

Sanjeev Kumar Mahto

List of Publications by Year in descending order

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49
papers

884
citations

516710

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501196

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1307
citing authors

#	ARTICLE	IF	CITATIONS
1	Converting CO ₂ into heterocyclic compounds under accelerated performance through Fe ₃ O ₄ -grafted ionic liquid catalysts. <i>New Journal of Chemistry</i> , 2022, 46, 2887-2897.	2.8	6
2	Recent developments of biomaterial scaffolds and regenerative approaches for craniomaxillofacial bone tissue engineering. <i>Journal of Polymer Research</i> , 2022, 29, 1.	2.4	15
3	Freeze-Thaw-Induced Physically Cross-linked Superabsorbent Polyvinyl Alcohol/Soy Protein Isolate Hydrogels for Skin Wound Dressing: In Vitro and In Vivo Characterization. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14033-14048.	8.0	33
4	Revisiting Methodologies for In Vitro Preparations of Advanced Glycation End Products. <i>Applied Biochemistry and Biotechnology</i> , 2022, 194, 2831-2855.	2.9	4
5	Fabrication and Characterization of Silk Fibroin-Based Nanofibrous Scaffolds Supplemented with Gelatin for Corneal Tissue Engineering. <i>Cells Tissues Organs</i> , 2021, 210, 173-194.	2.3	14
6	Fabrication and characterization of electrospun psyllium husk-based nanofibers for tissue regeneration. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50569.	2.6	3
7	Functional Behavior of the Primary Cortical Neuronal Cells on the Large Surface of TiO ₂ and SnO ₂ -Based Biosensing Device. <i>IEEE Transactions on Nanobioscience</i> , 2021, 20, 138-145.	3.3	4
8	Aluminium Oxide Thin-Film Based In Vitro Cell-Substrate Sensing Device for Monitoring Proliferation of Myoblast Cells. <i>IEEE Transactions on Nanobioscience</i> , 2021, 20, 331-337.	3.3	2
9	High-manganese and nitrogen stabilized austenitic stainless steel (Fe-18Cr-22Mn-0.65N): a material with a bright future for orthopedic implant devices. <i>Biomedical Materials (Bristol)</i> , 2021, 16, 065011.	3.3	6
10	Extended Large Area Si/ZnO Heterojunction Biosensor for Assessing Functional Behavior of Primary Cortical Neuronal Cells. <i>IEEE Sensors Journal</i> , 2021, 21, 14619-14626.	4.7	4
11	Printability assessment of psyllium husk (isabgol)/gelatin blends using rheological and mechanical properties. <i>Journal of Biomaterials Applications</i> , 2021, 35, 1132-1142.	2.4	5
12	Silica Release from Silane Cross-Linked Gelatin Based Hybrid Scaffold Affects Cell Proliferation. <i>ACS Applied Bio Materials</i> , 2020, 3, 197-207.	4.6	16
13	Comparative behaviour of electrospun nanofibers fabricated from acid and alkaline hydrolysed gelatin: towards corneal tissue engineering. <i>Journal of Polymer Research</i> , 2020, 27, 1.	2.4	9
14	Fabrication of MSM-Based Biosensing Device for Assessing Dynamic Behavior of Adherent Mammalian Cells. <i>IEEE Sensors Journal</i> , 2020, 20, 9652-9659.	4.7	6
15	Soy protein isolate supplemented silk fibroin nanofibers for skin tissue regeneration: Fabrication and characterization. <i>International Journal of Biological Macromolecules</i> , 2020, 160, 112-127.	7.5	52
16	Gelatin grafted poly(D,L-lactide) as an inhibitor of protein aggregation: An in vitro case study. <i>Biopolymers</i> , 2020, 111, e23383.	2.4	1
17	A portable standalone wireless electric cell-substrate impedance sensing (ECIS) system for assessing dynamic behavior of mammalian cells. <i>Journal of Analytical Science and Technology</i> , 2020, 11, .	2.1	9
18	Optimizing a detection method for estimating polyunsaturated fatty acid in human milk based on colorimetric sensors. <i>Materials Science for Energy Technologies</i> , 2019, 2, 624-628.	1.8	6

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19	Low density culture of mammalian primary neurons in compartmentalized microfluidic devices. <i>Biomedical Microdevices</i> , 2019, 21, 67.	2.8	1
20	Changes in electrolyte concentrations alter the impedance during ischemia-reperfusion injury in rat brain. <i>Physiological Measurement</i> , 2019, 40, 105004.	2.1	14
21	Fabrication and Cytocompatibility Evaluation of Psyllium Husk (Isabgol)/Gelatin Composite Scaffolds. <i>Applied Biochemistry and Biotechnology</i> , 2019, 188, 750-768.	2.9	20
22	Combined substrate micropatterning and FFT analysis reveals myotube size control and alignment by contact guidance. <i>Cytoskeleton</i> , 2019, 76, 269-285.	2.0	12
23	Culturing melanocytes and fibroblasts within three-dimensional macroporous PDMS scaffolds: towards skin dressing material. <i>Cytotechnology</i> , 2019, 71, 287-303.	1.6	29
24	Cell proliferation influenced by matrix compliance of gelatin grafted poly(d,l-Lactide) three dimensional scaffolds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 166, 170-178.	5.0	15
25	Easy and affordable method for rapid prototyping of tissue models in vitro using three-dimensional bioprinting. <i>Biocybernetics and Biomedical Engineering</i> , 2018, 38, 158-169.	5.9	31
26	In vitro biocompatibility analysis of functionalized poly(vinyl chloride)/layered double hydroxide nanocomposites. <i>RSC Advances</i> , 2018, 8, 40611-40620.	3.6	32
27	Development of optically sensitive liver cells. <i>Tissue and Cell</i> , 2018, 52, 129-134.	2.2	4
28	Tailored Chemical Properties of 4-Arm Star Shaped Poly(d,l-lactide) as Cell Adhesive Three-Dimensional Scaffolds. <i>Bioconjugate Chemistry</i> , 2017, 28, 1236-1250.	3.6	13
29	Pharmacokinetics, biodistribution, in vitro cytotoxicity and biocompatibility of Vitamin E TPGS coated trans resveratrol liposomes. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 145, 479-491.	5.0	96
30	Intravenous administration of trans-resveratrol-loaded TPGS-coated solid lipid nanoparticles for prolonged systemic circulation, passive brain targeting and improved in vitro cytotoxicity against C6 glioma cell lines. <i>RSC Advances</i> , 2016, 6, 50336-50348.	3.6	72
31	Real-Time Optical pH Sensor With CMOS Contact Imaging and Microfluidics. <i>IEEE Sensors Journal</i> , 2016, 16, 3611-3619.	4.7	5
32	Drug Screening: Microfluidic Chip for Site-Specific Neuropharmacological Treatment and Activity Probing of 3D Neuronal Optonetic Cultures (Adv. Healthcare Mater. 10/2015). <i>Advanced Healthcare Materials</i> , 2015, 4, 1477-1477.	7.6	0
33	Microfluidic Chip for Site-Specific Neuropharmacological Treatment and Activity Probing of 3D Neuronal Optonetic Cultures. <i>Advanced Healthcare Materials</i> , 2015, 4, 1478-1483.	7.6	11
34	Chemical modification of poly(vinyl chloride) for blood and cellular biocompatibility. <i>RSC Advances</i> , 2015, 5, 45231-45238.	3.6	25
35	Microfluidic platforms for advanced risk assessments of nanomaterials. <i>Nanotoxicology</i> , 2015, 9, 381-395.	3.0	47
36	Microfluidic shear stress-regulated surfactant secretion in alveolar epithelial type II cells in vitro. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 306, L672-L683.	2.9	26

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37	Respiratory Physiology on a Chip. <i>Scientifica</i> , 2012, 2012, 1-12.	1.7	15
38	Axon orientation by gradient of cytochalasin D inside microfluidic device. <i>Biochip Journal</i> , 2012, 6, 335-341.	4.9	2
39	A multi-inlet microfluidic device fabricated for in situ detection of multiple cytotoxicity endpoints. <i>Biochip Journal</i> , 2012, 6, 48-55.	4.9	2
40	Synthesis and evaluation of cytotoxic effects of hanultarin and its derivatives. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2011, 21, 6245-6248.	2.2	6
41	Functional synapse formation between compartmentalized cortical neurons cultured inside microfluidic devices. <i>Biochip Journal</i> , 2011, 5, 289-298.	4.9	3
42	Exposure of BALB/3T3 fibroblast cells to temporal concentration profile of toxicant inside microfluidic device. <i>Biochip Journal</i> , 2011, 5, 214-219.	4.9	11
43	Cytotoxic Potentials of Tellurium Nanowires in BALB/3T3 Fibroblast Cells. <i>Bulletin of the Korean Chemical Society</i> , 2011, 32, 3405-3410.	1.9	7
44	in vitromodels, endpoints and assessment methods for the measurement of cytotoxicity. <i>Toxicology and Environmental Health Sciences</i> , 2010, 2, 87-93.	2.1	18
45	Cytotoxic effects of surface-modified quantum dots on neuron-like PC12 cells cultured inside microfluidic devices. <i>Biochip Journal</i> , 2010, 4, 82-88.	4.9	23
46	A new perspective on <i>in vitro</i> assessment method for evaluating quantum dot toxicity by using microfluidics technology. <i>Biomicrofluidics</i> , 2010, 4, .	2.4	64
47	Assessment of cytocompatibility of surface-modified CdSe/ZnSe quantum dots for BALB/3T3 fibroblast cells. <i>Toxicology in Vitro</i> , 2010, 24, 1070-1077.	2.4	58
48	Multicompartmented microfluidic device for characterization of dose-dependent cadmium cytotoxicity in BALB/3T3 fibroblast cells. <i>Biomedical Microdevices</i> , 2009, 11, 401-411.	2.8	23
49	Fabrication and In Vitro Characterization of Luffa-based Composite Scaffolds Incorporated with Gelatin, Hydroxyapatite and Psyllium Husk for Bone Tissue Engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 0, , 1-24.	3.5	4