Jafar Hasan

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2853024/publications.pdf

Version: 2024-02-01

37 papers	4,703 citations	257450 24 h-index	345221 36 g-index
39 all docs	39 docs citations	39 times ranked	5251 citing authors

#	Article	IF	Citations
1	Antibacterial surfaces: the quest for a new generation of biomaterials. Trends in Biotechnology, 2013, 31, 295-304.	9.3	805
2	Natural Bactericidal Surfaces: Mechanical Rupture of Pseudomonas aeruginosa Cells by Cicada Wings. Small, 2012, 8, 2489-2494.	10.0	742
3	Bactericidal activity of black silicon. Nature Communications, 2013, 4, 2838.	12.8	731
4	Biophysical Model of Bacterial Cell Interactions with Nanopatterned Cicada Wing Surfaces. Biophysical Journal, 2013, 104, 835-840.	0.5	496
5	Surface topographical factors influencing bacterial attachment. Advances in Colloid and Interface Science, 2012, 179-182, 142-149.	14.7	285
6	Selective bactericidal activity of nanopatterned superhydrophobic cicada Psaltoda claripennis wing surfaces. Applied Microbiology and Biotechnology, 2013, 97, 9257-9262.	3.6	270
7	Recent advances in engineering topography mediated antibacterial surfaces. Nanoscale, 2015, 7, 15568-15575.	5.6	143
8	Engineering a nanostructured â€œsuper surfaceâ€•with superhydrophobic and superkilling properties. RSC Advances, 2015, 5, 44953-44959.	3.6	128
9	Nanoscale Topography on Black Titanium Imparts Multi-biofunctional Properties for Orthopedic Applications. Scientific Reports, 2017, 7, 41118.	3.3	111
10	Antiviral and Antibacterial Nanostructured Surfaces with Excellent Mechanical Properties for Hospital Applications. ACS Biomaterials Science and Engineering, 2020, 6, 3608-3618.	5.2	88
11	Multi-scale surface topography to minimize adherence and viability of nosocomial drug-resistant bacteria. Materials and Design, 2018, 140, 332-344.	7.0	87
12	Roughness Parameters for Standard Description of Surface Nanoarchitecture. Scanning, 2012, 34, 257-263.	1.5	65
13	Dual role of outer epicuticular lipids in determining the wettability of dragonfly wings. Colloids and Surfaces B: Biointerfaces, 2013, 106, 126-134.	5.0	64
14	Multi-biofunctional properties of three species of cicada wings and biomimetic fabrication of nanopatterned titanium pillars. Journal of Materials Chemistry B, 2019, 7, 1300-1310.	5.8	63
15	Molecular Organization of the Nanoscale Surface Structures of the Dragonfly Hemianax papuensis Wing Epicuticle. PLoS ONE, 2013, 8, e67893.	2.5	61
16	Physico-mechanical characterisation of cells using atomic force microscopy â€” Current research and methodologies. Journal of Microbiological Methods, 2011, 86, 131-139.	1.6	59
17	Nature Inspired Structured Surfaces for Biomedical Applications. Current Medicinal Chemistry, 2011, 18, 3367-3375.	2.4	59
18	Spatial Variations and Temporal Metastability of the Self-Cleaning and Superhydrophobic Properties of Damselfly Wings. Langmuir, 2012, 28, 17404-17409.	3.5	55

#	Article	IF	Citations
19	Antiviral Nanostructured Surfaces Reduce the Viability of SARS-CoV-2. ACS Biomaterials Science and Engineering, 2020, 6, 4858-4861.	5.2	52
20	Mechanics of Bacterial Interaction and Death on Nanopatterned Surfaces. Biophysical Journal, 2021, 120, 217-231.	0.5	51
21	Mimicking Insect Wings: The Roadmap to Bioinspiration. ACS Biomaterials Science and Engineering, 2019, 5, 3139-3160.	5.2	42
22	The influence of nanoscopically thin silver films on bacterial viability and attachment. Applied Microbiology and Biotechnology, 2011, 91, 1149-1157.	3.6	40
23	Bacterial attachment on sub-nanometrically smooth titanium substrata. Biofouling, 2013, 29, 163-170.	2.2	31
24	Hydrothermally etched titanium: a review on a promising mechano-bactericidal surface for implant applications. Materials Today Chemistry, 2021, 22, 100622.	3.5	27
25	High-spatial-resolution mapping of superhydrophobic cicada wing surface chemistry using infrared microspectroscopy and infrared imaging at two synchrotron beamlines. Journal of Synchrotron Radiation, 2013, 20, 482-489.	2.4	24
26	Bactericidal efficiency of micro- and nanostructured surfaces: a critical perspective. RSC Advances, 2021, 11, 1883-1900.	3.6	19
27	Engineering an in vitro organotypic model for studying cardiac hypertrophy. Colloids and Surfaces B: Biointerfaces, 2018, 165, 355-362.	5.0	18
28	A nanopillar array on black titanium prepared by reactive ion etching augments cardiomyogenic commitment of stem cells. Nanoscale, 2019, 11, 20766-20776.	5.6	13
29	Spiked Titanium Nanostructures That Inhibit Anaerobic Dental Pathogens. ACS Applied Nano Materials, 2022, 5, 12051-12062.	5.0	13
30	Wing wettability of Odonata species as a function of quantity of epicuticular waxes. Vibrational Spectroscopy, 2014, 75, 173-177.	2.2	12
31	Continuous-Flow Synthesis of Regioregular Poly(3-Hexylthiophene): Ultrafast Polymerization with High Throughput and Low Polydispersity Index. Journal of Flow Chemistry, 2014, 4, 206-210.	1.9	12
32	Evaluation of Particle Beam Lithography for Fabrication of Metallic Nano-structures. Procedia Manufacturing, 2019, 30, 261-267.	1.9	12
33	Trends in Bactericidal Nanostructured Surfaces: An Analytical Perspective. ACS Applied Bio Materials, 2021, 4, 7626-7642.	4.6	10
34	Nanomechanical tribological characterisation of nanostructured titanium alloy surfaces using AFM: A friction vs velocity study. Colloids and Surfaces B: Biointerfaces, 2022, 217, 112600.	5.0	7
35	A systematic approach towards biomimicry of nanopatterned cicada wings on titanium using electron beam lithography. Nanotechnology, 2021, 32, 065301.	2.6	6
36	Fabrication of Ti14Nb4Sn Alloys for Bone Tissue Engineering Applications. Key Engineering Materials, 0, 520, 214-219.	0.4	1

#	Article	IF	Citations
37	Influence of Titanium Alloying Element Substrata on Bacterial Adhesion. Advanced Materials Research, 2012, 535-537, 992-995.	0.3	1