Ilya Digel

List of Publications by Year
in descending order

50 papers	1,011 citations	394421 19 h-index	434195 31 g-index
51 all docs	51 docs citations	51 times ranked	1231 citing authors

#	Article	IF	Citations
1	Lignite biosolubilization and bioconversion by Bacillus sp.: the collation of analytical data. Biofuels, 2021, 12, 247-258.	2.4	21
2	Epipelagic microbiome of the Small Aral Sea: Metagenomic structure and ecological diversity. MicrobiologyOpen, 2021, 10, e1142.	3.0	3
3	Role of Vitamins in Maintaining Structure and Function of Intestinal Microbiome. , 2021, , .		1
4	Low-Rank Coal as a Source of Humic Substances for Soil Amendment and Fertility Management. Agriculture (Switzerland), 2021, 11, 1261.	3.1	17
5	Lignite Biosolubilization by Bacillus sp. RKB 2 and Characterization of its Products. Geomicrobiology Journal, 2020, 37, 255-261.	2.0	14
6	The Effect of Leonardite-Derived Amendments on Soil Microbiome Structure and Potato Yield. Agriculture (Switzerland), 2020, 10, 147.	3.1	25
7	Vitamin D and the Host-Gut Microbiome: A Brief Overview. Acta Histochemica Et Cytochemica, 2020, 53, 33-42.	1.6	61
8	Dental Plaque Removal by Ultrasonic Toothbrushes. Dentistry Journal, 2020, 8, 28.	2.3	21
9	Bacterial Cellulose Nanocomposites: Morphology and Mechanical Properties. Materials, 2020, 13, 2849.	2.9	44
10	Mechano-Pharmacological Testing of L-Type Ca2+ Channel Modulators via Human Vascular Celldrum Model. Cellular Physiology and Biochemistry, 2020, 54, 371-383.	1.6	2
11	Functionalization of Carbon Based Wound Dressings with Antimicrobial Phytoextracts for Bioactive Treatment of Septic Wounds. , 2020, , 211-227.		0
12	Synthesis, characterization, in vitro biocompatibility and antibacterial properties study of nanocomposite materials based on hydroxyapatite-biphasic ZnO micro- and nanoparticles embedded in Alginate matrix. Materials Science and Engineering C, 2019, 104, 109965.	7.3	83
13	Antimicrobial and wound healing properties of a bacterial cellulose based material containing B.Âsubtilis cells. Heliyon, 2019, 5, e02592.	3.2	44
14	Biological, Physical and Technical Basics of Cell Engineering. , 2018, , .		2
15	Microbial Sampling from Dry Surfaces: Current Challenges and Solutions. , 2018, , 421-456.		2
16	Suspension depletion approach for exemption of infected Solanum jasminoides cells from pospiviroids. Plant Pathology, 2018, 67, 358-365.	2.4	0
17	Physicochemical and Antibacterial Properties of Composite Films Based on Bacterial Cellulose and Chitosan for Wound Dressing Materials. Eurasian Chemico-Technological Journal, 2017, 19, 255.	0.6	14
18	Navigation technology for exploration of glacier ice with maneuverable melting probes. Cold Regions Science and Technology, 2016, 123, 53-70.	3.5	46

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19	A lander mission to probe subglacial water on Saturn×³s moon Enceladus for life. Acta Astronautica, 2015, 106, 63-89.	3.2	64
20	Use of Carbonized Rise Shell for the Local Treatment of Wounds. Eurasian Chemico-Technological Journal, 2015, 12, 133.	0.6	1
21	Feasibility of an In-Situ Microbial Decontamination of an Ice-Melting Probe. Eurasian Chemico-Technological Journal, 2015, 12, 145.	0.6	2
22	Bio-composite Material on the Basis of Carbonized Rice Husk in Biomedicine and Environmental Applications. Eurasian Chemico-Technological Journal, 2015, 14, 115.	0.6	0
23	IceMole: a maneuverable probe for clean in situ analysis and sampling of subsurface ice and subglacial aquatic ecosystems. Annals of Glaciology, 2014, 55, 14-22.	1.4	51
24	Phenotyping date palm varieties via leaflet cross-sectional imaging and artificial neural network application. BMC Bioinformatics, 2014, 15, 55.	2.6	7
25	Wound healing activity of heterogeneous composites on the basis of carbonized material. Journal of Biotechnology, 2014, 185, S103.	3.8	0
26	LPS adsorption by native and PEI-modified carbonized rice husk from protein solutions. Journal of Biotechnology, 2014, 185, S106-S107.	3.8	0
27	Effects of spermine NONOate and ATP on protein aggregation: light scattering evidences. BMC Biophysics, 2013, 6, 1.	4.4	11
28	Optical coherence tomography: A potential tool to predict premature rupture of fetal membranes. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2013, 227, 393-401.	1.8	6
29	Thermal fluctuations of haemoglobin from different species: adaptation to temperature via conformational dynamics. Journal of the Royal Society Interface, 2012, 9, 2845-2855.	3.4	37
30	rhAPC reduces the endothelial cell permeability via a decrease of contractile tensions induced by endothelial cells. Journal of Bioscience and Bioengineering, 2012, 114, 212-219.	2.2	1
31	Effects of spermine NONOate and ATP on the thermal stability of hemoglobin. BMC Biophysics, 2012, 5, 16.	4.4	1
32	Heterogeneous Composites on the Basis of Microbial Cells and Nanostructured Carbonized Sorbents. , 2012, , .		3
33	The Emperorâ€™s New Body: Seeking for a Blueprint of Limb Regeneration in Humans. , 2011, , 3-37.		0
34	Primary Thermosensory Events in Cells. Advances in Experimental Medicine and Biology, 2011, 704, 451-468.	1.6	16
35	Contractile tension and beating rates of self-exciting monolayers and 3D-tissue constructs of neonatal rat cardiomyocytes. Medical and Biological Engineering and Computing, 2010, 48, 59-65.	2.8	34
36	Hemoglobin senses body temperature. European Biophysics Journal, 2009, 38, 589-600.	2.2	20

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37	From Powder to Solution: Hydration Dependence of Human Hemoglobin Dynamics Correlated to Body Temperature. Biophysical Journal, 2009, 96, 5073-5081.	0.5	40
38	Oral Lead Exposure Induces Dysbacteriosis in Rats. Journal of Occupational Health, 2009, 51, 64-73.	2.1	15
39	Hemoglobin Dynamics in Red Blood Cells: Correlation to Body Temperature. Biophysical Journal, 2008, 95, 5449-5461.	0.5	85
40	Hemoglobin Senses Body Temperature. , 2008, , 415-447.		1
41	Cytoplasmic Water and Hydration Layer Dynamics in Human Red Blood Cells. Journal of the American Chemical Society, 2008, 130, 16852-16853.	13.7	58
42	Molecular Processes in Biological Thermosensation. Journal of Biophysics, 2008, 2008, 1-9.	0.8	16
43	Controlling Microbial Adhesion: A Surface Engineering Approach. , 2008, , 601-623.		1
44	Structural transition temperature of hemoglobins correlates with speciesâ€™ body temperature. European Biophysics Journal, 2007, 37, 1-10.	2.2	22
45	Decrease in extracellular collagen crosslinking after NMR magnetic field application in skin fibroblasts. Medical and Biological Engineering and Computing, 2007, 45, 91-97.	2.8	13
46	Body Temperature-Related Structural Transitions of Monotremal and Human Hemoglobin. Biophysical Journal, 2006, 91, 3014-3021.	0.5	34
47	Bactericidal effects of plasma-generated cluster ions. Medical and Biological Engineering and Computing, 2005, 43, 800-807.	2.8	38
48	NMR in vitro effects on proliferation, apoptosis, and viability of human chondrocytes and osteoblasts. Methods and Findings in Experimental and Clinical Pharmacology, 2005, 27, 391.	0.8	12
49	Evaluation of Lateral Mechanical Tension in Thin-Film Tissue Constructs. Annals of Biomedical Engineering, 2004, 32, 1243-1251.	2.5	21
50	Wound Healing Activity of Carbonized Rice Husk. Advanced Materials Research, 0, 602-604, 1196-1199.	0.3	1