

# Cyril Aymonier

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

178  
papers

5,694  
citations

38  
h-index

68  
g-index

193  
ext. papers

6,443  
ext. citations

6.3  
avg, IF

5.97  
L-index

#	Paper	IF	Citations
178	Supercritical carbon dioxide-based cleaning and sterilization treatments for the reuse of filtering facepiece respirators FFP2 in the context of COVID-19 pandemic. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 180, 105428	4.2	3
177	Infiltration of nickel and copper catalysts into a GDC backbone assisted by supercritical CO <sub>2</sub> for efficient SOFC anodes. <i>Sustainable Energy and Fuels</i> , <b>2022</b> , 6, 1801-1811	5.8	0
176	Sub- and supercritical hydrothermal route for the synthesis of xonotlite nanofibers for application to green concrete materials. <i>Journal of Supercritical Fluids</i> , <b>2022</b> , 184, 105583	4.2	0
175	Investigating (Pseudo)-Heterogeneous Pd-Catalysts for Kraft Lignin Depolymerization under Mild Aqueous Basic Conditions. <i>Catalysts</i> , <b>2021</b> , 11, 1311	4	0
174	Investigating nucleation and growth phenomena in microfluidic supercritical antisolvent process by coupling in situ fluorescence spectroscopy and direct numerical simulation. <i>Chemical Engineering Science</i> , <b>2021</b> , 248, 117240	4.4	2
173	Correlation between the Dynamics of Nanoconfined Water and the Local Chemical Environment in Calcium Silicate Hydrate Nanominerals. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11238	4.8	0
172	Correlation between the Dynamics of Nanoconfined Water and the Local Chemical Environment in Calcium Silicate Hydrate Nanominerals. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 11309-11318	4.8	0
171	Broadband Forward Light Scattering by Architectural Design of Core-Shell Silicon Particles. <i>Advanced Functional Materials</i> , <b>2021</b> , 31, 2100915	15.6	1
170	Hydrolysis-dehydration of cellulose to glucose and 5-hydroxymethylfurfural over Sibunit solid acid carbon catalysts under semi-flow conditions. <i>Wood Science and Technology</i> , <b>2021</b> , 55, 607-624	2.5	3
169	Chemistry Platform for the Ultrafast Continuous Synthesis of High-Quality III-V Quantum Dots. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 12965-12970	4.8	0
168	In situ fabrication of layered double hydroxide film immobilizing gold nanoparticles in capillary microreactor for efficient catalytic carbonylation of glycerol. <i>Molecular Catalysis</i> , <b>2021</b> , 513, 111825	3.3	1
167	A water-based process for the surface functionalisation of ceramic fibres. <i>Green Chemistry</i> , <b>2020</b> , 22, 8308-8315	10	0
166	Continuous supercritical solvothermal preparation of nanostructured ceria-zirconia as supports for dry methane reforming catalysts. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 162, 104855	4.2	8
165	Process intensification for the synthesis of ultra-small organic nanoparticles with supercritical CO <sub>2</sub> in a microfluidic system. <i>Chemical Engineering Journal</i> , <b>2020</b> , 397, 125333	14.7	13
164	One-Step Synthesis of Spin Crossover Nanoparticles Using Flow Chemistry and Supercritical CO <sub>2</sub> . <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 16286-16290	4.8	3
163	Kinetic modeling of the multistep hydrolysis-dehydration of cellulose to platform molecules over a solid carbon acid catalyst in pure water. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , <b>2020</b> , 130, 669-684	1.6	3
162	A new solvent system: Hydrothermal molten salt. <i>Science Advances</i> , <b>2020</b> , 6, eaaz7770	14.3	8

161	Wire-Like Tip-To-Tip Linked Assemblies of CdSe-CdS Quantum Rods Promoted on Supramolecular Nanofibers of Hybrid Organo- and Hydrogels. <i>ChemNanoMat</i> , <b>2020</b> , 6, 79-88	3.5	2
160	Unveiling the complexity of salt(s) in water under transcritical conditions. <i>Journal of Supercritical Fluids</i> , <b>2020</b> , 165, 104977	4.2	3
159	Stabilization of Tetragonal Zirconia Nanocrystallites Using an Original Supercritical-Based Synthesis Route. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8169-8181	9.6	4
158	Chemistry in supercritical fluids for the synthesis of metal nanomaterials. <i>Reaction Chemistry and Engineering</i> , <b>2019</b> , 4, 2030-2054	4.9	20
157	Positioning supercritical solvolysis among innovative recycling and current waste management scenarios for carbon fiber reinforced plastics thanks to comparative life cycle assessment. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 154, 104607	4.2	26
156	Role of CeO <sub>2</sub> -ZrO <sub>2</sub> Support for Structural, Textural and Functional Properties of Ni-based Catalysts Active in Dry Reforming of Methane. <i>E3S Web of Conferences</i> , <b>2019</b> , 108, 02018	0.5	2
155	Microfluidics and Surface-Enhanced Raman Spectroscopy: A Perfect Match for New Analytical Tools. <i>IEEE Transactions on Nanobioscience</i> , <b>2019</b> , 18, 558-566	3.4	8
154	Nanostructured materials for photocatalysis. <i>Chemical Society Reviews</i> , <b>2019</b> , 48, 3868-3902	58.5	479
153	A review of Ni and Co incorporation during talc synthesis: Applications to crystal chemistry, industrial compounds and natural Ni- and Co-rich ore. <i>Journal of Geochemical Exploration</i> , <b>2019</b> , 200, 27-36	3.8	4
152	Toward a sustainable preparation of tunable mesoporous silica. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 143, 139-145	4.2	3
151	Influence of multiphasic systems on salt(s) solubility in supercritical water: the case of NaCl and NaCl-Na <sub>2</sub> SO <sub>4</sub> . <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 152, 104567	4.2	12
150	Continuous Synthesis of Nanominerals in Supercritical Water. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 5814-5823	4.8	7
149	Supercritical Fluid Flow Synthesis to Support Sustainable Production of Engineered Nanomaterials: Case Study of Titanium Dioxide. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 5142-5151	8.3	15
148	Aggregation of Na <sub>2</sub> SO <sub>4</sub> Nanocrystals in Supercritical Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2018</b> , 57, 2376-2384	3.9	11
147	Herausforderungen bei der Synthese siliciumbasierter dielektrischer Metamaterialien. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 4568-4589	3.6	
146	Playing with chemistry in supercritical solvents and the associated technologies for advanced materials by design. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 134, 184-196	4.2	33
145	In situ Raman investigation of the preparation of HDS catalyst precursors using scCO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 141, 104-112	4.2	5
144	Fabrication of plasmonic TiN nanostructures by nitridation of nanoimprinted TiO <sub>2</sub> nanoparticles. <i>Journal of Materials Chemistry C</i> , <b>2018</b> , 6, 1399-1406	7.1	15

143	Solvothermal flow synthesis of zinc phosphate pigment. <i>Dalton Transactions</i> , <b>2018</b> , 47, 9136-9142	4.3	4
142	Nanofiber-Directed Anisotropic Self-Assembly of CdSe-CdS Quantum Rods for Linearly Polarized Light Emission Evidenced by Quantum Rod Orientation Microscopy. <i>Small</i> , <b>2018</b> , 14, e1802311	11	7
141	Supercritical hydrothermal flow synthesis of xonotlite nanofibers. <i>Journal of Flow Chemistry</i> , <b>2018</b> , 8, 89-95	3.3	7
140	CHAPTER 10:Materials Processing and Recycling with Near- and Supercritical CO <sub>2</sub> -based Solvents. <i>RSC Green Chemistry</i> , <b>2018</b> , 304-339	0.9	4
139	Silicon-Based Dielectric Metamaterials: Focus on the Current Synthetic Challenges. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 4478-4498	16.4	27
138	Preparation of ceramic materials using supercritical fluid chemical deposition. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 141, 113-119	4.2	3
137	Synthetic Talc and Talc-Like Structures: Preparation, Features and Applications. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 519-542	4.8	34
136	Specific core-shell approaches and related properties in nanostructured ferroelectric ceramics. <i>Ferroelectrics</i> , <b>2018</b> , 532, 138-159	0.6	4
135	Supercritical CO <sub>2</sub> -assisted deposition of NiO on (101)-anatase-TiO <sub>2</sub> for efficient facet engineered photocatalysts. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 18649-18658	3.6	7
134	Ba <sub>0.6</sub> Sr <sub>0.4</sub> TiO <sub>3</sub> Thin Films Deposited by Spray Coating for High Capacitance Density Capacitors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800478	1.6	2
133	Flow supercritical synthesis of brucite and magnesian T-O, T-O-T phyllosilicates: an opportunity to tune the structure with the solvent composition. <i>Clay Minerals</i> , <b>2018</b> , 53, 497-503	1.3	0
132	Hydrothermal SolubilizationHydrolysisDehydration of Cellulose to Glucose and 5-Hydroxymethylfurfural Over Solid Acid Carbon Catalysts. <i>Topics in Catalysis</i> , <b>2018</b> , 61, 1912-1927	2.3	27
131	An effective in situ reduction strategy assisted by supercritical fluids for the preparation of graphene - polymer composites. <i>Carbon</i> , <b>2018</b> , 139, 572-580	10.4	10
130	Ultra-Fast Supercritical Hydrothermal Synthesis of Tobermorite under Thermodynamically Metastable Conditions. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3162-3167	16.4	9
129	Advances in Subcritical Hydro-/Solvothermal Processing of Graphene Materials. <i>Advanced Materials</i> , <b>2017</b> , 29, 1605473	24	44
128	Ultra-Fast Supercritical Hydrothermal Synthesis of Tobermorite under Thermodynamically Metastable Conditions. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3210-3215	3.6	9
127	Supercritical CO <sub>2</sub> Assisted Preparation of Supported Molybdenum Phosphide for Hydrotreating Catalysis. <i>ChemCatChem</i> , <b>2017</b> , 9, 2352-2357	5.2	7
126	CeO <sub>2</sub> nanopowders as solid sorbents for efficient CO <sub>2</sub> capture/release processes. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2017</b> , 20, 52-58	7.6	23

125	A comparative study of copper thin films deposited using magnetron sputtering and supercritical fluid deposition techniques. <i>Thin Solid Films</i> , <b>2017</b> , 643, 53-59	2.2	16
124	Investigation of the precipitation of Na <sub>2</sub> SO <sub>4</sub> in supercritical water. <i>Chemical Engineering Science</i> , <b>2017</b> , 174, 268-276	4.4	24
123	Evaluating nanotechnology opportunities and risks through integration of life-cycle and risk assessment. <i>Nature Nanotechnology</i> , <b>2017</b> , 12, 734-739	28.7	41
122	Instant One-Pot Preparation of Functional Layered Double Hydroxides (LDHs) via a Continuous Hydrothermal Approach. <i>ChemNanoMat</i> , <b>2017</b> , 3, 614-619	3.5	11
121	Solubility of inorganic salts in sub- and supercritical hydrothermal environment: Application to SCWO processes. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 120, 18-31	4.2	65
120	Simultaneous Graphite Exfoliation and N Doping in Supercritical Ammonia. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 30964-30971	9.5	29
119	Prospects of Supercritical Fluids in Realizing Graphene-Based Functional Materials. <i>Advanced Materials</i> , <b>2016</b> , 28, 2663-91	24	54
118	Anticipatory life-cycle assessment of supercritical fluid synthesis of barium strontium titanate nanoparticles. <i>Green Chemistry</i> , <b>2016</b> , 18, 4924-4933	10	22
117	Preparation of Nanomaterials in Flow at Supercritical Conditions from Coordination Complexes. <i>Topics in Organometallic Chemistry</i> , <b>2016</b> , 177-211	0.6	4
116	Simple salts of abundant metals (Fe, Bi, and Ti) supported on montmorillonite as efficient and recyclable catalysts for regioselective intramolecular and intermolecular hydroalkoxylation reactions of double bonds and tandem processes. <i>RSC Advances</i> , <b>2016</b> , 6, 19807-19818	3.7	10
115	Tuning surface grafting density of CeO <sub>2</sub> nanocrystals with near- and supercritical solvent characteristics. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 1727-34	3.6	19
114	Pd@[nBu][Br] as a Simple Catalytic System for N-Alkylation Reactions with Alcohols. <i>Molecules</i> , <b>2016</b> , 21,	4.8	3
113	Fast-Geomimicking using Chemistry in Supercritical Water. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 10022-10025	3.6	8
112	Fast-Geomimicking using Chemistry in Supercritical Water. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 9868-71	16.4	18
111	Continuous supercritical route for quantum-confined GaN nanoparticles. <i>Reaction Chemistry and Engineering</i> , <b>2016</b> , 1, 151-155	4.9	19
110	Insights into BaTi <sub>1-x</sub> Zr <sub>y</sub> O <sub>3</sub> (0 ≤ x ≤ 1) Synthesis under Supercritical Fluid Conditions. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3391-3400	9.6	17
109	High Yield Synthesis of Aspect Ratio Controlled Graphenic Materials from Anthracite Coal in Supercritical Fluids. <i>ACS Nano</i> , <b>2016</b> , 10, 5293-303	16.7	51
108	Semi-continuous flow recycling method for carbon fibre reinforced thermoset polymers by near- and supercritical solvolysis. <i>Polymer Degradation and Stability</i> , <b>2016</b> , 133, 264-274	4.7	36

107	Continuous supercritical synthesis of unsupported and high specific surface area catalyst precursors for deep-hydrodesulfurization. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 117, 252-259	4.2	7
106	Implementation of in situ SAXS/WAXS characterization into silicon/glass microreactors. <i>Lab on A Chip</i> , <b>2015</b> , 15, 2002-8	7.2	23
105	Continuous BaTi <sub>1-x</sub> Zr <sub>x</sub> O <sub>3</sub> (0 ≤ x ≤ 1) nanocrystals synthesis in supercritical fluids for nanostructured lead-free ferroelectric ceramics. <i>Materials and Design</i> , <b>2015</b> , 86, 354-360	8.1	26
104	Continuous synthesis of high quality CdSe quantum dots in supercritical fluids. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 7561-7566	7.1	28
103	Microfluidic supercritical antisolvent continuous processing and direct spray-coating of poly(3-hexylthiophene) nanoparticles for OFET devices. <i>Chemical Communications</i> , <b>2015</b> , 51, 1008-11	5.8	34
102	Noble metals supported on carbon nanotubes using supercritical fluids for the preparation of composite materials: A look at the interface. <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 101, 110-116	4.2	18
101	Creation of interfaces in composite/hybrid nanostructured materials using supercritical fluids. <i>Nanotechnology Reviews</i> , <b>2015</b> , 4,	6.3	12
100	ScCO <sub>2</sub> assisted preparation of supported metal NPs. Application to catalyst design.. <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 105, 84-91	4.2	15
99	Effect of Thermal Treatment on the Textural Properties of CeO <sub>2</sub> Powders Synthesized in Near- and Supercritical Alcohols. <i>ChemPhysChem</i> , <b>2015</b> , 16, 3493-9	3.2	12
98	Local Distortions in Nanostructured Ferroelectric Ceramics through Strain Tuning. <i>Advanced Electronic Materials</i> , <b>2015</b> , 1, 1500190	6.4	9
97	Preparation of Nickel Phosphide Hydrodesulfurization Catalysts Assisted by Supercritical Carbon Dioxide. <i>ChemCatChem</i> , <b>2015</b> , 7, 3441-3444	5.2	8
96	Innovative architectures in ferroelectric multi-materials: Chemistry, interfaces and strain. <i>Journal of Advanced Dielectrics</i> , <b>2015</b> , 05, 1530001	1.3	8
95	Defect chemistry in ferroelectric perovskites: long standing issues and recent advances. <i>Dalton Transactions</i> , <b>2015</b> , 44, 13411-8	4.3	16
94	Simultaneous measurement of fluids density and viscosity using HP/HT capillary devices. <i>Journal of Supercritical Fluids</i> , <b>2015</b> , 105, 186-192	4.2	8
93	Advanced nanostructured catalysts for hydroboration. <i>Catalysis Today</i> , <b>2015</b> , 255, 60-65	5.3	7
92	Fast and continuous processing of a new sub-micronic lanthanide-based metal-organic framework. <i>New Journal of Chemistry</i> , <b>2014</b> , 38, 1477-1483	3.6	35
91	CeO <sub>2</sub> nanocrystals from supercritical alcohols: new opportunities for versatile functionalizations?. <i>Langmuir</i> , <b>2014</b> , 30, 5965-72	4	39
90	Catalysed stereodivergent hydrosilylation with Onium Salts stabilised M(0) nanocatalysts prepared in scCO <sub>2</sub> . <i>RSC Advances</i> , <b>2014</b> , 4, 59953-59960	3.7	10

89	A microfluidic approach for investigating multicomponent system thermodynamics at high pressures and temperatures. <i>Lab on A Chip</i> , <b>2014</b> , 14, 3843-9	7.2	45
88	Environmental Feasibility of the Recycling of Carbon Fibers from CFRPs by Solvolysis Using Supercritical Water. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 1498-1502	8.3	65
87	Highly Reactive Pd NCs by Versatile Continuous Supercritical Fluids Synthesis for the Preparation of Metal-Free Pd-Based NCs. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 14017-14025	3.8	12
86	Supercritical fluid technology: A reliable process for high quality BaTiO <sub>3</sub> based nanomaterials. <i>Advanced Powder Technology</i> , <b>2014</b> , 25, 1415-1429	4.6	57
85	Coupling in situ synchrotron radiation with ex situ spectroscopy characterizations to study the formation of Ba <sub>1-x</sub> Sr <sub>x</sub> TiO <sub>3</sub> nanoparticles in supercritical fluids. <i>Journal of Supercritical Fluids</i> , <b>2014</b> , 87, 111-117	4.2	38
84	Hydrolysis in Near- and Supercritical Water for Biomass Conversion and Material Recycling <b>2014</b> , 139-156		6
83	Sequential dehydrogenation-arylation of diisopropylamine-borane complex catalyzed by palladium nanoparticles. <i>Tetrahedron</i> , <b>2014</b> , 70, 6156-6161	2.4	15
82	Influence of crystallinity and particle size on the electrochemical properties of spray pyrolyzed Nd <sub>2</sub> NiO <sub>4</sub> +P powders. <i>Electrochimica Acta</i> , <b>2013</b> , 87, 330-335	6.7	15
81	Supercritical fluid chemical deposition of Pd nanoparticles on magnesium-cadmium alloy for hydrogen storage. <i>Journal of Alloys and Compounds</i> , <b>2013</b> , 574, 6-12	5.7	11
80	Numerical simulation of dripping and jetting in supercritical fluids/liquid micro coflows. <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 81, 15-22	4.2	20
79	Supercritical Water Biomass Gasification Process As a Successful Solution to Valorize Wine Distillery Wastewaters. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2013</b> , 1, 110-117	8.3	13
78	Synthesis of cerium oxide-based nanostructures in near- and supercritical fluids. <i>Journal of Supercritical Fluids</i> , <b>2013</b> , 84, 89-97	4.2	28
77	Continuous supercritical synthesis of high quality UV-emitting ZnO nanocrystals for optochemical applications. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 5058	7.1	20
76	Luminescence properties of ZrO <sub>2</sub> mesoporous thin films doped with Eu <sup>3+</sup> and Ag <sup>n</sup> . <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 170, 123-130	5.3	12
75	Ultrafast and continuous synthesis of crystalline ferrite nanoparticles in supercritical ethanol. <i>Nanoscale</i> , <b>2013</b> , 5, 2126-32	7.7	30
74	Hybrid organogels and aerogels from co-assembly of structurally different low molecular weight gelators. <i>Journal of Materials Chemistry C</i> , <b>2013</b> , 1, 3305	7.1	26
73	Continuous coflow synthesis of hybrid palladium nanocrystals as catalysts for borylation reaction. <i>Nanoscale</i> , <b>2013</b> , 5, 12425-31	7.7	20
72	Degradation pathways of holocellulose, lignin and β-cellulose from <i>Pteris vittata</i> fronds in sub- and super critical conditions. <i>Biomass and Bioenergy</i> , <b>2012</b> , 43, 65-71	5.3	37



71	Supercritical fluid deposition of compositionally uniform yttria stabilized zirconia films. <i>Journal of Supercritical Fluids</i> , <b>2012</b> , 66, 328-332	4.2	13
70	Supercritical microfluidics: Opportunities in flow-through chemistry and materials science. <i>Journal of Supercritical Fluids</i> , <b>2012</b> , 66, 251-264	4.2	109
69	Near- and supercritical solvolysis of carbon fibre reinforced polymers (CFRPs) for recycling carbon fibers as a valuable resource: State of the art. <i>Journal of Supercritical Fluids</i> , <b>2012</b> , 66, 232-240	4.2	139
68	Corrosion of ceramics for vinasse gasification in supercritical water. <i>Journal of the European Ceramic Society</i> , <b>2012</b> , 32, 2219-2233	6	11
67	Breathing particles for controlling thermo-sequential on/off drug delivery. <i>ChemPhysChem</i> , <b>2012</b> , 13, 692-4	3.2	7
66	Microfluidic approach for studying CO <sub>2</sub> solubility in water and brine using confocal Raman spectroscopy. <i>Chemical Physics Letters</i> , <b>2012</b> , 551, 139-143	2.5	54
65	Near- and supercritical alcohols as solvents and surface modifiers for the continuous synthesis of cerium oxide nanoparticles. <i>Langmuir</i> , <b>2012</b> , 28, 16656-63	4	77
64	Nanostructured Materials Synthesis in Supercritical Fluids for Catalysis Applications <b>2012</b> , 281-310		
63	Crosslinked polynorbornene particles synthesis by ring-opening metathesis polymerization in dispersion. <i>Journal of Polymer Science Part A</i> , <b>2012</b> , 50, 1746-1754	2.5	8
62	Microfluidic Synthesis of Palladium Nanocrystals Assisted by Supercritical CO <sub>2</sub> : Tailored Surface Properties for Applications in Boron Chemistry. <i>Angewandte Chemie</i> , <b>2012</b> , 124, 8653-8656	3.6	10
61	Microfluidic synthesis of palladium nanocrystals assisted by supercritical CO <sub>2</sub> : tailored surface properties for applications in boron chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2012</b> , 51, 8525-8	16.4	35
60	Low-Temperature Deposition of Undoped Ceria Thin Films in scCO <sub>2</sub> As Improved Interlayers for IT-SOFC. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 5323-5330	9.6	22
59	Some recent advances in the design and the use of miniaturized droplet-based continuous process: applications in chemistry and high-pressure microflows. <i>Lab on A Chip</i> , <b>2011</b> , 11, 779-87	7.2	62
58	Supercritical Fluid Chemical Deposition as an Alternative Process to CVD for the Surface Modification of Materials. <i>Chemical Vapor Deposition</i> , <b>2011</b> , 17, 342-352		29
57	Synthesis of Exciton Luminescent ZnO Nanocrystals Using Continuous Supercritical Microfluidics. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 12277-12280	3.6	13
56	Synthesis of exciton luminescent ZnO nanocrystals using continuous supercritical microfluidics. <i>Angewandte Chemie - International Edition</i> , <b>2011</b> , 50, 12071-4	16.4	53
55	Self-assembled composite nano-materials exploiting a thermo reversible n-acene fibrillar scaffold and organic-capped ZnO nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 2740		29
54	Thermogravimetric analysis as a new method to determine the lignocellulosic composition of biomass. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 298-307	5.3	416



53	Conversion of fern ( <i>Pteris vittata</i> L.) biomass from a phytoremediation trial in sub- and supercritical water conditions. <i>Biomass and Bioenergy</i> , <b>2011</b> , 35, 872-883	5.3	43
52	Doped / Undoped Ceria Buffer Layers for Improved LT SOFC Performances with Pr <sub>2</sub> NiO <sub>4</sub> +□ Cathode. <i>ECS Transactions</i> , <b>2011</b> , 35, 1945-1954	1	3
51	Design and Packaging of Microreactors for High Pressure and High Temperature Applications. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 11310-11320	3.9	139
50	Structural relationships in 2,3-bis-n-decyloxyanthracene and 12-hydroxystearic acid molecular gels and aerogels processed in supercritical CO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 11409-19	3.4	22
49	Host-guest inclusion compound from nitramine crystals exposed to condensed carbon dioxide. <i>Chemistry - A European Journal</i> , <b>2010</b> , 16, 13473-8	4.8	19
48	Supercritical water for environmental technologies. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2010</b> , 85, 583-589	3.5	96
47	Nanopowder synthesis of the SOFC cathode material Nd <sub>2</sub> NiO <sub>4</sub> +□ by ultrasonic spray pyrolysis. <i>Solid State Ionics</i> , <b>2010</b> , 181, 1015-1023	3.3	11
46	New trends in supercritical fluids: Energy; materials; processing. A special issue 9th International Symposium on Supercritical Fluids, May 18-20, 2009, Arcachon, France. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 53, 1	4.2	4
45	Supported metal NPs on magnesium using SCFs for hydrogen storage: Interface and interphase characterization. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 53, 102-107	4.2	32
44	Gasification study of winery waste using a hydrothermal diamond anvil cell. <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 53, 72-81	4.2	18
43	Development of an improved falling ball viscometer for high-pressure measurements with supercritical CO <sub>2</sub> . <i>Journal of Supercritical Fluids</i> , <b>2010</b> , 55, 96-106	4.2	30
42	Dripping to jetting transitions observed from supercritical fluid in liquid microflows. <i>Applied Physics Letters</i> , <b>2009</b> , 95, 134105	3.4	41
41	Application of Polymer Swelling by scCO <sub>2</sub> to the Synthesis of Polymer/Metal Nanocomposites. <i>Solid State Phenomena</i> , <b>2009</b> , 151, 24-29	0.4	1
40	Monodisperse model to predict the growth of inorganic nanostructured particles in supercritical fluids through a coalescence and aggregation mechanism. <i>Journal of Supercritical Fluids</i> , <b>2009</b> , 48, 79-84	4.2	23
39	Design of functional nanostructured materials using supercritical fluids. <i>Journal of Supercritical Fluids</i> , <b>2009</b> , 47, 508-516	4.2	177
38	Synthesis and Characterization of Functionalized Polysiloxane for the Stabilization of Catalytically Active Metal Nanoparticles. <i>Macromolecules</i> , <b>2009</b> , 42, 4937-4940	5.5	19
37	Kinetically Controlled Formation of Supported Nanoparticles in Low Temperature Supercritical Media for the Development of Advanced Nanostructured Materials. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 5096-5104	3.8	44
36	Hybrid Materials Combining Photoactive 2,3-DidecyloxyAnthracene Physical Gels and Gold Nanoparticles. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3424-3432	9.6	58

35	Hydrogen sorption properties of magnesium particles decorated with metallic nanoparticles as catalyst. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 476, 152-159	5-7	42
34	In situ IR spectroscopy and ab initio calculations to study polymer swelling by supercritical CO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 897-905	3-4	37
33	Preparation of functional hybrid palladium nanoparticles using supercritical fluids: a novel approach to detach the growth and functionalization steps. <i>Chemical Communications</i> , <b>2008</b> , 1428-30	5-8	21
32	Tailor-made surface properties of particles with a hydrophilic or hydrophobic polymer shell mediated by supercritical CO <sub>2</sub> . <i>Langmuir</i> , <b>2008</b> , 24, 252-8	4	18
31	Formation of controlled alumina films using Supercritical Fluids Chemical Deposition for electronic and telecommunication devices. <i>Materials Research Society Symposia Proceedings</i> , <b>2008</b> , 1113, 1		
30	Current and foreseeable applications of supercritical water for energy and the environment. <i>ChemSusChem</i> , <b>2008</b> , 1, 486-503	8-3	145
29	Tuning Al <sub>2</sub> O <sub>3</sub> crystallinity under supercritical fluid conditions: Effect on sintering. <i>Journal of the European Ceramic Society</i> , <b>2008</b> , 28, 223-228	6	23
28	General approach for the synthesis of organic-inorganic hybrid nanoparticles mediated by supercritical CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 10602-6	16-4	44
27	Processes Using Supercritical Fluids: A Sustainable Approach for the Design of Functional Nanomaterials. <i>International Journal of Chemical Reactor Engineering</i> , <b>2007</b> , 5,	1-2	5
26	Particle decoration in super critical fluid to improve the hydrogen sorption cyclability of magnesium. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 429, 250-254	5-7	23
25	Continuous supercritical synthesis and dielectric behaviour of the whole BST solid solution. <i>Nanotechnology</i> , <b>2006</b> , 17, 3527-32	3-4	27
24	Design at the nanometre scale of multifunctional materials using supercritical fluid chemical deposition. <i>Nanotechnology</i> , <b>2006</b> , 17, 4594-9	3-4	29
23	Dendritic Core-Shell Macromolecules Soluble in Supercritical Carbon Dioxide. <i>Macromolecules</i> , <b>2006</b> , 39, 3978-3979	5-5	21
22	Bringing together fundamental and applied science: The supercritical fluids route. <i>Journal of Molecular Liquids</i> , <b>2006</b> , 125, 88-99	6	33
21	Review of supercritical fluids in inorganic materials science. <i>Journal of Supercritical Fluids</i> , <b>2006</b> , 38, 242-251	4-5	235
20	Supercritical fluid techniques. <i>European Journal of Control</i> , <b>2006</b> , 31, 317-337	2-5	2
19	The ferroelectric transition temperature as an intrinsic probe for sintered nanocrystalline BaTiO <sub>3</sub> synthesized under supercritical conditions. <i>Nanotechnology</i> , <b>2005</b> , 16, 797-802	3-4	13
18	Core-Shell-Structured Highly Branched Poly(ethylenimine amide)s: Synthesis and Structure. <i>Macromolecules</i> , <b>2005</b> , 38, 5914-5920	5-5	42

17	Single-step synthesis of well-crystallized and pure barium titanate nanoparticles in supercritical fluids. <i>Nanotechnology</i> , <b>2005</b> , 16, 1137-1143	3.4	65
16	Supercritical fluid route for synthesizing crystalline Barium Strontium Titanate nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 1741-4	1.3	21
15	Supercritical fluid technology of nanoparticle coating for new ceramic materials. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2005</b> , 5, 980-3	1.3	24
14	One-step Solvothermal Synthesis and Characterization of BaTiO <sub>3</sub> Nanoparticles. <i>Materials Research Society Symposia Proceedings</i> , <b>2005</b> , 878, 1		
13	Shape-Selective Synthesis of Palladium Nanoparticles Stabilized by Highly Branched Amphiphilic Polymers. <i>Advanced Functional Materials</i> , <b>2004</b> , 14, 999-1004	15.6	76
12	Synthesis of nanostructured materials in supercritical ammonia: nitrides, metals and oxides. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 228		72
11	Solution Structure of Metal Particles Prepared in Unimolecular Reactors of Amphiphilic Hyperbranched Macromolecules. <i>Macromolecules</i> , <b>2004</b> , 37, 7893-7900	5.5	44
10	Poly(Methyl methacrylate)/Palladium Nanocomposites: Synthesis and Characterization of the Morphological, Thermomechanical, and Thermal Properties. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4874-4878 <sup>9.6</sup>		80
9	Review on materials science and supercritical fluids. <i>Current Opinion in Solid State and Materials Science</i> , <b>2003</b> , 7, 331-340	12	133
8	Experiments and Simulations of Time-Dependant Phenomena in a Hydrothermal Oxidation Tubular Reactor. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2003</b> , 42, 4708-4714	3.9	7
7	Supercritical Fluids as New Reaction Media to Synthesize Nanostructured Materials. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 775, 1161		
6	Hybrids of silver nanoparticles with amphiphilic hyperbranched macromolecules exhibiting antimicrobial properties. <i>Chemical Communications</i> , <b>2002</b> , 3018-9	5.8	291
5	Global reaction heat of acetic acid oxidation in supercritical water. <i>Journal of Supercritical Fluids</i> , <b>2001</b> , 21, 219-226	4.2	10
4	Data for scaling-up hydrothermal waste water treatment process. <i>High Pressure Research</i> , <b>2001</b> , 20, 507-514		
3	Determination of Hydrothermal Oxidation Reaction Heats by Experimental and Simulation Investigations. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2001</b> , 40, 114-118	3.9	16
2	Hydrothermal oxidation of a nitrogen-containing compound: the fenuron. <i>Journal of Supercritical Fluids</i> , <b>2000</b> , 17, 45-54	4.2	53
1	Ultrasound for Hydrothermal Treatments of Aqueous Wastes: Solution for Overcoming Salt Precipitation and Corrosion. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2000</b> , 39, 4734-4740	3.9	17