

Serge Ostrovidov

List of Publications by Year in descending order

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Version: 2024-02-01

46
papers

3,640
citations

172207

29
h-index

233125

45
g-index

49
all docs

49
docs citations

49
times ranked

5552
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient biomaterials for soft-to-hard interface tissue engineering. <i>Acta Biomaterialia</i> , 2011, 7, 1441-1451.	4.1	338
2	The bioprinting roadmap. <i>Biofabrication</i> , 2020, 12, 022002.	3.7	291
3	Dielectrophoretically Aligned Carbon Nanotubes to Control Electrical and Mechanical Properties of Hydrogels to Fabricate Contractile Muscle Myofibers. <i>Advanced Materials</i> , 2013, 25, 4028-4034.	11.1	236
4	Skeletal Muscle Tissue Engineering: Methods to Form Skeletal Myotubes and Their Applications. <i>Tissue Engineering - Part B: Reviews</i> , 2014, 20, 403-436.	2.5	218
5	Hybrid hydrogels containing vertically aligned carbon nanotubes with anisotropic electrical conductivity for muscle myofiber fabrication. <i>Scientific Reports</i> , 2014, 4, 4271.	1.6	213
6	Engineered Contractile Skeletal Muscle Tissue on a Microgrooved Methacrylated Gelatin Substrate. <i>Tissue Engineering - Part A</i> , 2012, 18, 2453-2465.	1.6	206
7	3D Bioprinting in Skeletal Muscle Tissue Engineering. <i>Small</i> , 2019, 15, e1805530.	5.2	192
8	Advances and Future Perspectives in 4D Bioprinting. <i>Biotechnology Journal</i> , 2018, 13, e1800148.	1.8	168
9	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.	3.1	148
10	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. <i>Advanced Functional Materials</i> , 2015, 25, 2250-2259.	7.8	130
11	Membrane-Based PDMS Microbioreactor for Perfused 3D Primary Rat Hepatocyte Cultures. <i>Biomedical Microdevices</i> , 2004, 6, 279-287.	1.4	115
12	Bioconjugated Hydrogels for Tissue Engineering and Regenerative Medicine. <i>Bioconjugate Chemistry</i> , 2015, 26, 1984-2001.	1.8	111
13	Myotube formation on gelatin nanofibers " Multi-walled carbon nanotubes hybrid scaffolds. <i>Biomaterials</i> , 2014, 35, 6268-6277.	5.7	109
14	Interdigitated array of Pt electrodes for electrical stimulation and engineering of aligned muscle tissue. <i>Lab on A Chip</i> , 2012, 12, 3491.	3.1	96
15	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.	7.8	91
16	Engineered Nanomembranes for Directing Cellular Organization Toward Flexible Biodevices. <i>Nano Letters</i> , 2013, 13, 3185-3192.	4.5	85
17	Screening of New Antioxidant Molecules Using Flow Cytometry. <i>Journal of Medicinal Chemistry</i> , 2000, 43, 1762-1769.	2.9	70
18	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.	1.3	70

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19	Electrical stimulation as a biomimicry tool for regulating muscle cell behavior. <i>Organogenesis</i> , 2013, 9, 87-92.	0.4	65
20	Gelatin-Polyaniline Composite Nanofibers Enhanced Excitation-Contraction Coupling System Maturation in Myotubes. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 42444-42458.	4.0	62
21	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.	1.3	53
22	Biodegradable Implantable Sensors: Materials Design, Fabrication, and Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2104149.	7.8	53
23	Stretchable and Micropatterned Membrane for Osteogenic Differentiation of Stem Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 11915-11923.	4.0	48
24	3D Printing of Micro- and Nanoscale Bone Substitutes: A Review on Technical and Translational Perspectives. <i>International Journal of Nanomedicine</i> , 2021, Volume 16, 4289-4319.	3.3	44
25	A microfluidic-based neurotoxin concentration gradient for the generation of an <i>in vitro</i> model of Parkinson's disease. <i>Biomicrofluidics</i> , 2011, 5, 22214.	1.2	43
26	Spatial coordination of cell orientation directed by nanoribbon sheets. <i>Biomaterials</i> , 2015, 53, 86-94.	5.7	39
27	Controlled Release of Drugs from Gradient Hydrogels for High-Throughput Analysis of Cell-Drug Interactions. <i>Analytical Chemistry</i> , 2012, 84, 1302-1309.	3.2	36
28	A contactless electrical stimulator: application to fabricate functional skeletal muscle tissue. <i>Biomedical Microdevices</i> , 2013, 15, 109-115.	1.4	35
29	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, 866-884.	5.6	35
30	Microfluidic Generation of Polydopamine Gradients on Hydrophobic Surfaces. <i>Langmuir</i> , 2014, 30, 832-838.	1.6	27
31	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.	4.0	27
32	Macroporous mesh of nanoporous gold in electrochemical monitoring of superoxide release from skeletal muscle cells. <i>Biosensors and Bioelectronics</i> , 2017, 88, 41-47.	5.3	27
33	Integration of a pump and an electrical sensor into a membrane-based PDMS microreactor for cell culture and drug testing. <i>Biomedical Microdevices</i> , 2011, 13, 847-864.	1.4	18
34	Probing stem cell differentiation using atomic force microscopy. <i>Applied Surface Science</i> , 2016, 366, 254-259.	3.1	18
35	Healthy and diseased <i>in vitro</i> models of vascular systems. <i>Lab on A Chip</i> , 2021, 21, 641-659.	3.1	18
36	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, 259-264.	0.7	15

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37	Biomimetic Microfluidic Device for in Vitro Antihypertensive Drug Evaluation. <i>Molecular Pharmaceutics</i> , 2014, 11, 2009-2015.	2.3	15
38	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.	2.6	15
39	Normal Th1 development following long-term therapeutic blockade of CD154-CD40 in experimental autoimmune encephalomyelitis. <i>Journal of Clinical Investigation</i> , 2002, 109, 233-241.	3.9	10
40	Cell-laden alginate hydrogels for the treatment of diabetes. <i>Expert Opinion on Drug Delivery</i> , 2020, 17, 1113-1118.	2.4	9
41	Cardiac Differentiation of Mesenchymal Stem Cells: Impact of Biological and Chemical Inducers. <i>Stem Cell Reviews and Reports</i> , 2021, 17, 1343-1361.	1.7	9
42	Restoration of ethanol-compromised Th1 responses by sodium orthovanadate. <i>International Immunology</i> , 2002, 14, 1239-1245.	1.8	6
43	Development of Silver-Based Bactericidal Composite Nanofibers by Airbrushing. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 2951-2955.	0.9	6
44	Biodegradable Implantable Sensors: Materials Design, Fabrication, and Applications (<i>Adv. Funct. Mater.</i>) Tj ETQq0 0,0,rgBT /Oyerlock 10	7.8	3
45	Dielectrophoresis, cell culture, and Electrical Impedance Spectroscopy Applied to Adherent Cells in a Single Biochip. , 2006, , .		1
46	Abstract of Poster Presentation. <i>Human Cell</i> , 2005, 18, 43-65.	1.2	0