

Boris Sukhov

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

734
citations

13
h-index

20
g-index

106
ext. papers

816
ext. citations

1.6
avg, IF

3.72
L-index

#	Paper	IF	Citations
100	Effect of Selenium Nanocomposites Based on Natural Polymer Matrices on the Biomass and Storage of Potato Tubers in a Field Experiment. <i>Agronomy</i> , 2022 , 12, 1281	3.6	1
99	Starch-capped sulphur nanoparticles synthesised from bulk powder sulphur and their anti-phytopathogenic activity against <i>Clavibacter sepedonicus</i> . <i>IET Nanobiotechnology</i> , 2021 , 15, 585-593 ²		2
98	Selenium Nanocomposites in Natural Matrices as Potato Recovery Agent. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	5
97	Effect of high dose of selenium nanoparticles on antioxidant system and biochemical profile of rats in correction of carbon tetrachloride-induced toxic damage of liver. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021 , 197, 111381	6	4
96	Effect of Natural Polysaccharide Matrix-Based Selenium Nanocomposites on and Rhizospheric Microorganisms. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
95	Structural and Magnetic Properties of Biocompatible-Coated Magnetite Nanoparticles for Treating Antianemia. <i>IEEE Transactions on Magnetics</i> , 2021 , 57, 1-9	2	1
94	Nanobiocomposites of Pharmacophoric Iron and Bismuth Oxides with Arabinogalactan Matrix. <i>Russian Journal of General Chemistry</i> , 2020 , 90, 672-679	0.7	3
93	Synthesis of Selenium-Containing Humic Nano-Biocomposites from Sodium Bis(2-phenylethyl)phosphinodiselenoate. <i>Russian Journal of General Chemistry</i> , 2020 , 90, 123-128	0.7	1
92	Nano-size bimetallic ternary hydrogenation catalysts based on nickel and copper complexes. <i>Journal of Organometallic Chemistry</i> , 2020 , 928, 121485	2.3	2
91	Nickel-containing nanophases as the carriers of catalytic active sites in the ethylene oligomerization in the presence of systems based on Ni(acac) ₂ and organoaluminum compounds. <i>Mendeleev Communications</i> , 2020 , 30, 465-467	1.9	1
90	The effect of organic matter humification (aromaticity and oxidation degree) on structural and nanomorphological characteristics of humic nanocomposites of metallic platinum. <i>Environmental Research</i> , 2020 , 190, 109878	7.9	0
89	Synthesis and comparative assessment of antiradical activity, toxicity, and biodistribution of Ectarrageenan-capped selenium nanoparticles of different size: in vivo and in vitro study. <i>IET Nanobiotechnology</i> , 2020 , 14, 519-526	2	4
88	Synthesis and Spectral Characterization of New Biodegradable Arabinogalactan Derivatives for Diagnosis and Therapy. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2019 , 83, 343-349	0.4	2
87	Relation between excitation dependent luminescence and particle size distributions for the selenium nanoparticles in Ectarrageenan shell. <i>Journal of Luminescence</i> , 2019 , 211, 305-313	3.8	11
86	Gold- and silver-containing bionanocomposites based on humic substances extracted from coals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019 , 137, 1181-1188	4.1	1
85	Formation of Water-Soluble Au-Nanobiocomposite with Dielectric Matrix. <i>International Journal of Nanoscience</i> , 2019 , 18, 1940055	0.6	1
84	The Current Aspects of Using Chemically Synthesized Compounds of Silver Nanoparticles in Animal Husbandry and Agrochemistry. <i>Nanotechnologies in Russia</i> , 2019 , 14, 489-496	0.6	1

83	Synthesis and antimicrobial activity of arabinogalactan-stabilized selenium nanoparticles from sodium bis(2-phenylethyl)diselenophosphinate. <i>Russian Chemical Bulletin</i> , 2019 , 68, 2245-2251	1.7	7
82	MODIFICATION OF THE ARABINO GALACTAN MATRIX IN THE FORMATION OF METAL POLYMER NANOBIOCOMPOSITES. <i>Nanotechnologies in Russia</i> , 2019 , 14, 41-47	0.6	2
81	Phosphorus halide free synthesis of 1,2,3,4-tetrahydroisophosphinoline 2-oxides. <i>Mendeleev Communications</i> , 2018 , 28, 29-30	1.9	2
80	Humic-based bionanocomposites containing stable paramagnetic gold nanoparticles for prospective use in pharmaceuticals. <i>Spectroscopy Letters</i> , 2018 , 51, 169-173	1.1	8
79	Synthesis of Chalcogen-Containing Nanocomposites of Selenium and Tellurium with Arabinogalactan and a Study of Their Toxic and Antimicrobial Properties. <i>Nanotechnologies in Russia</i> , 2018 , 13, 290-294	0.6	5
78	Silver Nanobiocomposites Based on Humic Substances As Highly Efficient Stimulators of Seed Germination. <i>Nanotechnologies in Russia</i> , 2018 , 13, 305-310	0.6	
77	Stabilized Silver Nanoparticles and Nanoclusters Agn in Humic-Based Bioactive Nanocomposites. <i>Journal of Cluster Science</i> , 2017 , 28, 3067-3074	3	9
76	Chiroplasmonic magnetic gold nanocomposites produced by one-step aqueous method using Ectarrageenan. <i>Carbohydrate Polymers</i> , 2017 , 175, 18-26	10.3	22
75	Paramagnetic bioactive silver- and gold-containing nanocomposites based on humic substances. <i>Functional Materials Letters</i> , 2017 , 10, 1650077	1.2	3
74	Strong stabilisation properties of humic substance matrixes for silver bionanocomposites. <i>Micro and Nano Letters</i> , 2017 , 12, 418-421	0.9	8
73	Optical absorption of composite systems with silver nanoparticles dispersed in arabinogalactan and arabinogalactan-g-polypyrrole block copolymer matrices. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2017 , 81, 1244-1250	0.4	
72	Synthesis and luminescent properties of water-soluble nanobiocomposite CdSe/polysaccharide quantum dots. <i>Russian Chemical Bulletin</i> , 2017 , 66, 2321-2326	1.7	3
71	Influence of polysaccharide matrices of silver nanocomposites on their optical properties. <i>Russian Chemical Bulletin</i> , 2017 , 66, 2327-2332	1.7	1
70	Development of Antimicrobial Nano-Selenium Biocomposite for Protecting Potatoes from Bacterial Phytopathogens. <i>Nanotechnologies in Russia</i> , 2017 , 12, 553-558	0.6	10
69	Enantioselective Keto-Enol Tautomerism of 3-Hydroxyflavones Upon Molecular Complex Formation of Their E-Diketo Forms with Carbohydrates in Aqueous Solutions. <i>Chemistry of Natural Compounds</i> , 2016 , 52, 579-584	0.7	3
68	Effect of metal nanoparticles on the thermal stability and conductivity of nanocomposites. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 49-54	0.4	4
67	Reaction of elemental phosphorus with E-methylstyrenes: one-pot synthesis of secondary and tertiary phosphines, prospective bulky ligands for Pd(II) catalysts. <i>Tetrahedron</i> , 2016 , 72, 443-450	2.4	9
66	Features of gold nanoparticle formation in matrices of humic substances of different origin. <i>Doklady Chemistry</i> , 2015 , 460, 13-16	0.8	7

65	Complex effects of selenium-arabinogalactan nanocomposite on both phytopathogen <i>Clavibacter michiganensis</i> subsp. <i>sepedonicus</i> and potato plants. <i>Nanotechnologies in Russia</i> , 2015 , 10, 484-491	0.6	17
64	Nanocomposites of silver with arabinogalactan sulfate: Preparation, structure, and antimicrobial activity. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 477-484	0.7	13
63	Relationship between the structures and antimicrobial activities of argentic nanocomposites. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015 , 79, 273-275	0.4	12
62	Using confocal microscopy to study the effect of an original pro-enzyme Se/arabinogalactan nanocomposite on tissue regeneration in a skeletal system. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015 , 79, 256-258	0.4	10
61	Expedient Route to Chalcogenophosphinates with Glucose Moieties via Todd-Atherton-Like Coupling between Secondary Phosphine Chalcogenides and Diacetone-d-Glucose in the CCl ₄ /Et ₃ N System. <i>Heteroatom Chemistry</i> , 2015 , 26, 329-334	1.2	6
60	Nanobiocomposite based on selenium and arabinogalactan: Synthesis, structure, and application. <i>Russian Journal of General Chemistry</i> , 2015 , 85, 485-487	0.7	11
59	Bacterio- and lymphocytotoxicity of silver nanocomposite with sulfated arabinogalactan. <i>Russian Chemical Bulletin</i> , 2015 , 64, 1629-1632	1.7	9
58	New nanobiocomposites of ammonium magnesium phosphate and carrageenan as efficient prebiotics. <i>Doklady Chemistry</i> , 2014 , 457, 144-147	0.8	9
57	Reaction of hydroxyflavones with secondary phosphine chalcogenides in the CCl ₄ /Et ₃ N system: synthesis of a new family of phosphorylated flavonoids. <i>Tetrahedron Letters</i> , 2014 , 55, 4927-4929	2	6
56	Synthesis of silver-containing nanocomposites based on humic substances of brown coal and their antioxidant activity. <i>Doklady Chemistry</i> , 2014 , 456, 72-75	0.8	11
55	Molecular-weight characteristics of galactomannan and carrageenan. <i>Chemistry of Natural Compounds</i> , 2013 , 49, 405-410	0.7	12
54	Reactions of 2- and 4-pyrones with secondary phosphine chalcogenides: a facile synthesis of functional phosphorylated pyrones. <i>Tetrahedron Letters</i> , 2013 , 54, 6772-6775	2	7
53	Colloidal aggregates of Pd nanoparticles supported by larch arabinogalactan. <i>Journal of Physical Chemistry B</i> , 2013 , 117, 2134-41	3.4	12
52	Synthesis, structure, and growth-promoting activity of 1-alkyl-4-(3-naphthyloxyprop-1-ynyl)piperidin-4-ols. <i>Russian Chemical Bulletin</i> , 2013 , 62, 2442-2444	1.7	1
51	Unexpected redox reaction of alkali metal diselenophosphinates with elemental iodine. <i>Mendeleev Communications</i> , 2012 , 22, 18-20	1.9	11
50	Spectroscopic study of the reaction of a natural arabinogalactan polysaccharide with 3-hydroxyflavones in aqueous solutions. <i>Chemistry of Natural Compounds</i> , 2012 , 48, 723-727	0.7	5
49	Colloids of Gold Nanoparticles Protected from Aggregation with Arabinogalactan. <i>Macromolecular Symposia</i> , 2012 , 317-318, 1-6	0.8	7
48	Specific features of formation of silver nanoparticles in the polymer matrix. <i>Doklady Chemistry</i> , 2011 , 437, 47-49	0.8	11

47	Formation kinetics of gold nanoparticles in the galactomannan polysaccharide matrix. <i>Doklady Chemistry</i> , 2011 , 440, 282-285	0.8	12
46	Bactericidal action of Ag(0)-antithrombotic sulfated arabinogalactan nanocomposite: coevolution of initial nanocomposite and living microbial cell to a novel nonliving nanocomposite. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2011 , 7, 827-33	6	38
45	Hydrophobicity constants for several xanthenes and flavones. <i>Chemistry of Natural Compounds</i> , 2011 , 47, 38-42	0.7	4
44	A Theoretical and Experimental Study of NMR Contrasting Properties of Nanocomposites Based on Ferric Oxides Stabilized by Arabinogalactan Matrix. <i>Applied Magnetic Resonance</i> , 2011 , 41, 525-536	0.8	13
43	Silver-containing nanocomposites based on galactomannan and carrageenan: synthesis, structure, and antimicrobial properties. <i>Russian Chemical Bulletin</i> , 2010 , 59, 2323-2328	1.7	21
42	Nanocomposites of red phosphorus as novel phosphorylating reagents. <i>Doklady Chemistry</i> , 2009 , 427, 153-155	0.8	10
41	Synthesis and structure of (C=O-Si-O-C=O)bis(2-methyl-4-oxopyran-3-yloxy)difluoro-(B)siliconium. <i>Russian Journal of General Chemistry</i> , 2009 , 79, 98-103	0.7	4
40	Synthesis of novel alkaloid derivatives from vinyl ether of lupinine and PH-addends. <i>Arkivoc</i> , 2009 , 2009, 260-267	0.9	11
39	Direct synthesis of a three-dimensional cross-linked tris(4-vinylbenzyl)phosphine oxide polymer from 4-vinylbenzyl chloride and red phosphorus. <i>Doklady Chemistry</i> , 2008 , 418, 5-7	0.8	1
38	Peroxidase-catalysed synthesis of electroconductive polypyrrole. <i>Mendeleev Communications</i> , 2008 , 18, 56-58	1.9	25
37	A one-pot synthesis of a branched tertiary phosphine oxide from red phosphorus and 1-(tert-butyl)-4-vinylbenzene in KOH/DMSO: an unusually facile addition of P-centered nucleophiles to a weakly electrophilic double bond. <i>Tetrahedron Letters</i> , 2008 , 49, 3480-3483	2	25
36	Stereoactive lone pair of electrons on bismuth(III): tris(3-hydroxy-2-methyl-4H-pyran-4-onato)bismuth(III). <i>Arkivoc</i> , 2008 , 2008, 139-149	0.9	10
35	Free-radical addition of phosphine sulfides to aryl and hetaryl acetylenes: unprecedented stereoselectivity. <i>Mendeleev Communications</i> , 2007 , 17, 181-182	1.9	13
34	Nonlinear-optical bis(3-hydroxy-2-methyl-4H-pyran-4-onato) complexes of metals. <i>Mendeleev Communications</i> , 2007 , 17, 154-155	1.9	2
33	Chemoselective noncatalytic addition of secondary phosphine chalcogenides to citral. <i>Russian Journal of General Chemistry</i> , 2007 , 77, 409-414	0.7	5
32	Reactions of elemental phosphorus and phosphine with electrophiles in superbasic systems: XIX. Formation of the C-P bond with participation of elemental phosphorus under microwave assistance. <i>Russian Journal of General Chemistry</i> , 2007 , 77, 415-420	0.7	7
31	Reactions of elemental phosphorus and phosphine with electrophiles in superbasic systems: XX. Phosphorylation of 4-vinylbenzyl chloride with elemental phosphorus. <i>Russian Journal of General Chemistry</i> , 2007 , 77, 1880-1886	0.7	1
30	Effect of mechanical activation on structural-chemical properties of phosphorites. <i>Russian Journal of Applied Chemistry</i> , 2007 , 80, 853-859	0.8	2

29	Structure and dynamic properties of substituted carbonylhydride clusters H ₂ RuOs ₃ (CO) ₁₃ and H ₄ Ru ₄ (CO) ₁₂ containing functionalized phosphines. <i>Russian Chemical Bulletin</i> , 2007 , 56, 1343-1350	1.7	3
28	Radical Addition of Secondary Phosphine Selenides to Alkenes. <i>Synthesis</i> , 2007 , 2007, 2849-2852	2.9	3
27	Nanobiocomposites of noble metals based on arabinogalactan: Preparation and properties. <i>Journal of Structural Chemistry</i> , 2007 , 48, 922-927	0.9	36
26	Non-Catalyzed, Atom-Economic, High-Yield Synthesis of Tertiary β -Hydroxyphosphane Selenides. <i>Synthesis</i> , 2006 , 2006, 4159-4162	2.9	2
25	Noncatalytic hydrophosphorylation and hydrothiophosphorylation of hydroxyaldehydes. <i>Russian Journal of General Chemistry</i> , 2006 , 76, 98-102	0.7	2
24	Chemoselective reaction of red phosphorus with 4-vinylbenzyl chloride: A convenient route to tris(4-vinylbenzyl)phosphine oxide. <i>Russian Journal of General Chemistry</i> , 2006 , 76, 325-326	0.7	4
23	Reactions of elemental phosphorus and phosphine with electrophiles in superbasic systems: XVIII. Phosphorylation of 1-(chloromethyl)naphthalene with the elemental phosphorus. <i>Russian Journal of General Chemistry</i> , 2006 , 76, 708-713	0.7	4
22	Redox reactions of arabinogalactan with silver ions and formation of nanocomposites. <i>Russian Journal of General Chemistry</i> , 2006 , 76, 1111-1116	0.7	29
21	Formation and Properties of Hydrogenation Catalysts Based on Palladium Complexes with Primary Phosphines. <i>Kinetics and Catalysis</i> , 2005 , 46, 572-577	1.5	2
20	Noncatalytic Regio- and Stereoselective Addition of Secondary Phosphines to Cyanoacetylenic Alcohols. <i>Russian Journal of General Chemistry</i> , 2005 , 75, 514-517	0.7	
19	Reduction of Arylmethyl Chlorides with a Phosphine-Hydrogen Mixture in the KOH-DMSO System. <i>Russian Journal of General Chemistry</i> , 2005 , 75, 658-659	0.7	
18	Reactions of Elemental Phosphorus and Phosphine with Electrophiles in Superbasic Systems: XVI. Phosphorylation of Benzyl Chloride with Elemental Phosphorus and Phosphine. <i>Russian Journal of General Chemistry</i> , 2005 , 75, 684-688	0.7	7
17	Reactions of Elemental Phosphorus with Electrophiles in Super Basic Systems: XVII. Phosphorylation of Arylalkenes with Active Modifications of Elemental Phosphorus. <i>Russian Journal of General Chemistry</i> , 2005 , 75, 1367-1372	0.7	7
16	Atom-Economic, Solvent-Free, High Yield Synthesis of 2-(Pyrrol-1-yl)propyldiorganylphosphines. <i>Synthesis</i> , 2005 , 2005, 965-970	2.9	4
15	Hydrothiophosphorylation of Vinyl Sulfoxides: First Examples. <i>Synthesis</i> , 2005 , 2005, 3103-3106	2.9	12
14	Atom-economic synthesis of tertiary 2-alkoxyethylphosphine sulfides. <i>Mendeleev Communications</i> , 2004 , 14, 216-217	1.9	8
13	First Organophosphorus Nonlinear-Optical Media. <i>Doklady Chemistry</i> , 2004 , 394, 34-35	0.8	
12	Reaction of Activated Red Phosphorus with Allyl Bromide under Phase-Transfer Catalysis. <i>Russian Journal of General Chemistry</i> , 2004 , 74, 1128-1129	0.7	2

11	Chemo-, regio-, and stereoselective addition of secondary phosphine sulfides to α,β -unsaturated aldehydes. <i>Russian Journal of General Chemistry</i> , 2004 , 74, 1625-1626	0.7	2
10	Addition of secondary phosphines to a vinyl ether of diacetone-d-glucose: a new approach to optically active phosphines and their derivatives. <i>Tetrahedron Letters</i> , 2004 , 45, 9143-9145	2	9
9	Addition of secondary phosphines to divinyl sulfide. <i>Sulfur Letters</i> , 2003 , 26, 63-66		3
8	Biographical radiation-induced defect formation as a method for the activation of red phosphorus in reactions with arylalkenes. <i>Russian Chemical Bulletin</i> , 2003 , 52, 511-512	1.7	1
7	Controlled defect formation in elemental phosphorus as method for its chemical activation. <i>Russian Chemical Bulletin</i> , 2003 , 52, 1239-1252	1.7	6
6	Nanocomposites with Magnetic, Optical, Catalytic, and Biologically Active Properties Based on Arabinogalactan. <i>Doklady Chemistry</i> , 2003 , 393, 287-288	0.8	28
5	Addition of secondary phosphines to N-vinylpyrroles. <i>Tetrahedron Letters</i> , 2003 , 44, 2629-2632	2	17
4	Regio- and stereospecific addition of phosphines to cyanoacetylenes. <i>Tetrahedron</i> , 2003 , 59, 4789-4794	2.4	10
3	Phosphorylation of Allyl Halides with White Phosphorus. <i>Phosphorus, Sulfur and Silicon and the Related Elements</i> , 2003 , 178, 425-429	1	8
2	Hydrophosphination of Vinyl Sulfides and Vinyl Selenides: First Examples. <i>Synthesis</i> , 2002 , 2002, 2207-2210	1.9	3
1	Formation and paramagnetic properties of manganese-containing bionanocomposites based on natural polysaccharide matrices. <i>Journal of Carbohydrate Chemistry</i> , 1-15	1.7	2