Rinat Nigmatullin

List of Publications by Year
in descending order

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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	Octylamine-Modified Cellulose Nanocrystal-Enhanced Stabilization of Pickering Emulsions for Self-Healing Composite Coatings. ACS Applied Materials & Interfaces, 2022, 14, 12722-12733.	4.0	18
2	Chemoenzymatic Synthesis of Fluorinated Cellodextrins Identifies a New Allomorph for Celluloseâ€Like Materials**. Chemistry - A European Journal, 2021, 27, 1374-1382.	1.7	18
3	Antibacterial Composite Materials Based on the Combination of Polyhydroxyalkanoates With Selenium and Strontium Co-substituted Hydroxyapatite for Bone Regeneration. Frontiers in Bioengineering and Biotechnology, 2021, 9, 647007.	2.0	12
4	Preclinical study of peripheral nerve regeneration using nerve guidance conduits based on polyhydroxyalkanaotes. Bioengineering and Translational Medicine, 2021, 6, e10223.	3.9	16
5	The physicochemical effect of sugar alcohol plasticisers on oxidised nanocellulose gels and extruded filaments. Cellulose, 2021, 28, 7829-7843.	2.4	6
6	Postsynthesis Self- And Coassembly of Enzymatically Produced Fluorinated Cellodextrins and Cellulose Nanocrystals. Langmuir, 2021, 37, 9215-9221.	1.6	4
7	Harnessing Polyhydroxyalkanoates and Pressurized Gyration for Hard and Soft Tissue Engineering. ACS Applied Materials & Interfaces, 2021, 13, 32624-32639.	4.0	27
8	Bioresorbable and Mechanically Optimized Nerve Guidance Conduit Based on a Naturally Derived Medium Chain Length Polyhydroxyalkanoate and Poly(Îµ-Caprolactone) Blend. ACS Biomaterials Science and Engineering, 2021, 7, 672-689.	2.6	11
9	Hydrophobized cellulose nanocrystals enhance xanthan and locust bean gum network properties in gels and emulsions. Carbohydrate Polymers, 2020, 250, 116953.	5.1	14
10	Chemical Modification of Bacterial Cellulose for the Development of an Antibacterial Wound Dressing. Frontiers in Bioengineering and Biotechnology, 2020, 8, 557885.	2.0	48
11	Modulation of neuronal cell affinity of composite scaffolds based on polyhydroxyalkanoates and bioactive glasses. Biomedical Materials (Bristol), 2020, 15, 045024.	1.7	15
12	Hydrophobization of Cellulose Nanocrystals for Aqueous Colloidal Suspensions and Gels. Biomacromolecules, 2020, 21, 1812-1823.	2.6	38
13	Antimicrobial Materials with Lime Oil and a Poly(3-hydroxyalkanoate) Produced via Valorisation of Sugar Cane Molasses. Journal of Functional Biomaterials, 2020, 11, 24.	1.8	20
14	Esterase-Cleavable 2D Assemblies of Magnetic Iron Oxide Nanocubes: Exploiting Enzymatic Polymer Disassembling To Improve Magnetic Hyperthermia Heat Losses. Chemistry of Materials, 2019, 31, 5450-5463.	3.2	34
15	Thermosensitive supramolecular and colloidal hydrogels via self-assembly modulated by hydrophobized cellulose nanocrystals. Cellulose, 2019, 26, 529-542.	2.4	30
16	Binary polyhydroxyalkanoate systems for soft tissue engineering. Acta Biomaterialia, 2018, 71, 225-234.	4.1	47
17	Biosynthesis and characterization of a novel, biocompatible medium chain length polyhydroxyalkanoate by Pseudomonas mendocina CH50 using coconut oil as the carbon source. Journal of Materials Science: Materials in Medicine, 2018, 29, 179.	1.7	43
18	Macromol. Mater. Eng. 5/2018. Macromolecular Materials and Engineering, 2018, 303, 1870019.	1.7	0

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19	Mechanically Robust Gels Formed from Hydrophobized Cellulose Nanocrystals. ACS Applied Materials & Interfaces, 2018, 10, 19318-19322.	4.0	30
20	High Stiffness Cellulose Fibers from Low Molecular Weight Microcrystalline Cellulose Solutions Using DMSO as Coâ€Solvent with Ionic Liquid. Macromolecular Materials and Engineering, 2018, 303, 1800029.	1.7	28
21	Synthesis of graft copolymers based on hyaluronan and poly(3-hydroxyalkanoates). Carbohydrate Polymers, 2017, 171, 220-228.	5.1	27
22	Nerve tissue engineering using blends of poly(3â€hydroxyalkanoates) for peripheral nerve regeneration. Engineering in Life Sciences, 2015, 15, 612-621.	2.0	59
23	Polyhydroxyalkanoates, a family of natural polymers, and their applications in drug delivery. Journal of Chemical Technology and Biotechnology, 2015, 90, 1209-1221.	1.6	108
24	Difficulty with in situ reduction of graphene oxide in epoxy composite: A potential solution. , 2014, , .		2
25	Influence of polymerisation conditions on the properties of polymer/clay nanocomposite hydrogels. Soft Matter, 2014, 10, 2035.	1.2	16
26	Dielectric response of various partially cured epoxy nanocomposites. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 580-591.	1.8	17
27	Thermal and dielectric properties of clay/epoxy nanocomposites with low percentage of graphite oxide. , 2013, , .		1
28	Dielectric behavior of graphene oxide powder when washed. , 2013, , .		4
29	Nano-structured hybrid sheets for electrotechnical high-power insulating applications: The sol-gel route. , 2012, , .		1
30	Characterization of Melt Dripping Behavior of Flame Retarded Polypropylene Nanocomposites. ACS Symposium Series, 2012, , 311-325.	0.5	6
31	Dielectric response of modified epoxy/clay nanocomposites. , 2012, , .		0
32	Oniumâ€functionalised Polymers in the Design of Nonâ€leaching Antimicrobial Surfaces. Macromolecular Materials and Engineering, 2012, 297, 1038-1074.	1.7	24
33	Permanent, Nonâ€Leaching Antimicrobial Polyamide Nanocomposites Based on Organoclays Modified with a Cationic Polymer. Macromolecular Materials and Engineering, 2009, 294, 795-805.	1.7	27
34	Development of antimicrobial membranes via the surface tethering of chitosan. Journal of Applied Polymer Science, 2009, 111, 1697-1705.	1.3	20
35	Polymer-layered silicate nanocomposites in the design of antimicrobial materials. Journal of Materials Science, 2008, 43, 5728-5733.	1.7	75
36	Spatial sequencing of microbial reduction of chromate and nitrate in membrane bioreactor. Bioprocess and Biosystems Engineering, 2008, 31, 647-653.	1.7	12

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37	Ozonation kinetics of cork-processing water in a bubble column reactor. Water Research, 2008, 42, 2473-2482.	5.3	47
38	Lipase-immobilized biocatalytic membranes for enzymatic esterification: Comparison of various approaches to membrane preparation. Journal of Membrane Science, 2006, 268, 198-207.	4.1	72
39	Atomic force microscopy study of membranes modified by surface grafting of cationic polyelectrolyte. Desalination, 2005, 184, 45-55.	4.0	27
40	Methods Employed for Control of Fouling in MF and UF Membranes: A Comprehensive Review. Separation Science and Technology, 2005, 40, 1957-2005.	1.3	368
41	Ultrafiltration of water containing natural organic matter: heavy metal removing in the hybrid complexationâ€“ultrafiltration process. Separation and Purification Technology, 2004, 40, 155-162.	3.9	78
42	Immobilization of cross-linked lipase aggregates within microporous polymeric membranes. Journal of Membrane Science, 2004, 238, 131-141.	4.1	68
43	Atomic force microscopy study of cellulose surface interaction controlled by cellulose binding domains. Colloids and Surfaces B: Biointerfaces, 2004, 35, 125-135.	2.5	44
44	Chromium(VI) reduction in a membrane bioreactor with immobilized Pseudomonas cells. Enzyme and Microbial Technology, 2003, 33, 899-907.	1.6	78
45	The effect of content of apple juice biopolymers on the concentration by membrane distillation. Journal of Food Engineering, 2003, 60, 275-280.	2.7	34
46	MEMBRANE-ASSISTED CHIRAL RESOLUTION OF PHARMACEUTICALS: IBUPROFEN SEPARATION BY ULTRAFILTRATION USING BOVINE SERUM ALBUMIN AS CHIRAL SELECTOR. Separation Science and Technology, 2002, 37, 3227-3244.	1.3	15
47	Biocatalytic membranes for ultrafiltration treatment of wastewater containing dyes. Bioprocess and Biosystems Engineering, 2000, 23, 651-656.	1.7	7
48	Polyvinylchloride membranes in immunosensor design. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 149, 539-545.	2.3	1