

Rinat Nigmatullin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8864484/publications.pdf>

Version: 2024-02-01

48
papers

1,697
citations

257101

24
h-index

276539

41
g-index

48
all docs

48
docs citations

48
times ranked

2612
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods Employed for Control of Fouling in MF and UF Membranes: A Comprehensive Review. <i>Separation Science and Technology</i> , 2005, 40, 1957-2005.	1.3	368
2	Polyhydroxyalkanoates, a family of natural polymers, and their applications in drug delivery. <i>Journal of Chemical Technology and Biotechnology</i> , 2015, 90, 1209-1221.	1.6	108
3	Chromium(VI) reduction in a membrane bioreactor with immobilized <i>Pseudomonas</i> cells. <i>Enzyme and Microbial Technology</i> , 2003, 33, 899-907.	1.6	78
4	Ultrafiltration of water containing natural organic matter: heavy metal removing in the hybrid complexation-ultrafiltration process. <i>Separation and Purification Technology</i> , 2004, 40, 155-162.	3.9	78
5	Polymer-layered silicate nanocomposites in the design of antimicrobial materials. <i>Journal of Materials Science</i> , 2008, 43, 5728-5733.	1.7	75
6	Lipase-immobilized biocatalytic membranes for enzymatic esterification: Comparison of various approaches to membrane preparation. <i>Journal of Membrane Science</i> , 2006, 268, 198-207.	4.1	72
7	Immobilization of cross-linked lipase aggregates within microporous polymeric membranes. <i>Journal of Membrane Science</i> , 2004, 238, 131-141.	4.1	68
8	Nerve tissue engineering using blends of poly(3-hydroxyalkanoates) for peripheral nerve regeneration. <i>Engineering in Life Sciences</i> , 2015, 15, 612-621.	2.0	59
9	Chemical Modification of Bacterial Cellulose for the Development of an Antibacterial Wound Dressing. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 557885.	2.0	48
10	Ozonation kinetics of cork-processing water in a bubble column reactor. <i>Water Research</i> , 2008, 42, 2473-2482.	5.3	47
11	Binary polyhydroxyalkanoate systems for soft tissue engineering. <i>Acta Biomaterialia</i> , 2018, 71, 225-234.	4.1	47
12	Atomic force microscopy study of cellulose surface interaction controlled by cellulose binding domains. <i>Colloids and Surfaces B: Biointerfaces</i> , 2004, 35, 125-135.	2.5	44
13	Biosynthesis and characterization of a novel, biocompatible medium chain length polyhydroxyalkanoate by <i>Pseudomonas mendocina</i> CH50 using coconut oil as the carbon source. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 179.	1.7	43
14	Hydrophobization of Cellulose Nanocrystals for Aqueous Colloidal Suspensions and Gels. <i>Biomacromolecules</i> , 2020, 21, 1812-1823.	2.6	38
15	The effect of content of apple juice biopolymers on the concentration by membrane distillation. <i>Journal of Food Engineering</i> , 2003, 60, 275-280.	2.7	34
16	Esterase-Cleavable 2D Assemblies of Magnetic Iron Oxide Nanocubes: Exploiting Enzymatic Polymer Disassembling To Improve Magnetic Hyperthermia Heat Losses. <i>Chemistry of Materials</i> , 2019, 31, 5450-5463.	3.2	34
17	Mechanically Robust Gels Formed from Hydrophobized Cellulose Nanocrystals. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 19318-19322.	4.0	30
18	Thermosensitive supramolecular and colloidal hydrogels via self-assembly modulated by hydrophobized cellulose nanocrystals. <i>Cellulose</i> , 2019, 26, 529-542.	2.4	30

#	ARTICLE	IF	CITATIONS
19	High Stiffness Cellulose Fibers from Low Molecular Weight Microcrystalline Cellulose Solutions Using DMSO as a Solvent with Ionic Liquid. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800029.	1.7	28
20	Atomic force microscopy study of membranes modified by surface grafting of cationic polyelectrolyte. <i>Desalination</i> , 2005, 184, 45-55.	4.0	27
21	Permanent, Non-Leaching Antimicrobial Polyamide Nanocomposites Based on Organoclays Modified with a Cationic Polymer. <i>Macromolecular Materials and Engineering</i> , 2009, 294, 795-805.	1.7	27
22	Synthesis of graft copolymers based on hyaluronan and poly(3-hydroxyalkanoates). <i>Carbohydrate Polymers</i> , 2017, 171, 220-228.	5.1	27
23	Harnessing Polyhydroxyalkanoates and Pressurized Gyration for Hard and Soft Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 32624-32639.	4.0	27
24	Onium-functionalised Polymers in the Design of Non-leaching Antimicrobial Surfaces. <i>Macromolecular Materials and Engineering</i> , 2012, 297, 1038-1074.	1.7	24
25	Development of antimicrobial membranes via the surface tethering of chitosan. <i>Journal of Applied Polymer Science</i> , 2009, 111, 1697-1705.	1.3	20
26	Antimicrobial Materials with Lime Oil and a Poly(3-hydroxyalkanoate) Produced via Valorisation of Sugar Cane Molasses. <i>Journal of Functional Biomaterials</i> , 2020, 11, 24.	1.8	20
27	Chemoenzymatic Synthesis of Fluorinated Cellodextrins Identifies a New Allomorph for Cellulose-like Materials**. <i>Chemistry - A European Journal</i> , 2021, 27, 1374-1382.	1.7	18
28	Octylamine-Modified Cellulose Nanocrystal-Enhanced Stabilization of Pickering Emulsions for Self-Healing Composite Coatings. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12722-12733.	4.0	18
29	Dielectric response of various partially cured epoxy nanocomposites. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2013, 20, 580-591.	1.8	17
30	Influence of polymerisation conditions on the properties of polymer/clay nanocomposite hydrogels. <i>Soft Matter</i> , 2014, 10, 2035.	1.2	16
31	Preclinical study of peripheral nerve regeneration using nerve guidance conduits based on polyhydroxyalkanoates. <i>Bioengineering and Translational Medicine</i> , 2021, 6, e10223.	3.9	16
32	MEMBRANE-ASSISTED CHIRAL RESOLUTION OF PHARMACEUTICALS: IBUPROFEN SEPARATION BY ULTRAFILTRATION USING BOVINE SERUM ALBUMIN AS CHIRAL SELECTOR. <i>Separation Science and Technology</i> , 2002, 37, 3227-3244.	1.3	15
33	Modulation of neuronal cell affinity of composite scaffolds based on polyhydroxyalkanoates and bioactive glasses. <i>Biomedical Materials (Bristol)</i> , 2020, 15, 045024.	1.7	15
34	Hydrophobized cellulose nanocrystals enhance xanthan and locust bean gum network properties in gels and emulsions. <i>Carbohydrate Polymers</i> , 2020, 250, 116953.	5.1	14
35	Spatial sequencing of microbial reduction of chromate and nitrate in membrane bioreactor. <i>Bioprocess and Biosystems Engineering</i> , 2008, 31, 647-653.	1.7	12
36	Antibacterial Composite Materials Based on the Combination of Polyhydroxyalkanoates With Selenium and Strontium Co-substituted Hydroxyapatite for Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 647007.	2.0	12

#	ARTICLE	IF	CITATIONS
37	Bioresorbable and Mechanically Optimized Nerve Guidance Conduit Based on a Naturally Derived Medium Chain Length Polyhydroxyalkanoate and Poly(ϵ -Caprolactone) Blend. ACS Biomaterials Science and Engineering, 2021, 7, 672-689.	2.6	11
38	Biocatalytic membranes for ultrafiltration treatment of wastewater containing dyes. Bioprocess and Biosystems Engineering, 2000, 23, 651-656.	1.7	7
39	Characterization of Melt Dripping Behavior of Flame Retarded Polypropylene Nanocomposites. ACS Symposium Series, 2012, , 311-325.	0.5	6
40	The physicochemical effect of sugar alcohol plasticisers on oxidised nanocellulose gels and extruded filaments. Cellulose, 2021, 28, 7829-7843.	2.4	6
41	Dielectric behavior of graphene oxide powder when washed. , 2013, , .		4
42	Postsynthesis Self- And Coassembly of Enzymatically Produced Fluorinated Cellodextrins and Cellulose Nanocrystals. Langmuir, 2021, 37, 9215-9221.	1.6	4
43	Difficulty with in situ reduction of graphene oxide in epoxy composite: A potential solution. , 2014, , .		2
44	Polyvinylchloride membranes in immunosensor design. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 149, 539-545.	2.3	1
45	Nano-structured hybrid sheets for electrotechnical high-power insulating applications: The sol-gel route. , 2012, , .		1
46	Thermal and dielectric properties of clay/epoxy nanocomposites with low percentage of graphite oxide. , 2013, , .		1
47	Dielectric response of modified epoxy/clay nanocomposites. , 2012, , .		0
48	Macromol. Mater. Eng. 5/2018. Macromolecular Materials and Engineering, 2018, 303, 1870019.	1.7	0