

Ilya Digel

List of Publications by Year in descending order

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Version: 2024-02-01

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	Hemoglobin Dynamics in Red Blood Cells: Correlation to Body Temperature. <i>Biophysical Journal</i> , 2008, 95, 5449-5461.	0.5	85
2	Synthesis, characterization, in vitro biocompatibility and antibacterial properties study of nanocomposite materials based on hydroxyapatite-biphasic ZnO micro- and nanoparticles embedded in Alginate matrix. <i>Materials Science and Engineering C</i> , 2019, 104, 109965.	7.3	83
3	A lander mission to probe subglacial water on Saturn's moon Enceladus for life. <i>Acta Astronautica</i> , 2015, 106, 63-89.	3.2	64
4	Vitamin D and the Host-Gut Microbiome: A Brief Overview. <i>Acta Histochemica Et Cytochemica</i> , 2020, 53, 33-42.	1.6	61
5	Cytoplasmic Water and Hydration Layer Dynamics in Human Red Blood Cells. <i>Journal of the American Chemical Society</i> , 2008, 130, 16852-16853.	13.7	58
6	IceMole: a maneuverable probe for clean in situ analysis and sampling of subsurface ice and subglacial aquatic ecosystems. <i>Annals of Glaciology</i> , 2014, 55, 14-22.	1.4	51
7	Navigation technology for exploration of glacier ice with maneuverable melting probes. <i>Cold Regions Science and Technology</i> , 2016, 123, 53-70.	3.5	46
8	Antimicrobial and wound healing properties of a bacterial cellulose based material containing <i>B. Subtilis</i> cells. <i>Heliyon</i> , 2019, 5, e02592.	3.2	44
9	Bacterial Cellulose Nanocomposites: Morphology and Mechanical Properties. <i>Materials</i> , 2020, 13, 2849.	2.9	44
10	From Powder to Solution: Hydration Dependence of Human Hemoglobin Dynamics Correlated to Body Temperature. <i>Biophysical Journal</i> , 2009, 96, 5073-5081.	0.5	40
11	Bactericidal effects of plasma-generated cluster ions. <i>Medical and Biological Engineering and Computing</i> , 2005, 43, 800-807.	2.8	38
12	Thermal fluctuations of haemoglobin from different species: adaptation to temperature via conformational dynamics. <i>Journal of the Royal Society Interface</i> , 2012, 9, 2845-2855.	3.4	37
13	Body Temperature-Related Structural Transitions of Monotremal and Human Hemoglobin. <i>Biophysical Journal</i> , 2006, 91, 3014-3021.	0.5	34
14	Contractile tension and beating rates of self-exciting monolayers and 3D-tissue constructs of neonatal rat cardiomyocytes. <i>Medical and Biological Engineering and Computing</i> , 2010, 48, 59-65.	2.8	34
15	The Effect of Leonardite-Derived Amendments on Soil Microbiome Structure and Potato Yield. <i>Agriculture (Switzerland)</i> , 2020, 10, 147.	3.1	25
16	Structural transition temperature of hemoglobins correlates with species's body temperature. <i>European Biophysics Journal</i> , 2007, 37, 1-10.	2.2	22
17	Evaluation of Lateral Mechanical Tension in Thin-Film Tissue Constructs. <i>Annals of Biomedical Engineering</i> , 2004, 32, 1243-1251.	2.5	21
18	Dental Plaque Removal by Ultrasonic Toothbrushes. <i>Dentistry Journal</i> , 2020, 8, 28.	2.3	21

#	ARTICLE	IF	CITATIONS
19	Lignite biosolubilization and bioconversion by <i>Bacillus</i> sp.: the collation of analytical data. <i>Biofuels</i> , 2021, 12, 247-258.	2.4	21
20	Hemoglobin senses body temperature. <i>European Biophysics Journal</i> , 2009, 38, 589-600.	2.2	20
21	Low-Rank Coal as a Source of Humic Substances for Soil Amendment and Fertility Management. <i>Agriculture (Switzerland)</i> , 2021, 11, 1261.	3.1	17
22	Molecular Processes in Biological Thermosensation. <i>Journal of Biophysics</i> , 2008, 2008, 1-9.	0.8	16
23	Primary Thermosensory Events in Cells. <i>Advances in Experimental Medicine and Biology</i> , 2011, 704, 451-468.	1.6	16
24	Oral Lead Exposure Induces Dysbacteriosis in Rats. <i>Journal of Occupational Health</i> , 2009, 51, 64-73.	2.1	15
25	Lignite Biosolubilization by <i>Bacillus</i> sp. RKB 2 and Characterization of its Products. <i>Geomicrobiology Journal</i> , 2020, 37, 255-261.	2.0	14
26	Physicochemical and Antibacterial Properties of Composite Films Based on Bacterial Cellulose and Chitosan for Wound Dressing Materials. <i>Eurasian Chemico-Technological Journal</i> , 2017, 19, 255.	0.6	14
27	Decrease in extracellular collagen crosslinking after NMR magnetic field application in skin fibroblasts. <i>Medical and Biological Engineering and Computing</i> , 2007, 45, 91-97.	2.8	13
28	NMR in vitro effects on proliferation, apoptosis, and viability of human chondrocytes and osteoblasts. <i>Methods and Findings in Experimental and Clinical Pharmacology</i> , 2005, 27, 391.	0.8	12
29	Effects of spermine NONOate and ATP on protein aggregation: light scattering evidences. <i>BMC Biophysics</i> , 2013, 6, 1.	4.4	11
30	Phenotyping date palm varieties via leaflet cross-sectional imaging and artificial neural network application. <i>BMC Bioinformatics</i> , 2014, 15, 55.	2.6	7
31	Optical coherence tomography: A potential tool to predict premature rupture of fetal membranes. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2013, 227, 393-401.	1.8	6
32	Heterogeneous Composites on the Basis of Microbial Cells and Nanostructured Carbonized Sorbents. , 2012, , .		3
33	Epipelagic microbiome of the Small Aral Sea: Metagenomic structure and ecological diversity. <i>MicrobiologyOpen</i> , 2021, 10, e1142.	3.0	3
34	Biological, Physical and Technical Basics of Cell Engineering. , 2018, , .		2
35	Microbial Sampling from Dry Surfaces: Current Challenges and Solutions. , 2018, , 421-456.		2
36	Feasibility of an In-Situ Microbial Decontamination of an Ice-Melting Probe. <i>Eurasian Chemico-Technological Journal</i> , 2015, 12, 145.	0.6	2

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37	Mechano-Pharmacological Testing of L-Type Ca ²⁺ Channel Modulators via Human Vascular Cell Drum Model. Cellular Physiology and Biochemistry, 2020, 54, 371-383.	1.6	2
38	Hemoglobin Senses Body Temperature. , 2008, , 415-447.		1
39	Wound Healing Activity of Carbonized Rice Husk. Advanced Materials Research, 0, 602-604, 1196-1199.	0.3	1
40	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
41	Effects of spermine NONOate and ATP on the thermal stability of hemoglobin. BMC Biophysics, 2012, 5, 16.	4.4	1
42	Role of Vitamins in Maintaining Structure and Function of Intestinal Microbiome. , 2021, , .		1
43	Use of Carbonized Rice Shell for the Local Treatment of Wounds. Eurasian Chemico-Technological Journal, 2015, 12, 133.	0.6	1
44	Controlling Microbial Adhesion: A Surface Engineering Approach. , 2008, , 601-623.		1
45	The Emperor's New Body: Seeking for a Blueprint of Limb Regeneration in Humans. , 2011, , 3-37.		0
46	Wound healing activity of heterogeneous composites on the basis of carbonized material. Journal of Biotechnology, 2014, 185, S103.	3.8	0
47	LPS adsorption by native and PEI-modified carbonized rice husk from protein solutions. Journal of Biotechnology, 2014, 185, S106-S107.	3.8	0
48	Suspension depletion approach for exemption of infected <i>Solanum jasminoides</i> cells from poxviruses. Plant Pathology, 2018, 67, 358-365.	2.4	0
49	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
50	Functionalization of Carbon Based Wound Dressings with Antimicrobial Phytoextracts for Bioactive Treatment of Septic Wounds. , 2020, , 211-227.		0