

Steven Howdle

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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.

310
papers

12,848
citations

62
h-index

97
g-index

322
ext. papers

13,667
ext. citations

6.8
avg, IF

6.09
L-index

#	Paper	IF	Citations
310	Silver nanoparticles and polymeric medical devices: a new approach to prevention of infection?. <i>Journal of Antimicrobial Chemotherapy</i> , 2004 , 54, 1019-24	5.1	590
309	Water-in-Carbon Dioxide Microemulsions: An Environment for Hydrophiles Including Proteins. <i>Science</i> , 1996 , 271, 624-626	33.3	499
308	Materials processing in supercritical carbon dioxide: surfactants, polymers and biomaterials. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1663		237
307	Human osteoprogenitor growth and differentiation on synthetic biodegradable structures after surface modification. <i>Bone</i> , 2001 , 29, 523-31	4.7	236
306	Applications of supercritical CO ₂ in the fabrication of polymer systems for drug delivery and tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2008 , 60, 373-87	18.5	234
305	Growth factor release from tissue engineering scaffolds. <i>Journal of Pharmacy and Pharmacology</i> , 2001 , 53, 1427-37	4.8	203
304	Water in Supercritical Carbon Dioxide Microemulsions: Spectroscopic Investigation of a New Environment for Aqueous Inorganic Chemistry. <i>Journal of the American Chemical Society</i> , 1997 , 119, 6399-6406	16.4	197
303	The effect of the delivery of vascular endothelial growth factor and bone morphogenic protein-2 to osteoprogenitor cell populations on bone formation. <i>Biomaterials</i> , 2010 , 31, 1242-50	15.6	186
302	The effect of anisotropic architecture on cell and tissue infiltration into tissue engineering scaffolds. <i>Biomaterials</i> , 2006 , 27, 5909-17	15.6	179
301	Control of pore size and structure of tissue engineering scaffolds produced by supercritical fluid processing. <i>European Cells and Materials</i> , 2007 , 14, 64-77	4.3	174
300	Supercritical fluid technologies and tissue engineering scaffolds. <i>Current Opinion in Solid State and Materials Science</i> , 2004 , 8, 313-321	12	173
299	PEGylated chitosan derivatives: Synthesis, characterizations and pharmaceutical applications. <i>Progress in Polymer Science</i> , 2012 , 37, 659-685	29.6	171
298	Supercritical fluid mixing: preparation of thermally sensitive polymer composites containing bioactive materials. <i>Chemical Communications</i> , 2001 , 109-110	5.8	169
297	The influence of dispersant concentration on the pore morphology of hydroxyapatite ceramics for bone tissue engineering. <i>Biomaterials</i> , 2005 , 26, 697-702	15.6	143
296	Adenoviral BMP-2 gene transfer in mesenchymal stem cells: in vitro and in vivo bone formation on biodegradable polymer scaffolds. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 292, 144-147	3.4	141
295	Vibrational Spectroscopy in Supercritical Fluids: From Analysis and Hydrogen Bonding to Polymers and Synthesis. <i>Angewandte Chemie International Edition in English</i> , 1995 , 34, 1275-1295		139
294	Induction of human osteoprogenitor chemotaxis, proliferation, differentiation, and bone formation by osteoblast stimulating factor-1/pleiotrophin: osteoconductive biomimetic scaffolds for tissue engineering. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 47-57	6.3	129

293	Solubilization in nonionic reverse micelles in carbon dioxide. <i>AIChE Journal</i> , 1994 , 40, 543-555	3.6	123
292	The effect of mesenchymal populations and vascular endothelial growth factor delivered from biodegradable polymer scaffolds on bone formation. <i>Biomaterials</i> , 2008 , 29, 1892-900	15.6	122
291	In vitro assessment of cell penetration into porous hydroxyapatite scaffolds with a central aligned channel. <i>Biomaterials</i> , 2004 , 25, 5507-14	15.6	122
290	Enzyme-Catalyzed Ring-Opening Polymerization of ε-Caprolactone in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2004 , 37, 2450-2453	5.5	113
289	Three-Dimensional Bioactive and Biodegradable Scaffolds Fabricated by Surface-Selective Laser Sintering. <i>Advanced Materials</i> , 2004 , 17, 327-330	24	112
288	Clean preparation of nanoparticulate metals in porous supports: a supercritical route. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1898-1905		110
287	Characterisation of microcellular foams produced from semi-crystalline PCL using supercritical carbon dioxide. <i>European Polymer Journal</i> , 2006 , 42, 3145-3151	5.2	107
286	Can block copolymers be synthesized by a single-step chemoenzymatic route in supercritical carbon dioxide?. <i>Journal of the American Chemical Society</i> , 2005 , 127, 2384-5	16.4	106
285	Controlling Chain Growth: A New Strategy to Hyperbranched Materials. <i>Macromolecules</i> , 2007 , 40, 7184-7194	5.1	105
284	Porous methacrylate scaffolds: supercritical fluid fabrication and in vitro chondrocyte responses. <i>Biomaterials</i> , 2004 , 25, 3559-68	15.6	103
283	Human osteoprogenitor bone formation using encapsulated bone morphogenetic protein 2 in porous polymer scaffolds. <i>Tissue Engineering</i> , 2004 , 10, 1037-45		102
282	Using Plasma Deposits to Promote Cell Population of the Porous Interior of Three-Dimensional Poly(D,L-Lactic Acid) Tissue-Engineering Scaffolds. <i>Advanced Functional Materials</i> , 2005 , 15, 1134-1140	15.6	100
281	Porous inverse vulcanised polymers for mercury capture. <i>Chemical Communications</i> , 2016 , 52, 5383-6	5.8	91
280	Successful dispersion polymerization in supercritical CO ₂ using polyvinylalkylate hydrocarbon surfactants synthesized and anchored via RAFT. <i>Journal of the American Chemical Society</i> , 2008 , 130, 12242-3	16.4	89
279	One-pot synthesis of block copolymers in supercritical carbon dioxide: a simple versatile route to nanostructured microparticles. <i>Journal of the American Chemical Society</i> , 2012 , 134, 4772-81	16.4	88
278	The effect of processing variables on morphological and mechanical properties of supercritical CO ₂ foamed scaffolds for tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 61-71	10.8	88
277	The production of protein-loaded microparticles by supercritical fluid enhanced mixing and spraying. <i>Journal of Controlled Release</i> , 2005 , 101, 85-92	11.7	88
276	Surface-Enhanced Raman Scattering Using Microstructured Optical Fiber Substrates. <i>Advanced Functional Materials</i> , 2007 , 17, 2024-2030	15.6	87

275	Using a Core-Shell Distribution of Surface Chemistry through 3D Tissue Engineering Scaffolds to Control Cell Ingress. <i>Advanced Materials</i> , 2006 , 18, 1406-1410	24	85
274	Organometallic chemistry in supercritical fluids. The generation and detection of dinitrogen and nonclassical dihydrogen complexes of Group 6, 7, and 8 transition metals at room temperature. <i>Journal of the American Chemical Society</i> , 1990 , 112, 4804-4813	16.4	84
273	Block copolymer synthesis by controlled/living radical polymerisation in heterogeneous systems. <i>Chemical Society Reviews</i> , 2016 , 45, 5055-84	58.5	83
272	Silver Nanoparticle Impregnated Polycarbonate Substrates for Surface Enhanced Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2008 , 18, 1265-1271	15.6	83
271	Controlled Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide via RAFT. <i>Macromolecules</i> , 2008 , 41, 1215-1222	5.5	82
270	A highly effective gene delivery vector--hyperbranched poly(2-(dimethylamino)ethyl methacrylate) from in situ deactivation enhanced ATRP. <i>Chemical Communications</i> , 2010 , 46, 4698-700	5.8	81
269	Poly-3-hydroxyoctanoate P(3HO), a medium chain length polyhydroxyalkanoate homopolymer from <i>Pseudomonas mendocina</i> . <i>Biomacromolecules</i> , 2011 , 12, 2126-36	6.9	80
268	Kinetics of Enzymatic Ring-Opening Polymerization of ϵ -Caprolactone in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2006 , 39, 7967-7972	5.5	79
267	Drug delivery goes supercritical. <i>Materials Today</i> , 2005 , 8, 42-48	21.8	78
266	Osteoblast growth on titanium foils coated with hydroxyapatite by pulsed laser ablation. <i>Biomaterials</i> , 2001 , 22, 337-47	15.6	78
265	Immunoselection and adenoviral genetic modulation of human osteoprogenitors: in vivo bone formation on PLA scaffold. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 299, 208-15	3.4	78
264	Free Radical Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide Using a Pseudo-Graft Stabilizer: Effect of Monomer, Initiator, and Stabilizer Concentrations. <i>Macromolecules</i> , 2000 , 33, 9222-9227	5.5	77
263	Effect of PEGylation on the toxicity and permeability enhancement of chitosan. <i>Biomacromolecules</i> , 2010 , 11, 2854-65	6.9	74
262	Supercritical carbon dioxide generated vascular endothelial growth factor encapsulated poly(DL-lactic acid) scaffolds induce angiogenesis in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 352, 135-41	3.4	73
261	Advantages of Block Copolymer Synthesis by RAFT-Controlled Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2013 , 46, 6843-6851	5.5	70
260	Progress in the synthesis of sustainable polymers from terpenes and terpenoids. <i>Green Materials</i> , 2016 , 4, 115-134	3.2	67
259	Supercritical carbon dioxide: putting the fizz into biomaterials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2006 , 364, 249-61	3	67
258	Electrodeposition of metals from supercritical fluids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 14768-72	11.5	65

257	Thermoresponsive and photocrosslinkable PEGMEMA-PPGMA-EGDMA copolymers from a one-step ATRP synthesis. <i>Biomacromolecules</i> , 2009 , 10, 822-8	6.9	65
256	Photo-cross-linked hydrogels from thermoresponsive PEGMEMA-PPGMA-EGDMA copolymers containing multiple methacrylate groups: mechanical property, swelling, protein release, and cytotoxicity. <i>Biomacromolecules</i> , 2009 , 10, 2895-903	6.9	65
255	Dispersion polymerisation in supercritical CO ₂ using macro-RAFT agents. <i>Chemical Communications</i> , 2008 , 5942-4	5.8	65
254	Synthesis of Semifluorinated Block Copolymers Containing Poly(ϵ -caprolactone) by the Combination of ATRP and Enzymatic ROP in scCO ₂ . <i>Macromolecules</i> , 2006 , 39, 633-640	5.5	65
253	Laser stereolithography and supercritical fluid processing for custom-designed implant fabrication. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 123-8	4.5	65
252	Living Polymer Beads in Supercritical CO ₂ . <i>Macromolecules</i> , 2007 , 40, 2965-2967	5.5	64
251	Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide with a Monofunctional Pseudo-Graft Stabilizer. <i>Macromolecules</i> , 2000 , 33, 237-239	5.5	64
250	Fluorinated Graft Stabilizers for Polymerization in Supercritical Carbon Dioxide: The Effect of Stabilizer Architecture. <i>Macromolecules</i> , 2001 , 34, 20-25	5.5	64
249	Synthesis and Phase Behavior of CO ₂ -Soluble Hydrocarbon Copolymer: Poly(vinyl acetate-alt-dibutyl maleate). <i>Macromolecules</i> , 2010 , 43, 2276-2282	5.5	62
248	One-Step Chemoenzymatic Synthesis of Poly(ϵ -caprolactone-block-methyl methacrylate) in Supercritical CO ₂ . <i>Macromolecules</i> , 2006 , 39, 5352-5358	5.5	62
247	Sustained release hGH microsphere formulation produced by a novel supercritical fluid technology: in vivo studies. <i>Journal of Controlled Release</i> , 2010 , 141, 153-60	11.7	60
246	Supercritical fluids: A route to palladium-aerogel nanocomposites. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1212		60
245	Physical, chemical, and biological characterization of pulsed laser deposited and plasma sputtered hydroxyapatite thin films on titanium alloy. <i>Journal of Biomedical Materials Research Part B</i> , 2000 , 50, 536-45		60
244	Bacteria clustering by polymers induces the expression of quorum-sensing-controlled phenotypes. <i>Nature Chemistry</i> , 2013 , 5, 1058-65	17.6	59
243	Biocompatibility and osteogenic potential of human fetal femur-derived cells on surface selective laser sintered scaffolds. <i>Acta Biomaterialia</i> , 2009 , 5, 2063-71	10.8	59
242	Synthesis and characterisation of advanced UHMWPE/silver nanocomposites for biomedical applications. <i>European Polymer Journal</i> , 2007 , 43, 307-314	5.2	57
241	Synthesis of Graft Copolymers by the Combination of ATRP and Enzymatic ROP in scCO ₂ . <i>Macromolecules</i> , 2006 , 39, 9080-9086	5.5	57
240	Large-aperture variable-volume view cell for the determination of phase-equilibria in high pressure systems and supercritical fluids. <i>Review of Scientific Instruments</i> , 2004 , 75, 3233-3236	1.7	57

239	Sorption and swelling of poly(DL-lactic acid) and poly(lactic-co-glycolic acid) in supercritical CO ₂ : An experimental and modeling study. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2008 , 46, 483-496	2.6	56
238	Incorporation of Proteins into Polymer Materials by a Novel Supercritical Fluid Processing Method. <i>Advanced Materials</i> , 2002 , 14, 1802-1804	24	56
237	Scaffold for tissue engineering fabricated by non-isothermal supercritical carbon dioxide foaming of a highly crystalline polyester. <i>Acta Biomaterialia</i> , 2010 , 6, 130-6	10.8	55
236	Simultaneous enzymatic ring opening polymerisation and RAFT-mediated polymerisation in supercritical CO ₂ . <i>Chemical Communications</i> , 2006 , 4383-5	5.8	55
235	Putting the fizz into chemistry: applications of supercritical carbon dioxide in tissue engineering, drug delivery and synthesis of novel block copolymers. <i>Biochemical Society Transactions</i> , 2007 , 35, 516-21	5.1	54
234	A facile and green route to terpene derived acrylate and methacrylate monomers and simple free radical polymerisation to yield new renewable polymers and coatings. <i>Polymer Chemistry</i> , 2016 , 7, 2882-2887	4.0	54
233	Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide: An Investigation into Stabilizer Anchor Group. <i>Macromolecules</i> , 2005 , 38, 3271-3282	5.5	53
232	Thermal and diffusion processes in laser-induced stress relaxation and reshaping of cartilage. <i>Journal of Biomechanics</i> , 1997 , 30, 813-7	2.9	52
231	Macromonomer surfactants for the polymerisation of methyl methacrylate in supercritical CO ₂ . <i>Polymer</i> , 2000 , 41, 6715-6721	3.9	52
230	Controlling protein release from scaffolds using polymer blends and composites. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008 , 68, 82-9	5.7	50
229	Synthesis and application of new CO ₂ -soluble vinyl pivalate hydrocarbon stabilisers via RAFT polymerisation. <i>Polymer Chemistry</i> , 2011 , 2, 1293	4.9	49
228	Preparation of a Poly(methyl methacrylate)/Ultrahigh Molecular Weight Polyethylene Blend Using Supercritical Carbon Dioxide and the Identification of a Three-Phase Structure: An Atomic Force Microscopy Study. <i>Macromolecules</i> , 2002 , 35, 8869-8877	5.5	49
227	The effects of fluid density on the rotational Raman spectrum of hydrogen dissolved in supercritical carbon dioxide. <i>Chemical Physics Letters</i> , 1993 , 214, 215-219	2.5	49
226	Probing Vapor/Liquid Equilibria of Near-Critical Binary Gas Mixtures by Acoustic Measurements. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 9522-9526		48
225	Dispersion Atom Transfer Radical Polymerization of Vinyl Monomers in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2008 , 41, 8575-8583	5.5	47
224	Modular construction of multifunctional bioresponsive cell-targeted nanoparticles for gene delivery. <i>Bioconjugate Chemistry</i> , 2011 , 22, 156-68	6.3	46
223	Interconnectivity and permeability of supercritical fluid-foamed scaffolds and the effect of their structural properties on cell distribution. <i>Polymer</i> , 2014 , 55, 435-444	3.9	45
222	Preparation of cross-linked microparticles of poly(glycidyl methacrylate) by dispersion polymerization of glycidyl methacrylate using a PDMS macromonomer as stabilizer in supercritical carbon dioxide. <i>Polymer</i> , 2002 , 43, 6653-6659	3.9	44

221	Mammalian cell survival and processing in supercritical CO ₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 7426-31	11.5	43
220	Suspension Polymerization of L-Lactide in Supercritical Carbon Dioxide in the Presence of a Triblock Copolymer Stabilizer. <i>Macromolecules</i> , 2003 , 36, 5908-5911	5.5	43
219	Preparation of polymer/nanoparticle composite beads by a nanoparticle-stabilised suspension polymerisation. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4382		42
218	Controlled Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Australian Journal of Chemistry</i> , 2009 , 62, 786	1.2	41
217	New renewably-sourced polyesters from limonene-derived monomers. <i>Green Chemistry</i> , 2019 , 21, 149-156		40
216	A comparison of polymer and polymer-hydroxyapatite composite tissue engineered scaffolds for use in bone regeneration. An in vitro and in vivo study. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 2613-24	5.4	40
215	Studies on the interactions of CO ₂ with biodegradable poly(dl-lactic acid) and poly(lactic acid-co-glycolic acid) copolymers using high pressure ATR-IR and high pressure rheology. <i>Polymer</i> , 2010 , 51, 1425-1431	3.9	40
214	Gene therapy used for tissue engineering applications. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 329-50	4.8	39
213	The preparation of gold nanoparticle composites using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2007 , 42, 282-287	4.2	39
212	Amorphous Vanadium Phosphate Catalysts from Supercritical Antisolvent Precipitation. <i>Journal of Catalysis</i> , 2001 , 197, 232-235	7.3	39
211	Novel Graft Stabilizers for the Free Radical Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2000 , 33, 1996-1999	5.5	39
210	Biodegradable Core/Shell Materials via RAFT and ROP: Characterization and Comparison of Hyperbranched and Microgel Particles. <i>Macromolecules</i> , 2011 , 44, 1347-1354	5.5	38
209	In vitro antimicrobial activity of silver-processed catheters for neurosurgery. <i>Journal of Antimicrobial Chemotherapy</i> , 2010 , 65, 258-65	5.1	38
208	The application of human bone marrow stromal cells and poly(dl-lactic acid) as a biological bone graft extender in impaction bone grafting. <i>Biomaterials</i> , 2008 , 29, 3221-7	15.6	38
207	Synthesis and CO ₂ Solubility Studies of Poly(ether carbonate)s and Poly(ether ester)s Produced by Step Growth Polymerization. <i>Macromolecules</i> , 2005 , 38, 1691-1698	5.5	38
206	Macroparticle distribution and chemical composition of laser deposited apatite coatings. <i>Applied Physics Letters</i> , 1995 , 66, 2451-2453	3.4	38
205	Dynamic IR spectroscopy: occurrence and predictability of coalescence in the carbon monoxide stretching vibrations of ¹³ CO-enriched tricarbonyl(eta-4-norbornadiene)iron. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8347-8353	16.4	38
204	Tin(II) Ethyl Hexanoate Catalyzed Precipitation Polymerization of ε-Caprolactone in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005 , 38, 1190-1195	5.5	37

203	Silver(I) coordination polymers using thioether macrocycle building blocks. <i>Inorganic Chemistry</i> , 2000 , 39, 1035-8	5.1	37
202	New biomaterials from renewable resources β -amphiphilic block copolymers from β -decalactone. <i>Polymer Chemistry</i> , 2015 , 6, 7196-7210	4.9	36
201	Infrared spectroscopy and chemistry in liquid rare-gas solvents. <i>Faraday Discussions of the Chemical Society</i> , 1988 , 86, 271		36
200	High-pressure rheological analysis of CO ₂ -induced melting point depression and viscosity reduction of poly(ϵ -caprolactone). <i>Polymer</i> , 2015 , 69, 17-24	3.9	35
199	One-pot controlled synthesis of biodegradable and biocompatible co-polymer micelles. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4529		35
198	A facile synthetic route to aqueous dispersions of silver nanoparticles. <i>Materials Letters</i> , 2007 , 61, 4906-4910	3.9	35
197	Porous methacrylate tissue engineering scaffolds: using carbon dioxide to control porosity and interconnectivity. <i>Journal of Materials Science</i> , 2006 , 41, 4197	4.3	35
196	Plasticization and spraying of poly (DL-lactic acid) using supercritical carbon dioxide: control of particle size. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 1083-90	3.9	35
195	In-Situ Investigation on the Mechanism of Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2000 , 33, 4008-4014	5.5	35
194	Bioreducible cross-linked core polymer micelles enhance in vitro activity of methotrexate in breast cancer cells. <i>Biomaterials Science</i> , 2017 , 5, 532-550	7.4	34
193	Porous Copolymers of ϵ -Caprolactone as Scaffolds for Tissue Engineering. <i>Macromolecules</i> , 2013 , 46, 8136-8143	5.5	34
192	A novel synthetic route to metal/polymer nanocomposites by in situ suspension and bulk polymerizations. <i>European Polymer Journal</i> , 2008 , 44, 1331-1336	5.2	34
191	Charge Transfer Complex Inimer: A Facile Route to Dendritic Materials. <i>Advanced Materials</i> , 2003 , 15, 1348-1352	24	34
190	New vinyl ester copolymers as stabilisers for dispersion polymerisation in scCO ₂ . <i>Polymer</i> , 2011 , 52, 5403-5409	3.3	33
189	Copolymerization of Vinylidene Fluoride and Hexafluoropropylene in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005 , 38, 9135-9142	5.5	33
188	Uniform cell colonization of porous 3-D scaffolds achieved using radial control of surface chemistry. <i>Acta Biomaterialia</i> , 2011 , 7, 3336-44	10.8	32
187	Infrared Spectral Features Due to Very Rapid Fluxional Motion: Changes in the Infrared Carbonyl Stretching Spectra of Tricarbonyl(η -4-norbornadiene)iron with Temperature. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 17532-17538		32
186	Preparation of hybrid polymer nanocomposite microparticles by a nanoparticle stabilised dispersion polymerisation. <i>Journal of Materials Chemistry</i> , 2008 , 18, 998		31

185	Novel one pot synthesis of silver nanoparticle-polymer composites by supercritical CO ₂ polymerisation in the presence of a RAFT agent. <i>Chemical Communications</i> , 2007 , 3933-5	5.8	31
184	Polymerization of Vinylidene Fluoride in Supercritical Carbon Dioxide: Effects of Poly(dimethylsiloxane) Macromonomer on Molecular Weight and Morphology of Poly(vinylidene fluoride). <i>Macromolecules</i> , 2005 , 38, 355-363	5.5	31
183	New Thiolate-Cobalt(II) Complexes for Catalytic Chain Transfer Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2004 , 37, 6667-6669	5.5	31
182	The homo and copolymerisation of 2-(dimethylamino)ethyl methacrylate in supercritical carbon dioxide. <i>Polymer</i> , 2003 , 44, 3803-3809	3.9	31
181	Organometallic photochemistry in supercritical fluids: the reaction of H ₂ with [(η -C ₅ H ₅)M(CO) ₃](M Re and Mn) and the formation of a non-classical dihydrogen complex of manganese(I). <i>Journal of the Chemical Society Chemical Communications</i> , 1989 , 1099-1101		31
180	Supercritical CO ₂ : A Clean and Low Temperature Approach to Blending PDLLA and PEG. <i>Advanced Functional Materials</i> , 2012 , 22, 1684-1691	15.6	30
179	Synthetic polymers for simultaneous bacterial sequestration and quorum sense interference. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9852-6	16.4	30
178	Epoxy functionalised poly(epsilon-caprolactone): synthesis and application. <i>Chemical Communications</i> , 2008 , 5806-8	5.8	30
177	Image-based characterization of foamed polymeric tissue scaffolds. <i>Biomedical Materials (Bristol)</i> , 2008 , 3, 015011	3.5	30
176	Supercritical CO ₂ fluid-foaming of polymers to increase porosity: a method to improve the mechanical and biocompatibility characteristics for use as a potential alternative to allografts in impaction bone grafting?. <i>Acta Biomaterialia</i> , 2012 , 8, 1918-27	10.8	29
175	In vitro study of hydroxyapatite-based photocurable polymer composites prepared by laser stereolithography and supercritical fluid extraction. <i>Acta Biomaterialia</i> , 2008 , 4, 1603-10	10.8	29
174	Fabrication of polymer scaffolds for tissue engineering using surface selective laser sintering. <i>Laser Physics</i> , 2006 , 16, 774-787	1.2	29
173	Surface characterisation of bioadhesive PLGA/chitosan microparticles produced by supercritical fluid technology. <i>Pharmaceutical Research</i> , 2011 , 28, 1668-82	4.5	28
172	Copper bromide complexed by fluorinated macroligands: towards microspheres by ATRP of vinyl monomers in scCO ₂ . <i>Chemical Communications</i> , 2008 , 314-6	5.8	28
171	Supercritical carbon dioxide foaming of elastomer/heterocyclic methacrylate blends as scaffolds for tissue engineering. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4881		28
170	FTIR analysis of water in supercritical carbon dioxide microemulsions using monofunctional perfluoropolyether surfactants. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2003 , 214, 143-150	5.1	28
169	Preparative-scale organometallic chemistry in supercritical fluids; isolation of [Cr(CO) ₅ (C ₂ H ₄)] as a stable solid at room temperature. <i>Journal of the Chemical Society Chemical Communications</i> , 1993 , 1814		28
168	Amphiphilic block copolymers from a renewable D-lactone monomer: prediction and characterization of micellar core effects on drug encapsulation and release. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 7119-7129	7.3	28

- 167 Supercritical CO₂: an effective medium for the chemo-enzymatic synthesis of block copolymers?. *Chemical Communications*, **2007**, 3805-13 5.8 27
- 166 Supercritical fluid assisted melting of poly(ethylene glycol): a new solvent-free route to microparticles. *Journal of Materials Chemistry*, **2005**, 15, 1148 27
- 165 Reversibly collapsible macroporous poly(styrene-divinylbenzene) resins. *Polymer*, **2000**, 41, 7273-7277 3.9 27
- 164 Solvent-Free Photochemical Activation of CH₄, C₂H₄, and C₂H₆ by (C₅Me₅)Ir(CO)₂ in Supercritical Fluid Solution. *Organometallics*, **1996**, 15, 1804-1812 3.8 27
- 163 Effects of poly(vinyl pivalate)-based stabiliser architecture on CO₂-solubility and stabilising ability in dispersion polymerisation of N-vinyl pyrrolidone. *Polymer Chemistry*, **2013**, 4, 3791 4.9 26
- 162 Controlled polymerisation of lactide using an organo-catalyst in supercritical carbon dioxide. *Green Chemistry*, **2011**, 13, 2032 10 26
- 161 Simultaneous Dynamic Kinetic Resolution in Combination with Enzymatic Ring-Opening Polymerization. *Macromolecules*, **2006**, 39, 7302-7305 5.5 26
- 160 Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide Using a Pseudo-Graft Stabilizer: Role of Reactor Mixing. *Macromolecules*, **2004**, 37, 2996-3004 5.5 26
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1	Synthesis of model terpene-derived copolymers in supercritical carbon dioxide for cosmetic applications. <i>European Polymer Journal</i> , 2021 , 157, 110621	5.2	