

Jafar Hasan

List of Publications by Year in descending order

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papers

4,703
citations

257450

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39
all docs

39
docs citations

39
times ranked

5251
citing authors

#	ARTICLE	IF	CITATIONS
1	Spiked Titanium Nanostructures That Inhibit Anaerobic Dental Pathogens. ACS Applied Nano Materials, 2022, 5, 12051-12062.	5.0	13
2	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
3	Mechanics of Bacterial Interaction and Death on Nanopatterned Surfaces. Biophysical Journal, 2021, 120, 217-231.	0.5	51
4	Bactericidal efficiency of micro- and nanostructured surfaces: a critical perspective. RSC Advances, 2021, 11, 1883-1900.	3.6	19
5	A systematic approach towards biomimicry of nanopatterned cicada wings on titanium using electron beam lithography. Nanotechnology, 2021, 32, 065301.	2.6	6
6	Trends in Bactericidal Nanostructured Surfaces: An Analytical Perspective. ACS Applied Bio Materials, 2021, 4, 7626-7642.	4.6	10
7	Hydrothermally etched titanium: a review on a promising mechano-bactericidal surface for implant applications. Materials Today Chemistry, 2021, 22, 100622.	3.5	27
8	Antiviral Nanostructured Surfaces Reduce the Viability of SARS-CoV-2. ACS Biomaterials Science and Engineering, 2020, 6, 4858-4861.	5.2	52
9	Antiviral and Antibacterial Nanostructured Surfaces with Excellent Mechanical Properties for Hospital Applications. ACS Biomaterials Science and Engineering, 2020, 6, 3608-3618.	5.2	88
10	Evaluation of Particle Beam Lithography for Fabrication of Metallic Nano-structures. Procedia Manufacturing, 2019, 30, 261-267.	1.9	12
11	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
12	Mimicking Insect Wings: The Roadmap to Bioinspiration. ACS Biomaterials Science and Engineering, 2019, 5, 3139-3160.	5.2	42
13	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
14	Engineering an in vitro organotypic model for studying cardiac hypertrophy. Colloids and Surfaces B: Biointerfaces, 2018, 165, 355-362.	5.0	18
15	Multi-scale surface topography to minimize adherence and viability of nosocomial drug-resistant bacteria. Materials and Design, 2018, 140, 332-344.	7.0	87
16	Nanoscale Topography on Black Titanium Imparts Multi-biofunctional Properties for Orthopedic Applications. Scientific Reports, 2017, 7, 41118.	3.3	111
17	Engineering a nanostructured "super surface" with superhydrophobic and superkilling properties. RSC Advances, 2015, 5, 44953-44959.	3.6	128
18	Recent advances in engineering topography mediated antibacterial surfaces. Nanoscale, 2015, 7, 15568-15575.	5.6	143

#	ARTICLE	IF	CITATIONS
19	Wing wettability of Odonata species as a function of quantity of epicuticular waxes. <i>Vibrational Spectroscopy</i> , 2014, 75, 173-177.	2.2	12
20	Continuous-Flow Synthesis of Regioregular Poly(3-Hexylthiophene): Ultrafast Polymerization with High Throughput and Low Polydispersity Index. <i>Journal of Flow Chemistry</i> , 2014, 4, 206-210.	1.9	12
21	Bactericidal activity of black silicon. <i>Nature Communications</i> , 2013, 4, 2838.	12.8	731
22	Bacterial attachment on sub-nanometrically smooth titanium substrata. <i>Biofouling</i> , 2013, 29, 163-170.	2.2	31
23	Selective bactericidal activity of nanopatterned superhydrophobic cicada <i>Psaltoda claripennis</i> wing surfaces. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 9257-9262.	3.6	270
24	Biophysical Model of Bacterial Cell Interactions with Nanopatterned Cicada Wing Surfaces. <i>Biophysical Journal</i> , 2013, 104, 835-840.	0.5	496
25	Antibacterial surfaces: the quest for a new generation of biomaterials. <i>Trends in Biotechnology</i> , 2013, 31, 295-304.	9.3	805
26	Dual role of outer epicuticular lipids in determining the wettability of dragonfly wings. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 106, 126-134.	5.0	64
27	High-spatial-resolution mapping of superhydrophobic cicada wing surface chemistry using infrared microspectroscopy and infrared imaging at two synchrotron beamlines. <i>Journal of Synchrotron Radiation</i> , 2013, 20, 482-489.	2.4	24
28	Molecular Organization of the Nanoscale Surface Structures of the Dragonfly <i>Hemianax papuensis</i> Wing Epicuticle. <i>PLoS ONE</i> , 2013, 8, e67893.	2.5	61
29	Surface topographical factors influencing bacterial attachment. <i>Advances in Colloid and Interface Science</i> , 2012, 179-182, 142-149.	14.7	285
30	Influence of Titanium Alloying Element Substrata on Bacterial Adhesion. <i>Advanced Materials Research</i> , 2012, 535-537, 992-995.	0.3	1
31	Spatial Variations and Temporal Metastability of the Self-Cleaning and Superhydrophobic Properties of Damselfly Wings. <i>Langmuir</i> , 2012, 28, 17404-17409.	3.5	55
32	Roughness Parameters for Standard Description of Surface Nanoarchitecture. <i>Scanning</i> , 2012, 34, 257-263.	1.5	65
33	Natural Bactericidal Surfaces: Mechanical Rupture of <i>Pseudomonas aeruginosa</i> Cells by Cicada Wings. <i>Small</i> , 2012, 8, 2489-2494.	10.0	742
34	Physico-mechanical characterisation of cells using atomic force microscopy – Current research and methodologies. <i>Journal of Microbiological Methods</i> , 2011, 86, 131-139.	1.6	59
35	The influence of nanoscopically thin silver films on bacterial viability and attachment. <i>Applied Microbiology and Biotechnology</i> , 2011, 91, 1149-1157.	3.6	40
36	Nature Inspired Structured Surfaces for Biomedical Applications. <i>Current Medicinal Chemistry</i> , 2011, 18, 3367-3375.	2.4	59

#	ARTICLE	IF	CITATIONS
37	Fabrication of Ti14Nb4Sn Alloys for Bone Tissue Engineering Applications. Key Engineering Materials, 0, 520, 214-219.	0.4	1