

Fluorine Based Superhydrophobic Coatings

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Special Feature Organo-Fluorine Chemical Science. Applied Sciences (Switzerland), 2012, 2, 558-565.	1.3	20
2	Development of water-repellent organic-inorganic hybrid sol-gel coatings on aluminum using short chain perfluoro polymer emulsion. Applied Surface Science, 2013, 283, 1051-1059.	3.1	67
3	Super-liquid-repellent coating on the carbon steel surface. Surface and Coatings Technology, 2013, 235, 241-249.	2.2	28
4	Corrosion resistance properties of superhydrophobic copper surfaces fabricated by one-step electrochemical modification process. Applied Surface Science, 2013, 282, 689-694.	3.1	118
5	Quadruply Hydrogen Bonding Modules as Highly Selective Nanoscale Adhesive Agents. Organic Letters, 2013, 15, 3506-3509.	2.4	24
6	Study on the adherence and superhydrophobicity of polypropylene composite coating on aluminum alloy substrate. Russian Journal of Applied Chemistry, 2014, 87, 1161-1166.	0.1	6
7	Enhancement of corrosion protection of 3-glycidoxypropyltrimethoxysilane-based sol-gel coating through methylthiourea doping. Journal of Coatings Technology Research, 2014, 11, 545-554.	1.2	17
8	Influence of silanes on the wettability of anodized titanium. Applied Surface Science, 2014, 292, 650-657.	3.1	34
9	Corrosion protection behaviour of sol-gel derived N,N-dimethylthiourea doped 3-glycidoxypropyltrimethoxysilane on aluminium. Progress in Organic Coatings, 2014, 77, 136-141.	1.9	25
10	Effect of the size of silica nanoparticles on wettability and surface chemistry of sol-gel superhydrophobic and oleophobic nanocomposite coatings. Applied Surface Science, 2014, 320, 780-786.	3.1	91
11	Towards new multifunctional coatings for organic photovoltaics. Solar Energy Materials and Solar Cells, 2014, 125, 127-132.	3.0	13
12	A facile and scalable method to produce superhydrophobic stainless steel surface. Applied Surface Science, 2014, 311, 753-757.	3.1	30
13	Hydrophobic, Water-Dispersible Polyurethane: Role of Polybutadiene Diol Structure. Industrial & Engineering Chemistry Research, 2015, 54, 7423-7435.	1.8	26
14	Fluoroalkylsilanes with Embedded Functional Groups as Building Blocks for Environmentally Safer Self-Assembled Monolayers. Langmuir, 2015, 31, 6988-6994.	1.6	13
15	Self-cleaning transparent superhydrophobic coatings through simple sol-gel processing of fluoroalkylsilane. Applied Surface Science, 2015, 351, 897-903.	3.1	208
16	Synthesis of some new fluorine substituted thiobarbituric acid derivatives as anti HIV1 and cyclin-dependent kinase 2 (CDK2) for cell tumor division: Part I. European Journal of Chemistry, 2015, 6, 63-70.	0.3	11
17	Electronic structure of fluorinated self-assembled monolayer investigated by photoelectron spectroscopy in the valence band region. Japanese Journal of Applied Physics, 2015, 54, 075202.	0.8	2
18	Facile preparation in two steps of highly hydrophobic coatings on polypropylene surface. Applied Surface Science, 2015, 347, 359-367.	3.1	21

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19	Study of the water repellency of the modified silica films using different organoalkoxysilanes. Applied Physics A: Materials Science and Processing, 2015, 119, 845-852.	1.1	9
20	Superhydrophobic aluminum alloy surfaces prepared by chemical etching process and their corrosion resistance properties. Applied Surface Science, 2015, 356, 1012-1024.	3.1	164
21	Nano-micro structured superhydrophobic zinc coating on steel for prevention of corrosion and ice adhesion. Journal of Colloid and Interface Science, 2015, 447, 240-247.	5.0	120
22	Studies of drag on the nanocomposite superhydrophobic surfaces. Applied Surface Science, 2015, 324, 525-531.	3.1	67
23	Membranes with Great Hydrophobicity: A Review on Preparation and Characterization. Separation and Purification Reviews, 2015, 44, 109-134.	2.8	134
24	Superhydrophobic Surfaces Created by Elastic Instability of PDMS. Applied Sciences (Switzerland), 2016, 6, 152.	1.3	27
25	Recent Advances in Superhydrophobic Electrodeposits. Materials, 2016, 9, 151.	1.3	67
26	Current state and prospects of development of technologies for the production of superhydrophobic materials and coatings. Nanotechnologies in Russia, 2016, 11, 679-695.	0.7	8
27	Development of a superhydrophobic polyurethane-based coating from a two-step plasma-fluoroalkyl silane treatment. International Journal of Adhesion and Adhesives, 2016, 68, 195-204.	1.4	35
28	Experimental research on wetting behavior of refrigerant-oil mixture on micro/nanostructured surface. International Journal of Refrigeration, 2016, 62, 207-221.	1.8	6
29	Fabrication of a superhydrophobic and oleophobic PTFE membrane: An application to selective gas permeation. Materials Research Bulletin, 2016, 83, 88-95.	2.7	27
30	Functionalized Hybrid Coatings on ABS Surfaces by PLD and Dip Coatings. Journal of Inorganic and Organometallic Polymers and Materials, 2016, 26, 895-906.	1.9	5
31	Preparation of stable superamphiphobic surfaces on X80 pipeline steel substrates. RSC Advances, 2016, 6, 91669-91678.	1.7	11
32	Recruiting physisorbed water in surface polymerization for bio-inspired materials of tunable hydrophobicity. Journal of Materials Chemistry A, 2016, 4, 14729-14738.	5.2	45
33	Fabrication of FDTS-modified PDMS-ZnO nanocomposite hydrophobic coating with anti-fouling capability for corrosion protection of Q235 steel. Journal of Colloid and Interface Science, 2016, 484, 220-228.	5.0	96
34	Negative Oxygen Ions Production by Superamphiphobic and Antibacterial TiO ₂ /Cu ₂ O Composite Film Anchored on Wooden Substrates. Scientific Reports, 2016, 6, 26055.	1.6	20
35	Sol-gel technology for innovative fabric finishing—A Review. Journal of Sol-Gel Science and Technology, 2016, 78, 698-707.	1.1	80
36	Amphiphobic nanocellulose-modified paper: fabrication and evaluation. RSC Advances, 2016, 6, 13328-13334.	1.7	26

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37	Prospects for the Application of Practical Drag Reduction Technologies to Legacy Transport Aircraft. , 2017, , .		7
38	Effects of surface fluoride-functionalizing of glass fiber on the properties of PTFE/glass fiber microwave composites. RSC Advances, 2017, 7, 22810-22817.	1.7	20
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40	Influence of fluorinated self-assembled monolayer on wetting dynamics during evaporation of refrigerant-oil mixture on metal surface. International Journal of Refrigeration, 2017, 79, 76-88.	1.8	4
41	Surface modification, characterization and corrosion protection of 1,3-diphenylthiourea doped sol-gel coating on aluminium. Progress in Organic Coatings, 2017, 111, 112-123.	1.9	31
42	Tribological properties and milling performance of HSS-Co-E tools with fluorinated surfactants-based coatings against Ti-6Al-4V. Wear, 2017, 376-377, 134-142.	1.5	18
43	Silicone based superhydrophobic coating efficient to reduce ice adhesion and accumulation on aluminum under offshore arctic conditions. Ocean Engineering, 2017, 144, 135-141.	1.9	27
44	Visualization of supramolecular framework of perfluorinated-oligomer colloid particles by supercritical drying. High Energy Chemistry, 2017, 51, 397-403.	0.2	1
45	Fluorinated Mesoporous Silica Nanoparticles for Binuclear Probes in ¹ H and ¹⁹ F Magnetic Resonance Imaging. Langmuir, 2017, 33, 10531-10542.	1.6	21
46	Corrosion and wettability of PEO coatings on magnesium by addition of potassium stearate. Journal of Magnesium and Alloys, 2017, 5, 210-216.	5.5	52
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55	Synthesis of superhydrophobic core-shell mesoporous silica nanoparticles. <i>Journal of Porous Materials</i> , 2018, 25, 1391-1399.	1.3	4
56	Fluorine-carbon doping of WS-based coatings deposited by reactive magnetron sputtering for low friction purposes. <i>Applied Surface Science</i> , 2018, 445, 575-585.	3.1	15
57	Quantum-dot light-emitting diodes with a perfluorinated ionomer-doped copper-nickel oxide hole transporting layer. <i>Nanoscale</i> , 2018, 10, 7281-7290.	2.8	8
58	Effect of perfluorodecyltrichlorosilane on the surface properties and anti-corrosion behavior of poly(dimethylsiloxane)-ZnO coatings. <i>Applied Surface Science</i> , 2018, 433, 1113-1127.	3.1	37
59	Removal of diazinon pesticide from aqueous solutions using MCM-41 type materials: isotherms, kinetics and thermodynamics. <i>International Journal of Environmental Science and Technology</i> , 2018, 15, 1301-1312.	1.8	23
61	Abrasion Resistance of Superhydrophobic Coatings on Aluminum Using PDMS/SiO ₂ . <i>Coatings</i> , 2018, 8, 414.	1.2	31
62	Fabrication of superhydrophobic cotton fabric with fluorinated TiO ₂ sol by a green and one-step sol-gel process. <i>Carbohydrate Polymers</i> , 2018, 197, 75-82.	5.1	130
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64	Durable superoleophobic-superhydrophilic fabrics with high anti-oil-fouling property. <i>RSC Advances</i> , 2018, 8, 26939-26947.	1.7	20
65	Design and fabrication of vapor-induced superhydrophobic surfaces obtained from polyethylene wax and silica nanoparticles in hierarchical structures. <i>RSC Advances</i> , 2018, 8, 25150-25158.	1.7	34
67	One-pot synthesis of ultrahydrophobic mesoporous silica nanoparticles. <i>Materials Research Express</i> , 2018, 5, 095030.	0.8	3
68	Superhydrophobic coating from fluoroalkylsilane modified natural rubber encapsulated SiO ₂ composites for self-driven oil/water separation. <i>Applied Surface Science</i> , 2018, 462, 164-174.	3.1	41
69	Highly stretchable superhydrophobic surface by silica nanoparticle embedded electrospun fibrous mat. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 532-540.	5.0	19
70	Sustainable, Fluorine-Free, Low Cost and Easily Processable Materials for Hydrophobic Coatings on Flexible Plastic Substrates. <i>Materials</i> , 2019, 12, 2234.	1.3	8
71	Probing the Stability of Superhydrophobic (SHP) Silane Coating on Anodized Ti Substrate Using Kelvin Probe Force Microscope (KPFM). <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 3045-3055.	0.7	4
72	Anticorrosive performance of AA6061 aluminium alloy treated with sol-gel coatings doped with mangrove bark tannins in 3.5 wt% NaCl. <i>Materials Research Express</i> , 2019, 6, 096417.	0.8	16
73	Superhydrophobic antibacterial polymer coatings. , 2019, , 245-279.		8
74	Single-Molecule Spectroscopy of Polyfluorene Chains Reveals β -Phase Content and Phase Reversibility in Organic Solvents. <i>Matter</i> , 2019, 1, 1399-1410.	5.0	6

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76	Effect of Various Surface Coatings on De-Icing/Anti-Icing Fluids Aerodynamic and Endurance Time Performances. <i>Aerospace</i> , 2019, 6, 114.	1.1	11
77	Template-Free One-Step Electrodeposition Method for Fabrication of Robust Superhydrophobic Coating on Ferritic Steel with Self-Cleaning Ability and Superior Corrosion Resistance. <i>Langmuir</i> , 2019, 35, 12665-12679.	1.6	79
78	Low Temperature Cure Siloxane Based Hybrid Renewable Cardanol Benzoxazine Composites for Coating Applications. <i>Journal of Polymers and the Environment</i> , 2019, 27, 2682-2696.	2.4	5
79	Superhydrophobicity on aluminum through reactive-etching and TEOS/GPTMS/nano-Al ₂ O ₃ silane-based nanocomposite coating. <i>Surface and Coatings Technology</i> , 2019, 374, 1078-1090.	2.2	43
80	Durable Self-Cleaning Surfaces with Superhydrophobic and Highly Oleophobic Properties. <i>Langmuir</i> , 2019, 35, 8404-8412.	1.6	121
81	Aerosol-assisted chemical vapour deposition of transparent superhydrophobic film by using mixed functional alkoxysilanes. <i>Scientific Reports</i> , 2019, 9, 7549.	1.6	41
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83	Preparation of low density organosilica monoliths containing hollow silica nanospheres as thermal insulation materials. <i>Materials Letters</i> , 2019, 250, 151-154.	1.3	12
84	Effect of surface modification on the properties of plasma-polymerized hexamethyldisiloxane thin films. <i>Surface and Interface Analysis</i> , 2019, 51, 754-762.	0.8	14
85	One-step ultrasound fabrication of corrosion resistant, self-cleaning and anti-icing coatings on aluminium. <i>Surface and Coatings Technology</i> , 2019, 369, 175-185.	2.2	24
86	Mask-less preparation of Janus particles through ultraviolet irradiation on hydrophobic particles assembled at the air-water interface. <i>Journal of Colloid and Interface Science</i> , 2019, 546, 285-292.	5.0	10
87	Recent progress in the preparation, properties and applications of superhydrophobic nano-based coatings and surfaces: A review. <i>Progress in Organic Coatings</i> , 2019, 132, 235-256.	1.9	292
88	Cavitation erosion behavior of super-hydrophobic coatings on Al5083 marine aluminum alloy. <i>Wear</i> , 2019, 424-425, 122-132.	1.5	32
89	A highly fluorinated SiO ₂ particle assembled, durable superhydrophobic and superoleophobic coating for both hard and soft materials. <i>Nanoscale</i> , 2019, 11, 18338-18346.	2.8	40
90	Nanostructured superhydrophobic coatings for solar panel applications. , 2019, , 397-424.		21
91	Investigating the effects of surface superhydrophobicity on moisture ingress of nanofiber-reinforced bio-composite structures. <i>Microsystem Technologies</i> , 2020, 26, 447-459.	1.2	29
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93	Synthesis and Characterization of Fluorocarbon from Rice Husk and its Application as an Efficient Sorbent for Micro-Solid-Phase Extraction of N-Nitrosamines in Desalinated Water Samples. <i>Chromatographia</i> , 2020, 83, 95-105.	0.7	4
94	Preparation and characterization of superhydrophobic and highly oleophobic FEVE-SiO ₂ nanocomposite coatings. <i>Progress in Organic Coatings</i> , 2020, 138, 105388.	1.9	16
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96	In situ Transesterification of Microalgae <i>Parachlorella kessleri</i> Biomass Using Sulfonated Rice Husk Solid Catalyst at Room Temperature. <i>Bioenergy Research</i> , 2020, 13, 530-541.	2.2	18
97	Facile construction of stable hydrophobic surface via covalent self-assembly of silane-terminated fluorinated polymer. <i>Applied Surface Science</i> , 2020, 507, 145138.	3.1	11
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99	Strongly Hydrophobic and Superoleophilic PMMA Based Nanocoated Cotton Fabrics. <i>Coatings</i> , 2020, 10, 943.	1.2	12
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101	Effect of hexagonal boron nitride on the coefficient of frictions of organic-inorganic hybrid polymer thin films for metal surface coatings. <i>Journal of Adhesion Science and Technology</i> , 2020, 34, 2200-2215.	1.4	1
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106	Effective Harmful Organism Management I: Fabrication of Facile and Robust Superhydrophobic Coating on Fabric. <i>Sustainability</i> , 2020, 12, 5876.	1.6	5
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108	Enhancing Hydrophobicity of Polymer Thin Film-Coated Surface by Wrinkling Method. <i>Macromolecular Research</i> , 2020, 28, 1104-1110.	1.0	7
109	Fabrication of Bacteria- and Blood-Repellent Superhydrophobic Polyurethane Sponge Materials. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 51160-51173.	4.0	46
110	Antibacterial and Antifungal Activities of PMMAs Implanted Fluorine and/or Silver Ions by Plasma-Based Ion Implantation with Argon. <i>Materials</i> , 2020, 13, 4525.	1.3	1

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111	Fluorine-Free Transparent Superhydrophobic Nanocomposite Coatings from Mesoporous Silica. <i>Langmuir</i> , 2020, 36, 13426-13438.	1.6	31
112	Roles of chemistry modification for laser textured metal alloys to achieve extreme surface wetting behaviors. <i>Materials and Design</i> , 2020, 192, 108744.	3.3	130
113	Hydrophobic porous BN/SiO ₂ @PU as ternary adsorbents for efficient oil/water separation. <i>Journal of Porous Materials</i> , 2020, 27, 1149-1158.	1.3	12
114	Influence of MgF ₂ nanoparticles in the plasma polymer fluorocarbon-based transparent nanocomposite thin films on the surface hardness properties. <i>Plasma Processes and Polymers</i> , 2020, 17, 2000064.	1.6	2
115	Superhydrophobic and antibacterial wood enabled by polydopamine-assisted decoration of copper nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 602, 125145.	2.3	54
116	Easy and Fast Fabrication of Self-Cleaning and Anti-Icing Perfluoroalkyl Silane Film on Aluminium. <i>Coatings</i> , 2020, 10, 234.	1.2	23
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118	Molecular Architectonics-Guided Fabrication of Superhydrophobic and Self-Cleaning Materials. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000246.	1.9	35
119	Spray coated superamphiphobic surface with hot water repellency and durable corrosion resistance. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 596, 124750.	2.3	36
120	Bioresin-based superhydrophobic coatings with reduced bacterial adhesion. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 20-32.	5.0	50
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124	Sol-Gel Thin Film Processing for Integrated Waveguide Sensors. <i>Frontiers in Materials</i> , 2021, 8, .	1.2	14
125	Fluorine-Free Superhydrophobic Surface by Single-Step-Synthesized Homogeneous Polymeric Raspberry Nanoparticle Coating. <i>ACS Applied Polymer Materials</i> , 2021, 3, 2138-2143.	2.0	3
126	Development of hydrophobic paper substrates using silane and sol-gel based processes and deriving the best coating technique using machine learning strategies. <i>Scientific Reports</i> , 2021, 11, 11352.	1.6	8
127	Porous Fluorocarbon from Rice Husk for the Efficient Separation of Gases. <i>Global Challenges</i> , 2021, 5, 2000124.	1.8	1
128	Janus Particle Preparation through UV-Induced Partial Photodegradation of Spin-Coated Particle Films. <i>Langmuir</i> , 2021, 37, 8167-8176.	1.6	2

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129	Preparation of multifunctional long-persistent photoluminescence cellulose fibres. <i>Luminescence</i> , 2021, 36, 1781-1792.	1.5	24
130	Are telechelic polysiloxanes better than hemi-telechelic for self-cleaning applications?. <i>Journal of Colloid and Interface Science</i> , 2021, 600, 174-186.	5.0	4
131	Low-surface-free-energy GO/FSiAC coating with self-healing function for anticorrosion and antifouling applications. <i>Surface and Coatings Technology</i> , 2021, 425, 127690.	2.2	14
132	Durable tetra-scale superhydrophobic coatings with virus-like nanoparticles for oil-water separations. <i>Applied Surface Science</i> , 2021, 570, 151088.	3.1	10
133	Facile Synthesis of Fluorine-Doped Hollow Mesoporous Carbon Nanospheres for Supercapacitor Application. <i>Macromolecular Research</i> , 2020, 28, 1304-1313.	1.0	5
134	Recent Advancements in Corrosion Protection of Magnesium Alloys by Silane-Based Sol-Gel Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 19840-19857.	1.8	36
135	Robust superhydrophobic polyurea@cellulose nanocrystal coating. <i>New Journal of Chemistry</i> , 2020, 44, 11739-11745.	1.4	6
136	Zinc oxide quantum dots embedded in hydrophobic silica particles for latent fingerprints visualization based on time-gated luminescence measurements. <i>Methods and Applications in Fluorescence</i> , 2020, 8, 025001.	1.1	9
137	Water-repellent glass coated with $\text{SiO}_2/\text{TiO}_2$ -methyltrimethoxysilane through sol-gel coating. <i>AIMS Materials Science</i> , 2019, 6, 10-24.	0.7	20
138	Three-dimensional Cu-Ni composite superamphiphobic surface via electrodeposition and fluorosilane modification. <i>Chinese Journal of Chemical Physics</i> , 2020, 33, 343-348.	0.6	0
139	Universal polysiloxane additives for UV curable self-cleaning engineered surfaces. <i>Progress in Organic Coatings</i> , 2022, 163, 106686.	1.9	2
140	The Influence of Adding a Functionalized Fluoroalkyl Silanes (PFDTES) into a Novel Silica-Based Hybrid Coating on Corrosion Protection Performance on an Aluminium 2024-t3 Alloy. <i>Materials Proceedings</i> , 2021, 7, 6.	0.2	2
141	Utilization of sodium silica from coal fly ash and trimethylchlorosilane as self-cleaning coating on glass. <i>IOP Conference Series: Earth and Environmental Science</i> , 2022, 963, 012058.	0.2	0
142	The Threshold Effect in Ozone-Induced Degradation of Superhydrophobic Coatings. <i>Technical Physics</i> , 2021, 66, 1100.	0.2	1
143	Interfacial induction and regulation for microscale crystallization process: a critical review. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 838-853.	2.3	3
144	A Facile Method for Processing Durable and Sustainable Superhydrophobic Chitosan-Based Coatings Derived from Waste Crab Shell. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4694-4704.	3.2	28
145	The effect of surface chemistry on anti-soiling properties of transparent perfluoroalkyl and alkyl modified silica coatings. <i>Surfaces and Interfaces</i> , 2022, 30, 101824.	1.5	6
146	Optimization of the Rework of Bended OLED Displays by Surface-Energy Control. <i>Coatings</i> , 2021, 11, 1523.	1.2	1

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147	Aluminum anodizing with simultaneous silanization for increased hydrophobicity and corrosion protection. <i>Applied Surface Science</i> , 2022, 593, 153392.	3.1	12
148	Superhydrophobic and superhydrophilic polyurethane sponge for wound healing. <i>Chemical Engineering Journal</i> , 2022, 446, 136985.	6.6	36
149	Synthesis of Hybrid PVDF/PTFE Membrane Using Nonhazardous Solvent for Ethanol/Water Separation through Membrane Distillation. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2022, 26, .	1.2	4
150	Metal surface wettability modification by nanosecond laser surface texturing: A review. <i>Biosurface and Biotribology</i> , 2022, 8, 95-120.	0.6	19
151	Organosilanes/Silicon-Based Nanocomposites as Corrosion Inhibitors. <i>ACS Symposium Series</i> , 0, , 271-290.	0.5	0
152	Exploring the protection mechanism of a combined fluoropolymer coating on sulphide patinated bronze. <i>Progress in Organic Coatings</i> , 2022, 172, 107071.	1.9	6
153	Preparation of silica-epoxy superhydrophobic coating with mechanical stability and multifunctional performance via one-step approach. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 653, 129957.	2.3	12
154	Anti-Adhesive Organosilane Coating Comprising Visibility on Demand. <i>Polymers</i> , 2022, 14, 4006.	2.0	1
155	Superhydrophobic sponge decorated with hydrophobic MOF-5 nanocoating for efficient oil-water separation and antibacterial applications. <i>Sustainable Materials and Technologies</i> , 2022, 33, e00492.	1.7	9
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