

Mikhail V Tsurkan

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

3,716
citations

117453

34
h-index

128067

60
g-index

71
all docs

71
docs citations

71
times ranked

5013
citing authors

#	ARTICLE	IF	CITATIONS
1	Chitin and chitosan in selected biomedical applications. <i>Progress in Polymer Science</i> , 2014, 39, 1644-1667.	11.8	780
2	Glycosaminoglycan-based hydrogels to modulate heterocellular communication in in vitro angiogenesis models. <i>Scientific Reports</i> , 2014, 4, 4414.	1.6	179
3	Mineralization of the metre-long biosilica structures of glass sponges is templated on hydroxylated collagen. <i>Nature Chemistry</i> , 2010, 2, 1084-1088.	6.6	149
4	Defined Polymer-peptide Conjugates to Form Cell-instructive starPEG-heparin Matrices In Situ. <i>Advanced Materials</i> , 2013, 25, 2606-2610.	11.1	141
5	Bio-responsive polymer hydrogels homeostatically regulate blood coagulation. <i>Nature Communications</i> , 2013, 4, 2168.	5.8	132
6	Discovery of 505-million-year old chitin in the basal demosponge <i>Vauxia gracilentia</i> . <i>Scientific Reports</i> , 2013, 3, 3497.	1.6	123
7	Progress in chitin analytics. <i>Carbohydrate Polymers</i> , 2021, 252, 117204.	5.1	110
8	Heparin desulfation modulates VEGF release and angiogenesis in diabetic wounds. <i>Journal of Controlled Release</i> , 2015, 220, 79-88.	4.8	100
9	Isolation and identification of chitin in three-dimensional skeleton of <i>Aplysina fistularis</i> marine sponge. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 94-100.	3.6	91
10	Identification and first insights into the structure and biosynthesis of chitin from the freshwater sponge <i>Spongilla lacustris</i> . <i>Journal of Structural Biology</i> , 2013, 183, 474-483.	1.3	88
11	Extreme biomimetic approach for developing novel chitin-GeO ₂ nanocomposites with photoluminescent properties. <i>Nano Research</i> , 2015, 8, 2288-2301.	5.8	71
12	Recent Advances on Diverse Decarboxylative Reactions of Amino Acids. <i>Advanced Synthesis and Catalysis</i> , 2019, 361, 2161-2214.	2.1	67
13	The multi-layered protective cuticle of <i>Collembola</i> : a chemical analysis. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140619.	1.5	65
14	Express Method for Isolation of Ready-to-Use 3D Chitin Scaffolds from <i>Aplysina archeri</i> (Aplysineidae:). <i>Journal of Applied Microbiology</i> , 2019, 127, 1000-1008.	2.2	65
15	Minimal Peptide Motif for Non-covalent Peptide-heparin Hydrogels. <i>Journal of the American Chemical Society</i> , 2013, 135, 2919-2922.	6.6	62
16	Tackling Cell Transplantation Anoxia: An Injectable, Shape Memory Cryogel Microcarrier Platform Material for Stem Cell and Neuronal Cell Growth. <i>Small</i> , 2015, 11, 5047-5053.	5.2	62
17	Two-tier hydrogel degradation to boost endothelial cell morphogenesis. <i>Biomaterials</i> , 2011, 32, 9649-9657.	5.7	58
18	Marine biomaterials: Biomimetic and pharmacological potential of cultivated <i>Aplysina aerophoba</i> marine demosponge. <i>Materials Science and Engineering C</i> , 2020, 109, 110566.	3.8	53

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19	Modular StarPEG-Heparin Gels with Bifunctional Peptide Linkers. <i>Macromolecular Rapid Communications</i> , 2010, 31, 1529-1533.	2.0	52
20	Enzymatically degradable heparin-polyethylene glycol gels with controlled mechanical properties. <i>Chemical Communications</i> , 2010, 46, 1141-1143.	2.2	50
21	Combined influence of biophysical and biochemical cues on maintenance and proliferation of hematopoietic stem cells. <i>Biomaterials</i> , 2017, 138, 108-117.	5.7	47
22	Growth factor delivery from hydrogel particle aggregates to promote tubular regeneration after acute kidney injury. <i>Journal of Controlled Release</i> , 2013, 167, 248-255.	4.8	45
23	Isolation and identification of chitin from heavy mineralized skeleton of <i>Suberea clavata</i> (Verongida: Tj ETQq1 1 0.784314 rgBT /Over 2017, 104, 1706-1712.	3.6	44
24	Biohybrid Networks of Selectively Desulfated Glycosaminoglycans for Tunable Growth Factor Delivery. <i>Biomacromolecules</i> , 2014, 15, 4439-4446.	2.6	43
25	Naturally Drug-Loaded Chitin: Isolation and Applications. <i>Marine Drugs</i> , 2019, 17, 574.	2.2	42
26	Supercontinuum Generation in Naturally Occurring Glass Sponges Spicules. <i>Advanced Optical Materials</i> , 2016, 4, 1608-1613.	3.6	41
27	First report on chitinous holdfast in sponges (Porifera). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013, 280, 20130339.	1.2	40
28	Naturally Prefabricated Marine Biomaterials: Isolation and Applications of Flat Chitinous 3D Scaffolds from <i>lanthella labyrinthus</i> (Demospongiae: Verongiida). <i>International Journal of Molecular Sciences</i> , 2019, 20, 5105.	1.8	40
29	Macromolecular crowding for tailoring tissue-derived fibrillated matrices. <i>Acta Biomaterialia</i> , 2017, 55, 109-119.	4.1	38
30	Heparin-based hydrogels induce human renal tubulogenesis in vitro. <i>Acta Biomaterialia</i> , 2017, 57, 59-69.	4.1	38
31	In situ-forming, cell-instructive hydrogels based on glycosaminoglycans with varied sulfation patterns. <i>Biomaterials</i> , 2018, 181, 227-239.	5.7	38
32	Multiphase Biomineralization: Enigmatic Invasive Siliceous Diatoms Produce Crystalline Calcite. <i>Advanced Functional Materials</i> , 2016, 26, 2503-2510.	7.8	37
33	Modular GAG-matrices to promote mammary epithelial morphogenesis in vitro. <i>Biomaterials</i> , 2017, 112, 20-30.	5.7	37
34	Nano-biosupercapacitors enable autarkic sensor operation in blood. <i>Nature Communications</i> , 2021, 12, 4967.	5.8	37
35	New Source of 3D Chitin Scaffolds: The Red Sea Demosponge <i>Pseudoceratina arabica</i> (Pseudoceratinidae, Verongiida). <i>Marine Drugs</i> , 2019, 17, 92.	2.2	36
36	Adaptive release of heparin from anticoagulant hydrogels triggered by different blood coagulation factors. <i>Biomaterials</i> , 2017, 135, 53-61.	5.7	35

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37	Spider Chitin: An Ultrafast Microwave-Assisted Method for Chitin Isolation from <i>Caribena versicolor</i> Spider Molt Cuticle. <i>Molecules</i> , 2019, 24, 3736.	1.7	35
38	Spider Chitin. The biomimetic potential and applications of <i>Caribena versicolor</i> tubular chitin. <i>Carbohydrate Polymers</i> , 2019, 226, 115301.	5.1	33
39	The demosponge <i>Pseudoceratina purpurea</i> as a new source of fibrous chitin. <i>International Journal of Biological Macromolecules</i> , 2018, 112, 1021-1028.	3.6	31
40	Discovery of chitin in skeletons of non-verongioid Red Sea demosponges. <i>PLoS ONE</i> , 2018, 13, e0195803.	1.1	31
41	Surface-Dependent Osteoblasts Response to TiO ₂ Nanotubes of Different Crystallinity. <i>Nanomaterials</i> , 2020, 10, 320.	1.9	30
42	Glycosaminoglycan-based hydrogels with programmable host reactions. <i>Biomaterials</i> , 2020, 228, 119557.	5.7	29
43	Heparin-Modified Polyethylene Glycol Microparticle Aggregates for Focal Cancer Chemotherapy. <i>ACS Biomaterials Science and Engineering</i> , 2016, 2, 2287-2293.	2.6	26
44	First Report on Chitin in a Non-Verongioid Marine Demosponge: The <i>Mycale euplectellioides</i> Case. <i>Marine Drugs</i> , 2018, 16, 68.	2.2	26
45	Metal-Mediated Peptide Assembly: Use of Metal Coordination to Change the Oligomerization State of an α -Helical Coiled-Coil. <i>Inorganic Chemistry</i> , 2007, 46, 6849-6851.	1.9	23
46	Formation of Peptide Nanospheres and Nanofibrils by Metal Coordination. <i>Biomacromolecules</i> , 2007, 8, 3908-3913.	2.6	23
47	Self-Assembling Hydrogels Crosslinked Solely by Receptor-Ligand Interactions: Tunability, Rationalization of Physical Properties, and 3D Cell Culture. <i>Chemistry - A European Journal</i> , 2015, 21, 3178-3182.	1.7	23
48	New family and genus of a Dendrilla-like sponge with characters of Verongiida. Part II. Discovery of chitin in the skeleton of <i>Ernstilla lacunosa</i> . <i>Zoologischer Anzeiger</i> , 2019, 280, 21-29.	0.4	23
49	Photopatterning of Multifunctional Hydrogels to Direct Adult Neural Precursor Cells. <i>Advanced Healthcare Materials</i> , 2015, 4, 516-521.	3.9	22
50	Metal-peptide nanoassemblies. <i>Chemical Communications</i> , 2004, , 2092.	2.2	21
51	Multiphasic microgel-in-gel materials to recapitulate cellular mesoenvironments <i>in vitro</i> . <i>Biomaterials Science</i> , 2020, 8, 101-108.	2.6	20
52	Cell-instructive starPEG-heparin-collagen composite matrices. <i>Acta Biomaterialia</i> , 2017, 53, 70-80.	4.1	19
53	Electrochemical Approach for Isolation of Chitin from the Skeleton of the Black Coral <i>Cirripathes</i> sp. (<i>Antipatharia</i>). <i>Marine Drugs</i> , 2020, 18, 297.	2.2	19
54	In Silico Evaluation of Antifungal Compounds from Marine Sponges against COVID-19-Associated Mucormycosis. <i>Marine Drugs</i> , 2022, 20, 215.	2.2	18

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55	Forbidden Chemistry: Two-Photon Pathway in [2+2] Cycloaddition of Maleimides. <i>Journal of the American Chemical Society</i> , 2017, 139, 10184-10187.	6.6	17
56	Stromal fibroblasts regulate microvascular-like network architecture in a bioengineered breast tumour angiogenesis model. <i>Acta Biomaterialia</i> , 2020, 114, 256-269.	4.1	17
57	Investigation of Sustained BMP Delivery in the Prevention of Medication-Related Osteonecrosis of the Jaw (MRONJ) in a Rat Model. <i>Macromolecular Bioscience</i> , 2019, 19, e1900226.	2.1	16
58	Changing growth of neurites of sensory ganglion by terahertz radiation. <i>Proceedings of SPIE</i> , 2012, , .	0.8	15
59	Bottom-Up Structuring and Site-Selective Modification of Hydrogels Using a Two-Photon [2+2] Cycloaddition of Maleimide. <i>Advanced Materials</i> , 2017, 29, 1603327.	11.1	15
60	Chemoselective Peptide Functionalization of starPEG-GAG Hydrogels. <i>Bioconjugate Chemistry</i> , 2014, 25, 1942-1950.	1.8	13
61	Identification and first insights into the structure of chitin from the endemic freshwater demosponge <i>Ochridaspongia rotunda</i> (Arndt, 1937). <i>International Journal of Biological Macromolecules</i> , 2020, 162, 1187-1194.	3.6	9
62	Biosignatures in Subsurface Filamentous Fabrics (SFF) from the Deccan Volcanic Province, India. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 540.	0.8	7
63	Conformational changes of GDNF-derived peptide induced by heparin, heparan sulfate, and sulfated hyaluronic acid - Analysis by circular dichroism spectroscopy and molecular dynamics simulation. <i>International Journal of Biological Macromolecules</i> , 2021, 182, 2144-2150.	3.6	7
64	Defined Geldrop Cultures Maintain Neural Precursor Cells. <i>Scientific Reports</i> , 2018, 8, 8433.	1.6	5
65	Computer vision vs. spectrofluorometer-assisted detection of common nitro-explosive components with bola-type PAH-based chemosensors. <i>RSC Advances</i> , 2021, 11, 25850-25857.	1.7	5
66	Techniques for RNA extraction from cells cultured in starPEG-heparin hydrogels. <i>Open Biology</i> , 2021, 11, 200388.	1.5	2
67	Metal-Mediated Peptide Assembly. <i>ACS Symposium Series</i> , 2009, , 167-182.	0.5	0
68	Situation-adjusted anticoagulant release can simulate feedback responsive behavior of the blood vessel wall. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
69	Hydrogel-based kidney tubulogenesis model for drug toxicity applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
70	A modular glycosaminoglycan-based hydrogel platform to establish models of cancer angiogenesis. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0