

Prasoon Kumar

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

290
citations

1040056

9
h-index

888059

17
g-index

22
all docs

22
docs citations

22
times ranked

418
citing authors

#	ARTICLE	IF	CITATIONS
1	Mathematical model of mechanical behavior of micro/nanofibrous materials designed for extracellular matrix substitutes. <i>Acta Biomaterialia</i> , 2012, 8, 4111-4122.	8.3	64
2	Engineering biomaterials to 3D-print scaffolds for bone regeneration: practical and theoretical consideration. <i>Biomaterials Science</i> , 2022, 10, 2789-2816.	5.4	44
3	Materials for Orthopedic Bioimplants: Modulating Degradation and Surface Modification Using Integrated Nanomaterials. <i>Coatings</i> , 2020, 10, 264.	2.6	43
4	Quest for cardiovascular interventions: precise modeling and 3D printing of heart valves. <i>Journal of Biological Engineering</i> , 2019, 13, 12.	4.7	22
5	Understanding the relation between structural and mechanical properties of electrospun fiber mesh through uniaxial tensile testing. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	2.6	20
6	Novel imidazopyrimidines-based molecules induce tetramerization of tumor pyruvate kinase M2 and exhibit potent antiproliferative profile. <i>European Journal of Pharmaceutical Sciences</i> , 2022, 170, 106112.	4.0	20
7	Automatic Landmark Identification in Lateral Cephalometric Images Using Optimized Template Matching. <i>Journal of Medical Imaging and Health Informatics</i> , 2015, 5, 458-470.	0.3	12
8	Insight into the Design and Fabrication of a Leaf-Mimicking Micropump. <i>Physical Review Applied</i> , 2019, 12, .	3.8	9
9	Tissue Regeneration through Cyber-Physical Systems and Microbots. <i>Advanced Functional Materials</i> , 2021, 31, 2009663.	14.9	9
10	A designer cell culture insert with a nanofibrous membrane toward engineering an epithelial tissue model validated by cellular nanomechanics. <i>Nanoscale Advances</i> , 2021, 3, 4714-4725.	4.6	9
11	Challenges and opportunities in blood flow through porous substrate: A design and interface perspective of dried blood spot. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 175, 112772.	2.8	8
12	Artificial intelligence and synthetic biology approaches for human gut microbiome. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, , 1-19.	10.3	8
13	A perspective on implantable biomedical materials and devices for diagnostic applications. <i>Current Opinion in Biomedical Engineering</i> , 2021, 18, 100287.	3.4	6
14	A scalable, lithography-less fabrication process for generating a bio-inspired, multi-scale channel network in polymers. <i>Biomedical Physics and Engineering Express</i> , 2017, 3, 045007.	1.2	4
15	Design and fabrication of thin microvascularised polymer matrices inspired from secondary lamellae of fish gills. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
16	Rapid and even spreading of complex fluids over a large area in porous substrates. <i>Applied Physics Letters</i> , 2020, 117, .	3.3	3
17	Technological advancement in dry blood matrix microsampling and its clinical relevance in quantitative drug analysis. <i>Bioanalysis</i> , 2020, 12, 1483-1501.	1.5	2
18	Design and finite element analysis of femoral stem prosthesis using functional graded materials. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2021, , 1-14.	1.6	2

#	ARTICLE	IF	CITATIONS
19	Image registration: A pre-step in patient's position verification in radiation therapy. , 2011, , .		1
20	Interfacing 3D micro/nanochannels with a branch-shaped reservoir enhances fluid and mass transport. Journal of Micromechanics and Microengineering, 2017, 27, 015026.	2.6	0