

Marat Gallyamov

List of Publications by Year in descending order

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124
papers

1,774
citations

304602

22
h-index

360920

35
g-index

130
all docs

130
docs citations

130
times ranked

1596
citing authors

#	ARTICLE	IF	CITATIONS
1	Swelling and impregnation of polystyrene using supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2003, 26, 263-273.	1.6	88
2	Reversible Collapse of Brushlike Macromolecules in Ethanol and Water Vapours as Revealed by Real-Time Scanning Force Microscopy. <i>Chemistry - A European Journal</i> , 2004, 10, 4599-4605.	1.7	72
3	Self-Assembly of the Perfluoroalkyl-Alkane F14H20in Ultrathin Films. <i>Langmuir</i> , 2005, 21, 2308-2316.	1.6	66
4	Poly(methyl methacrylate) and Poly(butyl methacrylate) Swelling in Supercritical Carbon Dioxide. <i>Macromolecules</i> , 2002, 35, 934-940.	2.2	61
5	Atomic force microscopy examination of tobacco mosaic virus and virion RNA. <i>FEBS Letters</i> , 1998, 425, 217-221.	1.3	60
6	A biphase H ₂ O/CO ₂ system as a versatile reaction medium for organic synthesis. <i>RSC Advances</i> , 2015, 5, 103573-103608.	1.7	51
7	Performance of high temperature fuel cells with different types of PBI membranes as analysed by impedance spectroscopy. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 2596-2602.	3.8	50
8	Collagen tissue treated with chitosan solutions in carbonic acid for improved biological prosthetic heart valves. <i>Materials Science and Engineering C</i> , 2014, 37, 127-140.	3.8	46
9	Stabilization of Chitosan Aggregates at the Nanoscale in Solutions in Carbonic Acid. <i>Macromolecules</i> , 2014, 47, 5749-5758.	2.2	46
10	Real-Time Scanning Force Microscopy of Macromolecular Conformational Transitions. <i>Macromolecular Rapid Communications</i> , 2004, 25, 1703-1707.	2.0	45
11	Conformational dynamics of single molecules visualized in real time by scanning force microscopy: macromolecular mobility on a substrate surface in different vapours. <i>Journal of Microscopy</i> , 2004, 215, 245-256.	0.8	39
12	Advanced porous polybenzimidazole membranes for vanadium redox batteries synthesized via a supercritical phase-inversion method. <i>Journal of Supercritical Fluids</i> , 2018, 137, 111-117.	1.6	37
13	High-Quality Ultrathin Polymer Films Obtained by Deposition from Supercritical Carbon Dioxide As Imaged by Atomic Force Microscopy. <i>Langmuir</i> , 2002, 18, 6928-6934.	1.6	36
14	Scanning Force Microscopy as Applied to Conformational Studies in Macromolecular Research. <i>Macromolecular Rapid Communications</i> , 2011, 32, 1210-1246.	2.0	36
15	Influence of aminosilane precursor concentration on physicochemical properties of composite Nafion membranes for vanadium redox flow battery applications. <i>Journal of Power Sources</i> , 2017, 340, 32-39.	4.0	33
16	Structural organization of bacterial cellulose: The origin of anisotropy and layered structures. <i>Carbohydrate Polymers</i> , 2020, 237, 116140.	5.1	33
17	Novel composite Zr/PBI-O-PhT membranes for HT-PEFC applications. <i>Beilstein Journal of Nanotechnology</i> , 2013, 4, 481-492.	1.5	31
18	Durable crosslinked omniphobic coatings on textiles via supercritical carbon dioxide deposition. <i>Journal of Supercritical Fluids</i> , 2018, 133, 30-37.	1.6	29

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19	Real-Time Imaging of the Coil-Globule Transition of Single Adsorbed Poly(2-vinylpyridine) Molecules. <i>Macromolecular Rapid Communications</i> , 2005, 26, 456-460.	2.0	27
20	A scanning force microscopy study on the motion of single brush-like macromolecules on a silicon substrate induced by coadsorption of small molecules. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 346-352.	1.3	26
21	Formation of superhydrophobic surfaces by the deposition of coatings from supercritical carbon dioxide. <i>Colloid Journal</i> , 2007, 69, 411-424.	0.5	25
22	Chitosan nanostructures deposited from solutions in carbonic acid on a model substrate as resolved by AFM. <i>Colloid and Polymer Science</i> , 2012, 290, 1471-1480.	1.0	24
23	Vapor-induced spreading dynamics of adsorbed linear and brush-like macromolecules as observed by environmental SFM: Polymer chain statistics and scaling exponents. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2007, 45, 2368-2379.	2.4	21
24	Structural and electrocatalytic features of Pt/C catalysts fabricated in supercritical carbon dioxide. <i>Journal of Solid State Electrochemistry</i> , 2011, 15, 623-633.	1.2	21
25	Interplay between Folding/Unfolding and Helix/Coil Transitions in Giant DNA. <i>Biomacromolecules</i> , 2000, 1, 597-603.	2.6	20
26	Polymer materials for electrochemical applications: Processing in supercritical fluids. <i>Journal of Supercritical Fluids</i> , 2017, 127, 229-246.	1.6	20
27	Supercritical carbon dioxide: A reactive medium for chemical processes involving fluoropolymers. <i>Russian Journal of General Chemistry</i> , 2009, 79, 578-588.	0.3	19
28	Novel polyolefin/silicon dioxide/H ₃ PO ₄ composite membranes with spatially heterogeneous structure for phosphoric acid fuel cell. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 4132-4143.	3.8	19
29	Modification of Nafion with silica nanoparticles in supercritical carbon dioxide for electrochemical applications. <i>Journal of Membrane Science</i> , 2018, 564, 106-114.	4.1	19
30	A new approach to purification of bacterial cellulose membranes: What happens to bacteria in supercritical media?. <i>Journal of Supercritical Fluids</i> , 2019, 147, 59-69.	1.6	19
31	Self-assembly of (perfluoroalkyl)alkanes on a substrate surface from solutions in supercritical carbon dioxide. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 2642-2649.	1.3	18
32	Synthesis and properties of fluorinated derivatives of carbosilane dendrimers of high generations. <i>Polymer Science - Series A</i> , 2006, 48, 1240-1247.	0.4	18
33	Synthesis of high-molecular-weight linear methacrylate copolymers with spiropyran side groups: Conformational changes of single molecules in solution and on surfaces. <i>Journal of Polymer Science Part A</i> , 2009, 47, 1274-1283.	2.5	18
34	Organosilicon compounds in supercritical carbon dioxide: Synthesis, polymerization, modification, and production of new materials. <i>Polymer Science - Series B</i> , 2016, 58, 235-270.	0.3	18
35	Thermal oxidation of polypropylene catalyzed by manganese oxide aerogel in oxygen-enriched supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2020, 158, 104744.	1.6	18
36	Synthesis of polyimides in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2003, 27, 121-130.	1.6	17

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37	Ion transport properties of porous polybenzimidazole membranes for vanadium redox flow batteries obtained via supercritical drying of swollen polymer films. <i>Journal of Applied Polymer Science</i> , 2018, 135, 46262.	1.3	16
38	A study of the hydrosilylation approach to a one-pot synthesis of silicone aerogels in supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2018, 133, 512-518.	1.6	16
39	Superhydrophobic coatings on textiles based on novel poly(perfluoro-tert-hexylbutyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 6 carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2019, 149, 34-41.	1.6	16
40	Hydrophobic properties of carbon fabric with Teflon AF 2400 fluoropolymer coating deposited from solutions in supercritical carbon dioxide. <i>Russian Journal of Physical Chemistry B</i> , 2011, 5, 1106-1115.	0.2	15
41	Synthesis of polyimides in supercritical carbon dioxide. <i>Journal of Supercritical Fluids</i> , 2003, 26, 147-156.	1.6	14
42	Synthesis and SFM Study of Comb-Like Poly(4-vinylpyridinium) Salts and Their Complexes with Surfactants. <i>Macromolecular Rapid Communications</i> , 2006, 27, 1048-1053.	2.0	14
43	Chitosan composites with Ag nanoparticles formed in carbonic acid solutions. <i>Carbohydrate Polymers</i> , 2018, 190, 103-112.	5.1	14
44	Conformational Behaviour of Comb-Like Poly(4-vinylpyridinium) Salts and their Complexes with Surfactants in Solution and on a Flat Surface. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 164-174.	1.1	13
45	Individual bottle brush molecules in dense 2D layers restoring high degree of extension after collapse-decollapse cycle: Directly measured scaling exponent. <i>European Physical Journal E</i> , 2009, 29, 73-85.	0.7	13
46	Celgard-silica composite membranes with enhanced wettability and tailored pore sizes prepared by supercritical carbon dioxide assisted impregnation with silanes. <i>Journal of Supercritical Fluids</i> , 2019, 150, 56-64.	1.6	13
47	Chitosan Molecules Deposited from Supercritical Carbon Dioxide on a Substrate: Visualization and Conformational Analysis. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 2204-2212.	1.1	11
48	Direct deposition of chitosan macromolecules on a substrate from solutions in supercritical carbon dioxide: Solubility and conformational analysis. <i>European Polymer Journal</i> , 2012, 48, 906-918.	2.6	11
49	Hydrolytic polycondensation of diethoxydimethylsilane in carbonic acid. <i>RSC Advances</i> , 2015, 5, 5664-5666.	1.7	11
50	Synthesis of manganese oxide electrocatalysts in supercritical carbon dioxide. <i>Journal of Materials Science</i> , 2018, 53, 9449-9462.	1.7	11
51	Scanning tunneling microscopy study of cytochrome P450 2B4 incorporated in proteoliposomes. <i>Biochimie</i> , 1996, 78, 780-784.	1.3	10
52	Composite Langmuir-Blodgett films of behenic acid and CdTe nanoparticles: the structure and reorganization on solid surfaces. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 202, 233-241.	2.3	10
53	Synthesis of a Carbosilane Dendrimer with Fluorocarbon Substituents at the Silicon Atoms in the Surface Layer of the Molecular Structure. <i>Doklady Chemistry</i> , 2005, 403, 155-159.	0.2	10
54	Electrocatalysts for fuel cells synthesized in supercritical carbon dioxide. <i>Nanotechnologies in Russia</i> , 2011, 6, 311-322.	0.7	10

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55	Degradation of High Temperature Polymer Electrolyte Fuel Cell Cathode Material as Affected by Polybenzimidazole. Journal of the Electrochemical Society, 2015, 162, F587-F595.	1.3	10
56	Hydrolytic polycondensation of methylalkoxysilanes under pressure. Russian Chemical Bulletin, 2016, 65, 1104-1109.	0.4	10
57	Chitosan coatings with enhanced biostability <i>in vivo</i> . Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 270-277.	1.6	10
58	Composite Nafion-based membranes with nanosized tungsten oxides prepared in supercritical carbon dioxide. Journal of Membrane Science, 2020, 609, 118244.	4.1	10
59	Morphology and Properties of Flame-Retardant Superhydrophobic Polymer Coatings Deposited on Cotton Fabrics from Supercritical CO ₂ . ACS Applied Polymer Materials, 2020, 2, 2919-2926.	2.0	10
60	Green approach for fabrication of bacterial cellulose-chitosan composites in the solutions of carbonic acid under high pressure CO ₂ . Carbohydrate Polymers, 2021, 258, 117614.	5.1	10
61	DNA-surfactant complexes in organic media. Progress in Colloid and Polymer Science, 1997, 106, 198-203.	0.5	10
62	Novel electrolyte additive of graphene oxide for prolonging the lifespan of zinc-ion batteries. Nanotechnology, 2022, 33, 125401.	1.3	10
63	Interpretation of SPM images of Langmuir-Blodgett films based on long-chain carboxylic acids. Thin Solid Films, 2000, 359, 98-103.	0.8	9
64	Organometallic Pt precursor on graphite substrate: deposition from SC CO ₂ , reduction and morphology transformation as revealed by SFM. Journal of Nanoparticle Research, 2012, 14, 1.	0.8	9
65	Sharp diffusion front in diffusion problem with change of state. European Physical Journal E, 2013, 36, 92.	0.7	9
66	Hydrothermal Transformations of Ascorbic Acid. Russian Journal of General Chemistry, 2017, 87, 2858-2864.	0.3	8
67	The mechanism of stabilization of silver nanoparticles by chitosan in carbonic acid solutions. Colloid and Polymer Science, 2020, 298, 1135-1148.	1.0	8
68	Active layer materials coated with Teflon AF nano-films deposited from solutions in supercritical CO ₂ for fuel cell applications. International Journal of Hydrogen Energy, 2013, 38, 10592-10601.	3.8	7
69	Chemical recycling of polyethylene in oxygen-enriched supercritical CO ₂ . Journal of Supercritical Fluids, 2022, 181, 105503.	1.6	7
70	Organosilicone Compounds in Supercritical Carbon Dioxide. Polymers, 2022, 14, 2367.	2.0	7
71	Reorganization of Langmuir monolayers on solid surfaces. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 198-200, 231-238.	2.3	6
72	Title is missing!. Doklady Physical Chemistry, 2003, 392, 217-220.	0.2	6

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73	Structure of composites prepared via polypyrrole synthesis in supercritical CO ₂ on microporous polyethylene. <i>Polymer Science - Series A</i> , 2006, 48, 827-840.	0.4	6
74	Supramolecular Assembly of Defined Polymer Nanoobjects. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 1409-1415.	1.1	6
75	Electron microscopy of the coating morphology of pericardium tissue with chitosan ionogen derivatives. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009, 73, 468-470.	0.1	6
76	Chitosan Macromolecules on a Substrate: Deposition from Solutions in sc CO ₂ and Reorganisation in Vapours. <i>Macromolecular Symposia</i> , 2010, 296, 531-540.	0.4	6
77	Formation of Easy-to-Recover Polystyrene- <i>block</i> -Poly(4-vinylpyridine) Micelles Decorated with Pd Nanoparticles in Solutions of Self-Neutralizing Carbonic Acid. <i>ACS Macro Letters</i> , 2015, 4, 661-664.	2.3	6
78	Non-catalytic hydrolytic polycondensation of dialkoxydiorganosilanes under elevated pressure. <i>Russian Chemical Bulletin</i> , 2017, 66, 355-361.	0.4	6
79	Synthesis and properties of carbosilane dendrimers with perfluorohexyl groups in the outer layer of the molecular structure. <i>Russian Chemical Bulletin</i> , 2018, 67, 1440-1444.	0.4	6
80	Incorporation of Thiol-Stabilized CdTe Nanoclusters into Langmuir-Blodgett Films. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , 1999, 35, 157-164.	1.6	5
81	Pretreatment of Celgard Matrices with Peroxycarbonic Acid for Subsequent Deposition of a Polydopamine Layer. <i>Colloid Journal</i> , 2018, 80, 761-770.	0.5	5
82	Synthesis of carbon quantum dots in a Nafion matrix: Precursor effect on the ion transport properties. <i>Mendeleev Communications</i> , 2018, 28, 251-253.	0.6	5
83	Hydrophobic Properties of Thin Films of Comb-Shaped Perfluorohexylethyl Methacrylate-Polydimethylsiloxane Copolymers Deposited from Supercritical Carbon Dioxide Solutions. <i>Polymer Science - Series A</i> , 2018, 60, 451-458.	0.4	5
84	Silicone aerogels with tunable mechanical properties obtained via hydrosilylation reaction in supercritical CO ₂ . <i>Journal of Supercritical Fluids</i> , 2019, 149, 120-126.	1.6	5
85	Reducing the Contact angle hysteresis of thin polymer films by oil impregnation in supercritical carbon dioxide. <i>Progress in Organic Coatings</i> , 2021, 154, 106202.	1.9	5
86	Motion of single wandering diblock-macromolecules directed by a PTFE nano-fence: real time SFM observations. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 5591.	1.3	4
87	Raspberry-like Pt clusters with controlled spacing produced by deposition of loaded block copolymer micelles from supercritical CO ₂ . <i>European Polymer Journal</i> , 2015, 71, 73-84.	2.6	4
88	Thermal decomposition of manganese carbonyl in supercritical CO ₂ as a simple and effective approach to obtain manganese oxide aerogels. <i>Journal of Sol-Gel Science and Technology</i> , 2019, 92, 116-123.	1.1	4
89	Polymer-Inorganic Composites Based on Celgard Matrices Obtained from Solutions of (Aminopropyl)triethoxysilane in Supercritical Carbon Dioxide. <i>Doklady Physical Chemistry</i> , 2019, 485, 53-57.	0.2	4
90	Electrochemically active dispersed tungsten oxides obtained from tungsten hexacarbonyl in supercritical carbon dioxide. <i>Journal of Materials Science</i> , 2019, 54, 9426-9441.	1.7	4

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91	Thermo- and pH-Sensitive Microgels Based on Interpenetrating Networks as Components for Creating Polymeric Materials. <i>Polymer Science - Series A</i> , 2019, 61, 773-779.	0.4	4
92	Deposition of a Chitosan Coating on Celgard Porous Matrices in the Presence of Carbon Dioxide under Pressure. <i>Polymer Science - Series A</i> , 2020, 62, 123-131.	0.4	4
93	Metal ions sensing using carbon nanodots from various sources. <i>Functional Materials Letters</i> , 2020, 13, 2040005.	0.7	4
94	Platinum cross-linked chitosan hydrogels synthesized in water saturated with CO ₂ under high pressure. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50006.	1.3	4
95	Scanning Probe Microscopy Of Biomacromolecules: Nucleic Acids, Proteins And Their Complexes. , 2002, , 321-330.		4
96	Production of new haemostatic materials by deposition of dispersed proteins onto porous matrices using supercritical carbon dioxide. <i>Russian Journal of Physical Chemistry B</i> , 2010, 4, 1047-1050.	0.2	3
97	Synthesis of macrocyclic tris<i>-cis-</i>tris<i>-trans</i>-dodeca[(phenyl)(hydroxy)]cyclododecasiloxane in carbonic acid solution. <i>Green Chemistry Letters and Reviews</i> , 2016, 9, 69-75.	2.1	3
98	Polystyrene Foamed with Supercritical CO ₂ as Possible Model System of the Membrane Materials for Flow Batteries. <i>Polymer Science - Series A</i> , 2018, 60, 507-514.	0.4	3
99	Synthesis and surface properties of amphiphilic fluorine-containing diblock copolymers. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49714.	1.3	3
100	Effect of chitosan coating on polypropylene fibers on the deposition of copper ions. <i>Journal of Applied Polymer Science</i> , 2022, 139, 52111.	1.3	3
101	A New Look at the Chemical Recycling of Polypropylene: Thermal Oxidative Destruction in Aqueous Oxygen-Enriched Medium. <i>Polymers</i> , 2022, 14, 744.	2.0	3
102	Corrigendum to "Synthesis of polyimides in supercritical carbon dioxide" <i>Journal of Supercritical Fluids</i> , 2003, 27, 119.	1.6	2
103	Properties of thin Teflon AF 2400 coatings deposited onto carbon fabric from solutions in supercritical carbon dioxide. <i>Polymer Science - Series A</i> , 2017, 59, 42-52.	0.4	2
104	Synthesis of platinum nanoparticles on substrates of various chemical natures using supercritical carbon dioxide. <i>Doklady Physical Chemistry</i> , 2017, 473, 41-44.	0.2	2
105	Formation of Dispersed Particles of Tungsten Oxide and Deposition of Platinum Nanoparticles on Them Using Organometallic Precursors from Solutions in Supercritical Carbon Dioxide. <i>Russian Journal of Physical Chemistry B</i> , 2019, 13, 1315-1321.	0.2	2
106	Electrochemical Exfoliation of Graphite in Supercritical Media. <i>Doklady Physical Chemistry</i> , 2020, 492, 69-73.	0.2	2
107	Improving proton conductivity and ionic selectivity of porous polyolefin membranes by chitosan deposition. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50619.	1.3	2
108	Celgard/ PIM -1 proton conducting composite membrane with reduced vanadium permeability. <i>Journal of Applied Polymer Science</i> , 0, , 51985.	1.3	2

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109	Spreading and Dewetting of Single Bottle-Brush Macromolecules on Nanofaceted SrTiO ₃ Substrate as Induced by Different Vapours. <i>Macromolecular Chemistry and Physics</i> , 2013, 214, 761-775.	1.1	1
110	Interaction of organodialkoxysilanolates with carbon dioxide. <i>RSC Advances</i> , 2016, 6, 105161-105165.	1.7	1
111	A Method for Purification and Modification of a Bone Xenotransplant Material in Biphasic Media Containing High-Pressure CO ₂ . <i>Doklady Physical Chemistry</i> , 2019, 485, 58-62.	0.2	1
112	Platinum Electrodeposition from a Carbon Dioxide-Based Supercritical Electrolyte. <i>Doklady Physical Chemistry</i> , 2019, 489, 173-176.	0.2	1
113	Hydrophobic Properties of Poly(vinyl pivalate-co-1H,1H-perfluoro-4-methyl-3,6-dioxaoctyl) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.2	1
114	Morphology study of metal oxide nanoparticles and aerogels produced via thermal decomposition of metal carbonyls in supercritical carbon dioxide. <i>Journal of Nanoparticle Research</i> , 2021, 23, 1.	0.8	1
115	Multiarmed Star-Shaped Polydimethylsiloxanes with a Dendritic Branching Center. <i>Molecules</i> , 2021, 26, 3280.	1.7	1
116	How does processing in supercritical carbon dioxide influence the Nafion film properties?. <i>Colloid and Polymer Science</i> , 2021, 299, 1863-1875.	1.0	1
117	Principles of Gold Nanoparticles Stabilization with Chitosan in Carbonic Acid Solutions Under High CO ₂ Pressure. <i>Doklady Physical Chemistry</i> , 2020, 495, 166-170.	0.2	1
118	Modification of the Nafion Membrane Using a Chitosan Solution in Carbonic Acid under Pressure. <i>Polymer Science - Series B</i> , 2021, 63, 496-501.	0.3	1
119	Study of the Droplet Pinning Force in the Transition from Dry to Liquid-Infused Thin Polymer Films. <i>Langmuir</i> , 2022, 38, 1114-1123.	1.6	1
120	Scanning tunneling microscope as a nanoelectronic measuring instrument. <i>Measurement Techniques</i> , 1998, 41, 383-388.	0.2	0
121	Interaction of Artificial Nuclease and DNA: Atomic Force Microscopy Data. <i>Doklady Physical Chemistry</i> , 2005, 405, 253-256.	0.2	0
122	Chitosan oxidative scission in self-neutralizing biocompatible solution of peroxycarbonic acid under high pressure CO ₂ . <i>Journal of Applied Polymer Science</i> , 0, , .	1.3	0
123	Electrochemical Synthesis of Few Layer Graphene in Subcritical Electrolyte. <i>Journal of Supercritical Fluids</i> , 2022, , 105627.	1.6	0
124	Influence of the structure of iron carbonyl precursor on the properties of iron oxide nanoparticles obtained from it. <i>Journal of Nanoparticle Research</i> , 2022, 24, .	0.8	0