

John H Slater

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

838
citations

623734

14
h-index

580821

25
g-index

28
all docs

28
docs citations

28
times ranked

1405
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-Dimensional Biomimetic Patterning in Hydrogels to Guide Cellular Organization. <i>Advanced Materials</i> , 2012, 24, 2344-2348.	21.0	169
2	Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels. <i>Advanced Healthcare Materials</i> , 2016, 5, 2153-2160.	7.6	101
3	Brain Capillary Networks Across Species: A few Simple Organizational Requirements Are Sufficient to Reproduce Both Structure and Function. <i>Frontiers in Physiology</i> , 2019, 10, 233.	2.8	70
4	Fundamentals of Laser-Based Hydrogel Degradation and Applications in Cell and Tissue Engineering. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700681.	7.6	61
5	Engineered In Vitro Models of Tumor Dormancy and Reactivation. <i>Journal of Biological Engineering</i> , 2018, 12, 37.	4.7	51
6	Tunable hydrogels for controlling phenotypic cancer cell states to model breast cancer dormancy and reactivation. <i>Biomaterials</i> , 2019, 215, 119177.	11.4	50
7	Nanopatterning of fibronectin and the influence of integrin clustering on endothelial cell spreading and proliferation. <i>Journal of Biomedical Materials Research - Part A</i> , 2008, 87A, 176-195.	4.0	47
8	Fabrication of Multifaceted Micropatterned Surfaces with Laser Scanning Lithography. <i>Advanced Functional Materials</i> , 2011, 21, 2876-2888.	14.9	37
9	Progeny Clustering: A Method to Identify Biological Phenotypes. <i>Scientific Reports</i> , 2015, 5, 12894.	3.3	36
10	Biofabrication Strategies and Engineered In Vitro Systems for Vascular Mechanobiology. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901255.	7.6	35
11	Biomimetic Surface Patterning Promotes Mesenchymal Stem Cell Differentiation. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 21883-21892.	8.0	34
12	Modulation of Endothelial Cell Migration via Manipulation of Adhesion Site Growth Using Nanopatterned Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 4390-4400.	8.0	25
13	Reference-Free Traction Force Microscopy Platform Fabricated via Two-Photon Laser Scanning Lithography Enables Facile Measurement of Cell-Generated Forces. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 18233-18241.	8.0	22
14	Recapitulation and Modulation of the Cellular Architecture of a User-Chosen Cell of Interest Using Cell-Derived, Biomimetic Patterning. <i>ACS Nano</i> , 2015, 9, 6128-6138.	14.6	20
15	The Influence of Ligand Density and Degradability on Hydrogel Induced Breast Cancer Dormancy and Reactivation. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002227.	7.6	13
16	Fabrication of Multifaceted, Micropatterned Surfaces and Image-Guided Patterning Using Laser Scanning Lithography. <i>Methods in Cell Biology</i> , 2014, 119, 193-217.	1.1	11
17	The Influence of Matrix-Induced Dormancy on Metastatic Breast Cancer Chemoresistance. <i>ACS Applied Bio Materials</i> , 2020, 3, 5832-5844.	4.6	11
18	Microcontact printing for co-patterning cells and viruses for spatially controlled substrate-mediated gene delivery. <i>Soft Matter</i> , 2011, 7, 4993.	2.7	10

#	ARTICLE	IF	CITATIONS
19	Image-guided, Laser-based Fabrication of Vascular-derived Microfluidic Networks. <i>Journal of Visualized Experiments</i> , 2017, , .	0.3	8
20	Accurate flow in augmented networks (AFAN): an approach to generating three-dimensional biomimetic microfluidic networks with controlled flow. <i>Analytical Methods</i> , 2019, 11, 8-16.	2.7	8
21	Fabrication, characterization, and implementation of engineered hydrogels for controlling breast cancer cell phenotype and dormancy. <i>MethodsX</i> , 2019, 6, 2744-2766.	1.6	6
22	Datasets describing hydrogel properties and cellular metrics for modeling of tumor dormancy. <i>Data in Brief</i> , 2019, 25, 104128.	1.0	5
23	Tuning Hydrogel Adhesivity and Degradability to Model the Influence of Premetastatic Niche Matrix Properties on Breast Cancer Dormancy and Reactivation. <i>Advanced Biology</i> , 2022, 6, e2200012.	2.5	3
24	Biomimetic Microfluidic Networks: Fabrication of 3D Biomimetic Microfluidic Networks in Hydrogels (<i>Adv. Healthcare Mater.</i> 17/2016). <i>Advanced Healthcare Materials</i> , 2016, 5, 2152-2152.	7.6	1
25	Biomimetic Surfaces for Cell Engineering. <i>Springer Series in Biomaterials Science and Engineering</i> , 2016, , 543-569.	1.0	1
26	Patterning: Three-Dimensional Biomimetic Patterning in Hydrogels to Guide Cellular Organization (<i>Adv. Mater.</i> 17/2012). <i>Advanced Materials</i> , 2012, 24, 2343-2343.	21.0	0
27	Fabrication and Implementation of a Reference-Free Traction Force Microscopy Platform. <i>Journal of Visualized Experiments</i> , 2019, , .	0.3	0