Alexander Shchegolikhin

List of Publications by Year
in descending order

94	1,098	566801 15	454577 30
papers	citations	h-index	g-index

94	94	94	1312
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Effect of Carbon Nanotube Functionalization on the Structural and Mechanical Properties of Polypropylene/MWCNT Composites. Macromolecules, 2008, 41, 7536-7542.	2.2	180
2	Synthesis and Properties of Polypropylene/Multiwall Carbon Nanotube Composites. Macromolecules, 2008, 41, 3149-3156.	2.2	120
3	Composite materials of graphene nanoplatelets and polypropylene, prepared by in situ polymerization. Journal of Applied Polymer Science, 2013, 127, 904-911.	1.3	56
4	Thermal properties of polyethylene/montmorillonite nanocomposites prepared by intercalative polymerization. Journal of Materials Science, 2008, 43, 1340-1353.	1.7	46
5	Isotactic and syndiotactic polypropylene/multi-wall carbon nanotube composites: synthesis and properties. Journal of Materials Science, 2008, 43, 7132-7140.	1.7	43
6	The characterization of novel biodegradable blends based on polyhydroxybutyrate: The role of water transport. Journal of Molecular Liquids, 2010, 156, 65-69.	2.3	39
7	In situ polymerized poly(propylene)/graphene nanoplatelets nanocomposites: Dielectric and microwave properties. Polymer, 2012, 53, 5330-5335.	1.8	35
8	Effect of Pr3+/Pr4+ ratio on the oxygen ion transport and thermomechanical properties of the pyrochlore and fluorite phases in the ZrO2â€“Pr2O3 system. International Journal of Hydrogen Energy, 2016, 41, 9982-9992.	3.8	30
9	Ozone-induced oxidative modification of fibrinogen: Role of the D regions. Free Radical Biology and Medicine, 2014, 77, 106-120.	1.3	24
10	Ozone-induced oxidative modification of plasma fibrin-stabilizing factor. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 2470-2479.	1.1	22
11	Combining Raman and laser induced breakdown spectroscopy by double pulse lasing. Analytical and Bioanalytical Chemistry, 2018, 410, 277-286.	1.9	21
12	Synthesis, properties and phase transitions of pyrochlore- and fluorite-like Ln2RMO7 (Ln=Sm, Ho;) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.7	20
13	Sm 6-x MoO 12-Î´ (x = 0, 0.5) and Sm 6 WO 12 â€“ Mixed electron-proton conducting materials. Solid State Ionics, 2017, 302, 143-151.	1.3	20
14	Synthesis and testing of hypergolic ionic liquids for chemical propulsion. Acta Astronautica, 2017, 135, 110-113.	1.7	17
15	A Novel Approach to Design Chitosan-Polyester Materials for Biomedical Applications. International Journal of Polymer Science, 2012, 2012, 1-10.	1.2	16
16	Composite materials based on graphene nanoplatelets and polypropylene derived via in situ polymerization. Nanotechnologies in Russia, 2013, 8, 69-80.	0.7	14
17	Microwave plasma in liquid n-heptane: A study of plasma-chemical reaction products. High Energy Chemistry, 2014, 48, 385-388.	0.2	14
18	Nanosize carbon products formed in microwave discharge in liquid alkanes. Plasma Processes and Polymers, 2017, 14, 1600227.	1.6	14

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19	Oxidized modification of fragments D and E from fibrinogen induced by ozone. Biochemistry (Moscow), 2010, 75, 1285-1293.	0.7	13
20	The study of the interaction between chitosan and 2,2-bis(hydroxymethyl)propionic acid during solid-phase synthesis. Polymer Science - Series B, 2011, 53, 358-370.	0.3	13
21	Antiferroelectric phase transition in pyrochlore-like (Dy1â^' xCax)2Ti2O7â^'Î´ (x=0, 0.1) high temperature conductors. Solid State Ionics, 2011, 192, 188-194.	1.3	13
22	Chemical physics of cellulose nitration. Russian Journal of Physical Chemistry B, 2016, 10, 245-259.	0.2	13
23	Discrimination of Staphylococcus aureus Strains from Coagulase-Negative Staphylococci and Other Pathogens by Fourier Transform Infrared Spectroscopy. Analytical Chemistry, 2020, 92, 4943-4948.	3.2	12
24	Key trends in the proton conductivity of Ln6â^'MoO12â^' (Ln = La, Nd, Sm, Gd -Yb; x = 0, 0.5, 0.6, 0.7, 1) rare-earth molybdates. International Journal of Hydrogen Energy, 2021, 46, 16989-16998.	3.8	12
25	Structure evolution, ionic and proton conductivity of solid solutions based on Nd2Hf2O7. Ceramics International, 2020, 46, 17383-17391.	2.3	11
26	Study of oxygen-ion conductivity and luminescence in the ZrO2Ââ€“ Nd2O3 system: Impact of local heterogeneity. Electrochimica Acta, 2022, 403, 139632.	2.6	11
27	A kinetic model for limonene oxidation. Russian Chemical Bulletin, 2008, 57, 83-89.	0.4	10
28	Fibrin self-assembly is adapted to oxidation. Free Radical Biology and Medicine, 2016, 95, 55-64.	1.3	10
29	Composite materials based on fullerenes C60/C70 and polypropylene prepared via in situ polymerization. Polymer Science - Series B, 2013, 55, 286-293.	0.3	9
30	Ozone-induced oxidative modification of fibrinogen molecules. Biochemistry (Moscow), 2013, 78, 1171-1179.	0.7	9
31	Laser crater enhanced Raman spectroscopy. Optics Letters, 2017, 42, 607.	1.7	9
32	PROPERTIES OF A POLY(ETHYLENE TEREPHTHALATE) TRACK MEMBRANE WITH A POLYMER LAYER OBTAINED BY ELECTRON BEAM DISPERSION OF POLYTETRAFLUOROETHYLENE IN VACUUM. High Temperature Material Processes, 2015, 19, 121-139.	0.2	9
33	High-Temperature Thermal Degradation of Polyethylene in an Inorganic Polyoxide Matrix. Doklady Physical Chemistry, 2004, 398, 231-235.	0.2	8
34	Nature of active intermediate particles formed during ozone-induced oxidation. Doklady Biochemistry and Biophysics, 2015, 461, 139-141.	0.3	8
35	Covalent structure of single-stranded fibrin oligomers cross-linked byÂFXIIIa. Biochemical and Biophysical Research Communications, 2015, 461, 408-412.	1.0	8
36	Micro- and nanofluidic diodes based on track-etched poly(ethylene terephthalate) membrane. High Energy Chemistry, 2015, 49, 367-374.	0.2	8

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37	Identification of microorganisms by Fourier-transform infrared spectroscopy. Bulletin of Russian State Medical University, 2018, , 50-57.	0.3	8
38	Elementary supramolecular strings in solutions of chiral trifluoroacetylated amino alcohols. Russian Journal of Physical Chemistry B, 2016, 10, 725-734.	0.2	7
39	Phase Relations and Behavior of Carbon-Containing Impurities in Ceramics Prepared from Mechanically Activated Ln2O3 + 2HfO2 (Ln = Nd, Dy) Mixtures. Inorganic Materials, 2020, 56, 528-542.	0.2	7
40	The Structure of Blood Coagulation Factor XIII Is Adapted to Oxidation. Biomolecules, 2020, 10, 914.	1.8	7
41	Valence state of europium and samarium in Ln2Hf2O7 (Ln = Eu, Sm) based oxygen ion conductors. Ceramics International, 2021, 47, 26898-26906.	2.3	7
42	Pitch-based carbon fibers: bromination, resistivity, stability. Synthetic Metals, 1995, 71, 1773-1774.	2.1	6
43	NIR-FT Raman image of solid-state polymerization of PTS diacetylene. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 1997, 53, 67-79.	2.0	6
44	Catalysis of limonene oxidation by cationic surfactants in combination with transition metal acetylacetonates. Petroleum Chemistry, 2009, 49, 120-126.	0.4	6
45	Comparison of oxygen-free graphene sheets obtained in DMF and DMF-aqua media. New Journal of Chemistry, 2021, 45, 10448-10458.	1.4	6
46	Photophysical Properties and Photochemical Activity of Metal Phthalocyanines Adsorbed on Modified Montmorillonite. Macroheterocycles, 2018, 11, 404-411.	0.9	6
47	Spectroscopic and quantum chemical investigation of enol-enol tautomerism of 2-acetyltetronic acid. Russian Chemical Bulletin, 1995, 44, 1005-1010.	0.4	5
48	Thermochromism, Raman activity, and electroabsorption in highly ordered trans-and cis-polyacetylene. Synthetic Metals, 1997, 84, 371-372.	2.1	5
49	Photo- and thermal-oxidative stability of novel material for photovoltaics: MEH-PPV/TNF blends. Renewable Energy, 2008, 33, 259-261.	4.3	5
50	Polymer synthesis from 1-aminonaphthalene in direct-current discharge. High Energy Chemistry, 2011, 45, 157-161.	0.2	5
51	Alteration in the surface properties of direct-current discharge-treated tetrafluoroethylene-vinylidene fluoride copolymer films. High Energy Chemistry, 2013, 47, 251-257.	0.2	5
52	Explosive Reduction of Graphite Oxide by Hydrazine Vapor at Room Temperature. Doklady Physical Chemistry, 2018, 478, 11-14.	0.2	5
53	Structural Properties of Thin Films Obtained by Magnetron Sputtering of Polydiacetylene. Physics of the Solid State, 2020, 62, 2184-2190.	0.2	5
54	Is NIR-FT Raman a quantitative tool for polydiacetylenes studies ?. Synthetic Metals, 1997, 84, 991-992.	2.1	4

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55	New bis-tetraarylcyclopentadienones. Russian Chemical Bulletin, 1998, 47, 318-320.	0.4	4
56	Novel aromatic tetracarboxylic acid dianhydrides. Russian Chemical Bulletin, 1999, 48, 1942-1945.	0.4	4
57	Scattering of very cold neutrons from the supramolecular structure of ethylene copolymers with substituted norbornene, 5-ethylidene-2-norbornene. Crystallography Reports, 2007, 52, 496-499.	0.1	4
58	Synthesis by polymerization in situ and properties of composite materials based on syndiotactic polypropylene and carbon nanofillers. Nanotechnologies in Russia, 2014, 9, 175-183.	0.7	4
59	Homopolymerization of ethylene and copolymerization of ethylene and 5-ethylidene-2-norbornene with the use of C2-symmetric ansa-zirconozenes catalysts of different composition. Polymer Science - Series B, 2015, 57, 77-84.	0.3	4
60	Evaluation and Characterization of Ultrathin Poly(3-hydroxybutyrate) Fibers Loaded with Tetraphenylporphyrin and Its Complexes with Fe(III) and Sn(IV). Polymers, 2022, 14, 610.	2.0	4
61	2,5-diphenyl-3,4-bis[p-(phenylethynyl)phenyl]cyclopentadienone and product of its Diels-Alder homocondensation. Russian Chemical Bulletin, 1999, 48, 944-948.	0.4	3
62	Dynamics and mechanism of the interaction of graphite powders with ozone. Russian Chemical Bulletin, 2008, 57, 1806-1810.	0.4	3
63	Solid-phase polycondensation of aspartic acid 1. Kinetics of the process as evidenced by TGA and DSC data. Russian Chemical Bulletin, 2010, 59, 806-811.	0.4	3
64	Kinetic parameters for solid-phase polycondensation of L-aspartic acid: Comparison of thermal gravimetric analysis and differential scanning calorimetry data. Polymer Science - Series B, 2011, 53, 10-15.	0.3	3
65	The oxidative modification of cellular fibrin-stabilizing factor. Doklady Biochemistry and Biophysics, 2016, 467, 128-131.	0.3	3
66	Hypochlorite-Induced Damage of Plasminogen Molecules: Structural-Functional Disturbance. Doklady Biochemistry and Biophysics, 2019, 488, 332-337.	0.3	3
67	Polyolefins functionalization by copolymerization of ethylene (propylene) with substituted norbornene. Polimery, 2008, 53, 345-352.	0.4	3
68	Biocompatible Supramolecular Systems Based on Chlorin e6: Preparation, Photophysical Properties. Macroheterocycles, 2020, 13, 142-146.	0.9	3
69	Study of Nd2Â±Hf2Â±O7Â±Î´ system: The ionic and thermal transport properties. Materials Research Bulletin, 2022, 155, 111971.	2.7	3
70	FTIR and NIR-FT-Raman study of potential molecular ferromagnetics - poly(diacetylenes) substituted with nitroxyl radicals. Synthetic Metals, 1995, 71, 1825-1826.	2.1	2
71	Nitroxyl radical substituted diacetylene monomers: molecular design, synthesis, solid-state polymerizability. Synthetic Metals, 1997, 85, 1685-1686.	2.1	2
72	N-substituted amides of 2-cyanopenta-2E,4-dienoic acid. Russian Chemical Bulletin, 1999, 48, 924-928.	0.4	2

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73	Conformational polymorphs of 22-cyano-N-methyl-5-phenylpent-2-en-4-ynamide. Acta Crystallographica Section C: Crystal Structure Communications, 2001, 57, 996-998.	0.4	2
74	Crystal phase transformations within propylene/hexene-1 copolymers films as induced by direct current discharge treatment. European Polymer Journal, 2005, 41, 1688-1698.	2.6	2
75	Enhanced photo and thermal oxidative stability of the charge-transfer complexes of a conjugated polymer. Mendeleev Communications, 2007, 17, 32-33.	0.6	2
76	Kinetic analysis of solid-phase polycondensation of aspartic acid. Doklady Physical Chemistry, 2008, 423, 327-329.	0.2	2
77	Water transport, FTIR, and morphology characterizations of novel biodegradable blends based on poly(3-hydroxybutyrate). Journal of Polymer Engineering, 2011, 31, .	0.6	2
78	Effect of free radical oxidation on the structure and function of plasma fibrin-stabilizing factor. Russian Journal of Physical Chemistry B, 2014, 8, 71-80.	0.2	2
79	Functionalization of polyolefins via the reaction of ozone with double bonds. Polymer Science - Series B, 2017, 59, 62-68.	0.3	2
80	Optical properties of poly(diacetylene) block-copoly(ether-urethanes), containing covalently bound nitroxyl spin labels in the main chain. Synthetic Metals, 1995, 71, 2091-2092.	2.1	1
81	Thermal analysis of brominated pitch-based carbon fibers. Synthetic Metals, 1997, 86, 2347-2348.	2.1	1
82	Cooperative luminescence sensitisation and spontaneous Raman scattering in a borate glass doped with Pr3+and Nd3+ions. Quantum Electronics, 2004, 34, 385-387.	0.3	1
83	Defluorination of fluorinated coke by triethylamine. Doklady Chemistry, 2008, 421, 182-185.	0.2	1
84	Surface modification of graphene sheets with aluminum phthalocyanine complex. Fullerenes Nanotubes and Carbon Nanostructures, 0, , 1-7.	1.0	1
85	One-pot chemical synthesis of poly(pyrrylmethenequinones) from pyrrol and tereph taldicarboxaldehyde. , 1994, , .		0
86	Magnetic and optical properties of poly(diacetylene) block copoly (ether-urethanes) containing nitroxyl spin-labels in tfee main chain. , 1994, , .		0
87	ESR and NIR-FT-raman study of potential molecular ferromagnetics - poly(diacetylenes) substituted with nitroxyl radicals. , 1994, , .		0
88	Structural transformations of diacetylenes during solid-state polymerization and chromatic transitions of poly(diacetylenes) as measured by a modified diffuse reflection-absorption ftir-technique. , 1994, , .		0
89	Complete (nir-ft-raman and ftir) vibrational spectra of fullerene C/sub 60/ and films of copoly(fullerene-C/sub 60/-p-xylylene). , 1994, , .		0
90	New Activated Difluoroaromatic Compounds Containing Internal Acetylenic Moieties. Russian Journal of General Chemistry, 2003, 73, 1110-1113.	0.3	0

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91	Structural transitions in propylene-1-hexene copolymer films during low-temperature plasma treatment. High Energy Chemistry, 2007, 41, 114-121.	0.2	0
92	Regulation of solid-phase polycondensation of L-aspartic acid. Doklady Physical Chemistry, 2009, 429, 252-254.	0.2	0
93	Synthesis of organic-inorganic polymer structures via the interaction of orthoboric acid with m-phenylene-bismaleimide. Polymer Science - Series B, 2009, 51, 492-496.	0.3	0
94	Ð˜ÐµÐ½Ñ‚Ð¸Ñ„Ð¸Ñ†Ð¸Ñ€Ð¾Ð²Ð°Ð½Ð¾ Ñ•Ð¿ÐµÐºÑ‚Ñ€Ð°Ð»ÑŒÐ½Ñ‹Ð¼Ð¸ Ð¼ÐµÑ‚Ð¾Ð´Ð°Ð¼Ð¸ Ñ•Ð¿Ð¾Ð½Ñ‚Ð°Ð½Ð½Ð¾ÑŒ Ð¸Ð½Ñ„Ñ€Ð°ÐºÑ€Ð°Ñ•Ð½Ð¾Ð¹		