

Akash Bachhuka

List of Publications by Citations

Source: <https://exaly.com/author-pdf/7781061/akash-bachhuka-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
34	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. <i>Nanoscale</i> , 2017 , 9, 18129-18152	7.7	77
33	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
32	Innate Immunity and Biomaterials at the Nexus: Friends or Foes. <i>BioMed Research International</i> , 2015 , 2015, 342304	3	75
31	The influence of substrate stiffness gradients on primary human dermal fibroblasts. <i>Biomaterials</i> , 2013 , 34, 5070-7	15.6	71
30	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
29	A substrate independent approach for generation of surface gradients. <i>Thin Solid Films</i> , 2013 , 528, 106-110	10	47
28	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
27	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
26	The contribution of inflammasome components on macrophage response to surface nanotopography and chemistry. <i>Scientific Reports</i> , 2016 , 6, 26207	4.9	29
25	Surface nanotopography guides kidney-derived stem cell differentiation into podocytes. <i>Acta Biomaterialia</i> , 2017 , 56, 171-180	10.8	24
24	Creating Nano-engineered Biomaterials with Well-Defined Surface Descriptors. <i>ACS Applied Nano Materials</i> , 2018 , 1, 2796-2807	5.6	24
23	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
22	Nanotopography mediated osteogenic differentiation of human dental pulp derived stem cells. <i>Nanoscale</i> , 2017 , 9, 14248-14258	7.7	23
21	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
20	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
19	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

18	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
17	A spiropyran with enhanced fluorescence: A bright, photostable and red-emitting calcium sensor. <i>Tetrahedron</i> , 2018 , 74, 1240-1244	2.4	13
16	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
15	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
14	Surface Functionalization of Exposed Core Glass Optical Fiber for Metal Ion Sensing. <i>Sensors</i> , 2019 , 19,	3.8	8
13	A Rationally Designed, Spiropyran-Based Chemosensor for Magnesium. <i>Chemosensors</i> , 2018 , 6, 17	4	8
12	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
11	Biosensing 2019 , 105-126		5
10	Modulation of Macrophages Differentiation by Nanoscale-Engineered Geometric and Chemical Features.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 1496-1505	4.1	3
9	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
8	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
7	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
6	Field Deployable Method for Gold Detection Using Gold Pre-Concentration on Functionalized Surfaces. <i>Sensors</i> , 2020 , 20,	3.8	1
5	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	9.5	16
4	Surface nanotopography mediated albumin adsorption, unfolding and modulation of early innate immune responses. <i>Materials Today Advances</i> , 2021 , 12, 100187	7.4	0
3	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
2	Mechanistic Insight in Surface Nanotopography Driven Cellular Migration. <i>ACS Biomaterials Science and Engineering</i> , 2021 , 7, 4921-4932	5.5	0
1	Surface chemistry mediated albumin adsorption, conformational changes and influence on innate immune responses. <i>Applied Surface Science</i> , 2022 , 596, 153518	6.7	0

