Igor Elmanovich

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Chemical recycling of polyethylene in oxygen-enriched supercritical CO2. Journal of Supercritical Fluids, 2022, 181, 105503.	3.2	7
2	A New Look at the Chemical Recycling of Polypropylene: Thermal Oxidative Destruction in Aqueous Oxygen-Enriched Medium. Polymers, 2022, 14, 744.	4.5	3
3	Morphology study of metal oxide nanoparticles and aerogels produced via thermal decomposition of metal carbonyls in supercritical carbon dioxide. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	1
4	Thermal oxidation of polypropylene catalyzed by manganese oxide aerogel in oxygen-enriched supercritical carbon dioxide. Journal of Supercritical Fluids, 2020, 158, 104744.	3.2	18
5	Textural Features of Organic and Carbon Aerogels Obtained Using Different Parameters for the Resorcinolâ€“Formaldehyde Precursor-Gel Formation. Doklady Physical Chemistry, 2020, 493, 123-126.	0.9	2
6	Chitosan aerogel containing silver nanoparticles: From metal-chitosan powder to porous material. Polymer Testing, 2020, 86, 106481.	4.8	17
7	Morphology and Properties of Flame-Retardant Superhydrophobic Polymer Coatings Deposited on Cotton Fabrics from Supercritical CO₂. ACS Applied Polymer Materials, 2020, 2, 2919-2926.	4.4	10
8	AFM Studies of Chitosan, Goldâ€Chitosan, and Silverâ€Chitosan Films Morphology. Macromolecular Symposia, 2020, 389, 1900068.	0.7	2
9	Thermal decomposition of manganese carbonyl in supercritical CO2 as a simple and effective approach to obtain manganese oxide aerogels. Journal of Sol-Gel Science and Technology, 2019, 92, 116-123.	2.4	4
10	Celgard-silica composite membranes with enhanced wettability and tailored pore sizes prepared by supercritical carbon dioxide assisted impregnation with silanes. Journal of Supercritical Fluids, 2019, 150, 56-64.	3.2	13
11	Silicone aerogels with tunable mechanical properties obtained via hydrosilylation reaction in supercritical CO2. Journal of Supercritical Fluids, 2019, 149, 120-126.	3.2	5
12	Synthesis of manganese oxide electrocatalysts in supercritical carbon dioxide. Journal of Materials Science, 2018, 53, 9449-9462.	3.7	11
13	Durable crosslinked omniphobic coatings on textiles via supercritical carbon dioxide deposition. Journal of Supercritical Fluids, 2018, 133, 30-37.	3.2	29
14	A study of the hydrosilylation approach to a one-pot synthesis of silicone aerogels in supercritical CO2. Journal of Supercritical Fluids, 2018, 133, 512-518.	3.2	16
15	Hydrophobic Properties of Thin Films of Comb-Shaped Perfluorohexylethyl Methacrylate-Polydimethylsiloxane Copolymers Deposited from Supercritical Carbon Dioxide Solutions. Polymer Science - Series A, 2018, 60, 451-458.	1.0	5
16	Synthesis of platinum nanoparticles on substrates of various chemical natures using supercritical carbon dioxide. Doklady Physical Chemistry, 2017, 473, 41-44.	0.9	2
17	Polymer materials for electrochemical applications: Processing in supercritical fluids. Journal of Supercritical Fluids, 2017, 127, 229-246.	3.2	20
18	Organosilicon compounds in supercritical carbon dioxide: Synthesis, polymerization, modification, and production of new materials. Polymer Science - Series B, 2016, 58, 235-270.	0.8	18

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19	Synthesis of macrocyclic tris<i>-cis-</i>tris<i>-trans</i>-dodeca[(phenyl)(hydroxy)]cyclododecasiloxane in carbonic acid solution. Green Chemistry Letters and Reviews, 2016, 9, 69-75.	4.7	3
20	Raspberry-like Pt clusters with controlled spacing produced by deposition of loaded block copolymer micelles from supercritical CO2. European Polymer Journal, 2015, 71, 73-84.	5.4	4
21	A biphase H₂O/CO₂system as a versatile reaction medium for organic synthesis. RSC Advances, 2015, 5, 103573-103608.	3.6	51
22	Active layer materials coated with Teflon AF nano-films deposited from solutions in supercritical CO2 for fuel cell applications. International Journal of Hydrogen Energy, 2013, 38, 10592-10601.	7.1	7
23	Organometallic Pt precursor on graphite substrate: deposition from SC CO2, reduction and morphology transformation as revealed by SFM. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
24	Electrocatalysts for fuel cells synthesized in supercritical carbon dioxide. Nanotechnologies in Russia, 2011, 6, 311-322.	0.7	10