

Steven Howdle

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.

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	Exploiting the tuneable density of scCO ₂ to improve particle size control for dispersion polymerisations in the presence of poly(dimethyl siloxane) stabilisers. <i>European Polymer Journal</i> , 2022 , 168, 111108	5.2	1
309	Sustainable terpene triblock copolymers with tuneable properties for pressure sensitive adhesive applications. <i>Polymer Testing</i> , 2022 , 109, 107530	4.5	2
308	Green enzymatic synthesis and processing of poly (cis-9,10-epoxy-18-hydroxyoctadecanoic acid) in supercritical carbon dioxide (scCO ₂). <i>European Polymer Journal</i> , 2021 , 161, 110827	5.2	0
307	Terpene polyacrylate TPA5 shows favorable molecular hydrodynamic properties as a potential bioinspired archaeological wood consolidant. <i>Scientific Reports</i> , 2021 , 11, 7343	4.9	3
306	Functionalisable Epoxy-rich Electrospun Fibres Based on Renewable Terpene for Multi-Purpose Applications. <i>Polymers</i> , 2021 , 13,	4.5	4
305	Synthesis of novel carvone (meth)acrylate monomers for the production of hydrophilic polymers with high terpene content. <i>Polymer International</i> , 2021 , 70, 499-505	3.3	5
304	On-line polymerisation monitoring in scCO ₂ : a reliable and inexpensive sampling method in high pressure applications. <i>Journal of Supercritical Fluids</i> , 2021 , 167, 105047	4.2	3
303	Amylose/cellulose nanofiber composites for all-natural, fully biodegradable and flexible bioplastics. <i>Carbohydrate Polymers</i> , 2021 , 253, 117277	10.3	14
302	Synthesis of Passerini-3CR Polymers and Assembly into Cytocompatible Polymersomes. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000321	4.8	2
301	Porous hollow TiO ₂ microparticles for photocatalysis: exploiting novel ABC triblock terpolymer templates synthesised in supercritical CO ₂ . <i>Polymer Chemistry</i> , 2021 , 12, 2904-2913	4.9	1
300	Synthesis of water-soluble surfactants using catalysed condensation polymerisation in green reaction media. <i>Polymer Chemistry</i> , 2021 , 12, 2992-3003	4.9	1
299	RAFT polymerisation of renewable terpene (meth)acrylates and the convergent synthesis of methacrylate- <i>acrylate</i> -methacrylate triblock copolymers. <i>Polymer Chemistry</i> , 2021 , 12, 3177-3189	4.9	9
298	Poly (glycerol adipate) (PGA) backbone modifications with a library of functional diols: Chemical and physical effects. <i>Polymer</i> , 2021 , 228, 123912	3.9	3
297	Synthesis of model terpene-derived copolymers in supercritical carbon dioxide for cosmetic applications. <i>European Polymer Journal</i> , 2021 , 157, 110621	5.2	
296	Starch/Poly(glycerol-adipate) Nanocomposites: A Novel Oral Drug Delivery Device. <i>Coatings</i> , 2020 , 10, 125	2.9	3
295	Comparison of polymeric particles synthesised using scCO ₂ as the reaction medium on the millilitre and litre scale. <i>Journal of Supercritical Fluids</i> , 2020 , 160, 104785	4.2	4
294	A greener-one-pot synthesis of monoterpene-functionalised lactide oligomers. <i>European Polymer Journal</i> , 2020 , 125, 109516	5.2	7

293	Enzymatic one-pot synthesis of renewable and biodegradable surfactants in supercritical carbon dioxide (scCO ₂). <i>Green Chemistry</i> , 2020 , 22, 1308-1318	10	6
292	Clean synthesis of linear and star amphiphilic poly(ε-caprolactone)-block-poly(ethyl ethylene phosphonate) block copolymers: assessing self-assembly and surface activity. <i>Green Chemistry</i> , 2020 , 22, 3248-3261	10	5
291	2-Methyltetrahydrofuran (2-MeTHF) as a versatile green solvent for the synthesis of amphiphilic copolymers via ROP, FRP, and RAFT tandem polymerizations. <i>Journal of Polymer Science</i> , 2020 , 58, 1571-1581	4.4	10
290	Low-temperature and purification-free stereocontrolled ring-opening polymerisation of lactide in supercritical carbon dioxide. <i>Green Chemistry</i> , 2020 , 22, 2197-2202	10	5
289	Synthesis of two-phase polymer particles in supercritical carbon dioxide. <i>Polymer Chemistry</i> , 2020 , 11, 5029-5039	4.9	
288	Influence of structure and solubility of chain transfer agents on the RAFT control of dispersion polymerisation in scCO. <i>Chemical Science</i> , 2020 , 12, 1016-1030	9.4	2
287	New renewably-sourced polyesters from limonene-derived monomers. <i>Green Chemistry</i> , 2019 , 21, 149-156	15.6	40
286	Monitoring morphology evolution within block copolymer microparticles during dispersion polymerisation in supercritical carbon dioxide: a high pressure SAXS study. <i>Polymer Chemistry</i> , 2019 , 10, 860-871	4.9	13
285	In situ crosslinking of nanostructured block copolymer microparticles in supercritical carbon dioxide. <i>Polymer Chemistry</i> , 2019 , 10, 3960-3972	4.9	1
284	Polyacrylates Derived from Biobased Ethyl Lactate Solvent via SET-LRP. <i>Biomacromolecules</i> , 2019 , 20, 2135-2147	6.9	14
283	Biocompatible Unimolecular Micelles Obtained via the Passerini Reaction as Versatile Nanocarriers for Potential Medical Applications. <i>Biomacromolecules</i> , 2019 , 20, 90-101	6.9	11
282	Epoxy-amine oligomers from terpenes with applications in synergistic antifungal treatments. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 5222-5229	7.3	11
281	Novel green route towards polyesters-based resin by photopolymerization of star polymers. <i>EXPRESS Polymer Letters</i> , 2019 , 13, 1104-1115	3.4	3
280	Highly coloured and electrophoretically active polymer microparticles via staggered dispersion polymerisation in supercritical carbon dioxide and dodecane. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 12194-12203	7.1	1
279	Hydrocarbon based stabilisers for the synthesis of cross-linked poly(2-hydroxyethyl methacrylate) particles in supercritical carbon dioxide. <i>Polymer Chemistry</i> , 2019 , 10, 5760-5770	4.9	2
278	Sustained-Release Hydromorphone Microparticles Produced by Supercritical Fluid Polymer Encapsulation. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 811-814	3.9	10
277	Sulindac encapsulation and release from functional poly(HEMA) microparticles prepared in supercritical carbon dioxide. <i>International Journal of Pharmaceutics</i> , 2018 , 549, 161-168	6.5	2
276	Antimicrobial peptide encapsulation and sustained release from polymer network particles prepared in supercritical carbon dioxide. <i>Journal of Colloid and Interface Science</i> , 2018 , 532, 112-117	9.3	15

275	A facile route to bespoke macro- and mesoporous block copolymer microparticles. <i>Polymer Chemistry</i> , 2018 , 9, 3808-3819	4.9	6
274	Can a combination of poly(ethylene glycol) and dense phase carbon dioxide improve processing of polylactide? A high pressure rheology investigation. <i>Journal of Supercritical Fluids</i> , 2018 , 133, 343-348	4.2	5
273	Sustainable synthesis and precise characterisation of bio-based star polycaprolactone synthesised with a metal catalyst and with lipase. <i>Polymer Chemistry</i> , 2018 , 9, 5594-5607	4.9	13
272	Clean Block Copolymer Microparticles from Supercritical CO ₂ : Universal Templates for the Facile and Scalable Fabrication of Hierarchical Mesostructured Metal Oxides. <i>Nano Letters</i> , 2018 , 18, 7560-7569	11.5	10
271	Formulation of Bioerodible Ketamine Microparticles as an Analgesic Adjuvant Treatment Produced by Supercritical Fluid Polymer Encapsulation. <i>Pharmaceutics</i> , 2018 , 10,	6.4	8
270	Synthesis and control of crosslinked poly(acrylic acid) based viscosity modifiers using dense phase carbon dioxide as a solvent. <i>Journal of Supercritical Fluids</i> , 2018 , 139, 38-44	4.2	1
269	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
268	Synthesis of polymeric microcapsules by interfacial-suspension cationic photopolymerisation of divinyl ether monomer in aqueous suspension. <i>Polymer Chemistry</i> , 2017 , 8, 972-975	4.9	11
267	Mild synthesis of poly(HEMA)-networks as well-defined nanoparticles in supercritical carbon dioxide. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5806-5815	7.3	6
266	One-pot synthesis of micron-sized polybetaine particles; innovative use of supercritical carbon dioxide. <i>Polymer Chemistry</i> , 2017 , 8, 4557-4564	4.9	2
265	Versatile Routes to Functional RAFT Chain Transfer Agents through the Passerini Multicomponent Reaction. <i>ACS Macro Letters</i> , 2017 , 6, 781-785	6.6	4
264	Synthesis, characterization and evaluation of in vitro toxicity in hepatocytes of linear polyesters with varied aromatic and aliphatic co-monomers. <i>Journal of Controlled Release</i> , 2016 , 244, 214-228	11.7	3
263	Progress in the synthesis of sustainable polymers from terpenes and terpenoids. <i>Green Materials</i> , 2016 , 4, 115-134	3.2	67
262	Controlled polymerisation and purification of branched poly(lactic acid) surfactants in supercritical carbon dioxide. <i>Green Chemistry</i> , 2016 , 18, 4772-4786	10	22
261	Block copolymer synthesis by controlled/living radical polymerisation in heterogeneous systems. <i>Chemical Society Reviews</i> , 2016 , 45, 5055-84	58.5	83
260	How does dense phase CO ₂ influence the phase behaviour of block copolymers synthesised by dispersion polymerisation?. <i>Polymer Chemistry</i> , 2016 , 7, 905-916	4.9	22
259	Towards sustainable polymeric nano-carriers and surfactants: facile low temperature enzymatic synthesis of bio-based amphiphilic copolymers in scCO ₂ . <i>Polymer Chemistry</i> , 2016 , 7, 2130-2142	4.9	18
258	PEGylated Biodegradable Polyesters for PGSS Microparticles Formulation: Processability, Physical and Release Properties. <i>Current Drug Delivery</i> , 2016 , 13, 673-81	3.2	7

257	Effect of supercritical CO ₂ on the copolymerization behavior of cyclohexene oxide/CO ₂ and copolymer properties with DMC/Salen-Co(III) catalyst system. <i>Journal of Polymer Science Part A</i> , 2016 , 54, 2785-2793	2.5	12
256	Improved Particle Size Control for the Dispersion Polymerization of Methyl methacrylate in Supercritical Carbon Dioxide. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 2294-2301	2.6	20
255	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	4.9	54
254	Porous inverse vulcanised polymers for mercury capture. <i>Chemical Communications</i> , 2016 , 52, 5383-6	5.8	91
253	Controlled aqueous polymerization of acrylamides and acrylates and "in situ" depolymerization in the presence of dissolved CO ₂ . <i>Chemical Communications</i> , 2016 , 52, 6533-6	5.8	17
252	Amphiphilic block copolymers from a renewable ε-decalactone 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
251	New biomaterials from renewable resources Amphiphilic block copolymers from ε-decalactone. <i>Polymer Chemistry</i> , 2015 , 6, 7196-7210	4.9	36
250	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
249	The scale-up of a tissue engineered porous hydroxyapatite polymer composite scaffold for use in bone repair: an ovine femoral condyle defect study. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 1346-56	5.4	10
248	Green process for green materials: viable low-temperature lipase-catalysed synthesis of renewable telechelics in supercritical CO ₂ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	12
247	Facile one-spot synthesis of highly branched polycaprolactone. <i>Polymer Chemistry</i> , 2014 , 5, 2997-3008	4.9	15
246	Superhydrophobic polymeric coatings produced by rapid expansion of supercritical solutions combined with electrostatic deposition (RESS-ED). <i>Journal of Supercritical Fluids</i> , 2014 , 95, 610-617	4.2	11
245	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
244	A high pressure cell for supercritical CO ₂ -line chemical reactions studied with X-ray techniques. <i>Review of Scientific Instruments</i> , 2014 , 85, 093905	1.7	13
243	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
242	The effect of CO ₂ on the viscosity of polystyrene/limonene solutions. <i>Journal of Supercritical Fluids</i> , 2014 , 88, 26-37	4.2	10
241	Porous Copolymers of ε-Caprolactone as Scaffolds for Tissue Engineering. <i>Macromolecules</i> , 2013 , 46, 8136-8143	5.5	34
240	Bacteria clustering by polymers induces the expression of quorum-sensing-controlled phenotypes. <i>Nature Chemistry</i> , 2013 , 5, 1058-65	17.6	59

239	Suitability of polymer materials for production of pulmonary microparticles using a PGSS supercritical fluid technique: preparation of microparticles using PEG, fatty acids and physical or chemicals blends of PEG and fatty acids. <i>International Journal of Pharmaceutics</i> , 2013 , 441, 580-8	6.5	18
238	Direct 'in situ', low VOC, high yielding, CO ₂ expanded phase catalytic chain transfer polymerisation: towards scale-up. <i>Dalton Transactions</i> , 2013 , 42, 127-36	4.3	9
237	Towards superhydrophobic coatings made by non-fluorinated polymers sprayed from a supercritical solution. <i>Journal of Supercritical Fluids</i> , 2013 , 77, 134-141	4.2	12
236	Rheological studies of polycaprolactone in supercritical CO ₂ . <i>European Polymer Journal</i> , 2013 , 49, 464-470	5.2	12
235	Advantages of Block Copolymer Synthesis by RAFT-Controlled Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2013 , 46, 6843-6851	5.5	70
234	Effects of setting bone cement on tissue-engineered bone graft: a potential barrier to clinical translation?. <i>Journal of Bone and Joint Surgery - Series A</i> , 2013 , 95, 736-43	5.6	2
233	Effects of poly(vinyl pivalate)-based stabiliser architecture on CO ₂ -solubility and stabilising ability in dispersion polymerisation of N-vinyl pyrrolidone. <i>Polymer Chemistry</i> , 2013 , 4, 3791	4.9	26
232	PEGylated chitosan derivatives: Synthesis, characterizations and pharmaceutical applications. <i>Progress in Polymer Science</i> , 2012 , 37, 659-685	29.6	171
231	Stability of human growth hormone in supercritical carbon dioxide. <i>Journal of Pharmaceutical Sciences</i> , 2012 , 101, 56-67	3.9	9
230	Suitability of polymer materials for production of pulmonary microparticles using a PGSS supercritical fluid technique: thermodynamic behaviour of fatty acids, PEGs and PEG-fatty acids. <i>International Journal of Pharmaceutics</i> , 2012 , 438, 225-31	6.5	9
229	Catalytic Chain Transfer Mediated Autopolymerization of Divinylbenzene: Toward Facile Synthesis of High Alkene Functional Group Density Hyperbranched Materials. <i>Macromolecules</i> , 2012 , 45, 9258-9266	5.5	10
228	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
227	Viscosity studies of poly(DL-lactic acid) in supercritical CO ₂ . <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2012 , 50, 1383-1393	2.6	24
226	Controlled oligomerisation of isoprene-towards the synthesis of squalene analogues. <i>Polymer Chemistry</i> , 2012 , 3, 1495	4.9	22
225	In situ formation of crosslinked core/shell polymeric nanoparticles from a novel hyperbranched core. <i>Polymer Chemistry</i> , 2012 , 3, 2807	4.9	2
224	An analysis of polymer type and chain length for use as a biological composite graft extender in impaction bone grafting: a mechanical and biocompatibility study. <i>Journal of Biomedical Materials Research - Part A</i> , 2012 , 100, 3211-9	5.4	7
223	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
222	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

221	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
220	Interconnectivity analysis of supercritical CO ₂ foamed scaffolds. <i>Computer Methods and Programs in Biomedicine</i> , 2012 , 106, 139-49	6.9	13
219	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
218	Controlled polymerisation of lactide using an organo-catalyst in supercritical carbon dioxide. <i>Green Chemistry</i> , 2011 , 13, 2032	10	26
217	A route to diffusion embedding of CdSe/CdS quantum dots in fluoropolymer microparticles. <i>Green Chemistry</i> , 2011 , 13, 2696	10	18
216	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
215	Modular construction of multifunctional bioresponsive cell-targeted nanoparticles for gene delivery. <i>Bioconjugate Chemistry</i> , 2011 , 22, 156-68	6.3	46
214	Biomedical Devices 2011 , 323-357		3
213	New vinyl ester copolymers as stabilisers for dispersion polymerisation in scCO ₂ . <i>Polymer</i> , 2011 , 52, 5403-5409	3.5	33
212	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
211	Particle size and shape effects in medical syringe needles: experiments and simulations for polymer microparticle injection. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 1975-83	4.5	14
210	Surface characterisation of bioadhesive PLGA/chitosan microparticles produced by supercritical fluid technology. <i>Pharmaceutical Research</i> , 2011 , 28, 1668-82	4.5	28
209	Synthetic Polymers for Simultaneous Bacterial Sequestration and Quorum Sense Interference. <i>Angewandte Chemie</i> , 2011 , 123, 10026-10030	3.6	5
208	Synthetic polymers for simultaneous bacterial sequestration and quorum sense interference. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 9852-6	16.4	30
207	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
206	Single shot tetanus vaccine manufactured by a supercritical fluid encapsulation technology. <i>International Journal of Pharmaceutics</i> , 2011 , 413, 147-54	6.5	23
205	In vitro antimicrobial activity of silver-processed catheters for neurosurgery. <i>Journal of Antimicrobial Chemotherapy</i> , 2010 , 65, 258-65	5.1	38
204	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

203	Effect of PEGylation on the toxicity and permeability enhancement of chitosan. <i>Biomacromolecules</i> , 2010 , 11, 2854-65	6.9	74
202	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
201	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
200	Supercritical fluids: Clean solvents for green chemistry. <i>Chinese Journal of Chemistry</i> , 2010 , 17, 212-222	4.9	21
199	Enzymes in the Synthesis of Block and Graft Copolymers 2010 , 305-322		1
198	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
197	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
196	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
195	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
194	Continuous Flow Supercritical Chemical Fluid Deposition of Optoelectronic Quality CdS. <i>Advanced Materials</i> , 2009 , 21, 4115-4119	24	19
193	Time-lapsed imaging for in-process evaluation of supercritical fluid processing of tissue engineering scaffolds. <i>Biotechnology Progress</i> , 2009 , 25, 1176-83	2.8	2
192	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
191	Thermoresponsive and photocrosslinkable PEGMEMA-PPGMA-EGDMA copolymers from a one-step ATRP synthesis. <i>Biomacromolecules</i> , 2009 , 10, 822-8	6.9	65
190	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
189	Deposition in supercritical fluids: from silver to semiconductors. <i>Journal of Materials Chemistry</i> , 2009 , 19, 8560		23
188	Silver nanoparticle impregnated polycarbonate substrates for plasmonic applications 2009 ,		1
187	One-pot controlled synthesis of biodegradable and biocompatible co-polymer micelles. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4529		35
186	Controlled Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Australian Journal of Chemistry</i> , 2009 , 62, 786	1.2	41

185	Remedi: A Research Consortium Applying Engineering Strategies to Establish Regenerative Medicine as a New Industry. <i>IFMBE Proceedings</i> , 2009 , 2209-2212	0.2	
184	Thermal-responsive and photocrosslinkable hyperbranched polymers synthesised by deactivation enhanced ATRP and RAFT polymerisations. <i>Journal of Controlled Release</i> , 2008 , 132, e48-e50	11.7	7
183	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
182	Supported ATRP of fluorinated methacrylates in supercritical carbon dioxide: preparation of scCO ₂ soluble polymers with low catalytic residues. <i>Chemical Communications</i> , 2008 , 5803-5	5.8	16
181	Osteogenesis on Surface Selective Laser Sintered Bioresorbable Scaffolds. <i>IFMBE Proceedings</i> , 2008 , 12-15	0.2	
180	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
179	Dispersion polymerisation in supercritical CO ₂ using macro-RAFT agents. <i>Chemical Communications</i> , 2008 , 5942-4	5.8	65
178	Grafting polymers by enzymatic ring opening polymerisation maximising the grafting efficiency. <i>Journal of Materials Chemistry</i> , 2008 , 18, 989		17
177	Preparation of hybrid polymer nanocomposite microparticles by a nanoparticle stabilised dispersion polymerisation. <i>Journal of Materials Chemistry</i> , 2008 , 18, 998		31
176	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
175	HRP-mediated inverse emulsion polymerisation of acrylamide in supercritical carbon dioxide. <i>Green Chemistry</i> , 2008 , 10, 863	10	25
174	Epoxy functionalised poly(epsilon-caprolactone): synthesis and application. <i>Chemical Communications</i> , 2008 , 5806-8	5.8	30
173	Controlled Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide via RAFT. <i>Macromolecules</i> , 2008 , 41, 1215-1222	5.5	82
172	Dispersion Atom Transfer Radical Polymerization of Vinyl Monomers in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2008 , 41, 8575-8583	5.5	47
171	Image-based characterization of foamed polymeric tissue scaffolds. <i>Biomedical Materials (Bristol)</i> , 2008 , 3, 015011	3.5	30
170	Chemoenzymatic Synthesis of Block Copolymers. <i>ACS Symposium Series</i> , 2008 , 216-229	0.4	2
169	Time and spectrally resolved enhanced fluorescence using silver nanoparticle impregnated polycarbonate substrates. <i>Applied Physics Letters</i> , 2008 , 93, 261114	3.4	2
168	Loss measurements of microstructured optical fibres with metal-nanoparticle inclusions. <i>Electronics Letters</i> , 2008 , 44, 795	1.1	1

167	Highly efficient surface enhanced Raman scattering using microstructured optical fibers with enhanced plasmonic interactions. <i>Applied Physics Letters</i> , 2008 , 92, 141113	3.4	20
166	Ultrasonic monitoring of foamed polymeric tissue scaffold fabrication. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 3071-80	4.5	12
165	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
164	Silver Nanoparticle Impregnated Polycarbonate Substrates for Surface Enhanced Raman Spectroscopy. <i>Advanced Functional Materials</i> , 2008 , 18, 1265-1271	15.6	83
163	Can Supercritical Carbon Dioxide Improve the Mechanical Integrity of Ultrahigh-Molecular-Weight Polyethylene?. <i>Advanced Materials</i> , 2008 , 20, 575-578	24	13
162	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
161	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
160	A supercritical CO ₂ injection system for the production of polymer/mammalian cell composites. <i>Journal of Supercritical Fluids</i> , 2008 , 43, 535-541	4.2	24
159	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
158	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
157	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
156	Gene therapy used for tissue engineering applications. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 329-50	4.8	39
155	Supercritical CO ₂ : an effective medium for the chemo-enzymatic synthesis of block copolymers?. <i>Chemical Communications</i> , 2007 , 3805-13	5.8	27
154	Preparation of polymer/nanoparticle composite beads by a nanoparticle-stabilised suspension polymerisation. <i>Journal of Materials Chemistry</i> , 2007 , 17, 4382		42
153	Living Polymer Beads in Supercritical CO ₂ . <i>Macromolecules</i> , 2007 , 40, 2965-2967	5.5	64
152	Controlling Chain Growth: A New Strategy to Hyperbranched Materials. <i>Macromolecules</i> , 2007 , 40, 7184-7194	5.5	105
151	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
150	GECCO-DOSY Post-Processing Analysis of Polymers. <i>Macromolecules</i> , 2007 , 40, 976-982	5.5	7

149	Development of a slow non-viral DNA release system from PDLLA scaffolds fabricated using a supercritical CO ₂ technique. <i>Biotechnology and Bioengineering</i> , 2007 , 98, 679-93	4.9	24
148	Vibrational Spectroscopy 2007 , 147-164		1
147	Surface-Enhanced Raman Scattering Using Microstructured Optical Fiber Substrates. <i>Advanced Functional Materials</i> , 2007 , 17, 2024-2030	15.6	87
146	The preparation of gold nanoparticle composites using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2007 , 42, 282-287	4.2	39
145	Synthesis and characterisation of advanced UHMWPE/silver nanocomposites for biomedical applications. <i>European Polymer Journal</i> , 2007 , 43, 307-314	5.2	57
144	Microscopic spacial effect on the dispersion polymerization in scCO ₂ . <i>European Polymer Journal</i> , 2007 , 43, 663-667	5.2	5
143	One dose or two? The use of polymers in drug delivery. <i>Polymer International</i> , 2007 , 56, 1457-1460	3.3	7
142	A facile synthetic route to aqueous dispersions of silver nanoparticles. <i>Materials Letters</i> , 2007 , 61, 4906-4910	3.10	35
141	Comment on: the increasing use of silver-based products as antimicrobial agents: a useful development or a cause for concern?. <i>Journal of Antimicrobial Chemotherapy</i> , 2007 , 60, 447; author reply 447-8	5.1	11
140	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
139	Sorption and Swelling of Poly(D,L-lactic acid) and Poly(lactic-co-glycolic acid) in Supercritical CO ₂ . <i>Macromolecular Symposia</i> , 2007 , 259, 197-202	0.8	11
138	Laser technologies for fabricating individual implants and matrices for tissue engineering. <i>Journal of Optical Technology (A Translation of Opticheski Zhurnal)</i> , 2007 , 74, 636	0.9	14
137	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
136	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
135	Biodegradable Scaffolds for Tissue Engineering Fabricated by Surface Selective Laser Sintering. <i>IFMBE Proceedings</i> , 2007 , 676-679	0.2	2
134	Incorporation of proteins within alginate fibre-based scaffolds using a post-fabrication entrapment method. <i>Journal of Pharmacy and Pharmacology</i> , 2006 , 58, 895-902	4.8	7
133	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
132	Surface enhanced Raman scattering using metal modified microstructured optical fiber substrates 2006 ,		2

131	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
130	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
129	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
128	Simultaneous enzymatic ring opening polymerisation and RAFT-mediated polymerisation in supercritical CO ₂ . <i>Chemical Communications</i> , 2006 , 4383-5	5.8	55
127	Coating carbon nanotubes with polymer in supercritical carbon dioxide. <i>Chemical Communications</i> , 2006 , 1670-2	5.8	20
126	P12.14 Evaluation of the Antimicrobial Activity of Silver-Impregnated Ventricular Catheters. <i>Journal of Hospital Infection</i> , 2006 , 64, S63-S64	6.9	2
125	Simultaneous Dynamic Kinetic Resolution in Combination with Enzymatic Ring-Opening Polymerization. <i>Macromolecules</i> , 2006 , 39, 7302-7305	5.5	26
124	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
123	Microstructural characterisation of silver/polymer nanocomposites prepared using supercritical carbon dioxide. <i>Journal of Physics: Conference Series</i> , 2006 , 26, 276-279	0.3	7
122	Kinetics of Enzymatic Ring-Opening Polymerization of ϵ -Caprolactone in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2006 , 39, 7967-7972	5.5	79
121	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
120	Surface Enhanced Raman Scattering using Metal Modified Microstructured Optical Fibre Substrates 2006 ,		2
119	The effect of anisotropic architecture on cell and tissue infiltration into tissue engineering scaffolds. <i>Biomaterials</i> , 2006 , 27, 5909-17	15.6	179
118	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
117	Fabrication of polymer scaffolds for tissue engineering using surface selective laser sintering. <i>Laser Physics</i> , 2006 , 16, 774-787	1.2	29
116	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
115	Precipitation polymerisation of vinylidene fluoride in supercritical CO ₂ and real-time calorimetric monitoring. <i>Polymer</i> , 2005 , 46, 1467-1472	3.9	22
114	One-step seed dispersion polymerisation in supercritical carbon dioxide. <i>Chemical Communications</i> , 2005 , 3939-41	5.8	15

113	Supercritical carbon dioxide foaming of elastomer/heterocyclic methacrylate blends as scaffolds for tissue engineering. <i>Journal of Materials Chemistry</i> , 2005 , 15, 4881		28
112	Supercritical fluid assisted melting of poly(ethylene glycol): a new solvent-free route to microparticles. <i>Journal of Materials Chemistry</i> , 2005 , 15, 1148		27
111	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
110	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
109	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
108	Dispersion Catalytic Chain Transfer Polymerizations of Methyl Methacrylate in Supercritical Carbon Dioxide. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 8654-8658	3.9	10
107	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
106	Copolymerization of Vinylidene Fluoride and Hexafluoropropylene in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005 , 38, 9135-9142	5.5	33
105	Tin(II) Ethyl Hexanoate Catalyzed Precipitation Polymerization of ε-Caprolactone in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2005 , 38, 1190-1195	5.5	37
104	Dispersion Polymerization of Vinylidene Fluoride in Supercritical Carbon Dioxide Using a Fluorinated Graft Maleic Anhydride Copolymer Stabilizer. <i>Macromolecules</i> , 2005 , 38, 1542-1545	5.5	24
103	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
102	Polymerisation of vinylidene fluoride in supercritical carbon dioxide: Formation of PVDF macroporous beads. <i>European Polymer Journal</i> , 2005 , 41, 2544-2551	5.2	12
101	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
100	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
99	Novel Nanostructured Polymeric Composites of Polycaprolactone and Ultra-High Molecular Weight Polyethylene via a Supercritical-Fluid Route. <i>Advanced Materials</i> , 2005 , 17, 364-367	24	25
98	High molecular weight graft stabilisers for dispersion polymerisation of vinylidene fluoride in supercritical carbon dioxide: the effect of architecture. <i>Polymer</i> , 2005 , 46, 10626-10636	3.9	19
97	Drug delivery goes supercritical. <i>Materials Today</i> , 2005 , 8, 42-48	21.8	78
96	Novel fluorinated stabilizers for ring-opening polymerization in supercritical carbon dioxide. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 6573-6585	2.5	19

95	The preparation of novel blends of Ultra High Molecular Weight Polyethylene with polymethacrylate based copolymers using supercritical carbon dioxide. <i>Journal of Materials Chemistry</i> , 2005 , 15, 5037		16
94	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
93	Porous methacrylate scaffolds: supercritical fluid fabrication and in vitro chondrocyte responses. <i>Biomaterials</i> , 2004 , 25, 3559-68	15.6	103
92	Direct synthesis of poly(L-lactic acid) in supercritical carbon dioxide with dicyclohexyldimethylcarbodiimide and 4-dimethylaminopyridine. <i>Polymer</i> , 2004 , 45, 7839-7843	3.9	25
91	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
90	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
89	Synthesis of poly(glycolide) in supercritical carbon dioxide in the presence of a hydrocarbon stabiliser. <i>Chemical Communications</i> , 2004 , 808-9	5.8	19
88	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
87	Supercritical fluids: A route to palladium-aerogel nanocomposites. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1212		60
86	New Thiolate-Cobalt(II) Complexes for Catalytic Chain Transfer Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2004 , 37, 6667-6669	5.5	31
85	Dispersion Polymerization of Methyl Methacrylate in Supercritical Carbon Dioxide Using a Pseudo-Graft Stabilizer: Role of Reactor Mixing. <i>Macromolecules</i> , 2004 , 37, 2996-3004	5.5	26
84	Enzyme-Catalyzed Ring-Opening Polymerization of ϵ -Caprolactone in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2004 , 37, 2450-2453	5.5	113
83	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
82	Human osteoprogenitor bone formation using encapsulated bone morphogenetic protein 2 in porous polymer scaffolds. <i>Tissue Engineering</i> , 2004 , 10, 1037-45		102
81	Supercritical fluid technologies and tissue engineering scaffolds. <i>Current Opinion in Solid State and Materials Science</i> , 2004 , 8, 313-321	12	173
80	Materials processing in supercritical carbon dioxide: surfactants, polymers and biomaterials. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1663		237
79	Three-Dimensional Bioactive and Biodegradable Scaffolds Fabricated by Surface-Selective Laser Sintering. <i>Advanced Materials</i> , 2004 , 17, 327-330	24	112
78	Human Osteoprogenitor Bone Formation Using Encapsulated Bone Morphogenetic Protein 2 in Porous Polymer Scaffolds. <i>Tissue Engineering</i> , 2004 , 10, 1037-1045		4

77	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
76	Properties of calcium phosphate coatings deposited and modified with lasers. <i>Journal of Materials Science: Materials in Medicine</i> , 2003 , 14, 151-5	4.5	10
75	Charge Transfer Complex Inimer: A Facile Route to Dendritic Materials. <i>Advanced Materials</i> , 2003 , 15, 1348-1352	24	34
74	Monitoring dispersion polymerisations of methyl methacrylate in supercritical carbon dioxide. <i>European Polymer Journal</i> , 2003 , 39, 423-428	5.2	22
73	The homo and copolymerisation of 2-(dimethylamino)ethyl methacrylate in supercritical carbon dioxide. <i>Polymer</i> , 2003 , 44, 3803-3809	3.9	31
72	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
71	The polymerisation of functionalised methacrylate monomers in supercritical carbon dioxide. <i>European Polymer Journal</i> , 2003 , 39, 1785-1790	5.2	18
70	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
69	Dispersion Polymerizations of Methyl Methacrylate in Supercritical Carbon Dioxide with a Novel Ester End-Capped Perfluoropolyether Stabilizer. <i>Macromolecules</i> , 2003 , 36, 5424-5427	5.5	19
68	The preparation of novel nano-structured polymer blends of ultra high molecular weight polyethylene with polymethacrylates using supercritical carbon dioxide. <i>Journal of Materials Chemistry</i> , 2003 , 13, 2838-2844		25
67	Novel Osteoinductive Biomimetic Scaffolds Stimulate Human Osteoprogenitor Activity--Implications for Skeletal Repair. <i>Connective Tissue Research</i> , 2003 , 44, 312-317	3.3	18
66	Novel osteoinductive biomimetic scaffolds stimulate human osteoprogenitor activity--implications for skeletal repair. <i>Connective Tissue Research</i> , 2003 , 44 Suppl 1, 312-7	3.3	3
65	Incorporation of Proteins into Polymer Materials by a Novel Supercritical Fluid Processing Method. <i>Advanced Materials</i> , 2002 , 14, 1802-1804	24	56
64	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
63	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
62	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, 144-152	3.4	141
61	Clean preparation of nanoparticulate metals in porous supports: a supercritical route. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1898-1905		110
60	Silver(I)thioether coordination polymers constructed using asymmetric diketonate anions. <i>CrystEngComm</i> , 2002 , 4, 88-92	3.3	15

59	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
58	Growth factor release from tissue engineering scaffolds. <i>Journal of Pharmacy and Pharmacology</i> , 2001 , 53, 1427-37	4.8	203
57	Osteoblast growth on titanium foils coated with hydroxyapatite by pulsed laser ablation. <i>Biomaterials</i> , 2001 , 22, 337-47	15.6	78
56	New unsaturated surfactants for the dispersion polymerisation of methyl methacrylate in supercritical carbon dioxide. <i>European Polymer Journal</i> , 2001 , 37, 1347-1351	5.2	22
55	Amorphous Vanadium Phosphate Catalysts from Supercritical Antisolvent Precipitation. <i>Journal of Catalysis</i> , 2001 , 197, 232-235	7.3	39
54	Supercritical fluid mixing: preparation of thermally sensitive polymer composites containing bioactive materials. <i>Chemical Communications</i> , 2001 , 109-110	5.8	169
53	Fluorinated Graft Stabilizers for Polymerization in Supercritical Carbon Dioxide: The Effect of Stabilizer Architecture. <i>Macromolecules</i> , 2001 , 34, 20-25	5.5	64
52	Human osteoprogenitor growth and differentiation on synthetic biodegradable structures after surface modification. <i>Bone</i> , 2001 , 29, 523-31	4.7	236
51	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
50	The copolymerisation of methyl and ethyl methacrylate in supercritical carbon dioxide. <i>Macromolecular Rapid Communications</i> , 2000 , 21, 1019-1023	4.8	21
49	Macromonomer surfactants for the polymerisation of methyl methacrylate in supercritical CO ₂ . <i>Polymer</i> , 2000 , 41, 6715-6721	3.9	52
48	Reversibly collapsible macroporous poly(styrene-divinylbenzene) resins. <i>Polymer</i> , 2000 , 41, 7273-7277	3.9	27
47	The wall effect: how metal/radical interactions can affect polymerisations in supercritical carbon dioxide. <i>Polymer</i> , 2000 , 41, 1251-1256	3.9	20
46	Influence of Target Density on Properties of Laser Deposited Calcium Phosphate Coatings. <i>Key Engineering Materials</i> , 2000 , 192-195, 107-110	0.4	4
45	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
44	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
43	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
42	In-Situ Investigation on the Mechanism of Dispersion Polymerization in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2000 , 33, 4008-4014	5.5	35

41	Silver(I) coordination polymers using thioether macrocycle building blocks. <i>Inorganic Chemistry</i> , 2000 , 39, 1035-8	5.1	37
40	Photochemical Reactions of Organometallic Complexes Impregnated into Polymers: Speciation, Isomerization, and Hydrogenation of Residual Alkene Moieties in Polyethylene. <i>Journal of the American Chemical Society</i> , 2000 , 122, 2523-2531	16.4	16
39	Dissolving biomolecules and modifying biomedical implants with supercritical carbon dioxide. <i>Pure and Applied Chemistry</i> , 2000 , 72, 1347-1355	2.1	15
38	Synthesis and crystal structures of $[Na\{Ph_2P(S)NP(S)Ph_2\}(L)]$ (where L=triglyme or tetraglyme); two air stable complexes containing six-membered $SP_2NP(S)Ph_2$ rings. <i>Journal of Chemical Crystallography</i> , 1999 , 29, 547-554	0.5	12
37	Biocompatibility of Laser-deposited Hydroxyapatite Coatings on Titanium and Polymer Implant Materials. <i>Journal of Biomedical Optics</i> , 1998 , 3, 423-8	3.5	10
36	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
35	Atomic force microscopic study of the surface morphology of apatite films deposited by pulsed laser ablation. <i>Biomaterials</i> , 1997 , 18, 1043-9	15.6	23
34	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
33	Solvent-Free Photochemical Activation of CH_4 , C_2H_4 , and C_2H_6 by $(C_5Me_5)Ir(CO)_2$ in Supercritical Fluid Solution. <i>Organometallics</i> , 1996 , 15, 1804-1812	3.8	27
32	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
31	Clean chemistry in supercritical fluids. <i>Process Technol</i> , 1996 , 67-72		3
30	Water-in-Carbon Dioxide Microemulsions: An Environment for Hydrophiles Including Proteins. <i>Science</i> , 1996 , 271, 624-626	33.3	499
29	Determination of the stability of laser deposited apatite coatings in phosphate buffered saline solution using Fourier transform infrared (FTIR) spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 1996 , 52, 123-127	4.4	8
28	Stress relaxation and cartilage shaping under laser radiation 1996 , 2681, 358		13
27	Macroparticle distribution and chemical composition of laser deposited apatite coatings. <i>Applied Physics Letters</i> , 1995 , 66, 2451-2453	3.4	38
26	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
25	Schwingungsspektroskopie in β erkritischen fluiden Phasen: von der Analytik bis zur Synthesechemie. <i>Angewandte Chemie</i> , 1995 , 107, 1409-1432	3.6	11
24	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

23	Acoustic and photoacoustic measurements in supercritical fluids; a new approach to determining the critical point of mixtures. <i>Journal of Supercritical Fluids</i> , 1994 , 7, 69-73	4.2	14
22	Spectroscopic analysis and in situ monitoring of impregnation and extraction of polymer films and powders using supercritical fluids. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1994 , 32, 541-549	2.6	26
21	Solubilization in nonionic reverse micelles in carbon dioxide. <i>AIChE Journal</i> , 1994 , 40, 543-555	3.6	123
20	Organometallic photochemistry in supercritical fluids: Reactions of cyclopentadienyl carbonyl and phosphine carbonyl complexes of manganese with dinitrogen. <i>Journal of Organometallic Chemistry</i> , 1994 , 484, 129-135	2.3	14
19	Can High-Pressure Raman Spectroscopy Be Simplified? A Microscale Optical-Fiber Capillary Cell for the Study of Supercritical Fluids. <i>Applied Spectroscopy</i> , 1994 , 48, 214-218	3.1	21
18	Photochemical Generation of Polymer-Bound CpMn(CO) ₂ (η ² -C=C) Complexes in Polyethylene Film: A Diagnostic Probe for Investigating the Unsaturation of the Polymer. <i>Journal of the American Chemical Society</i> , 1994 , 116, 8621-8628	16.4	20
17	Spectroscopy and Chemistry in Supercritical Fluids 1994 , 527-537		7
16	Excimer laser deposition of apatite at room temperature on titanium substrates. <i>European Physical Journal Special Topics</i> , 1994 , 04, C4-183-C4-186		2
15	Spectroscopic probes for hydrogen bonding, extraction impregnation and reaction in supercritical fluids. <i>Analyst, The</i> , 1993 , 118, 1111	5	19
14	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
13	"Solvent-free" impregnation of dinuclear metal complexes into polyethylene: use of supercritical carbon dioxide and the in situ photochemical assembly of decacarbonyldimanganese from hydridomanganese pentacarbonyl. <i>Inorganic Chemistry</i> , 1993 , 32, 5643-5644	5.1	9
12	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
11	Simple cell for microscale capillary solution and supercritical fluid Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 1993 , 24, 443-445	2.3	12
10	Spectroscopic Investigations of Organometallic Photochemistry in Supercritical Fluids. <i>ACS Symposium Series</i> , 1992 , 121-131	0.4	6
9	Dynamic IR spectroscopy: occurrence and predictability of coalescence in the carbon monoxide stretching vibrations of ¹³ CO-enriched tricarbonyl(η ⁴ -norbornadiene)iron. <i>Journal of the American Chemical Society</i> , 1991 , 113, 8347-8353	16.4	38
8	Photochemical activation of C-H bonds in supercritical fluids: the dramatic effect of dihydrogen on the activation of ethane by [(η ⁵ -C ₅ Me ₅)Ir(CO) ₂]. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 1287-1290		15
7	Non-classical dihydrogen complexes of vanadium: the spectroscopic characterization of [(η ⁵ -C ₅ H ₅)V(CO) ₃ (H ₂)] in solution at both cryogenic and room temperatures. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 913-915		14
6	Supercritical fluids in organometallic chemistry: IR evidence for the photochemical C-H activation of high density polyethylene by [(η ⁵ -C ₅ Me ₅)Ir(CO) ₂]. <i>Journal of the Chemical Society Chemical Communications</i> , 1990 , 1762-1764		16

- 5 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. *Journal of the American Chemical Society*, **1990**, 112, 4804-4813 16.4 84
- 4 The synthesis and spectroscopic identification of $[(\eta\text{-C}_5\text{H}_5)\text{Re}(\text{N}_2)_3]$ and $[(\eta\text{-C}_5\text{H}_5)\text{Re}(\text{CO})(\text{N}_2)_2]$ in supercritical xenon at room temperature and in N_2 matrices at 20 K. *Journal of the Chemical Society Chemical Communications*, **1989**, 1517-1519 15
- 3 Organometallic photochemistry in supercritical fluids: the reaction of H_2 with $[(\eta\text{-C}_5\text{H}_5)\text{M}(\text{CO})_3]$ (M Re and Mn) and the formation of a non-classical dihydrogen complex of manganese(I). *Journal of the Chemical Society Chemical Communications*, **1989**, 1099-1101 31
- 2 Infrared spectroscopy and chemistry in liquid rare-gas solvents. *Faraday Discussions of the Chemical Society*, **1988**, 86, 271 36
- 1 Novel Osteoinductive Biomimetic Scaffolds Stimulate Human Osteoprogenitor Activity--Implications for Skeletal Repair 14