

Mikhail V Tsurkan

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

2,898

citations

29

h-index

53

g-index

71

ext. papers

3,318

ext. citations

8.9

avg, IF

5.05

L-index

#	Paper	IF	Citations
66	Chitin and chitosan in selected biomedical applications. <i>Progress in Polymer Science</i> , 2014 , 39, 1644-1667	29.6	645
65	Glycosaminoglycan-based hydrogels to modulate heterocellular communication in in vitro angiogenesis models. <i>Scientific Reports</i> , 2014 , 4, 4414	4.9	150
64	Mineralization of the metre-long biosilica structures of glass sponges is templated on hydroxylated collagen. <i>Nature Chemistry</i> , 2010 , 2, 1084-8	17.6	132
63	Defined polymer-peptide conjugates to form cell-instructive starPEG-heparin matrices in situ. <i>Advanced Materials</i> , 2013 , 25, 2606-10	24	127
62	Bio-responsive polymer hydrogels homeostatically regulate blood coagulation. <i>Nature Communications</i> , 2013 , 4, 2168	17.4	108
61	Discovery of 505-million-year old chitin in the basal demosponge <i>Vauxia gracilentia</i> . <i>Scientific Reports</i> , 2013 , 3, 3497	4.9	102
60	Heparin desulfation modulates VEGF release and angiogenesis in diabetic wounds. <i>Journal of Controlled Release</i> , 2015 , 220, 79-88	11.7	80
59	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	7.9	80
58	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	3.4	71
57	Extreme biomimetic approach for developing novel chitin-GeO ₂ nanocomposites with photoluminescent properties. <i>Nano Research</i> , 2015 , 8, 2288-2301	10	63
56	Minimal peptide motif for non-covalent peptide-heparin hydrogels. <i>Journal of the American Chemical Society</i> , 2013 , 135, 2919-22	16.4	54
55	Two-tier hydrogel degradation to boost endothelial cell morphogenesis. <i>Biomaterials</i> , 2011 , 32, 9649-57	15.6	51
54	Modular StarPEG-Heparin Gels with Bifunctional Peptide Linkers. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1529-33	4.8	51
53	The multi-layered protective cuticle of <i>Collembola</i> : a chemical analysis. <i>Journal of the Royal Society Interface</i> , 2014 , 11,	4.1	50
52	Tackling Cell Transplantation Anoikis: An Injectable, Shape Memory Cryogel Microcarrier Platform Material for Stem Cell and Neuronal Cell Growth. <i>Small</i> , 2015 , 11, 5047-53	11	49
51	Express Method for Isolation of Ready-to-Use 3D Chitin Scaffolds from (<i>Aplysineidae</i> : <i>Verongiida</i>) Demosponge. <i>Marine Drugs</i> , 2019 , 17,	6	48
50	Enzymatically degradable heparin-polyethylene glycol gels with controlled mechanical properties. <i>Chemical Communications</i> , 2010 , 46, 1141-3	5.8	47

49	Recent Advances on Diverse Decarboxylative Reactions of Amino Acids. <i>Advanced Synthesis and Catalysis</i> , 2019 , 361, 2161-2214	5.6	41
48	Progress in chitin analytics. <i>Carbohydrate Polymers</i> , 2021 , 252, 117204	10.3	41
47	Isolation and identification of chitin from heavy mineralized skeleton of <i>Suberea clavata</i> (Verongiida: Demospongiae: Porifera) marine demosponge. <i>International Journal of Biological Macromolecules</i> , 2017 , 104, 1706-1712	7.9	38
46	Biohybrid networks of selectively desulfated glycosaminoglycans for tunable growth factor delivery. <i>Biomacromolecules</i> , 2014 , 15, 4439-46	6.9	37
45	First report on chitinous holdfast in sponges (Porifera). <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20130339	4.4	36
44	Combined influence of biophysical and biochemical cues on maintenance and proliferation of hematopoietic stem cells. <i>Biomaterials</i> , 2017 , 138, 108-117	15.6	34
43	Supercontinuum Generation in Naturally Occurring Glass Sponges Spicules. <i>Advanced Optical Materials</i> , 2016 , 4, 1608-1613	8.1	34
42	Marine biomaterials: Biomimetic and pharmacological potential of cultivated <i>Aplysina aerophoba</i> marine demosponge. <i>Materials Science and Engineering C</i> , 2020 , 109, 110566	8.3	33
41	Growth factor delivery from hydrogel particle aggregates to promote tubular regeneration after acute kidney injury. <i>Journal of Controlled Release</i> , 2013 , 167, 248-55	11.7	32
40	Macromolecular crowding for tailoring tissue-derived fibrillated matrices. <i>Acta Biomaterialia</i> , 2017 , 55, 109-119	10.8	31
39	New Source of 3D Chitin Scaffolds: The Red Sea Demosponge (Pseudoceratinidae, Verongiida). <i>Marine Drugs</i> , 2019 , 17,	6	31
38	Multiphase Biomineralization: Enigmatic Invasive Siliceous Diatoms Produce Crystalline Calcite. <i>Advanced Functional Materials</i> , 2016 , 26, 2503-2510	15.6	30
37	The demosponge <i>Pseudoceratina purpurea</i> as a new source of fibrous chitin. <i>International Journal of Biological Macromolecules</i> , 2018 , 112, 1021-1028	7.9	28
36	Naturally Prefabricated Marine Biomaterials: Isolation and Applications of Flat Chitinous 3D Scaffolds from (Demospongiae: Verongiida). <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	27
35	Modular GAG-matrices to promote mammary epithelial morphogenesis in vitro. <i>Biomaterials</i> , 2017 , 112, 20-30	15.6	27
34	Adaptive release of heparin from anticoagulant hydrogels triggered by different blood coagulation factors. <i>Biomaterials</i> , 2017 , 135, 53-61	15.6	26
33	Spider Chitin. The biomimetic potential and applications of <i>Caribena versicolor</i> tubular chitin. <i>Carbohydrate Polymers</i> , 2019 , 226, 115301	10.3	26
32	Naturally Drug-Loaded Chitin: Isolation and Applications. <i>Marine Drugs</i> , 2019 , 17,	6	26

31	Heparin-based hydrogels induce human renal tubulogenesis in vitro. <i>Acta Biomaterialia</i> , 2017 , 57, 59-69	10.8	25
30	In situ-forming, cell-instructive hydrogels based on glycosaminoglycans with varied sulfation patterns. <i>Biomaterials</i> , 2018 , 181, 227-239	15.6	25
29	Discovery of chitin in skeletons of non-verongioid Red Sea demosponges. <i>PLoS ONE</i> , 2018 , 13, e0195803	3.7	24
28	Spider Chitin: An Ultrafast Microwave-Assisted Method for Chitin Isolation from Spider Molt Cuticle. <i>Molecules</i> , 2019 , 24,	4.8	24
27	First Report on Chitin in a Non-Verongioid Marine Demosponge: The Mycale euplectellioides Case. <i>Marine Drugs</i> , 2018 , 16,	6	23
26	Surface-Dependent Osteoblasts Response to TiO Nanotubes of Different Crystallinity. <i>Nanomaterials</i> , 2020 , 10,	5.4	22
25	Metal-mediated peptide assembly: use of metal coordination to change the oligomerization state of an alpha-helical coiled-coil. <i>Inorganic Chemistry</i> , 2007 , 46, 6849-51	5.1	22
24	Photopatterning of multifunctional hydrogels to direct adult neural precursor cells. <i>Advanced Healthcare Materials</i> , 2015 , 4, 516-21	10.1	21
23	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, 3178-82	4.8	20
22	Heparin-Modified Polyethylene Glycol Microparticle Aggregates for Focal Cancer Chemotherapy. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 2287-2293	5.5	20
21	Formation of peptide nanospheres and nanofibrils by metal coordination. <i>Biomacromolecules</i> , 2007 , 8, 3908-13	6.9	19
20	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	1.1	18
19	Metal-peptide nanoassemblies. <i>Chemical Communications</i> , 2004 , 2092-3	5.8	18
18	Glycosaminoglycan-based hydrogels with programmable host reactions. <i>Biomaterials</i> , 2020 , 228, 119557	15.6	17
17	Cell-instructive starPEG-heparin-collagen composite matrices. <i>Acta Biomaterialia</i> , 2017 , 53, 70-80	10.8	12
16	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	24	12
15	Multiphasic microgel-in-gel materials to recapitulate cellular mesoenvironments in vitro. <i>Biomaterials Science</i> , 2019 , 8, 101-108	7.4	12
14	Nano-biosupercapacitors enable autarkic sensor operation in blood. <i>Nature Communications</i> , 2021 , 12, 4967	17.4	12

13	Chemoselective peptide functionalization of starPEG-GAG hydrogels. <i>Bioconjugate Chemistry</i> , 2014 , 25, 1942-50	6.3	10
12	Forbidden Chemistry: Two-Photon Pathway in [2+2] Cycloaddition of Maleimides. <i>Journal of the American Chemical Society</i> , 2017 , 139, 10184-10187	16.4	10
11	Stromal fibroblasts regulate microvascular-like network architecture in a bioengineered breast tumour angiogenesis model. <i>Acta Biomaterialia</i> , 2020 , 114, 256-269	10.8	9
10	Biosignatures in Subsurface Filamentous Fabrics (SFF) from the Deccan Volcanic Province, India. <i>Minerals (Basel, Switzerland)</i> , 2020 , 10, 540	2.4	7
9	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	5.5	7
8	Electrochemical Approach for Isolation of Chitin from the Skeleton of the Black Coral sp. (Antipatharia). <i>Marine Drugs</i> , 2020 , 18,	6	6
7	Changing growth of neurites of sensory ganglion by terahertz radiation 2012 ,		6
6	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	7.9	5
5	Defined Geldrop Cultures Maintain Neural Precursor Cells. <i>Scientific Reports</i> , 2018 , 8, 8433	4.9	5
4	Techniques for RNA extraction from cells cultured in starPEG-heparin hydrogels. <i>Open Biology</i> , 2021 , 11, 200388	7	0
3	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	7.9	0
2	Computer vision spectrofluorometer-assisted detection of common nitro-explosive components with -type PAH-based chemosensors.. <i>RSC Advances</i> , 2021 , 11, 25850-25857	3.7	0
1	Metal-Mediated Peptide Assembly. <i>ACS Symposium Series</i> , 2009 , 167-182	0.4	