

Serge Ostrovidov

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.

48
papers

2,745
citations

27
h-index

49
g-index

49
ext. papers

3,170
ext. citations

8.1
avg, IF

4.77
L-index

#	Paper	IF	Citations
48	Gradient biomaterials for soft-to-hard interface tissue engineering. <i>Acta Biomaterialia</i> , 2011 , 7, 1441-51	10.8	295
47	Dielectrophoretically aligned carbon nanotubes to control electrical and mechanical properties of hydrogels to fabricate contractile muscle myofibers. <i>Advanced Materials</i> , 2013 , 25, 4028-34	24	200
46	Engineered contractile skeletal muscle tissue on a microgrooved methacrylated gelatin substrate. <i>Tissue Engineering - Part A</i> , 2012 , 18, 2453-65	3.9	169
45	Hybrid hydrogels containing vertically aligned carbon nanotubes with anisotropic electrical conductivity for muscle myofiber fabrication. <i>Scientific Reports</i> , 2014 , 4, 4271	4.9	165
44	Skeletal muscle tissue engineering: methods to form skeletal myotubes and their applications. <i>Tissue Engineering - Part B: Reviews</i> , 2014 , 20, 403-36	7.9	164
43	The bioprinting roadmap. <i>Biofabrication</i> , 2020 , 12, 022002	10.5	137
42	Gelatin methacrylate as a promising hydrogel for 3D microscale organization and proliferation of dielectrophoretically patterned cells. <i>Lab on A Chip</i> , 2012 , 12, 2959-69	7.2	135
41	3D Bioprinting in Skeletal Muscle Tissue Engineering. <i>Small</i> , 2019 , 15, e1805530	11	113
40	Advances and Future Perspectives in 4D Bioprinting. <i>Biotechnology Journal</i> , 2018 , 13, e1800148	5.6	109
39	Membrane-based PDMS microbio reactor for perfused 3D primary rat hepatocyte cultures. <i>Biomedical Microdevices</i> , 2004 , 6, 279-87	3.7	107
38	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. <i>Advanced Functional Materials</i> , 2015 , 25, 2250-2259	15.6	104
37	Myotube formation on gelatin nanofibers - multi-walled carbon nanotubes hybrid scaffolds. <i>Biomaterials</i> , 2014 , 35, 6268-77	15.6	93
36	Bioconjugated Hydrogels for Tissue Engineering and Regenerative Medicine. <i>Bioconjugate Chemistry</i> , 2015 , 26, 1984-2001	6.3	90
35	Interdigitated array of Pt electrodes for electrical stimulation and engineering of aligned muscle tissue. <i>Lab on A Chip</i> , 2012 , 12, 3491-503	7.2	89
34	Engineered nanomembranes for directing cellular organization toward flexible biodevices. <i>Nano Letters</i> , 2013 , 13, 3185-92	11.5	78
33	Screening of new antioxidant molecules using flow cytometry. <i>Journal of Medicinal Chemistry</i> , 2000 , 43, 1762-9	8.3	62
32	Three-dimensional co-culture of C2C12/PC12 cells improves skeletal muscle tissue formation and function. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 582-595	4.4	55

31	Electrical stimulation as a biomimicry tool for regulating muscle cell behavior. <i>Organogenesis</i> , 2013 , 9, 87-92	1.7	53
30	Gelatin-Polyaniline Composite Nanofibers Enhanced Excitation-Contraction Coupling System Maturation in Myotubes. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 42444-42458	9.5	47
29	Stretchable and micropatterned membrane for osteogenic differentiation of stem cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 11915-23	9.5	44
28	Enhanced skeletal muscle formation on microfluidic spun gelatin methacryloyl (GelMA) fibres using surface patterning and agrin treatment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 2151-2163	4.4	39
27	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. <i>Advanced Functional Materials</i> , 2020 , 30, 2000086	15.6	38
26	A microfluidic-based neurotoxin concentration gradient for the generation of an in vitro model of Parkinson's disease. <i>Biomicrofluidics</i> , 2011 , 5, 22214	3.2	38
25	Spatial coordination of cell orientation directed by nanoribbon sheets. <i>Biomaterials</i> , 2015 , 53, 86-94	15.6	32
24	Stem Cell Differentiation Toward the Myogenic Lineage for Muscle Tissue Regeneration: A Focus on Muscular Dystrophy. <i>Stem Cell Reviews and Reports</i> , 2015 , 11, 866-84	6.4	32
23	Controlled release of drugs from gradient hydrogels for high-throughput analysis of cell-drug interactions. <i>Analytical Chemistry</i> , 2012 , 84, 1302-9	7.8	32
22	A contactless electrical stimulator: application to fabricate functional skeletal muscle tissue. <i>Biomedical Microdevices</i> , 2013 , 15, 109-15	3.7	31
21	Microfluidic generation of polydopamine gradients on hydrophobic surfaces. <i>Langmuir</i> , 2014 , 30, 832-8	4	26
20	Online Monitoring of Superoxide Anions Released from Skeletal Muscle Cells Using an Electrochemical Biosensor Based on Thick-Film Nanoporous Gold. <i>ACS Sensors</i> , 2016 , 1, 921-928	9.2	24
19	Integration of a pump and an electrical sensor into a membrane-based PDMS microbio reactor for cell culture and drug testing. <i>Biomedical Microdevices</i> , 2011 , 13, 847-64	3.7	18
18	Macroporous mesh of nanoporous gold in electrochemical monitoring of superoxide release from skeletal muscle cells. <i>Biosensors and Bioelectronics</i> , 2017 , 88, 41-47	11.8	15
17	Probing stem cell differentiation using atomic force microscopy. <i>Applied Surface Science</i> , 2016 , 366, 254-259	4.59	14
16	Effects of H ₂ O ₂ on the growth, secretion, and metabolism of hybridoma cells in culture. <i>In Vitro Cellular and Developmental Biology - Animal</i> , 1998 , 34, 259-64	2.6	13
15	Development of Flexible Cell-Loaded Ultrathin Ribbons for Minimally Invasive Delivery of Skeletal Muscle Cells. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 579-589	5.5	12
14	Biomimetic microfluidic device for in vitro antihypertensive drug evaluation. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2009-15	5.6	12

13	Biodegradable Implantable Sensors: Materials Design, Fabrication, and Applications. <i>Advanced Functional Materials</i> , 2104149	15.6	10
12	Micro- and Nanoengineering Approaches to Developing Gradient Biomaterials Suitable for Interface Tissue Engineering 2013 , 52-79		8
11	3D Printing of Micro- and Nanoscale Bone Substitutes: A Review on Technical and Translational Perspectives. <i>International Journal of Nanomedicine</i> , 2021 , 16, 4289-4319	7.3	8
10	Normal Th1 development following long-term therapeutic blockade of CD154-CD40 in experimental autoimmune encephalomyelitis. <i>Journal of Clinical Investigation</i> , 2002 , 109, 233-41	15.9	7
9	Restoration of ethanol-compromised T(h)1 responses by sodium orthovanadate. <i>International Immunology</i> , 2002 , 14, 1239-45	4.9	6
8	Healthy and diseased models of vascular systems. <i>Lab on A Chip</i> , 2021 , 21, 641-659	7.2	5
7	Cell-laden alginate hydrogels for the treatment of diabetes. <i>Expert Opinion on Drug Delivery</i> , 2020 , 17, 1113-1118	8	4
6	Cardiac Differentiation of Mesenchymal Stem Cells: Impact of Biological and Chemical Inducers. <i>Stem Cell Reviews and Reports</i> , 2021 , 17, 1343-1361	7.3	3
5	Development of Silver-Based Bactericidal Composite Nanofibers by Airbrushing. <i>Journal of Nanoscience and Nanotechnology</i> , 2018 , 18, 2951-2955	1.3	2
4	Nanopatterning Techniques 2017 , 189-210		2
3	Biodegradable Implantable Sensors: Materials Design, Fabrication, and Applications (Adv. Funct. Mater. 49/2021). <i>Advanced Functional Materials</i> , 2021 , 31, 2170365	15.6	2
2	Dielectrophoresis, cell culture, and Electrical Impedance Spectroscopy Applied to Adherent Cells in a Single Biochip 2006 ,		1
1	Abstract of Poster Presentation. <i>Human Cell</i> , 2005 , 18, 43-65	4.5	