Gelareh Momen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5354159/publications.pdf

Version: 2024-02-01

49 papers	1,910 citations	279798 23 h-index	254184 43 g-index
49 all docs	49 docs citations	49 times ranked	1575 citing authors

#	Article	IF	Citations
1	Application of superhydrophobic coatings as a corrosion barrier: A review. Surface and Coatings Technology, 2018, 341, 40-56.	4.8	413
2	Micro-nanostructured polymer surfaces using injection molding: A review. Materials Today Communications, 2017, 13, 126-143.	1.9	119
3	Ice repellency behaviour of superhydrophobic surfaces: Effects of atmospheric icing conditions and surface roughness. Applied Surface Science, 2015, 349, 211-218.	6.1	108
4	Hydrogen storage by adsorption on activated carbon: Investigation of the thermal effects during the charging process. International Journal of Hydrogen Energy, 2007, 32, 1542-1553.	7.1	85
5	Wettability behaviour of RTV silicone rubber coated on nanostructured aluminium surface. Applied Surface Science, 2011, 257, 6489-6493.	6.1	74
6	Mechanisms of ice formation and propagation on superhydrophobic surfaces: A review. Advances in Colloid and Interface Science, 2020, 279, 102155.	14.7	74
7	Direct replication of micro-nanostructures in the fabrication of superhydrophobic silicone rubber surfaces by compression molding. Applied Surface Science, 2018, 458, 619-628.	6.1	72
8	Facile approach in the development of icephobic hierarchically textured coatings as corrosion barrier. Applied Surface Science, 2014, 299, 41-46.	6.1	64
9	Recent progress and challenges with 3D printing of patterned hydrophobic and superhydrophobic surfaces. International Journal of Advanced Manufacturing Technology, 2019, 103, 1225-1238.	3.0	64
10	Icephobicity and durability assessment of superhydrophobic surfaces: The role of surface roughness and the ice adhesion measurement technique. Journal of Materials Processing Technology, 2021, 288, 116883.	6.3	56
11	Properties and applications of superhydrophobic coatings in high voltage outdoor insulation: A review. IEEE Transactions on Dielectrics and Electrical Insulation, 2017, 24, 3630-3646.	2.9	55
12	Performance improvement of EPDM and EPDM/Silicone rubber composites using modified fumed silica, titanium dioxide and graphene additives. Polymer Testing, 2020, 84, 106281.	4.8	53
13	Advances in the Fabrication of Superhydrophobic Polymeric Surfaces by Polymer Molding Processes. Industrial & Engineering Chemistry Research, 2020, 59, 9343-9363.	3.7	49
14	A ZnO-based nanocomposite coating with ultra water repellent properties. Applied Surface Science, 2012, 258, 5723-5728.	6.1	46
15	Dispersing graphene in aqueous media: Investigating the effect of different surfactants. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 582, 123870.	4.7	43
16	Recent progress in the anti-icing performance of slippery liquid-infused surfaces. Progress in Organic Coatings, 2021, 151, 106096.	3.9	43
17	A comparative study of the icephobic and self-cleaning properties of Teflon materials having different surface morphologies. Journal of Materials Processing Technology, 2020, 276, 116415.	6.3	42
18	Evaluation of atmospheric-pressure plasma parameters to achieve superhydrophobic and self-cleaning HTV silicone rubber surfaces via a single-step, eco-friendly approach. Surface and Coatings Technology, 2019, 375, 100-111.	4.8	38

#	Article	IF	Citations
19	Durability enhancement of icephobic fluoropolymer film. Journal of Coatings Technology Research, 2016, 13, 405-412.	2.5	37
20	Potential use of smart coatings for icephobic applications: A review. Surface and Coatings Technology, 2021, 424, 127656.	4.8	30
21	Experimental and numerical investigation of the thermal effects during hydrogen charging in packed bed storage tank. International Journal of Heat and Mass Transfer, 2009, 52, 1495-1503.	4.8	27
22	Transparent non-fluorinated superhydrophobic coating with enhanced anti-icing performance. Progress in Organic Coatings, 2022, 165, 106758.	3.9	25
23	Rigorous testing to assess the self-cleaning properties of an ultra-water-repellent silicone rubber surface. Surface and Coatings Technology, 2019, 374, 557-568.	4.8	24
24	Potential anti-icing applications of encapsulated phase change materialâ€“embedded coatings; a review. Journal of Energy Storage, 2020, 31, 101638.	8.1	24
25	Fabrication of icephobic aluminium surfaces by atmospheric plasma jet polymerisation. Surface Engineering, 2019, 35, 450-455.	2.2	23
26	Simple process to fabricate a superhydrophobic coating. Micro and Nano Letters, 2011, 6, 405.	1.3	22
27	Superhydrophobic and icephobic polyurethane coatings: Fundamentals, progress, challenges and opportunities. Progress in Organic Coatings, 2022, 165, 106715.	3.9	22
28	Icephobic properties of aqueous self-lubricating coatings containing PEG-PDMS copolymers. Progress in Organic Coatings, 2021, 161, 106466.	3.9	19
29	Design strategies for antiviral coatings and surfaces: A review. Applied Surface Science Advances, 2022, 8, 100224.	6.8	17
30	On the effect of process temperature on the performance of activated carbon bed hydrogen storage tank. International Journal of Thermal Sciences, 2010, 49, 1468-1476.	4.9	16
31	Performance of a nanotextured superhydrophobic coating developed for high-voltage outdoor porcelain insulators. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 649, 129461.	4.7	16
32	Hydrogen storage in an activated carbon bed: Effect of energy release on storage capacity of the tank. International Journal of Hydrogen Energy, 2009, 34, 3799-3809.	7.1	15
33	Development of a Stable TiO₂Nanocomposite Self-Cleaning Coating for Outdoor Applications. Advances in Materials Science and Engineering, 2016, 2016, 1-8.	1.8	15
34	A non-fluorinated mechanochemically robust volumetric superhydrophobic nanocomposite. Journal of Materials Science and Technology, 2021, 66, 213-225.	10.7	15
35	Enhancement in electrical and thermal performance of highâ€temperature vulcanized silicone rubber composites for outdoor insulating applications. Journal of Applied Polymer Science, 2020, 137, 49514.	2.6	10
36	Evaluating the effect of processing parameters on the replication quality in the micro compression molding of silicone rubber. Materials and Manufacturing Processes, 2020, 35, 1567-1575.	4.7	9

#	Article	IF	Citations
37	Formulation of nanohybrid coating based on essential oil and fluoroalkyl silane for antibacterial superhydrophobic surfaces. Applied Surface Science Advances, 2022, 9, 100252.	6.8	9
38	Simple Fabrication of Superhydrophobic Surfaces Using Atmospheric-Pressure Plasma. Materials Science Forum, 2018, 941, 1808-1814.	0.3	6
39	One-step fabrication of superhydrophobic nanocomposite with superior anticorrosion performance. Progress in Organic Coatings, 2022, 169, 106918.	3.9	6
40	Micro-Nanostructured Silicone Rubber Surfaces Using Compression Molding. Materials Science Forum, 2018, 941, 1802-1807.	0.3	5
41	On the icephobicity of damage-tolerant superhydrophobic bulk nanocomposites. Soft Matter, 2022, 18, 412-424.	2.7	5
42	Wetting and Self-Cleaning Properties of Silicone Rubber Surfaces Treated by Atmospheric Plasma Jet. , 2018, , .		3
43	Superhydrophobic micro-nanofibers from PHBV-SiO2 biopolymer composites produced by electrospinning. Functional Composite Materials, 2022, 3, .	1.4	3
44	A Multi-Tool Analysis to Assess the Effectiveness of Passive Ice Protection Materials to Assist Rotorcraft Manual De-Icing. Applied Sciences (Switzerland), 2021, 11, 11847.	2.5	3
45	Micro-Nanostructured Silicone Surfaces for Highvoltage Application. , 2018, , .		2
46	Development of a dual capsule selfâ€healing silicone composite using silicone chemistry and poly(melamineâ€ureaâ€formaldehyde) shells. Journal of Applied Polymer Science, 2022, 139, 51670.	2.6	2
47	Effect of filler concentration on dielectric properties of RTV silicone rubber/TiO<inf>2</inf> nanocomposite. , 2013, , .		1
48	Aircraft Anti-Icing Fluids Endurance Under Natural and Artificial Snow: a Comparative Study. International Review of Aerospace Engineering, 2022, 15, 1.	0.3	1
49	Superhydrophobic and Highly Oleophilic Polystyrene Fibers (PS) with Delayed Freezing Time and Effective Oil Adsorption. Materials Science Forum, 2018, 941, 2232-2236.	0.3	0