

Reza Jafari

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,241
citations

257450

24
h-index

243625

44
g-index

52
all docs

52
docs citations

52
times ranked

2178
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of superhydrophobic coatings as a corrosion barrier: A review. <i>Surface and Coatings Technology</i> , 2018, 341, 40-56.	4.8	413
2	Superhydrophobic and icephobic surfaces prepared by RF-sputtered polytetrafluoroethylene coatings. <i>Applied Surface Science</i> , 2010, 257, 1540-1543.	6.1	187
3	Applications of Plasma Technology in Development of Superhydrophobic Surfaces. <i>Plasma Chemistry and Plasma Processing</i> , 2013, 33, 177-200.	2.4	125
4	Micro-nanostructured polymer surfaces using injection molding: A review. <i>Materials Today Communications</i> , 2017, 13, 126-143.	1.9	119
5	Ice repellency behaviour of superhydrophobic surfaces: Effects of atmospheric icing conditions and surface roughness. <i>Applied Surface Science</i> , 2015, 349, 211-218.	6.1	108
6	Fabrication of superhydrophobic nanostructured surface on Aluminum alloy. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 102, 195-199.	2.3	95
7	Development of silver nanoparticle loaded antibacterial polymer mesh using plasma polymerization process. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101A, 1121-1132.	4.0	79
8	Stable plasma polymerized acrylic acid coating deposited on polyethylene (PE) films in a low frequency discharge (70kHz). <i>Reactive and Functional Polymers</i> , 2006, 66, 1757-1765.	4.1	76
9	Wettability behaviour of RTV silicone rubber coated on nanostructured aluminium surface. <i>Applied Surface Science</i> , 2011, 257, 6489-6493.	6.1	74
10	Direct replication of micro-nanostructures in the fabrication of superhydrophobic silicone rubber surfaces by compression molding. <i>Applied Surface Science</i> , 2018, 458, 619-628.	6.1	72
11	Recent progress and challenges with 3D printing of patterned hydrophobic and superhydrophobic surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 1225-1238.	3.0	64
12	Control of the visible and UV light water splitting and photocatalysis of nitrogen doped TiO ₂ thin films deposited by reactive magnetron sputtering. <i>Applied Catalysis B: Environmental</i> , 2014, 144, 12-21.	20.2	59
13	Icephobicity and durability assessment of superhydrophobic surfaces: The role of surface roughness and the ice adhesion measurement technique. <i>Journal of Materials Processing Technology</i> , 2021, 288, 116883.	6.3	56
14	The ice repellency of plasma polymerized hexamethyldisiloxane coating. <i>Applied Surface Science</i> , 2013, 284, 459-463.	6.1	52
15	Advances in the Fabrication of Superhydrophobic Polymeric Surfaces by Polymer Molding Processes. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 9343-9363.	3.7	49
16	Recent progress in the anti-icing performance of slippery liquid-infused surfaces. <i>Progress in Organic Coatings</i> , 2021, 151, 106096.	3.9	43
17	A comparative study of the icephobic and self-cleaning properties of Teflon materials having different surface morphologies. <i>Journal of Materials Processing Technology</i> , 2020, 276, 116415.	6.3	42
18	An optimization of superhydrophobic polyvinylidene fluoride/zinc oxide materials using Taguchi method. <i>Applied Surface Science</i> , 2014, 288, 229-237.	6.1	38

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19	Evaluation of atmospheric-pressure plasma parameters to achieve superhydrophobic and self-cleaning HTV silicone rubber surfaces via a single-step, eco-friendly approach. <i>Surface and Coatings Technology</i> , 2019, 375, 100-111.	4.8	38
20	Durability enhancement of icephobic fluoropolymer film. <i>Journal of Coatings Technology Research</i> , 2016, 13, 405-412.	2.5	37
21	Robust icephobic, and anticorrosive plasma polymer coating. <i>Cold Regions Science and Technology</i> , 2018, 151, 89-93.	3.5	35
22	Potential use of smart coatings for icephobic applications: A review. <i>Surface and Coatings Technology</i> , 2021, 424, 127656.	4.8	30
23	Off-line sensor based on concentration-dependent multicolor fluorescent carbon dots for detecting pesticides. <i>Nano Structures Nano Objects</i> , 2021, 26, 100706.	3.5	27
24	Rigorous testing to assess the self-cleaning properties of an ultra-water-repellent silicone rubber surface. <i>Surface and Coatings Technology</i> , 2019, 374, 557-568.	4.8	24
25	Potential anti-icing applications of encapsulated phase change material-embedded coatings; a review. <i>Journal of Energy Storage</i> , 2020, 31, 101638.	8.1	24
26	Development of oligonucleotide microarray involving plasma polymerized acrylic acid. <i>Thin Solid Films</i> , 2009, 517, 5763-5768.	1.8	23
27	Fabrication of icephobic aluminium surfaces by atmospheric plasma jet polymerisation. <i>Surface Engineering</i> , 2019, 35, 450-455.	2.2	23
28	Hydrophobic and ice-phobic properties of self-assembled monolayers (SAMs) coatings on AA6061. <i>Progress in Organic Coatings</i> , 2016, 93, 41-45.	3.9	21
29	Improvement of the stability of plasma polymerized acrylic acid coating deposited on PS beads in a fluidized bed reactor. <i>Reactive and Functional Polymers</i> , 2011, 71, 520-524.	4.1	18
30	Development a simple method to create the superhydrophobic composite coatings. <i>Journal of Composite Materials</i> , 2013, 47, 3125-3129.	2.4	18
31	A Simple Method to Create Superhydrophobic Aluminium Surfaces. <i>Materials Science Forum</i> , 0, 706-709, 2874-2879.	0.3	17
32	Design strategies for antiviral coatings and surfaces: A review. <i>Applied Surface Science Advances</i> , 2022, 8, 100224.	6.8	17
33	Integration of experimental analysis and machine learning to predict drop behavior on superhydrophobic surfaces. <i>Chemical Engineering Journal</i> , 2021, 417, 127898.	12.7	16
34	Performance of a nanotextured superhydrophobic coating developed for high-voltage outdoor porcelain insulators. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 649, 129461.	4.7	16
35	Superhydrophobic Surface Elaboration Using Plasma Polymerization of Hexamethyldisiloxane (HMDSO). <i>Advanced Materials Research</i> , 0, 409, 783-787.	0.3	15
36	A non-fluorinated mechanochemically robust volumetric superhydrophobic nanocomposite. <i>Journal of Materials Science and Technology</i> , 2021, 66, 213-225.	10.7	15

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37	A review of plasma-based superhydrophobic textiles: theoretical definitions, fabrication, and recent developments. <i>Journal of Coatings Technology Research</i> , 2021, 18, 1635-1658.	2.5	13
38	Water-Repellency Enhancement of Nanostructured Plasma-Polymerized HMDSO Coatings Using Grey-Based Taguchi Method. <i>Nanoscience and Nanotechnology Letters</i> , 2013, 4, 369-374.	0.4	13
39	Evaluating the effect of processing parameters on the replication quality in the micro compression molding of silicone rubber. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1567-1575.	4.7	9
40	Temperature-dependent droplet impact dynamics of a water droplet on hydrophobic and superhydrophobic surfaces: An experimental and predictive machine learning-based study. <i>International Journal of Heat and Mass Transfer</i> , 2022, 195, 123190.	4.8	8
41	Simple Fabrication of Superhydrophobic Surfaces Using Atmospheric-Pressure Plasma. <i>Materials Science Forum</i> , 2018, 941, 1808-1814.	0.3	6
42	One-step fabrication of superhydrophobic nanocomposite with superior anticorrosion performance. <i>Progress in Organic Coatings</i> , 2022, 169, 106918.	3.9	6
43	Micro-Nanostructured Silicone Rubber Surfaces Using Compression Molding. <i>Materials Science Forum</i> , 2018, 941, 1802-1807.	0.3	5
44	On the icephobicity of damage-tolerant superhydrophobic bulk nanocomposites. <i>Soft Matter</i> , 2022, 18, 412-424.	2.7	5
45	Fabrication of liquid-infused textured surfaces (LITS): The effect of surface textures on anti-icing properties and durability. <i>Materials Today Communications</i> , 2022, 32, 103935.	1.9	4
46	Wetting and Self-Cleaning Properties of Silicone Rubber Surfaces Treated by Atmospheric Plasma Jet. , 2018, , .		3
47	Micro-Nanostructured Silicone Surfaces for Highvoltage Application. , 2018, , .		2
48	Development of a dual capsule self-healing silicone composite using silicone chemistry and poly(melamine-urea-formaldehyde) shells. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51670.	2.6	2
49	Effect of HMDSO flow rate in nitrogen atmospheric plasma on the superhydrophobic characteristics of organosilicon-based coatings. , 2016, , .		0
50	Superhydrophobic and Highly Oleophilic Polystyrene Fibers (PS) with Delayed Freezing Time and Effective Oil Adsorption. <i>Materials Science Forum</i> , 2018, 941, 2232-2236.	0.3	0