritical fluids: A review. <i>Energy</i> , 2014 , 77, 235-243	7.9	269
247	Comparison of antioxidative and synergistic effects of rosemary extract with α -tocopherol, ascorbyl palmitate and citric acid in sunflower oil. <i>Food Chemistry</i> , 2000 , 71, 229-233	8.5	218
246	Extraction of phenolic compounds from elder berry and different grape marc varieties using organic solvents and/or supercritical carbon dioxide. <i>Journal of Food Engineering</i> , 2009 , 90, 246-254	6	214
245	Hydrothermal reactions of agricultural and food processing wastes in sub- and supercritical water: a review of fundamentals, mechanisms, and state of research. <i>Journal of Agricultural and Food Chemistry</i> , 2013 , 61, 8003-25	5.7	169
244	Adsorption of toxic organic compounds from water with hydrophobic silica aerogels. <i>Journal of Colloid and Interface Science</i> , 2007 , 310, 362-8	9.3	163
243	Solvent extraction study of antioxidants from Balm (<i>Melissa officinalis</i> L.) leaves. <i>Food Chemistry</i> , 2003 , 80, 275-282	8.5	145
242	Micronization of drugs using supercritical carbon dioxide. <i>International Journal of Pharmaceutics</i> , 1999 , 182, 33-9	6.5	142
241	Chitosan-based (Nano)materials for Novel Biomedical Applications. <i>Molecules</i> , 2019 , 24,	4.8	139
240	Antitumour, Antimicrobial, Antioxidant and Antiacetylcholinesterase Effect of <i>Ganoderma Lucidum</i> Terpenoids and Polysaccharides: A Review. <i>Molecules</i> , 2018 , 23,	4.8	131
239	Antioxidant and antimicrobial activity of guarana seed extracts. <i>Food Chemistry</i> , 2007 , 104, 1258-1268	8.5	131
238	Particles formation and particle design using supercritical fluids. <i>Current Opinion in Solid State and Materials Science</i> , 2003 , 7, 353-361	12	129
237	Subcritical water extraction of phenolic compounds from pomegranate (<i>Punica granatum</i> L.) seed residues and investigation into their antioxidant activities with HPLC/ABTS+ assay. <i>Food and Bioproducts Processing</i> , 2012 , 90, 215-223	4.9	128
236	Compressed gases as alternative enzymatic-reaction solvents: a short review. <i>Journal of Supercritical Fluids</i> , 2002 , 23, 29-42	4.2	109
235	Activity and stability of lipases from different sources in supercritical carbon dioxide and near-critical propane. <i>Journal of Chemical Technology and Biotechnology</i> , 2001 , 76, 1260-1266	3.5	102

234	Lipase-catalyzed synthesis of fatty acid fructose esters. <i>Journal of Food Engineering</i> , 2006 , 77, 880-886	6	100
233	Enzymatic synthesis of sugar fatty acid esters in organic solvent and in supercritical carbon dioxide and their antimicrobial activity. <i>Journal of Supercritical Fluids</i> , 2008 , 45, 338-345	4.2	96
232	Surface functionalization of silica-coated magnetic nanoparticles for covalent attachment of cholesterol oxidase. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 179-185	2.8	89
231	Measurement of CO ₂ solubility and diffusivity in poly(L-lactide) and poly(D,L-lactide-co-glycolide) by magnetic suspension balance. <i>Journal of Supercritical Fluids</i> , 2008 , 47, 296-301	4.2	84
230	Silica aerogels modified with mercapto functional groups used for Cu(II) and Hg(II) removal from aqueous solutions. <i>Desalination</i> , 2011 , 269, 223-230	10.3	82
229	Green corrosion inhibitors for aluminium and its alloys: a review. <i>RSC Advances</i> , 2017 , 7, 27299-27330	3.7	76
228	Enzymatic reactions in dense gases. <i>Journal of Supercritical Fluids</i> , 2009 , 47, 357-372	4.2	75
227	Improvement of nifedipine dissolution characteristics using supercritical CO ₂ . <i>International Journal of Pharmaceutics</i> , 1997 , 148, 123-130	6.5	74
226	Vapor-liquid equilibrium of binary CO ₂ -organic solvent systems (ethanol, tetrahydrofuran, ortho-xylene, meta-xylene, para-xylene). <i>Journal of Supercritical Fluids</i> , 2008 , 43, 383-389	4.2	74
225	Characterisation of biodegradable pectin aerogels and their potential use as drug carriers. <i>Carbohydrate Polymers</i> , 2014 , 113, 272-8	10.3	72
224	Immobilization of horseradish peroxidase as crosslinked enzyme aggregates (CLEAs). <i>Process Biochemistry</i> , 2011 , 46, 765-769	4.8	72
223	High pressure extraction of vitamin E-rich oil from <i>Silybum marianum</i> . <i>Food Chemistry</i> , 2001 , 74, 355-364	8.5	69
222	Cannabinoids in cancer treatment: Therapeutic potential and legislation. <i>Bosnian Journal of Basic Medical Sciences</i> , 2019 , 19, 14-23	3.3	65
221	Optimization of (R,S)-1-phenylethanol kinetic resolution over <i>Candida antarctica</i> lipase B in ionic liquids. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2009 , 58, 24-28		65
220	Glycerol reforming in supercritical water; a short review. <i>Renewable and Sustainable Energy Reviews</i> , 2013 , 23, 40-48	16.2	64
219	Synthesis of Oleic Acid Esters Catalyzed by Immobilized Lipase. <i>Journal of Agricultural and Food Chemistry</i> , 1996 , 44, 338-342	5.7	64
218	Removal of BTEX vapours from waste gas streams using silica aerogels of different hydrophobicity. <i>Journal of Hazardous Materials</i> , 2009 , 165, 1114-8	12.8	63
217	Simultaneous extraction of oil- and water-soluble phase from sunflower seeds with subcritical water. <i>Food Chemistry</i> , 2015 , 166, 316-323	8.5	62

216	Supercritical fluid extraction of chamomile flower heads: Comparison with conventional extraction, kinetics and scale-up. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 192-198	4.2	62
215	Immobilized lipase-mediated long-chain fatty acid esterification in dense carbon dioxide: bench-scale packed-bed reactor study. <i>Journal of Supercritical Fluids</i> , 2007 , 41, 74-81	4.2	61
214	Silica aerogels as supports for lipase catalyzed esterifications at sub- and supercritical conditions. <i>Journal of Supercritical Fluids</i> , 2003 , 27, 169-178	4.2	60
213	Bioactivation of bisphenol A and its analogs (BPF, BPAF, BPZ and DMBPA) in human liver microsomes. <i>Toxicology in Vitro</i> , 2013 , 27, 1267-76	3.6	59
212	Comparison of different methods for determination of the S ₀₀ equilibrium curve of a solid component in the presence of a compressed gas. <i>Fluid Phase Equilibria</i> , 2000 , 173, 297-310	2.5	59
211	Solubility of Nifedipine and Nitrendipine in Supercritical CO ₂ . <i>Journal of Chemical & Engineering Data</i> , 1995 , 40, 216-220	2.8	59
210	Measurement and Modeling of the CO ₂ Solubility in Poly(ethylene glycol) of Different Molecular Weights. <i>Journal of Chemical & Engineering Data</i> , 2008 , 53, 185-188	2.8	57
209	Supercritical impregnation as a feasible technique for entrapment of fat-soluble vitamins into alginate aerogels. <i>Journal of Non-Crystalline Solids</i> , 2016 , 432, 519-526	3.9	56
208	Preparation of multi-membrane alginate aerogels used for drug delivery. <i>Journal of Supercritical Fluids</i> , 2013 , 79, 209-215	4.2	55
207	Extraction of lutein from Marigold flower petals [Experimental kinetics and modelling. <i>LWT - Food Science and Technology</i> , 2008 , 41, 2008-2016	5.4	55
206	Hop Compounds: Extraction Techniques, Chemical Analyses, Antioxidative, Antimicrobial, and Anticarcinogenic Effects. <i>Nutrients</i> , 2019 , 11,	6.7	52
205	Are supercritical fluids solvents for the future?. <i>Chemical Engineering and Processing: Process Intensification</i> , 2019 , 141, 107532	3.7	51
204	Lipase-catalyzed esterification of citronellol with lauric acid in supercritical carbon dioxide/co-solvent media. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 199-203	4.2	51
203	Extraction of chilli pepper (var. Byedige) with supercritical CO ₂ : Effect of pressure and temperature on capsaicinoid and colour extraction efficiency. <i>Food Chemistry</i> , 2004 , 87, 51-58	8.5	51
202	Hydrolysis of carboxymethyl cellulose catalyzed by cellulase immobilized on silica gels at low and high pressures. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 74-80	4.2	50
201	Lipase-catalyzed long chain fatty ester synthesis in dense carbon dioxide: Kinetics and thermodynamics. <i>Journal of Supercritical Fluids</i> , 2007 , 41, 92-101	4.2	49
200	Formation of polysaccharide aerogels in ethanol. <i>RSC Advances</i> , 2015 , 5, 77362-77371	3.7	48
199	Antioxidant and Antimicrobial Activity of Rosemary Extract in Chicken Frankfurters. <i>Journal of Food Science</i> , 2006 , 71, C425-C429	3.4	48

198	Supercritical impregnation of drugs and supercritical fluid deposition of metals into aerogels. <i>Journal of Materials Science</i> , 2015 , 50, 1-12	4.3	46
197	Hydrothermal treatment of biomass for energy and chemicals. <i>Energy</i> , 2016 , 116, 1312-1322	7.9	45
196	(Bio)nanotechnology in Food Science-Food Packaging. <i>Nanomaterials</i> , 2021 , 11,	5.4	44
195	Chia Seeds (L.): An Overview-Phytochemical Profile, Isolation Methods, and Application. <i>Molecules</i> , 2019 , 25,	4.8	43
194	Separation of parthenolide from feverfew: performance of conventional and high-pressure extraction techniques. <i>Separation and Purification Technology</i> , 2005 , 41, 13-20	8.3	42
193	Diffusion of methanol liquid CO ₂ and methanol supercritical CO ₂ in silica aerogels. <i>Journal of Non-Crystalline Solids</i> , 1997 , 221, 163-169	3.9	41
192	Chemicals and value added compounds from biomass using sub- and supercritical water. <i>Journal of Supercritical Fluids</i> , 2018 , 133, 591-602	4.2	40
191	Chemical composition of Juniperus communis L. fruits supercritical CO ₂ extracts: dependence on pressure and extraction time. <i>Journal of Agricultural and Food Chemistry</i> , 2005 , 53, 2630-6	5.7	40
190	Fast production of high-methoxyl pectin aerogels for enhancing the bioavailability of low-soluble drugs. <i>Journal of Supercritical Fluids</i> , 2015 , 106, 16-22	4.2	39
189	Effect of Temperature and Pressure on the Behavior of Poly(ϵ -caprolactone) in the Presence of Supercritical Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 15594-15601	3.9	39
188	Adsorption of Water Vapor on Silica, Alumina, and Their Mixed Oxide Aerogels. <i>Journal of Chemical & Engineering Data</i> , 2001 , 46, 858-860	2.8	39
187	Biodiesel Production Using Solid Acid Catalysts Based on Metal Oxides. <i>Catalysts</i> , 2020 , 10, 237	4	38
186	Phase equilibria of the vitamins D ₂ , D ₃ and K ₃ in binary systems with CO ₂ and propane. <i>Journal of Supercritical Fluids</i> , 2001 , 20, 131-144	4.2	38
185	Immobilized laccase in the form of (magnetic) cross-linked enzyme aggregates for sustainable diclofenac (bio)degradation. <i>Journal of Cleaner Production</i> , 2020 , 275, 124121	10.3	38
184	Influence of the aromatic ring substituents on phase equilibria of vanillins in binary systems with CO ₂ . <i>Fluid Phase Equilibria</i> , 2005 , 231, 11-19	2.5	37
183	Solubility of capsaicin in dense CO ₂ . <i>Journal of Supercritical Fluids</i> , 1992 , 5, 251-255	4.2	35
182	Solubility of Solids in Sub- and Supercritical Fluids: A Review 2010-2017. <i>Journal of Chemical & Engineering Data</i> , 2018 , 63, 860-884	2.8	35
181	Isolation of bioactive compounds from spruce bark waste using sub- and supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2016 , 117, 243-251	4.2	34

180	Enzymatic reactions in dense gases. <i>Biochemical Engineering Journal</i> , 2005 , 27, 120-126	4.2	34
179	Separation of Active Compounds from Food by-Product (Cocoa Shell) Using Subcritical Water Extraction. <i>Molecules</i> , 2018 , 23,	4.8	33
178	Extraction and formulation of anthocyanin-concentrates from grape residues. <i>Journal of Supercritical Fluids</i> , 2008 , 45, 32-36	4.2	33
177	Novel ethanol-induced pectin-xanthan aerogel coatings for orthopedic applications. <i>Carbohydrate Polymers</i> , 2017 , 166, 365-376	10.3	31
176	Immobilization of cholesterol oxidase to finely dispersed silica-coated maghemite nanoparticles based magnetic fluid. <i>Applied Surface Science</i> , 2010 , 256, 4596-4600	6.7	31
175	Solubility of Binary Solid Mixture β -Carotene α -Capsaicin in Dense CO ₂ . <i>Journal of Agricultural and Food Chemistry</i> , 1997 , 45, 2066-2069	5.7	31
174	Exploiting the pressure effect on lipase-catalyzed wax ester synthesis in dense carbon dioxide. <i>Biotechnology and Bioengineering</i> , 2007 , 97, 1366-75	4.9	31
173	Estimation of solid solubilities in supercritical carbon dioxide: Peng-Robinson adjustable binary parameters in the near critical region. <i>Fluid Phase Equilibria</i> , 2002 , 203, 111-132	2.5	31
172	Gradual hydrophobic surface functionalization of dry silica aerogels by reaction with silane precursors dissolved in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013 , 84, 74-79	4.2	30
171	Solubility and diffusivity of CO ₂ in poly(l-lactide)/hydroxyapatite and poly(d,l-lactide-co-glycolide)/hydroxyapatite composite biomaterials. <i>Journal of Supercritical Fluids</i> , 2011 , 55, 1046-1051	4.2	30
170	Isolation of chlorophylls from stinging nettle (<i>Urtica dioica</i> L.). <i>Separation and Purification Technology</i> , 2007 , 57, 37-46	8.3	30
169	Particle Formation and Product Formulation Using Supercritical Fluids. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2015 , 6, 379-407	8.9	29
168	Comparison of the Esterification of Fructose and Palmitic Acid in Organic Solvent and in Supercritical Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 9631-9635	3.9	29
167	Modelling high pressure extraction processes. <i>Computers and Chemical Engineering</i> , 2001 , 25, 879-886	4	29
166	Bioethanol Production by Enzymatic Hydrolysis from Different Lignocellulosic Sources. <i>Molecules</i> , 2021 , 26,	4.8	29
165	Application of supercritical and subcritical fluids in food processing. <i>Food Quality and Safety</i> , 2018 , 2, 59-67	3.8	28
164	Optimization of hydrolysis of rutin in subcritical water using response surface methodology. <i>Journal of Supercritical Fluids</i> , 2015 , 104, 145-152	4.2	27
163	In vitro antioxidant and antiproliferative activity of three rosemary (<i>Rosmarinus officinalis</i> L.) extract formulations. <i>International Journal of Food Science and Technology</i> , 2012 , 47, 2052-2062	3.8	27

162	Synthesis and use of organic biodegradable aerogels as drug carriers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 873-86	3.5	27
161	Application of HPLC with electrochemical detection for the determination of low levels of antioxidants. <i>Journal of Food Composition and Analysis</i> , 2007 , 20, 539-545	4.1	27
160	Hydrothermal Degradation of Cellulose at Temperature from 200 to 300 °C. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 6576-6584	3.9	26
159	Enzymatic synthesis of citronellol laurate in organic media and in supercritical carbon dioxide. <i>Biochemical Engineering Journal</i> , 2008 , 42, 6-12	4.2	26
158	Lipase-catalyzed esterification of lactic acid in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2012 , 66, 192-197	4.2	25
157	Mathematical modelling of the solubility of supercritical CO ₂ in poly(L-lactide) and poly(D,L-lactide-co-glycolide). <i>Journal of Supercritical Fluids</i> , 2009 , 50, 320-326	4.2	25
156	Parameter optimization for the enzymatic hydrolysis of sunflower oil in high-pressure reactors. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2003 , 80, 643-646	1.8	25
155	Enzymatic reactions in subcritical and supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2018 , 134, 133-140	4.0	25
154	Subcritical extraction of oil from black and white chia seeds with n-propane and comparison with conventional techniques. <i>Journal of Supercritical Fluids</i> , 2018 , 140, 182-187	4.2	25
153	Investigation of thermodynamic properties of the binary system polyethylene glycol/CO ₂ using new methods. <i>Journal of Supercritical Fluids</i> , 2014 , 87, 50-58	4.2	24
152	Rosemary extracts improve flow-mediated dilatation of the brachial artery and plasma PAI-1 activity in healthy young volunteers. <i>Phytotherapy Research</i> , 2011 , 25, 402-7	6.7	24
151	Solubility of some solid triazine herbicides in supercritical carbon dioxide. <i>Fluid Phase Equilibria</i> , 1998 , 152, 95-108	2.5	23
150	Phase equilibria in systems containing ß-copherol and dense gas. <i>Journal of Supercritical Fluids</i> , 2003 , 26, 181-191	4.2	23
149	Isolation of phenolic compounds from larch wood waste using pressurized hot water: extraction, analysis and economic evaluation. <i>Cellulose</i> , 2015 , 22, 3359-3375	5.5	22
148	Hyper-activation of ß-galactosidase from <i>Aspergillus oryzae</i> via immobilization onto amino-silane and chitosan magnetic maghemite nanoparticles. <i>Journal of Cleaner Production</i> , 2018 , 179, 225-234	10.3	22
147	Thermal properties of polysaccharide aerogels. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 127, 363-370	4.1	22
146	Kinetics of supercritical carbon dioxide extraction of borage and evening primrose seed oil. <i>European Journal of Lipid Science and Technology</i> , 2006 , 108, 569-576	3	22
145	Discorhabdin alkaloids from Antarctic <i>Latrunculia</i> spp. sponges as a new class of cholinesterase inhibitors. <i>European Journal of Medicinal Chemistry</i> , 2017 , 136, 294-304	6.8	21

144	Antioxidant activity of mandarin (<i>Citrus reticulata</i>) peel. <i>Acta Periodica Technologica</i> , 2010 , 195-203	0.8	21
143	Modified freezing method for measuring the gas solubility along the solid-liquid-gas equilibrium line. <i>Fluid Phase Equilibria</i> , 2003 , 205, 233-247	2.5	21
142	Isolation and concentration of natural antioxidants with high-pressure extraction. <i>Innovative Food Science and Emerging Technologies</i> , 2004 , 5, 245-248	6.8	21
141	Solubility and diffusivity of CO ₂ in carboxylated polyesters. <i>Journal of Supercritical Fluids</i> , 2010 , 51, 306-311	4.1	20
140	Optimisation of n-octyl oleate enzymatic synthesis over <i>Rhizomucor miehei</i> lipase. <i>Bioprocess and Biosystems Engineering</i> , 2006 , 29, 119-27	3.7	20
139	Isolation, characterization and formulation of curcuminoids and in vitro release study of the encapsulated particles. <i>Journal of Supercritical Fluids</i> , 2015 , 103, 48-54	4.2	19
138	Processing Polymeric Biomaterials using Supercritical CO ₂ . <i>Chemie-Ingenieur-Technik</i> , 2011 , 83, 1371-1380	8.0	19
137	Enzymatic Reactions in High-Pressure Membrane Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 9619-9625	3.9	19
136	Encapsulation and drug release of poorly water soluble nifedipine from bio-carriers. <i>Journal of Non-Crystalline Solids</i> , 2018 , 481, 486-493	3.9	19
135	High pressure impregnation of vitamin D ₃ into polysaccharide aerogels using moderate and low temperatures. <i>Journal of Supercritical Fluids</i> , 2016 , 118, 171-177	4.2	18
134	High-pressure enzymatic hydrolysis of oil. <i>European Journal of Lipid Science and Technology</i> , 2002 , 104, 381-386	3	17
133	Hydrothermal Degradation of Rutin: Identification of Degradation Products and Kinetics Study. <i>Journal of Agricultural and Food Chemistry</i> , 2016 , 64, 9196-9202	5.7	16
132	Bio-nanofibrous mats as potential delivering systems of natural substances. <i>Textile Reseach Journal</i> , 2017 , 87, 444-459	1.7	15
131	Interfacial tension and gas solubility of molten polymer polyethylene glycol in contact with supercritical carbon dioxide and argon. <i>Journal of Supercritical Fluids</i> , 2016 , 108, 45-55	4.2	15
130	Comparison of ionic and non-ionic drug release from multi-membrane spherical aerogels. <i>International Journal of Pharmaceutics</i> , 2013 , 454, 58-66	6.5	15
129	Supercritical CO ₂ mediated functionalization of highly porous emulsion-derived foams: ScCO ₂ absorption and epoxidation. <i>Journal of CO₂ Utilization</i> , 2017 , 21, 336-341	7.6	15
128	Preparation of cellulose aerogels from ionic liquid solutions for supercritical impregnation of phytol. <i>Journal of Supercritical Fluids</i> , 2017 , 130, 17-22	4.2	15
127	Determination of S-II phase transitions under gas pressure. <i>Journal of Supercritical Fluids</i> , 2010 , 55, 648-652	4.2	15

126	Phase equilibria of vanillins in compressed gases. <i>Journal of Supercritical Fluids</i> , 2007 , 43, 237-248	4.2	15
125	Microbiological and Antioxidant Activity of Phenolic Compounds in Olive Leaf Extract. <i>Molecules</i> , 2020 , 25,	4.8	15
124	PH sensitive mesoporous materials for immediate or controlled release of NSAID. <i>Microporous and Mesoporous Materials</i> , 2016 , 224, 190-200	5.3	14
123	Antimicrobial activity of n-butyl lactate obtained via enzymatic esterification of lactic acid with n-butanol in supercritical trifluoromethane. <i>Journal of Supercritical Fluids</i> , 2014 , 85, 143-150	4.2	14
122	Phase equilibria and diffusivity of dense gases in various polyethylenes. <i>Journal of Supercritical Fluids</i> , 2013 , 78, 54-62	4.2	14
121	Effect of drying parameters on physiochemical and sensory properties of fruit powders processed by PGSS-, Vacuum- and Spray-drying. <i>Acta Chimica Slovenica</i> , 2015 , 62, 479-87	1.9	14
120	Enzymatic activity of L-amino acid oxidase from snake venom <i>Crotalus adamanteus</i> in supercritical CO ₂ . <i>Biocatalysis and Biotransformation</i> , 2005 , 23, 315-321	2.5	13
119	Redlich-Kwong equation of state for modelling the solubility of methane in water over a wide range of pressures and temperatures. <i>Fluid Phase Equilibria</i> , 2016 , 408, 108-114	2.5	12
118	Activation of cellulase cross-linked enzyme aggregates (CLEAs) in scCO ₂ . <i>Journal of Supercritical Fluids</i> , 2019 , 154, 104629	4.2	12
117	Preparation and Characterization of Chitosan-Coated Pectin Aerogels: Case Study. <i>Molecules</i> , 2020 , 25,	4.8	12
116	Heat transfer performance of CO ₂ , ethane and their azeotropic mixture under supercritical conditions. <i>Energy</i> , 2018 , 152, 190-201	7.9	12
115	Activity of cellulase and α -amylase from <i>Hortaea werneckii</i> after cell treatment with supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2013 , 78, 143-148	4.2	12
114	Phase behavior of sunflower oil and soybean oil in propane and sulphur hexafluoride. <i>Journal of Supercritical Fluids</i> , 2009 , 51, 109-114	4.2	12
113	Insights in starch acetylation in sub- and supercritical CO ₂ . <i>Carbohydrate Research</i> , 2011 , 346, 1224-31	2.9	12
112	Preparation of WO ₃ aerogel catalysts using supercritical CO ₂ drying. <i>Journal of Non-Crystalline Solids</i> , 2004 , 350, 308-313	3.9	12
111	Application of supercritical fluid extraction for separation of nutraceuticals and other phytochemicals from plant material. <i>Macedonian Journal of Chemistry and Chemical Engineering</i> , 2013 , 32, 183	1.1	12
110	Enzyme-catalyzed esterification of d,l-lactic acid in different SCF/IL media. <i>Journal of Supercritical Fluids</i> , 2016 , 107, 414-421	4.2	12
109	Optimisation of critical parameters during alginate aerogels' production. <i>Journal of Non-Crystalline Solids</i> , 2016 , 443, 112-117	3.9	12

108	Recycling of Carbon Fiber-Reinforced Composites-Difficulties and Future Perspectives. <i>Materials</i> , 2021 , 14,	3.5	12
107	Separation of active compounds from tobacco waste using subcritical water extraction. <i>Journal of Supercritical Fluids</i> , 2019 , 153, 104593	4.2	11
106	Density and viscosity of the binary polyethylene glycol/CO ₂ systems. <i>Journal of Supercritical Fluids</i> , 2014 , 95, 641-668	4.2	11
105	Phenolic content and antioxidant potential of macerated white wines. <i>European Food Research and Technology</i> , 2011 , 233, 465-472	3.4	11
104	Supercritical fluids applied to the sol-gel process for preparation of AEROMOSILS/palladium particle nanocomposite catalyst. <i>Journal of Supercritical Fluids</i> , 2008 , 46, 178-184	4.2	11
103	Modeling of kinetics for the enzymatic hydrolysis of sunflower oil in a high-pressure reactor. <i>JAACS, Journal of the American Oil Chemists Society</i> , 2005 , 82, 543-547	1.8	11
102	Poly(3-hydroxybutyrate): Promising biomaterial for bone tissue engineering. <i>Acta Pharmaceutica</i> , 2020 , 70, 1-15	3.2	11
101	Sub- and supercritical water for chemical recycling of polyethylene terephthalate waste. <i>Chemical Engineering Science</i> , 2021 , 233, 116389	4.4	11
100	Enhanced activity of immobilized transglutaminase for cleaner production technologies. <i>Journal of Cleaner Production</i> , 2019 , 240, 118218	10.3	10
99	Solubility and binary diffusion coefficient of argon in polyethylene glycols of different molecular weights. <i>Journal of Supercritical Fluids</i> , 2015 , 103, 10-17	4.2	10
98	Two-stage extraction of antitumor, antioxidant and antiacetylcholinesterase compounds from <i>Ganoderma lucidum</i> fruiting body. <i>Journal of Supercritical Fluids</i> , 2014 , 91, 53-60	4.2	10
97	Phase equilibrium data of hydrogen in pyrolysis oil and hydrogenated pyrolysis oil at elevated pressures. <i>Journal of Supercritical Fluids</i> , 2013 , 80, 86-89	4.2	10
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95	Hydrolase-catalyzed reactions in membrane reactors at atmospheric and high pressure. <i>Desalination</i> , 2009 , 241, 14-21	10.3	10
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