

# Vasily Lebedev

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

100  
papers

363  
citations

10  
h-index

13  
g-index

100  
ext. papers

419  
ext. citations

1.1  
avg, IF

3.32  
L-index

#	Paper	IF	Citations
100	Modification of the mechanism of proton conductivity of the perfluorinated membrane copolymer by nanodiamonds. <i>Russian Chemical Bulletin</i> , <b>2021</b> , 70, 1713-1717	1.7	0
99	Structure of Diffusion Polymer Membranes for Molecular and Ionic Transport. <i>Journal of Surface Investigation</i> , <b>2021</b> , 15, 939-946	0.5	
98	State of the art and prospects in the development of proton-conducting perfluorinated membranes with short side chains: A review. <i>Polymers for Advanced Technologies</i> , <b>2021</b> , 32, 1386-1408	3.2	8
97	Valence and Coordination of Iron with Carbon in Structures Based on Fullerene C <sub>60</sub> according to NGR Spectroscopy and EXAFS. <i>Crystallography Reports</i> , <b>2020</b> , 65, 404-408	0.6	1
96	Perfluorinated Proton-Conducting Membrane Composites with Functionalized Nanodiamonds. <i>Membranes and Membrane Technologies</i> , <b>2020</b> , 2, 1-9	1.7	5
95	Mechanisms of supramolecular ordering of water-soluble derivatives of fullerenes in aqueous media. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2020</b> , 28, 30-39	1.8	3
94	Composite proton-conducting membranes with nanodiamonds. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2020</b> , 28, 140-146	1.8	5
93	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. <i>Journal of Surface Investigation</i> , <b>2020</b> , 14, 1-5	0.5	1
92	Structure of Yttrium Bis-Phthalocyanine Pyrolyzed Derivatives. <i>Journal of Surface Investigation</i> , <b>2019</b> , 13, 793-801	0.5	1
91	Neutron Guide System for Ultracold and Cold Neutrons at the WWR-M Reactor. <i>Technical Physics</i> , <b>2019</b> , 64, 737-744	0.5	1
90	In vitro and in vivo study of the toxicity of fullerenols [1] and [2] obtained by an original two step method. <i>Materials Science and Engineering C</i> , <b>2019</b> , 104, 109945	8.3	7
89	Proton Spin Relaxation in Aqueous Solutions of Self-assembling Gadolinium Endofullerenols. <i>Applied Magnetic Resonance</i> , <b>2019</b> , 50, 1163-1175	0.8	1
88	Study of the Radiation Resistance of Endohedral Fullerenes of Rare-Earth Elements and Their Water-Soluble Derivatives. <i>Crystallography Reports</i> , <b>2018</b> , 63, 132-138	0.6	1
87	Atomic-Force-Microscopy Analysis of Uranium Bis-Phthalocyanine and Its Pyrolysed Derivatives. <i>Journal of Surface Investigation</i> , <b>2018</b> , 12, 170-174	0.5	1
86	Neutron studies of paramagnetic fullerenols assembly in aqueous solutions. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 994, 012005	0.3	3
85	Structure of Silicon-Substituted Polytricyclononene Films: Small-Angle Neutron Scattering Data. <i>Physics of the Solid State</i> , <b>2018</b> , 60, 2097-2102	0.8	
84	Spin Echo Spectrometry Using Very Cold Neutrons. <i>Journal of Surface Investigation</i> , <b>2018</b> , 12, 426-430	0.5	

83	Structure of the amorphous phase of pyrolyses of lanthanum diphthalocyanine according to X-ray scattering data. <i>Journal of Surface Investigation</i> , <b>2017</b> , 11, 38-48	0.5	1
82	Composite films based on polyphenylene oxide modified with endofullerenes C60 with encapsulated iron atoms. <i>Russian Journal of Applied Chemistry</i> , <b>2017</b> , 90, 1549-1557	0.8	5
81	Neutron Study of Multilevel Structures of Diamond Gels. <i>Condensed Matter</i> , <b>2016</b> , 1, 10	1.8	21
80	Radiation resistance of endohedral metallofullerenols under neutron irradiation. <i>Crystallography Reports</i> , <b>2016</b> , 61, 666-669	0.6	3
79	Synthesis and radiation resistance of fullerenes and fullerene derivatives. <i>Crystallography Reports</i> , <b>2016</b> , 61, 670-674	0.6	1
78	A carbon composite based on pyrolyzed diphthalocyanines for immobilization of high-level waste from nuclear industry. <i>Radiochemistry</i> , <b>2016</b> , 58, 545-555	0.9	4
77	Structural features of films based on star-shaped fullerene-containing polystyrenes: Small-angle neutron-scattering study. <i>Polymer Science - Series A</i> , <b>2016</b> , 58, 697-709	1.2	2
76	Structure and property optimization of perfluorinated short side chain membranes for hydrogen fuel cells using orientational stretching. <i>RSC Advances</i> , <b>2016</b> , 6, 108864-108875	3.7	10
75	Structure and transport properties of pervaporation membranes based on polyphenylene oxide and heteroarm star polymers. <i>Petroleum Chemistry</i> , <b>2016</b> , 56, 920-930	1.1	15
74	Studying the metal structure of anticorrosive cladding for the nuclear-reactor vessels by neutron diffraction and small-angle neutron scattering. <i>Journal of Surface Investigation</i> , <b>2016</b> , 10, 1154-1160	0.5	
73	Effect of the fullerene C60 on the structure of asymmetric microporous membranes based on polyamidoimide. <i>Journal of Surface Investigation</i> , <b>2015</b> , 9, 6-11	0.5	1
72	Small-angle neutron scattering study of composites based on poly(phenylene oxide) modified with hybrid starlike fullerene-containing macromolecules. <i>Polymer Science - Series A</i> , <b>2015</b> , 57, 76-85	1.2	3
71	Structure characterization of perfluorosulfonic short side chain polymer membranes. <i>RSC Advances</i> , <b>2015</b> , 5, 73820-73826	3.7	12
70	Clustering of gadolinium endofullerenols in aqueous solutions. <i>Russian Journal of Applied Chemistry</i> , <b>2015</b> , 88, 1839-1847	0.8	2
69	Aggregation of iron-containing fullerenols in aqueous solutions. <i>Russian Journal of Applied Chemistry</i> , <b>2015</b> , 88, 2009-2014	0.8	2
68	Neutron Studies of Composites of Poly(phenylene oxide) Modified by Hybrid Star-Shaped Fullerene-Containing Macromolecules. <i>Macromolecular Symposia</i> , <b>2015</b> , 348, 54-62	0.8	1
67	Synthesis, extraction, and chromatographic purification of higher empty fullerenes and endohedral gadolinium metallofullerenes. <i>Russian Journal of Applied Chemistry</i> , <b>2014</b> , 87, 121-127	0.8	10
66	Polarized-neutron scattering in aqueous solutions of fullerenols in a magnetic field. <i>Journal of Surface Investigation</i> , <b>2014</b> , 8, 1044-1054	0.5	4

65	Effect of annealing temperature on the structure of pyrolysates of diphthalocyanines of rare-earth elements: Neutron research. <i>Journal of Surface Investigation</i> , <b>2014</b> , 8, 1002-1009	0.5	3
64	Small-angle neutron scattering in aqueous solutions of fullerene-containing oligopropylene oxides. <i>Journal of Surface Investigation</i> , <b>2014</b> , 8, 1055-1062	0.5	
63	Structure of phase-inversion membranes from small-angle neutron scattering data. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 86-90	0.8	2
62	Small-angle neutron scattering investigation of the nanostructure of the SAV-1 alloy irradiated with fast neutrons to high fluences. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 161-165	0.8	2
61	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. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 190-198	0.8	
60	Investigations of the structure and conformations of star-shaped polymers with fullerene branching centers functionalized by carbonyl groups. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 183-189	0.8	1
59	Investigation of radiation resistance of fullerenes under irradiation with fast neutrons. <i>Physics of the Solid State</i> , <b>2014</b> , 56, 178-182	0.8	2
58	Effect of fullerene C60 branching center on the conformational properties of arms and the structure of star-shaped polystyrenes in solutions. <i>Polymer Science - Series A</i> , <b>2013</b> , 55, 65-74	1.2	1
57	Structure formation of fullerene-containing propylene oxide oligomers in deuterium water. <i>Russian Journal of Applied Chemistry</i> , <b>2013</b> , 86, 568-574	0.8	1
56	Structural features of fullerene-containing star-shaped polystyrene molecules with Oligomer arms in solutions. <i>Polymer Science - Series A</i> , <b>2013</b> , 55, 32-38	1.2	3
55	Regular Star-Shaped Fullerene(C60)-Containing Polystyrenes in Solutions: SANS Aspect. <i>Journal of Macromolecular Science - Physics</i> , <b>2013</b> , 52, 1736-1755	1.4	5
54	Investigation of polymer hydrogels with memory effect for cefazolin immobilization by small-angle neutron scattering. <i>Journal of Surface Investigation</i> , <b>2012</b> , 6, 825-832	0.5	2
53	Amphiphilic star-shaped polymer with fullerene (C60) branching center and its micelle-forming properties in D2O solutions. <i>Russian Journal of Applied Chemistry</i> , <b>2012</b> , 85, 1594-1599	0.8	7
52	Scientific principles of a new process for manufacturing perfluorinated polymer electrolytes for fuel cells. <i>Petroleum Chemistry</i> , <b>2012</b> , 52, 453-461	1.1	13
51	Effect of preparation conditions on nanostructural features of the NAFION <sup>®</sup> type perfluorinated proton conducting membranes. <i>Petroleum Chemistry</i> , <b>2012</b> , 52, 565-570	1.1	7
50	Effect of the Cu content and ZnS treatment on the characteristics of synthesized ZnS:(Cu, Cl) electroluminescent phosphors. <i>Semiconductors</i> , <b>2012</b> , 46, 696-700	0.7	23
49	Self-Organization Processes in Polymeric Nanocomposites with C60 Fullerenes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2012</b> , 20, 361-366	1.8	1
48	Self-organization of sulfopolystyrene ionomers with SO <sub>3</sub> Na ionic groups in deuterotetrahydrofuran. <i>Russian Journal of Applied Chemistry</i> , <b>2011</b> , 84, 272-277	0.8	2

47	Molecular and supramolecular organization of star-shaped C60-fullerene-containing polyethylene oxide in benzene. <i>Russian Journal of Applied Chemistry</i> , <b>2011</b> , 84, 278-283	0.8	1
46	Effect of the branching center structure on self-organization of fullerene-containing star-shaped polystyrenes in deuterotoluene. <i>Russian Journal of Applied Chemistry</i> , <b>2011</b> , 84, 443-449	0.8	5
45	Structure and supramolecular structures of star-shaped fullerene-containing heteroarm polymers in deuterotoluene. <i>Polymer Science - Series A</i> , <b>2011</b> , 53, 12-23	1.2	9
44	Polymer hydrogels with the memory effect for immobilization of drugs. <i>Polymer Science - Series A</i> , <b>2011</b> , 53, 323-335	1.2	6
43	Internal organization and conformational characteristics of star-shaped polystyrene with fullerene C60 as a branching center in deuterotoluene. <i>Polymer Science - Series A</i> , <b>2011</b> , 53, 537-545	1.2	6
42	Self-organization of sulfopolystyrene ionomers in solutions: Dependence on the polarity of the solution and the content of ionogenic groups in chains. <i>Polymer Science - Series A</i> , <b>2011</b> , 53, 678-690	1.2	1
41	Structure of complexes of sulphuretted tetraphenylporphine with poly-N-vinylpyrrolidone according to the data of small-angle neutron scattering. <i>Journal of Surface Investigation</i> , <b>2011</b> , 5, 113-119	0.5	2
40	Small-angle neutron scattering study of high-pressure sintered detonation nanodiamonds. <i>Crystallography Reports</i> , <b>2011</b> , 56, 1181-1185	0.6	7
39	Small-angle neutron scattering from polymer hydrogels with memory effect for medicine immobilization. <i>Crystallography Reports</i> , <b>2011</b> , 56, 1114-1117	0.6	2
38	Mechanisms of the self-organization of star-shaped polymers with a varied structure of branching center based on fullerene C60 in solutions. <i>Crystallography Reports</i> , <b>2011</b> , 56, 1118-1122	0.6	2
37	Analytical complex at the PIK reactor for studying the supra-atomic structure and dynamics of materials by neutron scattering. <i>Crystallography Reports</i> , <b>2011</b> , 56, 1212-1216	0.6	
36	Investigation of the neutron activation of endohedral rare earth metallofullerenes. <i>Crystallography Reports</i> , <b>2011</b> , 56, 1192-1196	0.6	5
35	Conformational properties of chains and supramolecular structures of sulfonated polystyrene ionomers in D-benzene. <i>Polymer Science - Series A</i> , <b>2010</b> , 52, 228-234	1.2	2
34	Structure of aluminum alloys irradiated with reactor neutrons. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 996-998	0.8	6
33	Supra-atomic structure of radiation-induced defects in synthetic quartz from neutron scattering data. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 1000-1005	0.8	
32	Dynamics of water in binary and ternary solutions of DNA and porphyrins. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 1074-1079	0.8	
31	Self-organization of sulfopolystyrene ionomers with ionic SO <sub>3</sub> Li groups in carbon tetrachloride. <i>Russian Journal of Applied Chemistry</i> , <b>2010</b> , 83, 864-868	0.8	1
30	Self-organization of sulfonated polystyrene ionomers in low-polarity solvents. <i>Polymer Science - Series C</i> , <b>2010</b> , 52, 111-121	1.1	2

29	Structure of magnetically guided nanocarriers of the photodithazine sensitizer from small-angle neutron scattering data. <i>Physics of the Solid State</i> , <b>2010</b> , 52, 1040-1044	0.8	2
28	Complexes of ferromagnetic fluids with photoditazin and their promising applications in photodynamic therapy. <i>Journal of Structural Chemistry</i> , <b>2009</b> , 50, 949-953	0.9	1
27	New silicone hydrogels based on interpenetrating polymer networks comprising polysiloxane and poly(vinyl alcohol) networks. <i>Polymers for Advanced Technologies</i> , <b>2009</b> , 20, 367-377	3.2	15
26	A cold neutron scattering study of the association in D-toluene of sulfopolystyrene ionomers with varied content of ionogenic groups. <i>Russian Journal of Applied Chemistry</i> , <b>2009</b> , 82, 657-665	0.8	
25	Neutron study of self-organization in solutions of ionomers based on sulfonated polystyrene. <i>Polymer Science - Series A</i> , <b>2009</b> , 51, 277-282	1.2	4
24	Intra- and intermolecular organization of sulfopolystyrene ionomers in solutions: Neutron scattering study. <i>Polymer Science - Series A</i> , <b>2009</b> , 51, 372-380	1.2	3
23	Self-organization of sulfonated polystyrene ionomers with various contents of ionogenic groups in toluene: Neutron scattering study. <i>Polymer Science - Series A</i> , <b>2009</b> , 51, 965-973	1.2	3
22	Synthesis and structural investigation of ferrofluids with porphyrins and prospects of their application in photodynamic therapy. <i>Journal of Surface Investigation</i> , <b>2009</b> , 3, 379-386	0.5	2
21	Principles of generalized spin-echo spectroscopy. <i>Journal of Surface Investigation</i> , <b>2009</b> , 3, 429-436	0.5	
20	Molecular and supramolecular structure of sulfonated polystyrene ionomers in solutions. <i>Journal of Surface Investigation</i> , <b>2009</b> , 3, 582-591	0.5	2
19	Structural features of star-shaped fullerene (C60)-containing polystyrenes: Neutron scattering experiments. <i>Polymer Science - Series A</i> , <b>2008</b> , 50, 1090-1097	1.2	11
18	Nature of radiation defects in synthetic quartz according to the small-angle neutron scattering data. <i>Crystallography Reports</i> , <b>2007</b> , 52, 456-459	0.6	3
17	Investigation of the hydrogen capacity of composites based on ZnOCu. <i>Crystallography Reports</i> , <b>2007</b> , 52, 474-478	0.6	3
16	Complexes of poly-N-vinylpyrrolidone with sulfonated tetraphenylporphins. <i>Crystallography Reports</i> , <b>2007</b> , 52, 492-495	0.6	1
15	Some capabilities of neutron methods for investigating materials and components of devices used in hydrogen power engineering. <i>Crystallography Reports</i> , <b>2007</b> , 52, 512-520	0.6	2
14	Structure of the water salt solutions of DNA with sulfonated scandium diphthalocyanine. <i>Journal of Structural Chemistry</i> , <b>2007</b> , 48, 740-746	0.9	3
13	Small-angle neutron scattering study of radiation-induced defects in synthetic quartz. <i>Crystallography Reports</i> , <b>2006</b> , 51, S16-S21	0.6	2
12	Small-angle neutron scattering study of radiation defects in synthetic quartz. <i>Physics of the Solid State</i> , <b>2006</b> , 48, 678-685	0.8	2

11	Detection of hydrogen-copper clustering in Zn <sub>1-x</sub> Cu <sub>x</sub> O compounds using neutron scattering methods. <i>Physics of the Solid State</i> , <b>2006</b> , 48, 1291-1297	0.8	5
10	A neutron spin-echo study of the dynamics of star-shaped polymers (with polystyrene arms grafted to C60) in solutions and in the bulk. <i>Physics of the Solid State</i> , <b>2002</b> , 44, 569-571	0.8	2
9	Small-angle neutron-scattering study of anomalous C60 clusterization in toluene. <i>Physics of the Solid State</i> , <b>2002</b> , 44, 572-573	0.8	19
8	Magnetic-field-induced slowing-down of molecular rotation in C60 crystals. <i>Physics of the Solid State</i> , <b>2002</b> , 44, 641-643	0.8	3
7	Modified Neutron Spin Echo with Spectrum Modulation: Specific Feature and Applications. <i>Lecture Notes in Physics</i> , <b>2002</b> , 65-73	0.8	2
6	Investigation of superconducting crystals by neutron scattering and nuclear microanalysis. <i>Technical Physics Letters</i> , <b>1998</b> , 24, 144-145	0.7	
5	Oriental uniaxial stretching of proton conducting perfluorinated membranes. <i>Journal of Applied Polymer Science</i> , 52229	2.9	
4	Diamond-based nanostructures with metal-organic molecules. <i>Soft Materials</i> , 1-10	1.7	2
3	Complexes of nanodiamonds with Gd-fullerenols for biomedicine. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 1-10	1.8	2
2	Enhanced photocatalytic activity and easy recovery of visible light active MoSe <sub>2</sub> /BiVO <sub>4</sub> heterojunction immobilized on <i>Luffa cylindrica</i> [Experimental and DFT study. <i>Environmental Science: Nano</i> ,	7.1	2
1	The 20-Year Russian-Italian Scientific Collaboration in Industrial Applications of Neutrons and Prospects on High Flux Reactor [IK] of Russian National Centre [Kurchatov Institute] <i>Neutron News</i> , 1-7	0.4	