

Vladimir I Lozinsky

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64

papers

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h-index

57

g-index

65

ext. papers

3,573

ext. citations

3.9

avg, IF

5.57

L-index

#	Paper	IF	Citations
64	Polymeric cryogels as promising materials of biotechnological interest. <i>Trends in Biotechnology</i> , 2003 , 21, 445-51	15.1	651
63	Cryogels on the basis of natural and synthetic polymers: preparation, properties and application. <i>Russian Chemical Reviews</i> , 2002 , 71, 489-511	6.8	337
62	The potential of polymeric cryogels in bioseparation. <i>Bioseparation</i> , 2001 , 10, 163-88		290
61	Direct chromatographic capture of enzyme from crude homogenate using immobilized metal affinity chromatography on a continuous supermacroporous adsorbent. <i>Journal of Chromatography A</i> , 2003 , 986, 275-90	4.5	224
60	Chromatography of microbial cells using continuous supermacroporous affinity and ion-exchange columns. <i>Journal of Chromatography A</i> , 2002 , 977, 27-38	4.5	208
59	Cryotropic gelation of poly(vinyl alcohol) solutions. <i>Russian Chemical Reviews</i> , 1998 , 67, 573-586	6.8	155
58	Poly(vinyl alcohol) cryogels employed as matrices for cell immobilization. 2. Entrapped cells resemble porous fillers in their effects on the properties of PVA-cryogel carrier. <i>Enzyme and Microbial Technology</i> , 1997 , 20, 182-190	3.8	81
57	A Brief History of Polymeric Cryogels. <i>Advances in Polymer Science</i> , 2014 , 1-48	1.3	78
56	Basic Principles of Cryotropic Gelation. <i>Advances in Polymer Science</i> , 2014 , 49-101	1.3	77
55	Cryostructuring of Polymeric Systems. 50. Cryogels and Cryotropic Gel-Formation: Terms and Definitions. <i>Gels</i> , 2018 , 4,	4.2	61
54	Synthesis and Structure-Property Relationships of Cryogels. <i>Advances in Polymer Science</i> , 2014 , 103-157	1.3	59
53	Towards ready-to-use 3-D scaffolds for regenerative medicine: adhesion-based cryopreservation of human mesenchymal stem cells attached and spread within alginate-gelatin cryogel scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2014 , 25, 857-71	4.5	52
52	Study of cryostructuring of polymer systems. XVII. Poly(vinyl alcohol) cryogels: Dynamics of the cryotropic gel formation. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 2017-2023	2.9	51
51	Petroleum-contaminated water treatment in a fluidized-bed bioreactor with immobilized <i>Rhodococcus</i> cells. <i>International Biodeterioration and Biodegradation</i> , 2009 , 63, 427-432	4.8	49
50	Dinitrosyl-iron complexes with thiol-containing ligands: spatial and electronic structures. <i>Nitric Oxide - Biology and Chemistry</i> , 2007 , 16, 82-93	5	48
49	Immobilization of hydrocarbon-oxidizing bacteria in poly(vinyl alcohol) cryogels hydrophobized using a biosurfactant. <i>Journal of Microbiological Methods</i> , 2006 , 65, 596-603	2.8	48
48	Swelling behavior of poly(vinyl alcohol) cryogels employed as matrices for cell immobilization. <i>Enzyme and Microbial Technology</i> , 1996 , 18, 561-569	3.8	45

47	Study of cryostructuring of polymer systems. XIX. On the nature of intermolecular links in the cryogels of locust bean gum. <i>Polymer International</i> , 2000 , 49, 1434-1443	3.3	42
46	Cryostructuring of polymer systems. XXIX. Preparation and characterization of supermacroporous (spongy) agarose-based cryogels used as three-dimensional scaffolds for culturing insulin-producing cell aggregates. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 3046-3062	2.9	39
45	Intelligent gels and cryogels with entrapped emulsions. <i>Langmuir</i> , 2008 , 24, 4467-9	4	38
44	New potential biocatalysts by laccase immobilization in PVA Cryogel type carrier. <i>Applied Biochemistry and Biotechnology</i> , 2010 , 160, 1947-54	3.2	32
43	Cryostructuring of polymer systems. XXIV. Poly(vinyl alcohol) cryogels filled with particles of a strong anion exchanger: Properties of the composite materials and potential applications. <i>Journal of Applied Polymer Science</i> , 2005 , 95, 529-538	2.9	30
42	Peptide synthesis in organic media with subtilisin 72 immobilized on poly(vinyl alcohol)-cryogel carrier. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2001 , 11, 1005-8	2.9	29
41	Study of cryostructuring of polymer systems. XX. Foamed poly(vinyl alcohol) cryogels. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 1609-1619	2.9	29
40	Study of cryostructuring of polymer systems. XVIII. Freeze-thaw influence on water-solubilized artificial mixtures of amylopectin and amylose. <i>Journal of Applied Polymer Science</i> , 2000 , 78, 371-381	2.9	29
39	Preparation and characterization of polyacrylamide cryogels produced from a high-molecular-weight precursor. I. Influence of the reaction temperature and concentration of the crosslinking agent. <i>Journal of Applied Polymer Science</i> , 2007 , 106, 1470-1475	2.9	28
38	Study of cryostructuring of polymer systems. XV. Freeze-thaw-induced formation of cryoprecipitate matter from low-concentrated aqueous solutions of poly(vinyl alcohol). <i>Journal of Applied Polymer Science</i> , 1999 , 74, 1978-1986	2.9	26
37	Study of cryostructuring of polymer systems. XVI. Freeze-thaw-induced effects in the low concentration systems amylopectin-water. <i>Journal of Applied Polymer Science</i> , 2000 , 75, 1740-1748	2.9	25
36	Study of cryostructuring of polymer systems. XIV. Poly(vinyl alcohol) cryogels: Apparent yield of the freeze-thaw-induced gelation of concentrated aqueous solutions of the polymer. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 1822-1831	2.9	25
35	Redox-Initiated Radical Polymerisation of Acrylamide in Moderately Frozen Water Solutions. <i>Macromolecular Rapid Communications</i> , 2001 , 22, 1441-1446	4.8	23
34	Cryostructuring of Polymeric Systems. 55. Retrospective View on the More than 40 Years of Studies Performed in the A.N.Nesmeyanov Institute of Organoelement Compounds with Respect of the Cryostructuring Processes in Polymeric Systems. <i>Gels</i> , 2020 , 6,	4.2	23
33	Cryostructuring of polymeric systems. 36. Poly(vinyl alcohol) cryogels prepared from solutions of the polymer in water/low-molecular alcohol mixtures. <i>European Polymer Journal</i> , 2014 , 53, 189-205	5.2	22
32	Preparation of immobilized <i>Trametes pubescens</i> laccase on a cryogel-type polymeric carrier and application of the biocatalyst to apple juice phenolic compounds oxidation. <i>European Food Research and Technology</i> , 2012 , 234, 655-662	3.4	22
31	Thermoresponsive Copolymer Cryogel Possessing Molecular Memory: Synthesis, Energetics of Collapse and Interaction with Ligands. <i>Macromolecular Chemistry and Physics</i> , 2011 , 212, 72-80	2.6	21
30	L(+)-Lactic acid production using poly(vinyl alcohol)-cryogel-entrapped <i>Rhizopus oryzae</i> fungal cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2006 , 81, 519-522	3.5	21

29	Cryostructuring of polymer systems. Wide pore poly(vinyl alcohol) cryogels prepared using a combination of liquid-liquid phase separation and cryotropic gel-formation processes. <i>Soft Matter</i> , 2012 , 8, 8493	3.6	20
28	Selective adsorption of hydrocarbon-oxidizing Rhodococcus cells in a column with hydrophobized poly(acrylamide) cryogel. <i>Journal of Microbiological Methods</i> , 2009 , 79, 76-81	2.8	19
27	Cryotropic gelation of ovalbumin solutions. <i>Food Hydrocolloids</i> , 1997 , 11, 113-123	10.6	19
26	Addition of Polybrene improves stability of organophosphate hydrolase immobilized in poly(vinyl alcohol) cryogel carrier. <i>Journal of Proteomics</i> , 2002 , 51, 195-201		19
25	Cryostructuring of polymer systems. 47. Preparation of wide porous gelatin-based cryostructures in sterilizing organic media and assessment of the suitability of thus formed matrices as spongy scaffolds for 3D cell culturing. <i>E-Polymers</i> , 2018 , 18, 175-186	2.7	18
24	Study of cryostructuring of polymer systems. 1H- and 2H-NMR studies of the formation of crosslinked polyacrylamide cryogels. <i>European Polymer Journal</i> , 1993 , 29, 49-55	5.2	17
23	Cryostructuring of polymeric systems. 48. Influence of organic chaotropes and kosmotropes on the cryotropic gel-formation of aqueous poly(vinyl alcohol) solutions. <i>European Polymer Journal</i> , 2018 , 102, 169-177	5.2	16
22	Cryostructuring of polymer systems. XXVI. Heterophase organic-organic cryogels prepared via freezing-thawing of aqueous solutions of poly(vinyl alcohol) with added tetramethoxysilane. <i>Journal of Applied Polymer Science</i> , 2007 , 105, 2689-2702	2.9	16
21	Study of cryostructuring of polymer systems. XXI. Cryotropic gel formation of the water-thalotodextrin systems. <i>Journal of Applied Polymer Science</i> , 2002 , 83, 1658-1667	2.9	16
20	Enantioselective hydrolysis of a Schiff's base of D,L-Phenylalanine ethyl ester in water-poor media via the reaction catalyzed with β -chymotrypsin immobilized on hydrophilic macroporous gel support. <i>Applied Biochemistry and Biotechnology</i> , 2000 , 88, 097-106	3.2	16
19	Preparation and characterization of polyacrylamide cryogels produced from a high-molecular-weight precursor. II. The influence of the molecular weight of the polymeric precursor. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 382-390	2.9	15
18	Immobilized laccase on a new cryogel carrier and kinetics of two anthraquinone derivatives oxidation. <i>Applied Biochemistry and Biotechnology</i> , 2011 , 165, 1789-98	3.2	14
17	Cryostructuring of polymer systems. Proteinaceous wide-pore cryogels generated by the action of denaturant/reductant mixtures on bovine serum albumin in moderately frozen aqueous media. <i>Soft Matter</i> , 2015 , 11, 4921-31	3.6	13
16	Cryostructuring of polymeric systems. 38. The causes of the covalently-crosslinked cryogels formation upon the homopolymerization of N,N-dimethylacrylamide in moderately-frozen aqueous media. <i>European Polymer Journal</i> , 2014 , 61, 226-239	5.2	12
15	Gel-immobilized enzymes as promising biocatalysts: Results from Indo-Russian collaborative studies. <i>Pure and Applied Chemistry</i> , 2005 , 77, 227-236	2.1	10
14	Cryostructuring of polymer systems. 44. Freeze-dried and then chemically cross-linked wide porous cryostructures based on serum albumin. <i>E-Polymers</i> , 2017 , 17, 263-274	2.7	9
13	Biocatalytic properties of native and immobilized subtilisin 72 in aqueous-organic and low water media. <i>Journal of Molecular Catalysis B: Enzymatic</i> , 2005 , 32, 253-260		9
12	Enzymatically Functionalized Composite Materials Based on Nanocellulose and Poly(Vinyl Alcohol) Cryogel and Possessing Antimicrobial Activity. <i>Materials</i> , 2019 , 12,	3.5	8

11	Influence of Gluten and Gum Additives and Cryogenic Treatment on Some Properties and Morphology of Wheat Starch Complex Gels. <i>Starch/Staerke</i> , 2009 , 61, 377-388	2.3	7
10	Cryostructuring of Polymeric Systems. 49. Unexpected "Kosmotropic-Like" Impact of Organic Chaotropes on Freeze-Thaw-Induced Gelation of PVA in DMSO. <i>Gels</i> , 2018 , 4,	4.2	7
9	Influence of succinylation of a wide-pore albumin cryogels on their properties, structure, biodegradability, and release dynamics of dioxidine loaded in such spongy carriers. <i>International Journal of Biological Macromolecules</i> , 2020 , 160, 583-592	7.9	6
8	Cryostructuring of Polymeric Systems : Application of Deep Neural Networks for the Classification of Structural Features Peculiar to Macroporous Poly(vinyl alcohol) Cryogels Prepared without and with the Additives of Chaotropes or Kosmotropes. <i>Molecules</i> , 2020 , 25,	4.8	5
7	Cryostructuring of Polymeric Systems. 52. Properties, Microstructure and an Example of a Potential Biomedical Use of the Wide-Pore Alginate Cryostructurates. <i>Gels</i> , 2019 , 5,	4.2	4
6	Cryostructuring of polymer systems. XXX. Poly(vinyl alcohol)-based composite cryogels filled with small disperse oil droplets: A gel system capable of mechanically induced releasing of the lipophilic constituents. <i>Journal of Applied Polymer Science</i> , 2010 , 117, NA-NA	2.9	3
5	Metal Nanoparticle Containing Nanocomposites of Drug Substances and Their Potential Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 170	2.6	2
4	Hepatic Tumor Cell Morphology Plasticity under Physical Constraints in 3D Cultures Driven by YAP-mTOR Axis. <i>Pharmaceuticals</i> , 2020 , 13,	5.2	2
3	Generation of bone grafts using cryopreserved mesenchymal stromal cells and macroporous collagen-nanohydroxyapatite cryogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 ,	3.5	1
2	Cryostructuring of polymeric systems. 58. Influence of the H ₂ N-(CH ₂) _n -COOH type amino acid additives on formation, properties, microstructure and drug release behaviour of poly(vinyl alcohol) cryogels. <i>Reactive and Functional Polymers</i> , 2021 , 167, 105010	4.6	1
1	Cryo-Structuring of Polymeric Systems. Poly(Vinyl Alcohol)-Based Cryogels Loaded with the Poly(3-hydroxybutyrate) Microbeads and the Evaluation of Such Composites as the Delivery Vehicles for Simvastatin. <i>Polymers</i> , 2022 , 14, 2196	4.5	