Vasily Lebedev

List of Publications by Year in descending order

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100	496	758635 12	887659 17
papers	citations	h-index	g-index

100	100	100	330
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	State of the art and prospects in the development of protonâ€conducting perfluorinated membranes with short side chains: A review. Polymers for Advanced Technologies, 2021, 32, 1386-1408.	1.6	28
2	Neutron Study of Multilevel Structures of Diamond Gels. Condensed Matter, 2016, 1, 10.	0.8	26
3	Small-angle neutron-scattering study of anomalous C60 clusterization in toluene. Physics of the Solid State, 2002, 44, 572-573.	0.2	23
4	Effect of the Cu content and ZnS treatment on the characteristics of synthesized ZnS:(Cu, Cl) electroluminescent phosphors. Semiconductors, 2012, 46, 696-700.	0.2	23
5	Structure and transport properties of pervaporation membranes based on polyphenylene oxide and heteroarm star polymers. Petroleum Chemistry, 2016, 56, 920-930.	0.4	19
6	Structure characterization of perfluorosulfonic short side chain polymer membranes. RSC Advances, 2015, 5, 73820-73826.	1.7	17
7	New silicone hydrogels based on interpenetrating polymer networks comprising polysiloxane and poly(vinyl alcohol) networks. Polymers for Advanced Technologies, 2009, 20, 367-377.	1.6	16
8	In vitro and in vivo study of the toxicity of fullerenols Ð¡60, Ð¡70 and Ð¡120Ðž obtained by an original two step method. Materials Science and Engineering C, 2019, 104, 109945.	3.8	16
9	Scientific principles of a new process for manufacturing perfluorinated polymer electrolytes for fuel cells. Petroleum Chemistry, 2012, 52, 453-461.	0.4	15
10	Synthesis, extraction, and chromatographic purification of higher empty fullerenes and endohedral gadolinium metallofullerenes. Russian Journal of Applied Chemistry, 2014, 87, 121-127.	0.1	14
11	Structure and supramolecular structures of star-shaped fullerene-containing heteroarm polymers in deuterotoluene. Polymer Science - Series A, 2011, 53, 12-23.	0.4	12
12	Structure and property optimization of perfluorinated short side chain membranes for hydrogen fuel cells using orientational stretching. RSC Advances, 2016, 6, 108864-108875.	1.7	12
13	Structural features of star-shaped fullerene (C60)-containing polystyrenes: Neutron scattering experiments. Polymer Science - Series A, 2008, 50, 1090-1097.	0.4	11
14	Composite proton-conducting membranes with nanodiamonds. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 140-146.	1.0	10
15	Structure of aluminum alloys irradiated with reactor neutrons. Physics of the Solid State, 2010, 52, 996-999.	0.2	9
16	Polymer hydrogels with the memory effect for immobilization of drugs. Polymer Science - Series A, 2011, 53, 323-335.	0.4	9
17	Modification of the mechanism of proton conductivity of the perfluorinated membrane copolymer by nanodiamonds. Russian Chemical Bulletin, 2021, 70, 1713-1717.	0.4	9
18	Effect of preparation conditions on nanostructural features of the NAFIONÂ® type perfluorinated proton conducting membranes. Petroleum Chemistry, 2012, 52, 565-570.	0.4	8

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19	Perfluorinated Proton-Conducting Membrane Composites with Functionalized Nanodiamonds. Membranes and Membrane Technologies, 2020, 2, 1-9.	0.6	8
20	Small-angle neutron scattering study of high-pressure sintered detonation nanodiamonds. Crystallography Reports, 2011, 56, 1181-1185.	0.1	7
21	Investigation of the neutron activation of endohedral rare earth metallofullerenes. Crystallography Reports, 2011, 56, 1192-1196.	0.1	7
22	Amphiphilic star-shaped polymer with fullerene (C60) branching center and its micelle-forming properties in D2O solutions. Russian Journal of Applied Chemistry, 2012, 85, 1594-1599.	0.1	7
23	Detection of hydrogen-copper clustering in Zn1â^'x CuxO compounds using neutron scattering methods. Physics of the Solid State, 2006, 48, 1291-1297.	0.2	6
24	Internal organization and conformational characteristics of star-shaped polystyrene with fullerene C60 as a branching center in deuterotoluene. Polymer Science - Series A, 2011, 53, 537-545.	0.4	6
25	Composite films based on polyphenylene oxide modified with endofullerenes C60 with encapsulated iron atoms. Russian Journal of Applied Chemistry, 2017, 90, 1549-1557.	0.1	6
26	Mechanisms of supramolecular ordering of water-soluble derivatives of fullerenes in aqueous media. Fullerenes Nanotubes and Carbon Nanostructures, 2020, 28, 30-39.	1.0	6
27	Enhanced photocatalytic activity and easy recovery of visible light active MoSe₂/BiVO₄ heterojunction immobilized on Luffa cylindrica â€“ experimental and DFT study. Environmental Science: Nano, 2021, 8, 3028-3041.	2.2	6
28	Nature of radiation defects in synthetic quartz according to the small-angle neutron scattering data. Crystallography Reports, 2007, 52, 456-459.	0.1	5
29	Investigation of the hydrogen capacity of composites based on ZnOCu. Crystallography Reports, 2007, 52, 474-478.	0.1	5
30	Effect of the branching center structure on self-organization of fullerene-containing star-shaped polystyrenes in deuterotoluene. Russian Journal of Applied Chemistry, 2011, 84, 443-449.	0.1	5
31	Regular Star-Shaped Fullerene(C₆₀)-Containing Polystyrenes in Solutions: SANS Aspect. Journal of Macromolecular Science - Physics, 2013, 52, 1736-1755.	0.4	5
32	Polarized-neutron scattering in aqueous solutions of fullerenols in a magnetic field. Journal of Surface Investigation, 2014, 8, 1044-1054.	0.1	5
33	A carbon composite based on pyrolyzed diphthalocyanines for immobilization of high-level waste from nuclear industry. Radiochemistry, 2016, 58, 545-555.	0.2	5
34	Neutron studies of paramagnetic fullerenolsâ€™ assembly in aqueous solutions. Journal of Physics: Conference Series, 2018, 994, 012005.	0.3	5
35	Proton Spin Relaxation in Aqueous Solutions of Self-assembling Gadolinium Endofullerenols. Applied Magnetic Resonance, 2019, 50, 1163-1175.	0.6	5
36	Diamond-based nanostructures with metal-organic molecules. Soft Materials, 2022, 20, S34-S43.	0.8	5

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37	Neutron study of self-organization in solutions of ionomers based on sulfonated polystyrene. Polymer Science - Series A, 2009, 51, 277-282.	0.4	4
38	Effect of annealing temperature on the structure of pyrolysates of diphthalocyanines of rare-earth elements: Neutron research. Journal of Surface Investigation, 2014, 8, 1002-1009.	0.1	4
39	Clustering of gadolinium endofullerenols in aqueous solutions. Russian Journal of Applied Chemistry, 2015, 88, 1839-1847.	0.1	4
40	Complexes of nanodiamonds with Gd-fullerenols for biomedicine. Fullerenes Nanotubes and Carbon Nanostructures, 2022, 30, 36-45.	1.0	4
41	Magnetic-field-induced slowing-down of molecular rotation in C60 crystals. Physics of the Solid State, 2002, 44, 641-643.	0.2	3
42	Small-angle neutron scattering study of radiation-induced defects in synthetic quartz. Crystallography Reports, 2006, 51, S16-S21.	0.1	3
43	Small-angle neutron scattering study of radiation defects in synthetic quartz. Physics of the Solid State, 2006, 48, 678-685.	0.2	3
44	Some capabilities of neutron methods for investigating materials and components of devices used in hydrogen power engineering. Crystallography Reports, 2007, 52, 512-520.	0.1	3
45	Structure of the water salt solutions of DNA with sulfonated scandium diphthalocyanine. Journal of Structural Chemistry, 2007, 48, 740-746.	0.3	3
46	Intra- and intermolecular organization of sulfopolystyrene ionomers in solutions: Neutron scattering study. Polymer Science - Series A, 2009, 51, 372-380.	0.4	3
47	Self-organization of sulfonated polystyrene ionomers with various contents of ionogenic groups in toluene: Neutron scattering study. Polymer Science - Series A, 2009, 51, 965-973.	0.4	3
48	Synthesis and structural investigation of ferrofluids with porphyrins and prospects of their application in photodynamic therapy. Journal of Surface Investigation, 2009, 3, 379-386.	0.1	3
49	Self-organization of sulfopolystyrene ionomers with SO3Na ionic groups in deuterotetrahydrofuran. Russian Journal of Applied Chemistry, 2011, 84, 272-277.	0.1	3
50	Structural features of fullerene-containing star-shaped polystyrene molecules with Oligomer arms in solutions. Polymer Science - Series A, 2013, 55, 32-38.	0.4	3
51	Small-angle neutron scattering investigation of the nanostructure of the SAV-1 alloy irradiated with fast neutrons to high fluences. Physics of the Solid State, 2014, 56, 161-165.	0.2	3
52	Investigation of radiation resistance of fullerenes under irradiation with fast neutrons. Physics of the Solid State, 2014, 56, 178-182.	0.2	3
53	Aggregation of iron-containing fullerenols in aqueous solutions. Russian Journal of Applied Chemistry, 2015, 88, 2009-2014.	0.1	3
54	Small-angle neutron scattering study of composites based on poly(phenylene oxide) modified with hybrid starlike fullerene-containing macromolecules. Polymer Science - Series A, 2015, 57, 76-85.	0.4	3

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55	Radiation resistance of endohedral metallofullerenols under neutron irradiation. Crystallography Reports, 2016, 61, 666-669.	0.1	3
56	Study of the Radiation Resistance of Endohedral Fullerenes of Rare-Earth Elements and Their Water-Soluble Derivatives. Crystallography Reports, 2018, 63, 132-138.	0.1	3
57	Orientational uniaxial stretching of proton conducting perfluorinated membranes. Journal of Applied Polymer Science, 2022, 139, .	1.3	3
58	A neutron spin-echo study of the dynamics of star-shaped polymers (with polystyrene arms grafted to) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.2	2
59	Complexes of poly-N-vinylpyrrolidone with sulfonated tetraphenylporphins. Crystallography Reports, 2007, 52, 492-495.	0.1	2
60	Molecular and supramolecular structure of sulfonated polystyrene ionomers in solutions. Journal of Surface Investigation, 2009, 3, 582-591.	0.1	2
61	Conformational properties of chains and supramolecular structures of sulfonated polystyrene ionomers in D-benzene. Polymer Science - Series A, 2010, 52, 228-234.	0.4	2
62	Self-organization of sulfonated polystyrene ionomers in low-polarity solvents. Polymer Science - Series C, 2010, 52, 111-121.	0.8	2
63	Structure of magnetically guided nanocarriers of the photodithazine sensitizer from small-angle neutron scattering data. Physics of the Solid State, 2010, 52, 1040-1044.	0.2	2
64	Self-organization of sulfopolystyrene ionomers in solutions: Dependence on the polarity of the solution and the content of ionogenic groups in chains. Polymer Science - Series A, 2011, 53, 678-690.	0.4	2
65	Structure of complexes of sulphuretted tetraphenylporphine with poly-N-vinylpyrrolidone according to the data of small-angle neutron scattering. Journal of Surface Investigation, 2011, 5, 113-119.	0.1	2
66	Small-angle neutron scattering from polymer hydrogels with memory effect for medicine immobilization. Crystallography Reports, 2011, 56, 1114-1117.	0.1	2
67	Mechanisms of the self-organization of star-shaped polymers with a varied structure of branching center based on fullerene C60 in solutions. Crystallography Reports, 2011, 56, 1118-1122.	0.1	2
68	Investigation of polymer hydrogels with memory effect for cefazolin immobilization by small-angle neutron scattering. Journal of Surface Investigation, 2012, 6, 825-832.	0.1	2
69	Structure of phase-inversion membranes from small-angle neutron scattering data. Physics of the Solid State, 2014, 56, 86-90.	0.2	2
70	Structural features of films based on star-shaped fullerene-containing polystyrenes: Small-angle neutron-scattering study. Polymer Science - Series A, 2016, 58, 697-709.	0.4	2
71	Structure of the amorphous phase of pyrolisates of lanthanum diphthalocyanine according to X-ray scattering data. Journal of Surface Investigation, 2017, 11, 38-48.	0.1	2
72	Valence and Coordination of Iron with Carbon in Structures Based on Fullerene Ð¡60 according to NGR Spectroscopy and EXAFS. Crystallography Reports, 2020, 65, 404-408.	0.1	2

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73	Three-Dimensional Analysis of the Polarization of Scattered Neutrons of the Thermal, Cold, and Very Cold Spectrum in Studies of the Magnetic Dynamics of Endometallofullerenes. Journal of Surface Investigation, 2020, 14, 1-5.	0.1	2
74	Modified Neutron Spin Echo with Spectrum Modulation: Specific Feature and Applications. Lecture Notes in Physics, 2002, , 65-73.	0.3	2
75	Complexes of ferromagnetic fluids with photoditazin and their promising applications in photodynamic therapy. Journal of Structural Chemistry, 2009, 50, 949-953.	0.3	1
76	Self-organization of sulfopolystyrene ionomers with ionic SO3Li groups in carbon tetrachloride. Russian Journal of Applied Chemistry, 2010, 83, 864-868.	0.1	1
77	Molecular and supramolecular organization of star-shaped C60-fullerene-containing polyethylene oxide in benzene. Russian Journal of Applied Chemistry, 2011, 84, 278-283.	0.1	1
78	Self-Organization Processes in Polymeric Nanocomposites with C₆₀Fullerenes. Fullerenes Nanotubes and Carbon Nanostructures, 2012, 20, 361-366.	1.0	1
79	Effect of fullerene C60 branching center on the conformational properties of arms and the structure of star-shaped polystyrenes in solutions. Polymer Science - Series A, 2013, 55, 65-74.	0.4	1
80	Structure formation of fullerene-containing propylene oxide oligomers in deuterium water. Russian Journal of Applied Chemistry, 2013, 86, 568-574.	0.1	1
81	Investigations of the structure and conformations of star-shaped polymers with fullerene branching centers functionalized by carbonyl groups. Physics of the Solid State, 2014, 56, 183-189.	0.2	1
82	Neutron Studies of Composites of Poly(phenylene oxide) Modified by Hybrid Starâ€Shaped Fullereneâ€Containing Macromolecules. Macromolecular Symposia, 2015, 348, 54-62.	0.4	1
83	Effect of the fullerene C60 on the structure of asymmetric microporous membranes based on polyamidoimide. Journal of Surface Investigation, 2015, 9, 6-11.	0.1	1
84	Synthesis and radiation resistance of fullerenes and fullerene derivatives. Crystallography Reports, 2016, 61, 670-674.	0.1	1
85	Atomic-Force-Microscopy Analysis of Uranium Bis-Phthalocyanine and Its Pyrolysed Derivatives. Journal of Surface Investigation, 2018, 12, 170-174.	0.1	1
86	Structure of Yttrium Bis-Phthalocyanine Pyrolyzed Derivatives. Journal of Surface Investigation, 2019, 13, 793-801.	0.1	1
87	Neutron Guide System for Ultracold and Cold Neutrons at the WWR-M Reactor. Technical Physics, 2019, 64, 737-744.	0.2	1
88	Structure of Diffusion Polymer Membranes for Molecular and Ionic Transport. Journal of Surface Investigation, 2021, 15, 939-946.	0.1	1
89	Investigation of superconducting crystals by neutron scattering and nuclear microanalysis. Technical Physics Letters, 1998, 24, 144-145.	0.2	0
90	A cold neutron scattering study of the association in D-toluene of sulfopolystyrene ionomers with varied content of ionogenic groups. Russian Journal of Applied Chemistry, 2009, 82, 657-665.	0.1	0

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91	Principles of generalized spin-echo spectroscopy. Journal of Surface Investigation, 2009, 3, 429-436.	0.1	0
92	Supra-atomic structure of radiation-induced defects in synthetic quartz from neutron scattering data. Physics of the Solid State, 2010, 52, 1000-1005.	0.2	0
93	Dynamics of water in binary and ternary solutions of DNA and porphyrins. Physics of the Solid State, 2010, 52, 1074-1079.	0.2	0
94	Analytical complex at the PIK reactor for studying the supra-atomic structure and dynamics of materials by neutron scattering. Crystallography Reports, 2011, 56, 1212-1216.	0.1	0
95	Small-angle neutron scattering in aqueous solutions of fullerene-containing oligopropylene oxides. Journal of Surface Investigation, 2014, 8, 1055-1062.	0.1	0
96	Investigations of the structure and conformations of star-shaped polymers with fullerene branching centers: Polystyrenes with different structures and functionalities of the C60 centers in toluene. Physics of the Solid State, 2014, 56, 190-198.	0.2	0
97	Studying the metal structure of anticorrosive cladding for the nuclear-reactor vessels by neutron diffraction and small-angle neutron scattering. Journal of Surface Investigation, 2016, 10, 1154-1160.	0.1	0
98	Structure of Silicon-Substituted Polytricyclononene Films: Small-Angle Neutron Scattering Data. Physics of the Solid State, 2018, 60, 2097-2102.	0.2	0
99	Spin Echo Spectrometry Using Very Cold Neutrons. Journal of Surface Investigation, 2018, 12, 426-430.	0.1	0
100	The 20-Year Russian-Italian Scientific Collaboration in Industrial Applications of Neutrons and Prospects on High Flux Reactor â€œPIKâ€•of Russian National Centre â€œKurchatov Instituteâ€• Neutron News, 0, , 1-7.	0.1	0