

# Practical Approaches to Green Solvents

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Citation Report

#	ARTICLE	IF	CITATIONS
2	Green Chemistry: Science and Politics of Change. <i>Science</i> , 2002, 297, 807-810.	6.0	761
3	Completely "Green" Synthesis and Stabilization of Metal Nanoparticles. <i>Journal of the American Chemical Society</i> , 2003, 125, 13940-13941.	6.6	1,985
4	Porous Materials and Supercritical Fluids. <i>Advanced Materials</i> , 2003, 15, 1049-1059.	11.1	370
5	Thiolysis of 1,2-epoxides by thiophenol catalyzed under solvent-free conditions. <i>Tetrahedron Letters</i> , 2003, 44, 6785-6787.	0.7	72
6	Preparation and properties of semifluorinated block copolymers of 2-(dimethylamino)ethyl methacrylate and fluoroctyl methacrylates. <i>Polymer</i> , 2003, 44, 5153-5158.	1.8	26
7	Chemical reactions in supercritical carbon dioxide: from laboratory to commercial plant This work was presented at the Green Solvents for Catalysis Meeting held in Bruchsal, Germany, 13-16th October 2002.. <i>Green Chemistry</i> , 2003, 5, 99-104.	4.6	236
8	Molecular Differences between Hydrocarbon and Fluorocarbon Surfactants at the CO <sub>2</sub> /Water Interface. <i>Journal of Physical Chemistry B</i> , 2003, 107, 10185-10192.	1.2	84
9	Synthesis of Porous Emulsion-Templated Polymers Using High Internal Phase CO <sub>2</sub> -in-Water Emulsions. <i>Journal of the American Chemical Society</i> , 2003, 125, 14473-14481.	6.6	197
10	Utilization of carbon dioxide as soft oxidant in the dehydrogenation of ethylbenzene over supported vanadium-antimony oxide catalysts. <i>Green Chemistry</i> , 2003, 5, 587-590.	4.6	77
11	A recyclable catalyst that precipitates at the end of the reaction. <i>Nature</i> , 2003, 424, 530-532.	13.7	185
12	Global environmental change and children's health: understanding the challenges and finding solutions. <i>Journal of Pediatrics</i> , 2003, 143, 149-154.	0.9	13
13	Conversion of the hydroxyl group in 1-hexyl alcohol to an amide group in supercritical water without catalyst. <i>Green Chemistry</i> , 2003, 5, 95-97.	4.6	8
14	Utilization of waste biomass and replacement of stoichiometric reagents for the synthesis of nanocrystalline CeO <sub>2</sub> , ZrO <sub>2</sub> and CeO <sub>2</sub> -ZrO <sub>2</sub> . <i>Green Chemistry</i> , 2003, 5, 480-483.	4.6	6
15	Solubility of room-temperature ionic liquid in supercritical CO <sub>2</sub> with and without organic compounds. <i>Chemical Communications</i> , 2003, , 1412.	2.2	77
16	Oxidative polymerization to form poly(2,6-dimethyl-1,4-phenylene oxide) in water. <i>Green Chemistry</i> , 2003, 5, 535-538.	4.6	27
17	Formation and Growth of Water-in-CO <sub>2</sub> Miniemulsions. <i>Langmuir</i> , 2003, 19, 4895-4904.	1.6	43
18	Fluorous Catalysis under Homogeneous Conditions without Fluorous Solvents: A "Greener" Catalyst Recycling Protocol Based upon Temperature-Dependent Solubilities and Liquid/Solid Phase Separation. <i>Journal of the American Chemical Society</i> , 2003, 125, 5861-5872.	6.6	189
19	Alcohol-Assisted Deposition of Copper Films from Supercritical Carbon Dioxide. <i>Chemistry of Materials</i> , 2003, 15, 2910-2916.	3.2	64

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20	Reactions Between CO <sub>2</sub> and Tetramethylammonium Hydroxide in Cleaning Solutions. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, G101.	2.2	18
21	Dissolving Carbohydrates in CO <sub>2</sub> : Renewable Materials as CO <sub>2</sub> -philes. <i>ACS Symposium Series</i> , 2003, , 270-284.	0.5	2
22	Synthesis of Structured Polymeric Materials Using Compressed Fluid Solvents. <i>ACS Symposium Series</i> , 2003, , 387-404.	0.5	1
23	Chemical-mechanical photoresist drying in supercritical carbon dioxide with hydrocarbon surfactants. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2004, 22, 818.	1.6	35
24	Ab initio molecular-dynamics study of supercritical carbon dioxide. <i>Journal of Chemical Physics</i> , 2004, 120, 9694-9702.	1.2	67
25	“Dry” Lithography Using Liquid and Supercritical Carbon Dioxide Based Chemistries and Processes. <i>IEEE Transactions on Semiconductor Manufacturing</i> , 2004, 17, 510-516.	1.4	19
26	Synthesis of associating poly(acrylic acid) in supercritical carbon dioxide and its solution properties. <i>Colloid and Polymer Science</i> , 2004, 282, 1228-1235.	1.0	6
27	Water-in-CO <sub>2</sub> microemulsions with a simple fluorosurfactant. <i>Fluid Phase Equilibria</i> , 2004, 226, 301-305.	1.4	17
28	Critical flocculation density of dilute water-in-CO <sub>2</sub> emulsions stabilized with block copolymers. <i>Journal of Colloid and Interface Science</i> , 2004, 272, 444-456.	5.0	27
29	A green hydrothermal route to copper nanocrystallites. <i>Journal of Crystal Growth</i> , 2004, 273, 280-284.	0.7	31
30	Synthesis of hydrophilic/CO <sub>2</sub> -philic poly(ethylene oxide)-b-poly(1,1,2,2-tetrahydroperfluorodecyl) liquid and supercritical CO <sub>2</sub> . <i>Journal of Polymer Science Part A</i> , 2004, 42, 2405-2415.	2.5	72
31	Macromolecular surfactants for supercritical carbon dioxide applications: Synthesis and characterization of fluorinated block copolymers prepared by nitroxide-mediated radical polymerization. <i>Journal of Polymer Science Part A</i> , 2004, 42, 3537-3552.	2.5	90
32	Oxidative Polymerization of 2,6-Dimethylphenol To Form Poly(2,6-dimethyl-1,4-phenyleneoxide) in Water. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 730-733.	7.2	60
33	A Carbon Material as a Strong Protonic Acid. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 2955-2958.	7.2	519
34	Sensing the Critical Point of High-Pressure Mixtures. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5192-5195.	7.2	11
35	Low-Temperature, Surface-Mediated Foaming of Polymer Films. <i>Advanced Materials</i> , 2004, 16, 989-994.	11.1	100
36	Fluorinated Silica Gels Doped with TPAP as Effective Aerobic Oxidation Catalysts in Dense Phase Carbon Dioxide. <i>Advanced Synthesis and Catalysis</i> , 2004, 346, 231-236.	2.1	29
40	Enhanced Molecular Multipole Moments and Solvent Structure in Supercritical Carbon Dioxide. <i>ChemPhysChem</i> , 2004, 5, 1442-1445.	1.0	31

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41	A Novel Method to Synthesize Polystyrene Nanospheres Immobilized with Silver Nanoparticles by Using Compressed CO <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2004, 10, 3531-3536.	1.7	34
42	Ultrasound-induced formation of polymer capsules by precipitation with compressed CO <sub>2</sub> . <i>European Polymer Journal</i> , 2004, 40, 1349-1353.	2.6	4
43	Spectroscopic ellipsometry of grafted poly(dimethylsiloxane) brushes in carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2004, 32, 265-273.	1.6	11
44	Dispersion polymerization of 2-hydroxyethyl methacrylate stabilized by a hydrophilic/CO <sub>2</sub> -philic poly(ethylene oxide)-b-poly(1,1,2,2-tetrahydroperfluorodecyl acrylate) (PEO-b-PFDA) diblock copolymer in supercritical carbon dioxide. <i>Polymer</i> , 2004, 45, 6789-6797.	1.8	67
45	Investigation on the precipitation, microenvironment and recovery of protein in CO <sub>2</sub> -expanded reverse micellar solution. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 33, 33-37.	2.5	10
46	High-efficiency and minimum-waste continuous kinetic resolution of racemic alcohols by using lipase in supercritical carbon dioxide. <i>Chemical Communications</i> , 2004, , 2286.	2.2	52
47	Solvent-free ketone hydrogenations catalyzed by molybdenum complexes. Electronic supplementary information (ESI) available: additional spectroscopic data and description of the synthetic procedures. See <a href="http://www.rsc.org/suppdata/cc/b4/b401760a/">http://www.rsc.org/suppdata/cc/b4/b401760a/</a> . <i>Chemical Communications</i> , 2004, , 1014.	2.2	24
48	Organic synthesis using enzymes in supercritical carbon dioxide. <i>Green Chemistry</i> , 2004, 6, 440.	4.6	49
49	Indium tribromide in poly(ethylene glycol)(PEG): a novel and efficient recycle system for chemoselective deprotection of 1,1-diacetates. <i>Green Chemistry</i> , 2004, 6, 563.	4.6	47
50	A study of tri-phasic behavior of ionic liquid-methanol-CO <sub>2</sub> systems at elevated pressures. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 2352-2357.	1.3	49
51	Polystyryl-supported TBD as an efficient and reusable catalyst under solvent-free conditions. <i>Chemical Communications</i> , 2004, , 2756.	2.2	54
52	Green chemistry in the microelectronics industry. <i>Green Chemistry</i> , 2004, 6, 363.	4.6	24
53	Low temperature assembly of fullerene arrays in single-walled carbon nanotubes using supercritical fluids. <i>Journal of Materials Chemistry</i> , 2004, 14, 2852.	6.7	89
54	Effect of Organic Cosolvents on the Solubility of Ionic Liquids in Supercritical CO <sub>2</sub> . <i>Journal of Chemical &amp; Engineering Data</i> , 2004, 49, 1597-1601.	1.0	76
55	Mesoporous Silicates Prepared Using Preorganized Templates in Supercritical Fluids. <i>Science</i> , 2004, 303, 507-510.	6.0	267
56	Welding Colloidal Crystals with Carbon Dioxide. <i>Macromolecules</i> , 2004, 37, 7316-7324.	2.2	20
57	New Routes to Hyperbranched Poly(acrylic acid) Surface Grafts on Polyethylene Films and Powders. <i>Macromolecules</i> , 2004, 37, 8686-8691.	2.2	24
58	Thermodynamics of Poly(dimethylsiloxane)/Poly(ethylmethylsiloxane) (PDMS/PEMS) Blends in the Presence of High-Pressure CO <sub>2</sub> . <i>Macromolecules</i> , 2004, 37, 2588-2595.	2.2	18

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59	Preparation of Polystyrene-Encapsulated Silver Nanorods and Nanofibers by Combination of Reverse Micelles, Gas Antisolvent, and Ultrasound Techniques. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2200-2204.	1.2	27
60	Steric Stabilization of Core-Shell Nanoparticles in Liquid Carbon Dioxide at the Vapor Pressure. <i>Langmuir</i> , 2004, 20, 9380-9387.	1.6	20
61	Quartz Crystal Microbalance (QCM) in High-Pressure Carbon Dioxide (CO <sub>2</sub> ): Experimental Aspects of QCM Theory and CO <sub>2</sub> Adsorption. <i>Langmuir</i> , 2004, 20, 3665-3673.	1.6	58
62	Synthesis and Properties of Semifluorinated Copolymers of Oligo(ethylene glycol) Methacrylate and 1H,1H,2H,2H-Perfluorooctyl Methacrylate. <i>Macromolecules</i> , 2004, 37, 9821-9825.	2.2	33
63	Spin Coating of Photoresists Using Liquid Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 2113-2122.	1.8	27
64	Low Interfacial Free Volume of Stubby Surfactants Stabilizes Water-in-Carbon Dioxide Microemulsions. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1962-1966.	1.2	72
65	Surface-Constrained Foaming of Polymer Thin Films with Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2004, 37, 9872-9879.	2.2	83
66	Light Scattering Study of Polydimethyl Siloxane in Liquid and Supercritical Carbon Dioxide. <i>Journal of Physical Chemistry A</i> , 2004, 108, 9901-9907.	1.1	12
67	The fibre optic reflectometer: A new and simple probe for refractive index and phase separation measurements in gases, liquids and supercritical fluids. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1258.	1.3	48
68	Stabilization of Carbon Dioxide-in-Water Emulsions with Silica Nanoparticles. <i>Langmuir</i> , 2004, 20, 7976-7983.	1.6	121
69	Biocatalytic "green" synthesis of PEG-based aromatic polyesters: optimization of the substrate and reaction conditions. <i>Green Chemistry</i> , 2004, 6, 516-520.	4.6	32
70	A chemical route from PTFE to amorphous carbon nanospheres in supercritical water. <i>Chemical Communications</i> , 2004, , 342.	2.2	63
71	Green synthesis of polymers using supercritical carbon dioxide. <i>Current Opinion in Solid State and Materials Science</i> , 2004, 8, 325-331.	5.6	73
72	A comparative study of biocatalysis in non-conventional solvents: ionic liquids, supercritical fluids and organic media. <i>Green Chemistry</i> , 2004, 6, 466-470.	4.6	93
73	Preparation and Molecular and Electronic Structures of Iron(0) Dinitrogen and Silane Complexes and Their Application to Catalytic Hydrogenation and Hydrosilation. <i>Journal of the American Chemical Society</i> , 2004, 126, 13794-13807.	6.6	765
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76	Chiral Chromatography in Support of Pharmaceutical Process Research. , 0, , 1-18.		13

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77	Rate Enhancement of Lipase-catalyzed Reaction in Supercritical Carbon Dioxide. <i>Chemistry Letters</i> , 2005, 34, 1102-1103.	0.7	32
78	Low-temperature synthesis of nanocrystalline ZnO by thermal decomposition of a "green" single-source inorganic precursor in air. <i>Journal of Crystal Growth</i> , 2005, 280, 250-254.	0.7	78
79	A simple and inexpensive route to synthesize porous silica microflowers by supercritical CO <sub>2</sub> . <i>Microporous and Mesoporous Materials</i> , 2005, 87, 10-14.	2.2	13
80	A practical and efficient procedure for the cleavage of acylals to aldehydes catalyzed by indium tribromide in water. <i>Tetrahedron Letters</i> , 2005, 46, 889-893.	0.7	27
81	Cutinase activity in supercritical and organic media: water activity, solvation and acid-base effects. <i>Journal of Supercritical Fluids</i> , 2005, 35, 62-69.	1.6	19
82	Effect of zeolites on lipase catalyzed esterification in nonaqueous media. <i>Enzyme and Microbial Technology</i> , 2005, 37, 145-149.	1.6	17
83	Synthesis of Ag/BSA composite nanospheres from water-in-oil microemulsion using compressed CO <sub>2</sub> as antisolvent. <i>Biotechnology and Bioengineering</i> , 2005, 89, 274-279.	1.7	14
85	High Resolution <sup>1</sup> H NMR Structural Studies of Sucrose Octaacetate in Supercritical Carbon Dioxide. <i>Chemistry - A European Journal</i> , 2005, 11, 6266-6271.	1.7	13
86	Nanoparticle formation in rapid expansion of water-in-supercritical carbon dioxide microemulsion into liquid solution. <i>Journal of Supercritical Fluids</i> , 2005, 34, 91-97.	1.6	44
87	Asymmetric synthesis using hydrolytic enzymes in supercritical carbon dioxide. <i>Tetrahedron: Asymmetry</i> , 2005, 16, 909-915.	1.8	91
89	Approaches to Innovations in the Aerospace Sector through Green Engineering and Green Chemistry. , 0, , .		0
90	Cosurfactant and cosolvent effects on surfactant self-assembly in supercritical carbon dioxide. <i>Journal of Chemical Physics</i> , 2005, 122, 094710.	1.2	54
91	Reach: An Unprecedented European Initiative for Regulating Industrial Chemicals. <i>International Journal of Health Services</i> , 2005, 35, 1-38.	1.2	5
92	Molybdenum Carbonyl Complexes in the Solvent-Free Catalytic Hydrogenation of Ketones. <i>Organometallics</i> , 2005, 24, 6220-6229.	1.1	68
93	A Green Chemistry Approach to a More Efficient Asymmetric Catalyst: A Solvent-Free and Highly Concentrated Alkyl Additions to Ketones. <i>Journal of the American Chemical Society</i> , 2005, 127, 16416-16425.	6.6	118
94	High-throughput solubility measurements of polymer libraries in supercritical carbon dioxide. <i>Journal of Materials Chemistry</i> , 2005, 15, 456.	6.7	24
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98	Interfacial Properties of Fluorocarbon and Hydrocarbon Phosphate Surfactants at the Water-CO <sub>2</sub> Interface. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 1370-1380.	1.8	52
99	Microscopic Origins for the Favorable Solvation of Carbonate Ether Copolymers in CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2005, 127, 12338-12342.	6.6	28
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101	Aligned Porous Materials by Directional Freezing of Solutions in Liquid CO <sub>2</sub> . <i>Journal of the American Chemical Society</i> , 2005, 127, 13482-13483.	6.6	99
102	Method for Locating the Vapor-Liquid Critical Point of Multicomponent Fluid Mixtures Using a Shear Mode Piezoelectric Sensor. <i>Analytical Chemistry</i> , 2005, 77, 85-92.	3.2	18
103	Preparation of $\alpha$ -diazo- $\beta$ -hydroxy esters using KO Bu in water and PEG. <i>Catalysis Communications</i> , 2005, 6, 517-519.	1.6	10
104	Controlled Foaming of Polymer Films through Restricted Surface Diffusion and the Addition of Nanosilica Particles or CO <sub>2</sub> -philic Surfactants. <i>Macromolecules</i> , 2005, 38, 2271-2280.	2.2	110
105	Synthesis of siliceous hollow spheres with large mesopore wall structure by supercritical CO <sub>2</sub> -in-water interface templating. <i>Chemical Communications</i> , 2005, , 210.	2.2	62
106	Better Chemistry through Ceramics: The Physical Bases of the Outstanding Chemistry of ORMOSIL. <i>Journal of Physical Chemistry B</i> , 2006, 110, 1976-1988.	1.2	58
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108	Controlled crystallization of Mn <sub>2</sub> single-molecule magnets by compressed CO <sub>2</sub> and its influence on the magnetization relaxation. <i>Journal of Materials Chemistry</i> , 2006, 16, 2612-2617.	6.7	16
109	Coating carbon nanotubes with polymer in supercritical carbon dioxide. <i>Chemical Communications</i> , 2006, , 1670.	2.2	26
110	Lipase-catalyzed glycerolysis of fats and oils in ionic liquids: a further study on the reaction system. <i>Green Chemistry</i> , 2006, 8, 54-62.	4.6	116
111	Acid-Catalyzed Reactions on Flexible Polycyclic Aromatic Carbon in Amorphous Carbon. <i>Chemistry of Materials</i> , 2006, 18, 3039-3045.	3.2	509
112	Sol-gel encapsulation: An efficient and versatile immobilization technique for cutinase in non-aqueous media. <i>Journal of Biotechnology</i> , 2006, 121, 23-33.	1.9	76
113	FluoRuGel: a versatile catalyst for aerobic alcohol oxidation in supercritical carbon dioxide. <i>Organic and Biomolecular Chemistry</i> , 2006, 4, 2637.	1.5	18
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116	Surface cleaning under combined microwave and ultrasound irradiation: flash synthesis of 4H-pyrano[2,3-c]pyrazoles in aqueous media. Green Chemistry, 2006, 8, 573.	4.6	105
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118	Ionic Hydrocarbon Surfactants for Emulsification and Dispersion Polymerization in Supercritical CO <sub>2</sub> . Macromolecules, 2006, 39, 7471-7473.	2.2	28
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122	Interactions of Core-Shell Silica Nanoparticles in Liquid Carbon Dioxide Measured by Dynamic Light Scattering. Industrial & Engineering Chemistry Research, 2006, 45, 5603-5613.	1.8	7
123	Electron Donor-Acceptor Interactions in Ethanol-CO <sub>2</sub> Mixtures: An Ab Initio Molecular Dynamics Study of Supercritical Carbon Dioxide. Journal of Physical Chemistry B, 2006, 110, 3782-3790.	1.2	88
124	Effects of Pressure and Supercritical Fluids on the Viscosity of Polyethylene. Macromolecules, 2006, 39, 5438-5452.	2.2	70
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127	Dendritic Core-Shell Macromolecules Soluble in Supercritical Carbon Dioxide. Macromolecules, 2006, 39, 3978-3979.	2.2	21
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131	1,5-Bis(4-methylphenyl)-3-phenylpentane-1,5-dione. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, o2425-o2426.	0.2	1
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134	Esterification of higher fatty acids by a novel strong solid acid. Catalysis Today, 2006, 116, 157-161.	2.2	266
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137	Preparation of silica and TiO <sub>2</sub> @SiO <sub>2</sub> core-shell nanoparticles in water-in-oil microemulsion using compressed CO <sub>2</sub> as reactant and antisolvent. Journal of Supercritical Fluids, 2006, 36, 194-201.	1.6	31
138	Solubility of fluorinated homopolymer and block copolymer in compressed CO <sub>2</sub> . Journal of Supercritical Fluids, 2006, 37, 263-270.	1.6	36
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140	Molecular dynamics simulation of dense carbon dioxide fluid on amorphous silica surfaces. Journal of Colloid and Interface Science, 2006, 297, 38-44.	5.0	16
141	High-pressure phase behavior of carbon dioxide in ionic liquid 1-butyl-3-methylimidazolium bis(trifluoromethylsulfonyl)imide. Korean Journal of Chemical Engineering, 2006, 23, 800-805.	1.2	47
142	Acceleration of Organic Reactions through Aqueous Solvent Effects. Chemistry - A European Journal, 2006, 12, 1312-1317.	1.7	335
143	Aerobic Oxidation of Alcohols in Carbon Dioxide with Silica-Supported Ionic Liquids Doped with Perruthenate. Chemistry - A European Journal, 2006, 12, 5220-5224.	1.7	85
144	Depolymerization of poly(ethylene terephthalate) wastes using ethanol and ethanol/water in supercritical conditions. Journal of Applied Polymer Science, 2006, 101, 2009-2016.	1.3	48
146	A General and Efficient Method for the Preparation of $\beta$ -Enamino Ketones and Esters Catalyzed by Indium Tribromide. Advanced Synthesis and Catalysis, 2006, 348, 184-190.	2.1	136
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