

Svetlana Yu Bratskaya

List of Publications by Year in descending order

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116
papers

2,629
citations

218592

26
h-index

254106

43
g-index

119
all docs

119
docs citations

119
times ranked

2978
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced flocculation of oil-in-water emulsions by hydrophobically modified chitosan derivatives. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 275, 168-176.	2.3	128
2	Colloid stable sorbents for cesium removal: Preparation and application of latex particles functionalized with transition metals ferrocyanides. <i>Journal of Hazardous Materials</i> , 2011, 186, 1343-1350.	6.5	113
3	Comparative study of humic acids flocculation with chitosan hydrochloride and chitosan glutamate. <i>Water Research</i> , 2004, 38, 2955-2961.	5.3	104
4	Chitosan and Its Derivatives as Highly Efficient Polymer Ligands. <i>Molecules</i> , 2016, 21, 330.	1.7	101
5	Adhesion and Viability of Two Enterococcal Strains on Covalently Grafted Chitosan and Chitosan/̢-Carrageenan Multilayers. <i>Biomacromolecules</i> , 2007, 8, 2960-2968.	2.6	80
6	Heavy metals removal by flocculation/precipitation using N-(2-carboxyethyl)chitosans. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2009, 339, 140-144.	2.3	79
7	Properties and Flocculation Efficiency of Highly Cationized Starch Derivatives. <i>Starch/Stärke</i> , 2006, 58, 161-169.	1.1	76
8	Starch derivatives of high degree of functionalization. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 254, 75-80.	2.3	71
9	Mechanism of Au(III) reduction by chitosan: Comprehensive study with ¹³ C and ¹ H NMR analysis of chitosan degradation products. <i>Carbohydrate Polymers</i> , 2015, 117, 70-77.	5.1	61
10	Thiocarbamoyl chitosan: Synthesis, characterization and sorption of Au(III), Pt(IV), and Pd(II). <i>Carbohydrate Polymers</i> , 2011, 85, 854-861.	5.1	55
11	N-(2-(2-pyridyl)ethyl)chitosan: Synthesis, characterization and sorption properties. <i>Carbohydrate Polymers</i> , 2012, 87, 869-875.	5.1	53
12	H ₂ S optical waveguide gas sensors based on chitosan/Au and chitosan/Ag nanocomposites. <i>Sensors and Actuators B: Chemical</i> , 2016, 225, 348-353.	4.0	52
13	Chitosan Gels and Cryogels Cross-Linked with Diglycidyl Ethers of Ethylene Glycol and Polyethylene Glycol in Acidic Media. <i>Biomacromolecules</i> , 2019, 20, 1635-1643.	2.6	51
14	Chemically non-perturbing SERS detection of a catalytic reaction with black silicon. <i>Nanoscale</i> , 2018, 10, 9780-9787.	2.8	50
15	Polyethyleneimine cryogels for metal ions sorption. <i>Chemical Engineering Journal</i> , 2018, 334, 1392-1398.	6.6	50
16	Effect of Polyelectrolyte Structural Features on Flocculation Behavior: Cationic Polysaccharides vs. Synthetic Polycations. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 778-785.	1.7	48
17	Interaction of Carboxylic Acids with Chitosan: Effect of pK and Hydrocarbon Chain Length. <i>Journal of Colloid and Interface Science</i> , 2002, 249, 316-321.	5.0	47
18	Fabrication and optical properties of chitosan/Ag nanoparticles thin film composites. <i>Chemical Engineering Journal</i> , 2014, 244, 457-463.	6.6	45

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19	Application of chitosan and its derivatives for solid-phase extraction of metal and metalloid ions: a mini-review. <i>Cellulose</i> , 2016, 23, 2273-2289.	2.4	42
20	Integrated-optical sensors based on chitosan waveguide films for relative humidity measurements. <i>Sensors and Actuators B: Chemical</i> , 2013, 188, 482-487.	4.0	37
21	One-pot green synthesis of luminescent gold nanoparticles using imidazole derivative of chitosan. <i>Carbohydrate Polymers</i> , 2016, 151, 649-655.	5.1	37
22	Ultrasensitive SERS-Based Plasmonic Sensor with Analyte Enrichment System Produced by Direct Laser Writing. <i>Nanomaterials</i> , 2020, 10, 49.	1.9	37
23	On/off rhodamine based fluorescent probe for detection of Au and Pd in aqueous solutions. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 389-394.	4.0	36
24	Ultratrace Nitroaromatic Vapor Detection via Surface-Enhanced Fluorescence on Carbazole-Terminated Black Silicon. <i>ACS Sensors</i> , 2019, 4, 2879-2884.	4.0	32
25	Cationic Starches of High Degree of Functionalization: 12. Modification of Cellulose Fibers toward High Filler Technology in Papermaking. <i>Industrial & Engineering Chemistry Research</i> , 2006, 45, 7374-7379.	1.8	31
26	Polypropylene surface functionalization with chitosan. <i>Journal of Adhesion Science and Technology</i> , 2004, 18, 1173-1186.	1.4	28
27	Charge characteristics of humic and fulvic acids: Comparative analysis by colloid titration and potentiometric titration with continuous pK-distribution function model. <i>Chemosphere</i> , 2008, 73, 557-563.	4.2	27
28	Metal-chelate sorbents based on carboxyalkylchitosans: Ciprofloxacin uptake by Cu(II) and Al(III)-chelated cryogels of N-(2-carboxyethyl)chitosan. <i>International Journal of Biological Macromolecules</i> , 2019, 131, 806-811.	3.6	27
29	A new approach to precious metals recovery from brown coals: Correlation of recovery efficacy with the mechanism of metal-humic interactions. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 3301-3310.	1.6	26
30	Application of chitosan and its N-heterocyclic derivatives for preconcentration of noble metal ions and their determination using atomic absorption spectrometry. <i>Carbohydrate Polymers</i> , 2015, 134, 680-686.	5.1	24
31	Imidazole-containing chitosan derivative: a new synthetic approach and sorption properties. <i>Russian Chemical Bulletin</i> , 2012, 61, 1959-1964.	0.4	23
32	A novel rhodamine-based turn-on probe for fluorescent detection of Au ³⁺ and colorimetric detection of Cu ²⁺ . <i>Tetrahedron</i> , 2019, 75, 1492-1496.	1.0	23
33	Synthesis and properties of isomeric pyridyl-containing chitosan derivatives. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 426-432.	3.6	22
34	Sol-gel synthesis of porous inorganic materials using "core-shell" latex particles as templates. <i>Journal of Sol-Gel Science and Technology</i> , 2013, 68, 374-386.	1.1	21
35	Recovery of Au(III), Pt(IV), and Pd(II) Using Pyridylethyl-Containing Polymers: Chitosan Derivatives vs Synthetic Polymers. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 10377-10385.	1.8	21
36	pH-indicators doped polysaccharide LbL coatings for hazardous gases optical sensing. <i>Carbohydrate Polymers</i> , 2013, 92, 769-774.	5.1	20

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37	Binding Ni(II) ions to chitosan and its N-heterocyclic derivatives: Density functional theory investigation. <i>Computational and Theoretical Chemistry</i> , 2015, 1069, 4-10.	1.1	19
38	Flocculation of Humic Substances and Their Derivatives with Chitosan. <i>Colloid Journal</i> , 2002, 64, 681-686.	0.5	17
39	Role of Au(III) coordination by polymer in "green" synthesis of gold nanoparticles using chitosan derivatives. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 457-464.	3.6	17
40	Supermacroporous monoliths based on polyethyleneimine: Fabrication and sorption properties under static and dynamic conditions. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 104395.	3.3	17
41	N-2-(2-pyridyl)ethyl chitosan: Synthesis in gel and sorption properties. <i>Russian Journal of Applied Chemistry</i> , 2011, 84, 713-718.	0.1	16
42	Humic acids in brown coals from the southern Russian Far East: General characteristics and interactions with precious metals. <i>Geochemistry International</i> , 2012, 50, 437-446.	0.2	16
43	Modification of Black Film Hydration by Infrared Irradiation. <i>Langmuir</i> , 2004, 20, 1047-1050.	1.6	15
44	Dendrimeric rhodamine based fluorescent probe for selective detection of Au. <i>Sensors and Actuators B: Chemical</i> , 2018, 273, 916-920.	4.0	15
45	Comparative study of electrokinetic potentials and binding affinity of lipopolysaccharides-chitosan complexes. <i>Biophysical Chemistry</i> , 2008, 136, 1-6.	1.5	14
46	Polymer-Inorganic Coatings Containing Nanosized Sorbents Selective to Radionuclides. 1. Latex/Cobalt Hexacyanoferrate(II) Composites for Cesium Fixation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 16769-16776.	4.0	14
47	Imidazolyl derivative of chitosan with high substitution degree: Synthesis, characterization and sorption properties. <i>Carbohydrate Polymers</i> , 2016, 138, 252-258.	5.1	14
48	Effect of polymer backbone chemical structure on metal ions binding by imidazolylmethyl derivatives. <i>Chemical Engineering Journal</i> , 2016, 283, 323-329.	6.6	14
49	Cryogels of carboxyalkylchitosans as a universal platform for the fabrication of composite materials. <i>Carbohydrate Polymers</i> , 2019, 209, 1-9.	5.1	14
50	Stimuli-Responsive Dual Cross-Linked N-Carboxyethylchitosan Hydrogels with Tunable Dissolution Rate. <i>Gels</i> , 2021, 7, 188.	2.1	14
51	New Chitosan/Iron Oxide Composites: Fabrication and Application for Removal of Sr ²⁺ Radionuclide from Aqueous Solutions. <i>Biomimetics</i> , 2018, 3, 39.	1.5	13
52	Germanium speciation in lignite from a germanium-bearing deposit in Primorye. <i>Geochemistry International</i> , 2013, 51, 405-412.	0.2	12
53	Preparation of a sorbent for metal ions based on N-(5-methylimidazol-4-ylmethyl) chitosan with medium degree of substitution. <i>Russian Journal of Applied Chemistry</i> , 2014, 87, 82-87.	0.1	12
54	Ligand-assisted synthesis and cytotoxicity of ZnSe quantum dots stabilized by N-(2-carboxyethyl)chitosans. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019, 182, 110342.	2.5	12

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55	Carboxyalkylchitosan-based hydrogels with α -iminocaproyl-Enhanced stability and amino acids-induced disassembly under physiological conditions. Carbohydrate Polymers, 2021, 274, 118618.	5.1	12
56	Thiocarbamoyl chitosan as a novel sorbent with high sorption capacity and selectivity for the ions of gold(III), platinum(IV), and palladium(II). Russian Chemical Bulletin, 2010, 59, 1303-1306.	0.4	11
57	Metal ion binding by pyridylethyl-containing polymers: experimental and theoretical study. Dalton Transactions, 2016, 45, 12372-12383.	1.6	11
58	Particle size composition of Holocene–Pleistocene deposits of the Laptev Sea (Buor-Khaya Bay). Doklady Earth Sciences, 2016, 467, 241-245.	0.2	11
59	Flocculation efficiency of reacylated water soluble chitosan versus commercial chitosan. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 532, 222-227.	2.3	11
60	Quantum chemistry and experimental studies of hydrothermal destruction of Co-EDTA complexes. Journal of Hazardous Materials, 2019, 363, 233-241.	6.5	11
61	Extended Rate Constants Distribution (RCD) Model for Sorption in Heterogeneous Systems: 2. Importance of Diffusion Limitations for Sorption Kinetics on Cryogels in Batch. Gels, 2020, 6, 15.	2.1	11
62	Macroporous catalysts for liquid-phase oxidation on the basis of manganese oxides containing gold nanoparticles. Doklady Physical Chemistry, 2010, 435, 193-197.	0.2	10
63	Lignin as an indicator of the sedimentation conditions on the Arctic shelf. Doklady Earth Sciences, 2016, 467, 264-269.	0.2	10
64	Characteristic of quaternary sedimentation on a shelf of the Laptev Sea according to the molecular composition of n-alkanes. Doklady Earth Sciences, 2017, 473, 449-453.	0.2	10
65	Alkanes in Quaternary deposits of the Laptev Sea. Doklady Earth Sciences, 2017, 472, 36-39.	0.2	9
66	A new approach to the green synthesis of imidazole-containing polymer ligands and cryogels. European Polymer Journal, 2019, 115, 356-363.	2.6	9
67	Rational Design of Polyamine-Based Cryogels for Metal Ion Sorption. Molecules, 2020, 25, 4801.	1.7	9
68	Colloid-stable nanosized selective sorbents for decontamination of bulk materials. Doklady Chemistry, 2008, 422, 251-254.	0.2	8
69	Implementation of the continuous-flow hydrothermal technology of the treatment of concentrated liquid radioactive wastes at nuclear power plants. Theoretical Foundations of Chemical Engineering, 2010, 44, 592-599.	0.2	8
70	Flocculation Efficiency of Novel Amphiphilic Starch Derivatives: A Comparative Study. Macromolecular Materials and Engineering, 2014, 299, 722-728.	1.7	8
71	Organic and carbonate carbon in permafrost and thawed deposits from Buor-Khaya Bay (Laptev Sea). Doklady Earth Sciences, 2017, 473, 467-471.	0.2	8
72	Investigation of humidity influence upon waveguide features of chitosan thin films. Physics Procedia, 2012, 23, 115-118.	1.2	7

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73	Thin Chitosan Films for Optical Gas Sensors. <i>Key Engineering Materials</i> , 0, 605, 536-539.	0.4	7
74	Chemical modification of polyvinyl chloride with thiourea. <i>Russian Chemical Bulletin</i> , 2019, 68, 1248-1251.	0.4	7
75	Flocculation and binding properties of highly substituted cationic starches. <i>Russian Journal of Applied Chemistry</i> , 2008, 81, 862-866.	0.1	6
76	Composite sorbents for recovery of cesium radionuclides. <i>Russian Journal of Applied Chemistry</i> , 2010, 83, 2115-2120.	0.1	6
77	Sorption of cesium radionuclides with composite carbon fibrous materials. <i>Russian Journal of Applied Chemistry</i> , 2011, 84, 1152-1157.	0.1	6
78	Interaction of N-acylated and N-alkylated chitosans included in liposomes with lipopolysaccharide of gram-negative bacteria. <i>Biochemistry (Moscow)</i> , 2013, 78, 301-308.	0.7	6
79	Polymer- ¹¹ Inorganic Coatings Containing Nanosized Sorbents Selective to Radionuclides. 2. Latex/Tin Oxide Composites for Cobalt Fixation. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 22387-22392.	4.0	6
80	Granulated catalytic materials based on chitosan and its derivatives. <i>Polymer Science - Series B</i> , 2016, 58, 730-735.	0.3	6
81	Extended Rate Constant Distribution Model for Sorption in Heterogeneous Systems. 1: Application to Kinetics of Metal Ion Sorption on Polyethyleneimine Cryogels. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 1123-1134.	1.8	6
82	HIGHLY SENSITIVE CHITOSAN-BASED OPTICAL FLUORESCENT SENSOR FOR GASEOUS METHYLAMINE DETECTION. <i>Progress on Chemistry and Application of Chitin and Its Derivatives</i> , 2017, XXII, 159-165.	0.1	6
83	Chitosan Cross-Linking with Acetaldehyde Acetals. <i>Biomimetics</i> , 2022, 7, 10.	1.5	6
84	Sorption of Anionic Polysaccharides and Bovine Serum Albumin on a Macroporous Glass. <i>Colloid Journal</i> , 2001, 63, 137-141.	0.5	5
85	Effect of relative humidity on the optical and waveguide properties of thin chitosan films. <i>Technical Physics Letters</i> , 2012, 38, 228-230.	0.2	5
86	Cesium uptake by pentacyanoferrate(II) complexes with O-containing derivatives of chitosan. <i>Separation Science and Technology</i> , 2016, 51, 594-600.	1.3	5
87	Dissolved organic matter in lysimetric water of mountain forest soils in the southern Sikhote Alin. <i>Eurasian Soil Science</i> , 2014, 47, 581-590.	0.5	4
88	Hydrogenation of alkenes and their derivatives in the presence of nano-sized metal iridium. <i>Russian Journal of Organic Chemistry</i> , 2015, 51, 279-280.	0.3	4
89	Effect of regioselectivity of chitosan carboxyalkylation and type of cross-linking on the metal-chelate sorption properties toward ciprofloxacin. <i>Reactive and Functional Polymers</i> , 2020, 150, 104536.	2.0	4
90	Composite Zn(II) Ferrocyanide/Polyethylenimine Cryogels for Point-of-Use Selective Removal of Cs-137 Radionuclides. <i>Molecules</i> , 2021, 26, 4604.	1.7	4

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91	Thiocarbamoyl derivatives of polyallylamine for gold and silver recovery from ammonia-thiosulfate leachates. <i>Non-ferrous Metals</i> , 2018, , 12-17.	0.4	4
92	Preparation and properties of liposomes coated with N-acylated low-molecular-weight chitosan. <i>Chemistry of Natural Compounds</i> , 2011, 46, 852-856.	0.2	3
93	Pentacyanoferrate(II) complexes with N-containing derivatives of chitosan and polyallylamine: Synthesis and cesium uptake properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 460, 145-150.	2.3	3
94	A new approach to preparation of granulated materials based on chitosan and its imidazole derivative. <i>Russian Journal of Applied Chemistry</i> , 2016, 89, 955-959.	0.1	3
95	Extended Rate Constant Distribution Model for Sorption in Heterogeneous Systems: 3. From Batch to Fixed-Bed Application and Predictive Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19415-19425.	1.8	3
96	Hydrothermal oxidation of pre-dissolved resorcinol-formaldehyde resins as a new approach to safe processing of spent cesium-selective organic ion-exchangers. <i>Journal of Hazardous Materials</i> , 2021, 416, 125880.	6.5	3
97	Dataset on pore water composition and grain size properties of bottom sediments and subsea permafrost from the Buor-Khaya Bay (Laptev Sea). <i>Data in Brief</i> , 2021, 39, 107580.	0.5	3
98	Sponge-like Scaffolds for Colorectal Cancer 3D Models: Substrate-Driven Difference in Micro-Tumors Morphology. <i>Biomimetics</i> , 2022, 7, 56.	1.5	3
99	Physicochemical and electron-microscopic study of carrageenans, sulfated polysaccharides from red algae of the families Tichocarpaceae and Gigartinaeae. <i>Chemistry of Natural Compounds</i> , 2013, 49, 593-595.	0.2	2
100	Pentacyanoferrate(II) complexes with chitosan. <i>Polymer Engineering and Science</i> , 2014, 54, 2392-2397.	1.5	2
101	Polycyclic aromatic hydrocarbons in Holocene–Pleistocene sediments of the Laptev Sea. <i>Doklady Earth Sciences</i> , 2016, 468, 496-499.	0.2	2
102	Covalent immobilization of chitosan on surfaces with anchoring layers of poly(glycidyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (m	0.3	1
103	Latex Particles Functionalized With Transition Metals Ferrocyanides for Cesium Uptake and Decontamination of Solid Bulk Materials. , 2010, , .		1
104	Investigation of the humidity influence on optical properties of chitosan thin films by spectroscopic ellipsometry. <i>Physics Procedia</i> , 2012, 23, 110-114.	1.2	1
105	Dust suppression composite coatings containing nanosized selective sorbents for the prevention of cesium radionuclide migration. <i>Doklady Physical Chemistry</i> , 2014, 454, 12-15.	0.2	1
106	Special Features of Copper(II) Detection in Aqueous Solutions. <i>Physics Procedia</i> , 2017, 86, 152-154.	1.2	1
107	Comparison of Commercial and Reacetylated Chitosan with Regard to Their Flocculation Quality. <i>Chemie-Ingenieur-Technik</i> , 2018, 90, 324-332.	0.4	1
108	Thiocarbamoylation of Chlorosulfonated Polystyrene for Preparing Sorbents for Noble Metal Ions. <i>Russian Journal of Applied Chemistry</i> , 2018, 91, 292-296.	0.1	1

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109	Title is missing!. Russian Chemical Bulletin, 2002, 51, 1006-1008.	0.4	0
110	Adsorption of Cesium Radionuclides by the Composite Sorbents Carbon Fiber/Transition Metals Ferrocyanides. , 2011, , .		0
111	Pilot Test of Precipitation Setup for Dust Suppressor and Transuranic Elements Removal From Wastewaters of Chernobyl Nuclear Power Plant. , 2011, , .		0
112	Design and fabrication of a chitosan based integrated optical device for humidity sensing. Proceedings of SPIE, 2011, , .	0.8	0
113	Novel UV probe for selective detection of Au and Pd in aqueous solutions. , 2016, , .		0
114	Mn ²⁺ and Cu ²⁺ -doped ZnS quantum dots stabilized by N-(2-carboxyethyl)chitosans. , 2019, , .		0
115	REMOVAL OF ALIZARIN RED BY SUPERMACROPOROUS CROSS-LINKED CHITOSAN MONOLITH SORBENTS. Progress on Chemistry and Application of Chitin and Its Derivatives, 2019, XXIV, 164-171.	0.1	0
116	Influence of mechanochemical activation on dissolving model corrosion films formed on ion-exchange resins using Trilon B. Izvestiĭ Vuzov: Prikladnaĭ Himiĭ i Biotekhnologiĭ, 2022, 11, 663-672.	0.1	0