

Akash Bachhuka

List of Publications by Year in Descending Order

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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.

35
papers

887
citations

16
h-index

29
g-index

37
ext. papers

1,081
ext. citations

6.5
avg, IF

4.2
L-index

#	Paper	IF	Citations
35	Surface chemistry mediated albumin adsorption, conformational changes and influence on innate immune responses. <i>Applied Surface Science</i> , 2022 , 596, 153518	6.7	0
34	Surface nanotopography mediated albumin adsorption, unfolding and modulation of early innate immune responses. <i>Materials Today Advances</i> , 2021 , 12, 100187	7.4	0
33	Chronic Obstructive Pulmonary Disease and the Cardiovascular System: Vascular Repair and Regeneration as a Therapeutic Target. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 649512	5.4	7
32	Synergistic Effect of Surface Chemistry and Surface Topography Gradient on Osteogenic/Adipogenic Differentiation of hMSCs. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 30306-30316	8.5	16
31	Plasma polymer surface modified expanded polytetrafluoroethylene promotes epithelial monolayer formation in vitro and can be transplanted into the dystrophic rat subretinal space. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021 , 15, 49-62	4.4	0
30	Mechanistic Insight in Surface Nanotopography Driven Cellular Migration. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4921-4932	5.5	0
29	Modulation of Macrophages Differentiation by Nanoscale-Engineered Geometric and Chemical Features.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1496-1505	4.1	3
28	Field Deployable Method for Gold Detection Using Gold Pre-Concentration on Functionalized Surfaces. <i>Sensors</i> , 2020 , 20,	3.8	1
27	Enhancing Forbidden Light Propagation in Nanoporous Anodic Alumina Gradient-Index Filters by Alcohol Additives. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12115-12129	5.6	3
26	Surface Functionalization of Exposed Core Glass Optical Fiber for Metal Ion Sensing. <i>Sensors</i> , 2019 , 19,	3.8	8
25	The co-effect of surface topography gradient fabricated via immobilization of gold nanoparticles and surface chemistry via deposition of plasma polymerized film of allylamine/acrylic acid on osteoblast-like cell behavior. <i>Applied Surface Science</i> , 2019 , 473, 838-847	6.7	9
24	Biosensing 2019 , 105-126		5
23	A Rationally Designed, Spiropyran-Based Chemosensor for Magnesium. <i>Chemosensors</i> , 2018 , 6, 17	4	8
22	A spiropyran with enhanced fluorescence: A bright, photostable and red-emitting calcium sensor. <i>Tetrahedron</i> , 2018 , 74, 1240-1244	2.4	13
21	Creating Nano-engineered Biomaterials with Well-Defined Surface Descriptors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2796-2807	5.6	24
20	Surface nanotopography guides kidney-derived stem cell differentiation into podocytes. <i>Acta Biomaterialia</i> , 2017 , 56, 171-180	10.8	24
19	The Interplay between Surface Nanotopography and Chemistry Modulates Collagen I and III Deposition by Human Dermal Fibroblasts. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5874-5884	9.5	16

18	Tuning Chemistry and Topography of Nanoengineered Surfaces to Manipulate Immune Response for Bone Regeneration Applications. <i>ACS Nano</i> , 2017 , 11, 4494-4506	16.7	153
17	Nanotopography mediated osteogenic differentiation of human dental pulp derived stem cells. <i>Nanoscale</i> , 2017 , 9, 14248-14258	7.7	23
16	The formation of a functional retinal pigment epithelium occurs on porous polytetrafluoroethylene substrates independently of the surface chemistry. <i>Journal of Materials Science: Materials in Medicine</i> , 2017 , 28, 124	4.5	2
15	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. <i>Nanoscale</i> , 2017 , 9, 18129-18152	7.7	77
14	Selective deposition of CaCO ₃ on chemical gradient surface generated by plasma polymerization and its effect on cell adhesion. <i>Materials Letters</i> , 2017 , 186, 90-93	3.3	2
13	The Role of Controlled Surface Topography and Chemistry on Mouse Embryonic Stem Cell Attachment, Growth and Self-Renewal. <i>Materials</i> , 2017 , 10,	3.5	14
12	The Role of Surface Nanotopography and Chemistry on Primary Neutrophil and Macrophage Cellular Responses. <i>Advanced Healthcare Materials</i> , 2016 , 5, 956-65	10.1	57
11	Inflammasome components ASC and AIM2 modulate the acute phase of biomaterial implant-induced foreign body responses. <i>Scientific Reports</i> , 2016 , 6, 20635	4.9	16
10	The contribution of inflammasome components on macrophage response to surface nanotopography and chemistry. <i>Scientific Reports</i> , 2016 , 6, 26207	4.9	29
9	Hybrid core/shell microparticles and their use for understanding biological processes. <i>Journal of Colloid and Interface Science</i> , 2015 , 457, 9-17	9.3	14
8	Effect of Surface Chemical Functionalities on Collagen Deposition by Primary Human Dermal Fibroblasts. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 23767-75	9.5	23
7	Surface Chemical Gradient Affects the Differentiation of Human Adipose-Derived Stem Cells via ERK1/2 Signaling Pathway. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18473-82	9.5	41
6	Innate Immunity and Biomaterials at the Nexus: Friends or Foes. <i>BioMed Research International</i> , 2015 , 2015, 342304	3	75
5	Surface modification by allylamine plasma polymerization promotes osteogenic differentiation of human adipose-derived stem cells. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9733-41	9.5	76
4	Controlled release and bioactivity of the monoclonal antibody rituximab from a porous matrix: A potential in situ therapeutic device. <i>Materials Letters</i> , 2014 , 130, 210-214	3.3	12
3	The influence of substrate stiffness gradients on primary human dermal fibroblasts. <i>Biomaterials</i> , 2013 , 34, 5070-7	15.6	71
2	Surface chemical functionalities affect the behavior of human adipose-derived stem cells in vitro. <i>Applied Surface Science</i> , 2013 , 270, 473-479	6.7	29
1	A substrate independent approach for generation of surface gradients. <i>Thin Solid Films</i> , 2013 , 528, 106-110	11.0	47

