

Ekaterina Igorevna Shishatskaya

List of Publications by Year in descending order

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47
papers

1,569
citations

394286

19
h-index

302012

39
g-index

50
all docs

50
docs citations

50
times ranked

2079
citing authors

#	ARTICLE	IF	CITATIONS
1	Polyhydroxyalkanoates (PHA) for therapeutic applications. <i>Materials Science and Engineering C</i> , 2018, 86, 144-150.	3.8	182
2	Results of biomedical investigations of PHB and PHB/PHV fibers. <i>Biochemical Engineering Journal</i> , 2003, 16, 125-133.	1.8	134
3	Emerging aspects of nanotoxicology in health and disease: From agriculture and food sector to cancer therapeutics. <i>Food and Chemical Toxicology</i> , 2016, 91, 42-57.	1.8	107
4	Cell growth and accumulation of polyhydroxyalkanoates from CO ₂ and H ₂ of a hydrogen-oxidizing bacterium, <i>Cupriavidus eutrophus</i> B-10646. <i>Bioresource Technology</i> , 2013, 146, 215-222.	4.8	89
5	Microbial Degradation of Polyhydroxyalkanoates with Different Chemical Compositions and Their Biodegradability. <i>Microbial Ecology</i> , 2017, 73, 353-367.	1.4	87
6	Antibacterial properties of films of cellulose composites with silver nanoparticles and antibiotics. <i>Polymer Testing</i> , 2018, 65, 54-68.	2.3	86
7	Battle of GLP-1 delivery technologies. <i>Advanced Drug Delivery Reviews</i> , 2018, 130, 113-130.	6.6	84
8	Experimental wound dressings of degradable PHA for skin defect repair. <i>Journal of Materials Science: Materials in Medicine</i> , 2016, 27, 165.	1.7	67
9	Production and properties of bacterial cellulose by the strain <i>Komagataeibacter xylinus</i> B-12068. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 7417-7428.	1.7	64
10	Biocompatibility of polyhydroxybutyrate microspheres: in vitro and in vivo evaluation. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2493-2502.	1.7	62
11	A Glucose-Utilizing Strain, <i>Cupriavidus eutrophus</i> B-10646: Growth Kinetics, Characterization and Synthesis of Multicomponent PHAs. <i>PLoS ONE</i> , 2014, 9, e87551.	1.1	55
12	Electrospinning of polyhydroxyalkanoate fibrous scaffolds: effects on electrospinning parameters on structure and properties. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014, 25, 370-393.	1.9	51
13	Properties of PHA bi-, ter-, and quarter-polymers containing 4-hydroxybutyrate monomer units. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 1019-1026.	3.6	32
14	Constructing herbicide metribuzin sustained-release formulations based on the natural polymer poly-3-hydroxybutyrate as a degradable matrix. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2016, 51, 113-125.	0.7	30
15	Manipulation of <i>Ralstonia eutropha</i> Carbon Storage Pathways to Produce Useful Bio-Based Products. <i>Sub-Cellular Biochemistry</i> , 2012, 64, 343-366.	1.0	28
16	Polyhydroxyalkanoate synthesis based on glycerol and implementation of the process under conditions of pilot production. <i>Applied Microbiology and Biotechnology</i> , 2019, 103, 225-237.	1.7	28
17	An in vivo study of osteoplastic properties of resorbable poly-3-hydroxybutyrate in models of segmental osteotomy and chronic osteomyelitis. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2014, 42, 344-355.	1.9	24
18	Constructing Slow-Release Fungicide Formulations Based on Poly(3-hydroxybutyrate) and Natural Materials as a Degradable Matrix. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 9220-9231.	2.4	24

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19	Toxic effects of the fungicide tebuconazole on the root system of fusarium-infected wheat plants. <i>Plant Physiology and Biochemistry</i> , 2018, 132, 400-407.	2.8	22
20	Biomedical Investigations of Biodegradable PHAs. <i>Macromolecular Symposia</i> , 2008, 269, 65-81.	0.4	20
21	Bacterial Cellulose (BC) and BC Composites: Production and Properties. <i>Nanomaterials</i> , 2022, 12, 192.	1.9	20
22	Characterization of biodegradable poly-3-hydroxybutyrate films and pellets loaded with the fungicide tebuconazole. <i>Environmental Science and Pollution Research</i> , 2016, 23, 5243-5254.	2.7	19
23	Efficacy of tebuconazole embedded in biodegradable poly-3-hydroxybutyrate to inhibit the development of <i>Fusarium moniliforme</i> in soil microecosystems. <i>Pest Management Science</i> , 2017, 73, 925-935.	1.7	18
24	Constructing sustained-release herbicide formulations based on poly-3-hydroxybutyrate and natural materials as a degradable matrix. <i>Pest Management Science</i> , 2020, 76, 1772-1785.	1.7	18
25	Poly(3-hydroxybutyrate)/metribuzin formulations: characterization, controlled release properties, herbicidal activity, and effect on soil microorganisms. <i>Environmental Science and Pollution Research</i> , 2016, 23, 23936-23950.	2.7	17
26	Herbicidal activity of slow-release herbicide formulations in wheat stands infested by weeds. <i>Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes</i> , 2017, 52, 729-735.	0.7	17
27	Properties of Degradable Polyhydroxyalkanoates (PHAs) Synthesized by a New Strain, <i>Cupriavidus necator</i> IBP/SFU-1, from Various Carbon Sources. <i>Polymers</i> , 2021, 13, 3142.	2.0	17
28	Biocompatibility and Resorption of Intravenously Administered Polymer Microparticles in Tissues of Internal Organs of Laboratory Animals. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2011, 22, 2185-2203.	1.9	15
29	Synthesis of Polyhydroxyalkanoates by Hydrogen-Oxidizing Bacteria in a Pilot Production Process. <i>Biomacromolecules</i> , 2019, 20, 3261-3270.	2.6	15
30	Sugar Beet Molasses as a Potential C-Substrate for PHA Production by <i>Cupriavidus necator</i> . <i>Bioengineering</i> , 2022, 9, 154.	1.6	15
31	Development and characterization of ceftriaxone-loaded P3HB-based microparticles for drug delivery. <i>Drying Technology</i> , 2019, 37, 1131-1142.	1.7	14
32	Efficacy of Slow-Release Formulations of Metribuzin and Tribenuron Methyl Herbicides for Controlling Weeds of Various Species in Wheat and Barley Stands. <i>ACS Omega</i> , 2020, 5, 25135-25147.	1.6	12
33	Properties of a novel quaterpolymer P(3HB/4HB/3HV/3HHx). <i>Polymer</i> , 2016, 101, 67-74.	1.8	11
34	Novel spray-dried PHA microparticles for antitumor drug release. <i>Drying Technology</i> , 2018, 36, 1387-1398.	1.7	8
35	Synthesis of poly(3-hydroxybutyrate) by the autotrophic CO-oxidizing bacterium <i>Seliberia carboxydohydrogena</i> Z-1062. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2015, 42, 1377-1387.	1.4	7
36	Laser Processing of Polymer Films Fabricated from PHAs Differing in Their Monomer Composition. <i>Polymers</i> , 2021, 13, 1553.	2.0	7

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37	Short-term culture of monocytes as an in vitro evaluation system for bionanomaterials designated for medical use. <i>Food and Chemical Toxicology</i> , 2016, 96, 302-308.	1.8	6
38	The effect of the chemical composition and structure of polymer films made from resorbable polyhydroxyalkanoates on blood cell response. <i>International Journal of Biological Macromolecules</i> , 2019, 141, 765-775.	3.6	6
39	Polymer Films of Poly-3-hydroxybutyrate Synthesized by <i>Cupriavidus necator</i> from Different Carbon Sources. <i>Journal of Polymers and the Environment</i> , 2021, 29, 837-850.	2.4	6
40	A study of the properties and efficacy of microparticles based on P(3HB) and P(3HB/3HV) loaded with herbicides. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51756.	1.3	6
41	Biosynthesis and properties of P(3HB-co-3HV-co-3H4MV) produced by using the wild type strain <i>Cupriavidus eutrophus</i> 10646. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 195-203.	1.6	5
42	Screening of biopolymeric materials for cardiovascular surgery toxicity – Evaluation of their surface relief with assessment of morphological aspects of monocyte/macrophage polarization in atherosclerosis patients. <i>Toxicology Reports</i> , 2019, 6, 74-90.	1.6	5
43	Development of Biodegradable Delivery Systems Containing Novel 1,2,4-Trioxolane Based on Bacterial Polyhydroxyalkanoates. <i>Advances in Polymer Technology</i> , 2022, 2022, 1-14.	0.8	3
44	The Morphology and Phenotype of Monocyte-Macrophages When Cultured on Bionanofilms Substrates with Different Surface Relief Profiles. <i>Biomolecules</i> , 2020, 10, 65.	1.8	2
45	Assessment of the efficacy of slow-release formulations of the tribenuron-methyl herbicide in field-grown spring wheat. <i>Environmental Science and Pollution Research</i> , 2022, 29, 20249-20264.	2.7	2
46	Collagen conjugation to carboxyl-modified poly(3-hydroxybutyrate) microparticles: preparation, characterization and evaluation in vitro. <i>Journal of Polymer Research</i> , 2022, 29, .	1.2	2
47	A study of synthesis and properties of poly(3-hydroxybutyrate)/diethylene glycol copolymers. <i>Biotechnology Progress</i> , 2016, 32, 1017-1028.	1.3	1