Ekaterina Igorevna Shishatskaya

List of Publications by Year
in descending order

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	A study of the properties and efficacy of microparticles based on P(<scp>3HB</scp>) and P(<scp>3HB</scp>/<scp>3HV</scp>) loaded with herbicides. Journal of Applied Polymer Science, 2022, 139, 51756.	1.3	6
2	Assessment of the efficacy of slow-release formulations of the tribenuron-methyl herbicide in field-grown spring wheat. Environmental Science and Pollution Research, 2022, 29, 20249-20264.	2.7	2
3	Bacterial Cellulose (BC) and BC Composites: Production and Properties. Nanomaterials, 2022, 12, 192.	1.9	20
4	Development of Biodegradable Delivery Systems Containing Novel 1,2,4-Trioxolane Based on Bacterial Polyhydroxyalkanoates. Advances in Polymer Technology, 2022, 2022, 1-14.	0.8	3
5	Sugar Beet Molasses as a Potential C-Substrate for PHA Production by Cupriavidus necator. Bioengineering, 2022, 9, 154.	1.6	15
6	Collagen conjugation to carboxyl-modified poly(3-hydroxybutyrate) microparticles: preparation, characterization and evaluation in vitro. Journal of Polymer Research, 2022, 29, .	1.2	2
7	Polymer Films of Poly-3-hydroxybutyrate Synthesized by Cupriavidus necator from Different Carbon Sources. Journal of Polymers and the Environment, 2021, 29, 837-850.	2.4	6
8	Laser Processing of Polymer Films Fabricated from PHAs Differing in Their Monomer Composition. Polymers, 2021, 13, 1553.	2.0	7
9	Properties of Degradable Polyhydroxyalkanoates (PHAs) Synthesized by a New Strain, Cupriavidus necator IBP/SFU-1, from Various Carbon Sources. Polymers, 2021, 13, 3142.	2.0	17
10	Constructing sustainedâ€release herbicide formulations based on polyâ€3â€hydroxybutyrate and natural materials as a degradable matrix. Pest Management Science, 2020, 76, 1772-1785.	1.7	18
11	Efficacy of Slow-Release Formulations of Metribuzin and Tribenuron Methyl Herbicides for Controlling Weeds of Various Species in Wheat and Barley Stands. ACS Omega, 2020, 5, 25135-25147.	1.6	12
12	The Morphology and Phenotype of Monocyte-Macrophages When Cultured on Bionanofilms Substrates with Different Surface Relief Profiles. Biomolecules, 2020, 10, 65.	1.8	2
13	Biosynthesis and properties of P(3HBâ€coâ€3HVâ€coâ€3H4MV) produced by using the wildâ€type strain Cupriavidus eutrophus Bâ€10646. Journal of Chemical Technology and Biotechnology, 2019, 94, 195-203.	1.6	5
14	Constructing Slow-Release Fungicide Formulations Based on Poly(3-hydroxybutyrate) and Natural Materials as a Degradable Matrix. Journal of Agricultural and Food Chemistry, 2019, 67, 9220-9231.	2.4	24
15	The effect of the chemical composition and structure of polymer films made from resorbable polyhydroxyalkanoates on blood cell response. International Journal of Biological Macromolecules, 2019, 141, 765-775.	3.6	6
16	Synthesis of Polyhydroxyalkanoates by Hydrogen-Oxidizing Bacteria in a Pilot Production Process. Biomacromolecules, 2019, 20, 3261-3270.	2.6	15
17	Screening of biopolymeric materials for cardiovascular surgery toxicityâ€"Evaluation of their surface relief with assessment of morphological aspects of monocyte/macrophage polarization in atherosclerosis patients. Toxicology Reports, 2019, 6, 74-90.	1.6	5
18	Development and characterization of ceftriaxone-loaded P3HB-based microparticles for drug delivery. Drying Technology, 2019, 37, 1131-1142.	1.7	14

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19	Polyhydroxyalkanoate synthesis based on glycerol and implementation of the process under conditions of pilot production. Applied Microbiology and Biotechnology, 2019, 103, 225-237.	1.7	28
20	Properties of PHA bi-, ter-, and quarter-polymers containing 4-hydroxybutyrate monomer units. International Journal of Biological Macromolecules, 2018, 111, 1019-1026.	3.6	32
21	Polyhydroxyalkanoates (PHA) for therapeutic applications. Materials Science and Engineering C, 2018, 86, 144-150.	3.8	182
22	Novel spray-dried PHA microparticles for antitumor drug release. Drying Technology, 2018, 36, 1387-1398.	1.7	8
23	Antibacterial properties of films of cellulose composites with silver nanoparticles and antibiotics. Polymer Testing, 2018, 65, 54-68.	2.3	86
24	Toxic effects of the fungicide tebuconazole on the root system of fusarium-infected wheat plants. Plant Physiology and Biochemistry, 2018, 132, 400-407.	2.8	22
25	Production and properties of bacterial cellulose by the strain Komagataeibacter xylinus B-12068. Applied Microbiology and Biotechnology, 2018, 102, 7417-7428.	1.7	64
26	Battle of GLP-1 delivery technologies. Advanced Drug Delivery Reviews, 2018, 130, 113-130.	6.6	84
27	Herbicidal activity of slow-release herbicide formulations in wheat stands infested by weeds. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2017, 52, 729-735.	0.7	17
28	Efficacy of tebuconazole embedded in biodegradable polyâ€3â€hydroxybutyrate to inhibit the development of Fusarium moniliforme in soil microecosystems. Pest Management Science, 2017, 73, 925-935.	1.7	18
29	Microbial Degradation of Polyhydroxyalkanoates with Different Chemical Compositions and Their Biodegradability. Microbial Ecology, 2017, 73, 353-367.	1.4	87
30	A study of synthesis and properties of polyâ€3â€hydroxybutyrate/diethylene glycol copolymers. Biotechnology Progress, 2016, 32, 1017-1028.	1.3	1
31	Experimental wound dressings of degradable PHA for skin defect repair. Journal of Materials Science: Materials in Medicine, 2016, 27, 165.	1.7	67
32	Short-term culture of monocytes as an inÂvitro evaluation system for bionanomaterials designated for medical use. Food and Chemical Toxicology, 2016, 96, 302-308.	1.8	6
33	Properties of a novel quaterpolymer P(3HB/4HB/3HV/3HHx). Polymer, 2016, 101, 67-74.	1.8	11
34	Poly(3-hydroxybutyrate)/metribuzin formulations: characterization, controlled release properties, herbicidal activity, and effect on soil microorganisms. Environmental Science and Pollution Research, 2016, 23, 23936-23950.	2.7	17
35	Constructing herbicide metribuzin sustained-release formulations based on the natural polymer poly-3-hydroxybutyrate as a degradable matrix. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2016, 51, 113-125.	0.7	30
36	Emerging aspects of nanotoxicology in health and disease: From agriculture and food sector to cancer therapeutics. Food and Chemical Toxicology, 2016, 91, 42-57.	1.8	107

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37	Characterization of biodegradable poly-3-hydroxybutyrate films and pellets loaded with the fungicide tebuconazole. Environmental Science and Pollution Research, 2016, 23, 5243-5254.	2.7	19
38	Synthesis of poly(3-hydroxybutyrate) by the autotrophic CO-oxidizing bacterium Seliberia carboxydohydrogena Z-1062. Journal of Industrial Microbiology and Biotechnology, 2015, 42, 1377-1387.	1.4	7
39	An in vivo study of osteoplastic properties of resorbable poly-3-hydroxybutyrate in models of segmental osteotomy and chronic osteomyelitis. Artificial Cells, Nanomedicine and Biotechnology, 2014, 42, 344-355.	1.9	24
40	Electrospinning of polyhydroxyalkanoate fibrous scaffolds: effects on electrospinning parameters on structure and properties. Journal of Biomaterials Science, Polymer Edition, 2014, 25, 370-393.	1.9	51
41	A Glucose-Utilizing Strain, Cupriavidus euthrophus B-10646: Growth Kinetics, Characterization and Synthesis of Multicomponent PHAs. PLoS ONE, 2014, 9, e87551.	1.1	55
42	Cell growth and accumulation of polyhydroxyalkanoates from CO 2 and H 2 of a hydrogen-oxidizing bacterium, Cupriavidus eutrophus B-10646. Bioresource Technology, 2013, 146, 215-222.	4.8	89
43	Manipulation of Ralstonia eutropha Carbon Storage Pathways to Produce Useful Bio-Based Products. Sub-Cellular Biochemistry, 2012, 64, 343-366.	1.0	28
44	Biocompatibility and Resorption of Intravenously Administered Polymer Microparticles in Tissues of Internal Organs of Laboratory Animals. Journal of Biomaterials Science, Polymer Edition, 2011, 22, 2185-2203.	1.9	15
45	Biocompatibility of polyhydroxybutyrate microspheres: inÂvitro and inÂvivo evaluation. Journal of Materials Science: Materials in Medicine, 2008, 19, 2493-2502.	1.7	62
46	Biomedical Investigations of Biodegradable PHAs. Macromolecular Symposia, 2008, 269, 65-81.	0.4	20
47	Results of biomedical investigations of PHB and PHB/PHV fibers. Biochemical Engineering Journal, 2003, 16, 125-133.	1.8	134