

# Joseph M Desimone

## List of Publications by Year in descending order

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124  
papers

11,778  
citations

53939

47  
h-index

30277

107  
g-index

126  
all docs

126  
docs citations

126  
times ranked

19727  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printed drug-loaded implantable devices for intraoperative treatment of cancer. <i>Journal of Controlled Release</i> , 2022, 344, 147-156.	4.8	10
2	New insights into immunomodulation via overexpressing lipoic acid synthase as a therapeutic potential to reduce atherosclerosis. <i>Vascular Pharmacology</i> , 2020, 133-134, 106777.	1.0	10
3	Pulmonary Delivery of Nanoparticle-Bound Toll-like Receptor 9 Agonist for the Treatment of Metastatic Lung Cancer. <i>ACS Nano</i> , 2020, 14, 7200-7215.	7.3	38
4	Lithium Salt Distribution and Thermodynamics in Electrolytes Based on Short Perfluoropolyether- <i>block</i> -Poly(ethylene oxide) Copolymers. <i>Macromolecules</i> , 2020, 53, 1142-1153.	2.2	12
5	Role of Linker Length and Antigen Density in Nanoparticle Peptide Vaccine. <i>ACS Omega</i> , 2019, 4, 5547-5555.	1.6	22
6	Optimization of Surface Display of DENV2 E Protein on a Nanoparticle to Induce Virus Specific Neutralizing Antibody Responses. <i>Bioconjugate Chemistry</i> , 2018, 29, 1544-1552.	1.8	10
7	Impact of formulation on the iontophoretic delivery of the FOLFIRINOX regimen for the treatment of pancreatic cancer. <i>Cancer Chemotherapy and Pharmacology</i> , 2018, 81, 991-998.	1.1	10
8	Controlling release from 3D printed medical devices using CLIP and drug-loaded liquid resins. <i>Journal of Controlled Release</i> , 2018, 278, 9-23.	4.8	73
9	Extending antigen release from particulate vaccines results in enhanced antitumor immune response. <i>Journal of Controlled Release</i> , 2018, 269, 393-404.	4.8	22
10	Formulation of High-Performance Dry Powder Aerosols for Pulmonary Protein Delivery. <i>Pharmaceutical Research</i> , 2018, 35, 195.	1.7	22
11	Spatially controlled coating of continuous liquid interface production microneedles for transdermal protein delivery. <i>Journal of Controlled Release</i> , 2018, 284, 122-132.	4.8	90
12	Use of iontophoresis for the treatment of cancer. <i>Journal of Controlled Release</i> , 2018, 284, 144-151.	4.8	53
13	Incipient microphase separation in short chain perfluoropolyether- <i>block</i> -poly(ethylene oxide) copolymers. <i>Soft Matter</i> , 2017, 13, 4047-4056.	1.2	7
14	Mediating Passive Tumor Accumulation through Particle Size, Tumor Type, and Location. <i>Nano Letters</i> , 2017, 17, 2879-2886.	4.5	199
15	Docetaxel-Loaded PLGA Nanoparticles Improve Efficacy in Taxane-Resistant Triple-Negative Breast Cancer. <i>Nano Letters</i> , 2017, 17, 242-248.	4.5	94
16	Particles for Local Delivery of Proteins Using Intraarticular Route. <i>Advanced Healthcare Materials</i> , 2016, 5, 653-658.	3.9	1
17	Lessons in Translating University Research to the Marketplace. <i>ACS Symposium Series</i> , 2016, , 87-90.	0.5	1
18	Pulmonary Delivery of Butyrylcholinesterase as a Model Protein to the Lung. <i>Molecular Pharmaceutics</i> , 2016, 13, 1626-1635.	2.3	15

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19	Relationship between Conductivity, Ion Diffusion, and Transference Number in Perfluoropolyether Electrolytes. <i>Macromolecules</i> , 2016, 49, 3508-3515.	2.2	114
20	Co-opting Moore's law: Therapeutics, vaccines and interfacially active particles manufactured via PRINTA®. <i>Journal of Controlled Release</i> , 2016, 240, 541-543.	4.8	25
21	Layerless fabrication with continuous liquid interface production. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11703-11708.	3.3	228
22	Liquid perfluoropolyether electrolytes with enhanced ionic conductivity for lithium battery applications. <i>Polymer</i> , 2016, 100, 126-133.	1.8	26
23	Reduction Sensitive PEG Hydrogels for Codelivery of Antigen and Adjuvant To Induce Potent CTLs. <i>Molecular Pharmaceutics</i> , 2016, 13, 3381-3394.	2.3	33
24	Organic Polymer Chemistry in the Context of Novel Processes. <i>ACS Central Science</i> , 2016, 2, 588-597.	5.3	4
25	Novel materials. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11667-11669.	3.3	4
26	Subtumoral analysis of PRINT nanoparticle distribution reveals targeting variation based on cellular and particle properties. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 1053-1062.	1.7	27
27	Nanoparticle surface charge impacts distribution, uptake and lymph node trafficking by pulmonary antigen-presenting cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2016, 12, 677-687.	1.7	119
28	Iontophoretic device delivery for the localized treatment of pancreatic ductal adenocarcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 2200-2205.	3.3	18
29	Compliant glass/polymer hybrid single ion-conducting electrolytes for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 52-57.	3.3	108
30	Tumor Presence Induces Global Immune Changes and Enhances Nanoparticle Clearance. <i>ACS Nano</i> , 2016, 10, 861-870.	7.3	51
31	Distribution and Cellular Uptake of PEGylated Polymeric Particles in the Lung Towards Cell-Specific Targeted Delivery. <i>Pharmaceutical Research</i> , 2015, 32, 3248-3260.	1.7	36
32	Phase Behavior and Electrochemical Characterization of Blends of Perfluoropolyether, Poly(ethylene) Tj ETQq0 0 0 rBT /Overlock 10 Tf	3.2	58
33	Controlled analysis of nanoparticle charge on mucosal and systemic antibody responses following pulmonary immunization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 488-493.	3.3	124
34	Evaluation of drug loading, pharmacokinetic behavior, and toxicity of a cisplatin-containing hydrogel nanoparticle. <i>Journal of Controlled Release</i> , 2015, 204, 70-77.	4.8	43
35	Preparation and biological evaluation of synthetic and polymer-encapsulated congeners of the antitumor agent pactamycin: Insight into functional group effects and biological activity. <i>Bioorganic and Medicinal Chemistry</i> , 2015, 23, 1849-1857.	1.4	17
36	Silylated Precision Particles for Controlled Release of Proteins. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 5756-5767.	4.0	7

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37	Continuous liquid interface production of 3D objects. <i>Science</i> , 2015, 347, 1349-1352.	6.0	1,617
38	Biodistribution and Toxicity Studies of PRINT Hydrogel Nanoparticles in Mosquito Larvae and Cells. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003735.	1.3	21
39	Calibration-Quality Cancer Nanotherapeutics. <i>Cancer Treatment and Research</i> , 2015, 166, 275-291.	0.2	8
40	Biodistribution and Trafficking of Hydrogel Nanoparticles in Adult Mosquitoes. <i>PLoS Neglected Tropical Diseases</i> , 2015, 9, e0003745.	1.3	19
41	Rapid and Persistent Delivery of Antigen by Lymph Node Targeting PRINT Nanoparticle Vaccine Carrier To Promote Humoral Immunity. <i>Molecular Pharmaceutics</i> , 2015, 12, 1356-1365.	2.3	96
42	Local iontophoretic administration of cytotoxic therapies to solid tumors. <i>Science Translational Medicine</i> , 2015, 7, 273ra14.	5.8	56
43	Targeted PRINT Hydrogels: The Role of Nanoparticle Size and Ligand Density on Cell Association, Biodistribution, and Tumor Accumulation. <i>Nano Letters</i> , 2015, 15, 6371-6378.	4.5	87
44	Nanoparticulate immunotherapy for cancer. <i>Journal of Controlled Release</i> , 2015, 219, 167-180.	4.8	80
45	Analysis of human innate immune responses to PRINT fabricated nanoparticles with cross validation using a humanized mouse model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2015, 11, 589-599.	1.7	12
46	Reductively Responsive Hydrogel Nanoparticles with Uniform Size, Shape, and Tunable Composition for Systemic siRNA Delivery <i>in Vivo</i> . <i>Molecular Pharmaceutics</i> , 2015, 12, 3518-3526.	2.3	31
47	Towards programming immune tolerance through geometric manipulation of phosphatidylserine. <i>Biomaterials</i> , 2015, 72, 1-10.	5.7	49
48	Nonflammable perfluoropolyether-based electrolytes for lithium batteries. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 3327-3331.	3.3	182
49	Biomedical Nanopreparations with Controlled Geometry. <i>Frontiers in Nanobiomedical Research</i> , 2014, , 349-400.	0.1	0
50	Driving Convergence with Human Diversity. <i>Science Translational Medicine</i> , 2014, 6, 238ed11.	5.8	3
51	Metronomic Docetaxel in PRINT Nanoparticles and EZH2 Silencing Have Synergistic Antitumor Effect in Ovarian Cancer. <i>Molecular Cancer Therapeutics</i> , 2014, 13, 1750-1757.	1.9	31
52	Particle Replication in Nonwetting Templates Nanoparticles with Tumor Selective Alkyl Silyl Ether Docetaxel Prodrug Reduces Toxicity. <i>Nano Letters</i> , 2014, 14, 1472-1476.	4.5	42
53	Synthesis and characterization of monodisperse uniformly shaped respirable aerosols. <i>AIChE Journal</i> , 2013, 59, 3184-3194.	1.8	11
54	Nanoparticle drug loading as a design parameter to improve docetaxel pharmacokinetics and efficacy. <i>Biomaterials</i> , 2013, 34, 8424-8429.	5.7	101

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55	Plasma, tumor and tissue pharmacokinetics of Docetaxel delivered via nanoparticles of different sizes and shapes in mice bearing SKOV-3 human ovarian carcinoma xenograft. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013, 9, 686-693.	1.7	141
56	Scalable Manufacture of Built-to-Order Nanomedicine: Spray-Assisted Layer-by-Layer Functionalization of PRINT Nanoparticles ( <i>Adv. Mater.</i> 34/2013). <i>Advanced Materials</i> , 2013, 25, 4706-4706.	11.1	3
57	Analysis of the Murine Immune Response to Pulmonary Delivery of Precisely Fabricated Nano- and Microscale Particles. <i>PLoS ONE</i> , 2013, 8, e62115.	1.1	53
58	Nanoparticle clearance is governed by Th1/Th2 immunity and strain background. <i>Journal of Clinical Investigation</i> , 2013, 123, 3061-3073.	3.9	170
59	PEGylated PRINT Nanoparticles: The Impact of PEG Density on Protein Binding, Macrophage Association, Biodistribution, and Pharmacokinetics. <i>Nano Letters</i> , 2012, 12, 5304-5310.	4.5	530
60	Biomimetic microlens array with antireflective "moth-eye" surface. <i>Soft Matter</i> , 2011, 7, 6404.	1.2	127
61	PRINT: A Novel Platform Toward Shape and Size Specific Nanoparticle Theranostics. <i>Accounts of Chemical Research</i> , 2011, 44, 990-998.	7.6	267
62	Photocurable Amphiphilic Perfluoropolyether/Poly(ethylene glycol) Networks for Fouling-Release Coatings. <i>Macromolecules</i> , 2011, 44, 878-885.	2.2	120
63	More Effective Nanomedicines through Particle Design. <i>Small</i> , 2011, 7, 1919-1931.	5.2	403
64	Novel platforms for vascular carriers with controlled geometry. <i>IUBMB Life</i> , 2011, 63, spcone.	1.5	0
65	Ultrathin Cross-Linked Perfluoropolyether Film Coatings from Liquid CO <sub>2</sub> and Subsequent UV Curing. <i>Chemistry of Materials</i> , 2010, 22, 2411-2413.	3.2	16
66	Fluoropolymer Synthesis in Carbon Dioxide-Expanded Liquids: A Practical Approach to Avoid the Use of Perfluorooctanoic Acid. <i>ACS Symposium Series</i> , 2009, , 259-273.	0.5	1
67	Melt Rheology of Poly Vinylidene Fluoride: Evidence of Long Chain Branching and Microgel Formation. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
68	The effect of particle design on cellular internalization pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 11613-11618.	3.3	2,553
69	Nanoparticle Drug Delivery Platform. <i>Polymer Reviews</i> , 2007, 47, 321-327.	5.3	65
70	Copolymerization of Vinylidene Fluoride with Hexafluoropropylene in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2006, 39, 15-18.	2.2	31
71	Continuous precipitation polymerization of acrylic acid in supercritical carbon dioxide: The polymerization rate and the polymer molecular weight. <i>Journal of Polymer Science Part A</i> , 2005, 43, 2546-2555.	2.5	24
72	Advantages of Supercritical Carbon Dioxide for Composite Particle Synthesis Using Water-Soluble or Water-Reactive Monomers. <i>Macromolecules</i> , 2005, 38, 4542-4544.	2.2	9

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73	The Synthesis and Characterization of Energy-Conducting Polymers with Pendant Inorganic Chromophores. <i>Materials Research Society Symposia Proceedings</i> , 2004, 847, 411.	0.1	0
74	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
75	Applications of "Dry" Processing in the Microelectronics Industry Using Carbon Dioxide. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2004, 29, 97-109.	6.8	55
76	Micro- and Nanoporous Materials Developed Using Supercritical CO <sub>2</sub> . <i>ACS Symposium Series</i> , 2004, , 223-235.	0.5	4
77	Improvement of silicone endothelialization by treatment with allylamine and/or acrylic acid low-pressure plasma. <i>Journal of Applied Polymer Science</i> , 2003, 87, 1794-1802.	1.3	17
78	HF Etchant Solutions in Supercritical Carbon Dioxide for "Dry" Etch Processing of Microelectronic Devices. <i>Chemistry of Materials</i> , 2003, 15, 2867-2869.	3.2	21
79	NMR Studies of Water Transport and Proton Exchange in Water-in-Carbon Dioxide Microemulsions. <i>Journal of Physical Chemistry B</i> , 2003, 107, 1962-1968.	1.2	23
80	Polysiloxanes in Compressed Carbon Dioxide. <i>ACS Symposium Series</i> , 2003, , 79-93.	0.5	0
81	Formation of Self-Assembled Monolayers of Semifluorinated and Hydrocarbon Chlorosilane Precursors on Silica Surfaces from Liquid Carbon Dioxide. <i>Langmuir</i> , 2002, 18, 6170-6179.	1.6	24
82	Structure of Phosphate Fluorosurfactant Based Reverse Micelles in Supercritical Carbon Dioxide. <i>Langmuir</i> , 2002, 18, 7371-7376.	1.6	78
83	Practical Approaches to Green Solvents. <i>Science</i> , 2002, 297, 799-803.	6.0	855
84	Effect of polymer coatings from CO <sub>2</sub> , on water-vapor transport in porous media. <i>AIChE Journal</i> , 2002, 48, 941-952.	1.8	18
85	Determination of the equilibrium constant for the reaction between bisphenol A and diphenyl carbonate. <i>Journal of Polymer Science Part A</i> , 2002, 40, 171-178.	2.5	19
86	A commentary on "Carbon Dioxide-Poly(vinylidene Fluoride) Interactions at High Pressure?". <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2002, 40, 602-604.	2.4	1
87	Nucleophilic Displacements in Supercritical Carbon Dioxide Using Silica-Supported Phase-Transfer Agents. <i>Journal of Organic Chemistry</i> , 2001, 66, 4047-4049.	1.7	20
88	Reaction Kinetics of the Solid State Polymerization of Poly(bisphenol A carbonate). <i>Macromolecules</i> , 2001, 34, 2060-2064.	2.2	24
89	Well-defined glycopolymer amphiphiles for liquid and supercritical carbon dioxide applications. <i>Journal of Polymer Science Part A</i> , 2001, 39, 3841-3849.	2.5	33
90	High-pressure rheology and viscoelastic scaling predictions of polymer melts containing liquid and supercritical carbon dioxide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2001, 39, 3055-3066.	2.4	51

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91	Broadening of molecular-weight distribution in solid-state polymerization resulting from condensate diffusion. <i>Journal of Applied Polymer Science</i> , 2001, 79, 928-943.	1.3	15
92	CO2 Technology Platform: An Important Tool for Environmental Problem Solving. <i>Angewandte Chemie - International Edition</i> , 2001, 40, 518-527.	7.2	173
93	Developments in CO2 research. <i>Pure and Applied Chemistry</i> , 2001, 73, 1281-1285.	0.9	39
94	Designing Photoresist Systems for Microlithography in Carbon Dioxide. <i>Materials Research Society Symposia Proceedings</i> , 2001, 705, 781.	0.1	2
95	All CO2-Processed Fluoropolymer-Containing Photoresist Systems. <i>Materials Research Society Symposia Proceedings</i> , 2001, 705, 241.	0.1	0
96	Preparation of silicone-graft copolymers by homogeneous radical copolymerization in supercritical carbon dioxide. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1139-1145.	2.5	20
97	Dispersion polymerization of styrene in supercritical carbon dioxide utilizing random copolymers containing a fluorinated acrylate for preparing micron-size polystyrene particles. <i>Journal of Polymer Science Part A</i> , 2000, 38, 1146-1153.	2.5	56
98	High-pressure rheology of polystyrene melts plasticized with CO2: Experimental measurement and predictive scaling relationships. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2000, 38, 3168-3180.	2.4	117
99	Dispersion polymerization of 2-hydroxyethyl methacrylate in supercritical carbon dioxide. <i>Journal of Polymer Science Part A</i> , 2000, 38, 3783-3790.	2.5	42
100	OPPORTUNITIES FOR POLLUTION PREVENTION AND ENERGY EFFICIENCY ENABLED BY THE CARBON DIOXIDE TECHNOLOGY PLATFORM. <i>Annual Review of Environment and Resources</i> , 2000, 25, 115-146.	1.2	27
101	Frontiers in green chemistry utilizing carbon dioxide for polymer synthesis and applications. <i>Pure and Applied Chemistry</i> , 2000, 72, 1357-1363.	0.9	31
102	One-Pot Synthesis and Characterization of a Chromophore <sup>π</sup> Donor <sup>π</sup> Acceptor Assembly. <i>Inorganic Chemistry</i> , 2000, 39, 71-75.	1.9	48
103	Synthesis of Sugar-Containing Amphiphiles for Liquid and Supercritical Carbon Dioxide. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 4564-4566.	1.8	20
104	Dispersion Polymerization of 1-Vinyl-2-pyrrolidone in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2000, 33, 1917-1920.	2.2	62
105	An Equilibrium Model for Diffusion-Limited Solid-State Polycondensation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 2797-2806.	1.8	25
106	Step-Scan FTIR Time-Resolved Spectroscopy Study of Excited-State Dipole Orientation in Soluble Metallopolymers. <i>Inorganic Chemistry</i> , 2000, 39, 893-898.	1.9	26
107	Dispersion Polymerization of Acrylonitrile in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2000, 33, 1565-1569.	2.2	76
108	Preparation of micron-size polystyrene particles in supercritical carbon dioxide. <i>Journal of Polymer Science Part A</i> , 1999, 37, 2429-2437.	2.5	56

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109	Solid-State Polymerization of Polycarbonates Using Supercritical CO <sub>2</sub> . <i>Macromolecules</i> , 1999, 32, 3167-3169.	2.2	44
110	Atom Transfer Radical Polymerization in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 1999, 32, 4802-4805.	2.2	204
111	Carbon Dioxide-Induced Swelling of Poly(dimethylsiloxane). <i>Macromolecules</i> , 1999, 32, 8965-8973.	2.2	104
112	Fluorocarbons Dissolved in Supercritical Carbon Dioxide. NMR Evidence for Specific Solute-Solvent Interactions. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1775-1780.	1.2	153
113	Diffusion of Block Copolymers in Liquid CO <sub>2</sub> : Evidence of Self-Assembly from Pulsed Field Gradient NMR. <i>Journal of the American Chemical Society</i> , 1998, 120, 9390-9391.	6.6	22
114	Flow system and 9.5 GHz microwave resonators for time-resolved and steady-state electron paramagnetic resonance spectroscopy in compressed and supercritical fluids. <i>Review of Scientific Instruments</i> , 1997, 68, 2505-2510.	0.6	12
115	XPS analysis of poly[(3-hydroxybutyric acid)-co-(3-hydroxyvaleric acid)] film surfaces exposed to an allylamine low-pressure plasma. <i>Macromolecular Chemistry and Physics</i> , 1997, 198, 3737-3752.	1.1	18
116	Dispersion polymerization of methyl methacrylate in supercritical carbon dioxide: Influence of helium concentration on particle size and particle size distribution. <i>Journal of Polymer Science Part A</i> , 1997, 35, 2009-2013.	2.5	29
117	Photoinduced graft polymerization of styrene onto polypropylene substrates. <i>Journal of Applied Polymer Science</i> , 1997, 64, 883-889.	1.3	27
118	A Direct Deposition Method for Coupling Matrix-assisted Laser Desorption/Ionization Mass Spectrometry with Gel Permeation Chromatography for Polymer Characterization. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1134-1138.	0.7	50
119	An Investigation into the Importance of Polymer-Matrix Miscibility Using Surfactant Modified Matrix-assisted Laser Desorption/Ionization Mass Spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 1997, 11, 1462-1466.	0.7	29
120	Photoinduced graft polymerization of styrene onto polypropylene substrates. , 1997, 64, 883.		1
121	Ring-Opening Metathesis Polymerizations in Carbon Dioxide. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1996, 33, 953-960.	1.2	49
122	XPS Studies of Fluorinated Acrylate Polymers and Block Copolymers with Polystyrene. <i>Macromolecules</i> , 1996, 29, 3247-3254.	2.2	165
123	Homogeneous and heterogeneous free radical polymerizations in environmentally responsible supercritical carbon dioxide. <i>Macromolecular Symposia</i> , 1995, 98, 795-795.	0.4	1
124	Organic Nanoparticles: Adapting Emerging Techniques from the Electronics Industry for the Generation of Shape-Specific, Functionalized Carriers for Applications in Nanomedicine. , 0, , 285-303.		2