

Candle Soot as a Template for a Transparent Robust Sup

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Citation Report

#	ARTICLE	IF	CITATIONS
5	The Frontier of Inorganic Synthesis and Preparative Chemistry (I)â€”Biomimetic Synthesis. , 2011, , 525-553.		3
6	Dynamics of liquid droplets in an evaporating drop: liquid droplet â€œcoffee stainâ€•effect. RSC Advances, 2012, 2, 8390.	1.7	20
7	Smooth, transparent and nonperfluorinated surfaces exhibiting unusual contact angle behavior toward organic liquids. RSC Advances, 2012, 2, 9805.	1.7	50
8	Graphene oxide/titania hybrid films with dual-UV-responsive surfaces of tunable wettability. RSC Advances, 2012, 2, 10829.	1.7	15
9	Electrokinetics on superhydrophobic surfaces. Journal of Physics Condensed Matter, 2012, 24, 464110.	0.7	21
10	A Physical Approach To Specifically Improve the Mobility of Alkane Liquid Drops. Journal of the American Chemical Society, 2012, 134, 10191-10199.	6.6	151
11	How To Reduce Resistance to Movement of Alkane Liquid Drops Across Tilted Surfaces Without Relying on Surface Roughening and Perfluorination. Langmuir, 2012, 28, 17681-17689.	1.6	50
12	The Power of Perfluorinated Amphiphilic Polymers at Interfaces. ACS Symposium Series, 2012, , 111-126.	0.5	2
13	Patterned superhydrophobic surface based on Pd-based metallic glass. Applied Physics Letters, 2012, 101, 081601.	1.5	48
14	Stabilization of Leidenfrost vapour layer by textured superhydrophobic surfaces. Nature, 2012, 489, 274-277.	13.7	467
15	New Nanotech from an Ancient Material: Chemistry Demonstrations Involving Carbon-Based Soot. Journal of Chemical Education, 2012, 89, 1280-1287.	1.1	28
16	Preparation and anti-icing of superhydrophobic PVDF coating on a wind turbine blade. Applied Surface Science, 2012, 259, 764-768.	3.1	120
17	Recent developments in superhydrophobic surfaces with unique structural and functional properties. Soft Matter, 2012, 8, 11217.	1.2	342
18	Synthesis of superamphiphobic breathable membranes utilizing SiO ₂ nanoparticles decorated fluorinated polyurethane nanofibers. Nanoscale, 2012, 4, 7549.	2.8	86
19	Robust superomniphobic surfaces with mushroom-like micropillar arrays. Soft Matter, 2012, 8, 8563.	1.2	116
20	Bio-inspired special wetting surfaces via self-assembly. Science China Chemistry, 2012, 55, 2327-2333.	4.2	37
21	Superoleophobic Surfaces through Control of Sprayed-on Stochastic Topography. Langmuir, 2012, 28, 9834-9841.	1.6	75
22	Wetting on the Microscale: Shape of a Liquid Drop on a Microstructured Surface at Different Length Scales. Langmuir, 2012, 28, 8392-8398.	1.6	74

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24	Living anionic polymerization of a block copolymer and the preparation of superhydrophobic surfaces based on the method of phase separation. <i>Polymer Journal</i> , 2013, 45, 125-128.	1.3	13
25	Transparency and damage tolerance of patternable omniphobic lubricated surfaces based on inverse colloidal monolayers. <i>Nature Communications</i> , 2013, 4, 2167.	5.8	339
26	Transparent and Hard Zirconia-Based Hybrid Coatings with Excellent Dynamic/Thermoresponsive Oleophobicity, Thermal Durability, and Hydrolytic Stability. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 7899-7905.	4.0	29
27	Additive-Free Digital Microfluidics. <i>Langmuir</i> , 2013, 29, 9024-9030.	1.6	23
28	Robust Superamphiphobic Film from Electrospun TiO ₂ Nanostructures. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 1527-1532.	4.0	127
29	Transparent Surface with Reversibly Switchable Wettability between Superhydrophobicity and Superhydrophilicity. <i>Langmuir</i> , 2013, 29, 10307-10312.	1.6	51
30	High performance flexible sensor based on inorganic nanomaterials. <i>Sensors and Actuators B: Chemical</i> , 2013, 176, 522-533.	4.0	77
31	Role of Statistical Properties of Randomly Rough Surfaces in Controlling Superhydrophobicity. <i>Langmuir</i> , 2013, 29, 599-609.	1.6	50
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33	Alkyl- and fluoroalkyltrialkoxysilanes for wettability modification. <i>Applied Surface Science</i> , 2013, 283, 453-459.	3.1	13
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43	Facile preparation of durable and robust superhydrophobic textiles by dip coating in nanocomposite solution of organosilanes. <i>Chemical Communications</i> , 2013, 49, 11509.	2.2	147
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57	Rational design and elaborate construction of surface nano-structures toward highly antireflective superamphiphobic coatings. <i>Journal of Materials Chemistry A</i> , 2013, 1, 8721.	5.2	37
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1119	Top-down Approach for Fabrication of Polymer Microspheres by Interfacial Engineering. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2020, 38, 1286-1293.	2.0	3
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1193	Smart Superhydrophobic Surface with Restorable Microstructure and Self-Healable Surface Chemistry. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 5157-5165.	4.0	63
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1269	A Review on Solar Panel Cleaning Through Chemical Self-cleaning Method. <i>Lecture Notes in Mechanical Engineering</i> , 2021, , 835-844.	0.3	4
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1272	Superhydrophilic Coating of Pine Wood by Plasma Functionalization of Self-Assembled Polystyrene Spheres. <i>Coatings</i> , 2021, 11, 114.	1.2	6
1273	Laser Fabrication of Bioinspired Gradient Surfaces for Wettability Applications. <i>Advanced Materials Interfaces</i> , 2021, 8, 2001610.	1.9	48
1274	Polymer nanocomposite membranes for wastewater treatment. , 2021, , 605-672.		0
1275	Simple preparation of a durable and low-cost load-bearing three-dimensional porous material for emulsion separation. <i>New Journal of Chemistry</i> , 2021, 45, 17893-17901.	1.4	4
1276	Robust Superomniphobic Micro-Hyperbola Structures Formed by Capillary Wrapping of a Photocurable Liquid around Micropillars. <i>Advanced Functional Materials</i> , 2021, 31, 2010053.	7.8	10
1277	Preparation of transparent and hydrophobic cerium oxide films with stable mechanical properties by magnetron sputtering. <i>Vacuum</i> , 2021, 184, 109888.	1.6	13
1278	The Role of the Fiber/Bead Hierarchical Microstructure on the Properties of PVDF Coatings Deposited by Electrospinning. <i>Polymers</i> , 2021, 13, 464.	2.0	8
1279	Functional and versatile superhydrophobic coatings via stoichiometric silanization. <i>Nature Communications</i> , 2021, 12, 982.	5.8	132
1280	Charge Density Gradient Propelled Ultrafast Sweeping Removal of Dropwise Condensates. <i>Journal of Physical Chemistry B</i> , 2021, 125, 1936-1943.	1.2	18
1281	Hard yet Flexible Transparent Omniphobic GPOSS Coatings Modified with Perfluorinated Agents. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 10467-10479.	4.0	38
1282	Wetting, Adhesion, and Droplet Impact on Face Masks. <i>Langmuir</i> , 2021, 37, 2810-2815.	1.6	23
1283	Bioinspired Tunable Structural Color Film with Janus Wettability and Interfacial Floatability towards Visible Water Quality Monitoring. <i>Advanced Functional Materials</i> , 2021, 31, 2010406.	7.8	30
1284	Transparent Super-Repellent Surfaces with Low Haze and High Jet Impact Resistance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 13813-13821.	4.0	26
1285	Evaporation driven synthesis of supraparticles on liquid repellent surfaces. <i>Journal of Industrial and Engineering Chemistry</i> , 2021, 95, 170-181.	2.9	7
1286	Titanium Dioxide Derived Materials with Superwettability. <i>Catalysts</i> , 2021, 11, 425.	1.6	11
1287	Continuous Roll-to-Roll Production of Carbon Nanoparticles from Candle Soot. <i>Nano Letters</i> , 2021, 21, 3198-3204.	4.5	46
1288	Close to Real: Large-Volume 3D Cell Spheroids on a Superamphiphobic Surface. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100039.	1.9	6

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1290	The Roles of Membrane Technology in Artificial Organs: Current Challenges and Perspectives. <i>Membranes</i> , 2021, 11, 239.	1.4	33
1291	Robust Hybrid Omniphobic Surface for Stain Resistance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 14562-14568.	4.0	19
1292	Universal and Switchable Omni-Repellency of Liquid-Infused Surfaces for On-Demand Separation of Multiphase Liquid Mixtures. <i>ACS Nano</i> , 2021, 15, 6977-6986.	7.3	20
1293	Multifunctional superamphiphobic fluorinated silica with a core-shell structure for anti-fouling and anti-corrosion applications. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 615, 126155.	2.3	30
1294	Self-healing superhydrophobic conductive coatings for self-cleaning and humidity-insensitive hydrogen sensors. <i>Chemical Engineering Journal</i> , 2021, 410, 128353.	6.6	31
1295	Waxing the soot: Practical fabrication of all-organic superhydrophobic coatings from candle soot and carnauba wax. <i>Progress in Organic Coatings</i> , 2021, 153, 106169.	1.9	22
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1298	Superhydrophobic Candle Soot as a Low Fouling Stable Coating on Water Treatment Membrane Feed Spacers. <i>ACS Applied Bio Materials</i> , 2021, 4, 4191-4200.	2.3	19
1299	Transparent and Robust Amphiphobic Surfaces Exploiting Nanohierarchical Surface-grown Metal-Organic Frameworks. <i>Nano Letters</i> , 2021, 21, 3480-3486.	4.5	20
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1302	Spontaneous Directional Self-Cleaning on the Feathers of the Aquatic Bird <i>Anser cygnoides domesticus</i> Induced by a Transient Superhydrophilicity. <i>Advanced Functional Materials</i> , 2021, 31, 2010634.	7.8	25
1303	A facile preparation of the superhydrophobic polydimethylsiloxane materials and its performances based on the supercritical fluid foaming. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50858.	1.3	5
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1308	Superhydrophobic composite graphene oxide membrane coated with fluorinated silica nanoparticles for hydrogen isotopic water separation in membrane distillation. <i>Journal of Membrane Science</i> , 2021, 626, 119136.	4.1	17
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1312	Bioinspired Omnipobic Microchamber Structure. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100027.	1.9	4
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1315	Designing and 3D Printing an Improved Method of Measuring Contact Angle in the Middle School Classroom. <i>Journal of Chemical Education</i> , 2021, 98, 1997-2004.	1.1	14
1316	A superhydrophobic coating harvesting mechanical robustness, passive anti-icing and active de-icing performances. <i>Journal of Colloid and Interface Science</i> , 2021, 590, 301-310.	5.0	128
1317	Robust Superhydrophobic and Repellent Coatings Based on Micro/Nano SiO ₂ and Fluorinated Epoxy. <i>Coatings</i> , 2021, 11, 663.	1.2	12
1318	One-Step Synthesis of a Durable and Liquid-Repellent Poly(dimethylsiloxane) Coating. <i>Advanced Materials</i> , 2021, 33, e2100237.	11.1	77
1319	Bioprocess-Inspired Room-Temperature Synthesis of Enamel-like Fluorapatite/Polymer Nanocomposites Controlled by Magnesium Ions. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25260-25269.	4.0	15
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1322	Multiple Wetting-Dewetting States of a Water Droplet on Dual-Scale Hierarchical Structured Surfaces. <i>Jacs Au</i> , 2021, 1, 955-966.	3.6	3
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1326	A universal, multifunctional, high-practicability superhydrophobic paint for waterproofing grass houses. <i>NPG Asia Materials</i> , 2021, 13, .	3.8	26
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1328	Facile Preparation of a Carbon-Based Hybrid Film for Efficient Solar-Driven Interfacial Water Evaporation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33427-33436.	4.0	51
1329	Superamphiphobic triple-scale micro-/nanostructured aluminum surfaces with self-cleaning and anti-icing properties. <i>Journal of Materials Science</i> , 2021, 56, 15463-15480.	1.7	6
1330	Robust, flame-retardant and colorful superamphiphobic aramid fabrics for extreme conditions. <i>Science China Technological Sciences</i> , 2021, 64, 1765-1774.	2.0	7
1331	Fabrication of ultra-smooth hybrid thin coatings towards robust, highly transparent, liquid-repellent and antimud coating. <i>Journal of Colloid and Interface Science</i> , 2021, 594, 781-790.	5.0	21
1332	One-Step Preparation of Hydrophobic Surfaces Containing Hydrophilic Groups for Efficient Water Harvesting. <i>Langmuir</i> , 2021, 37, 9630-9636.	1.6	9
1333	A Strategy of Liquid-Grafted Slippery Sponges with Simultaneously Enhanced Absorption and Desorption Performances for Crude Oil Spill Remediation. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2100242.	1.7	10
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1335	A superhydrophobic and flame-retardant cotton fabric fabricated by an eco-friendly assembling method. <i>Textile Research Journal</i> , 2022, 92, 2873-2885.	1.1	5
1336	Optical Manipulation of Liquids by Thermal Marangoni Flow along the Air-Water Interfaces of a Superhydrophobic Surface. <i>Langmuir</i> , 2021, 37, 8677-8686.	1.6	10
1337	Recent Progress in the Fabrication and Characteristics of Self-Repairing Superhydrophobic Surfaces. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100228.	1.9	20
1338	Dynamic behaviors of two droplets impacting an inclined superhydrophobic substrate. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 623, 126725.	2.3	12
1339	Renewable Superhydrophobic Surfaces Prepared by Nanoimprinting Using Anodic Porous Alumina Molds. <i>Langmuir</i> , 2021, 37, 10573-10578.	1.6	8
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1341	Fabrication of multifunctional PET fabrics with flame retardant, antibacterial and superhydrophobic properties. <i>Progress in Organic Coatings</i> , 2021, 157, 106296.	1.9	22
1342	Microstructured Surfaces for Reducing Chances of Fomite Transmission via Virus-Containing Respiratory Droplets. <i>ACS Nano</i> , 2021, 15, 14049-14060.	7.3	8

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1345	Nano-Al doped-MoO ₃ high-energy composite films with excellent hydrophobicity and thermal stability. <i>Ceramics International</i> , 2021, 47, 24039-24046.	2.3	5
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1347	Durable Super-repellent Surfaces: From Solidâ€“Liquid Interaction to Applications. <i>Accounts of Materials Research</i> , 2021, 2, 920-932.	5.9	21
1348	Underwater Drag Reduction and Buoyancy Enhancement on Biomimetic Antiabrasive Superhydrophobic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48270-48280.	4.0	40
1349	Multifunctional and superhydrophobic cellulose composite paper for electromagnetic shielding, hydraulic triboelectric nanogenerator and Joule heating applications. <i>Chemical Engineering Journal</i> , 2021, 420, 129864.	6.6	79
1350	Effective Approach to Render Stable Dynamic Omniphobicity and Icephobicity to Ultrasoother Metal Surfaces. <i>Langmuir</i> , 2021, 37, 11771-11780.	1.6	2
1351	Rebound Behaviors of Multiple Droplets Simultaneously Impacting a Superhydrophobic Surface. <i>Langmuir</i> , 2021, 37, 11233-11241.	1.6	11
1352	A Simple Approach for Flexible and Stretchable Anti-icing Lubricant-Infused Tape. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 45105-45115.	4.0	9
1353	Rapid preparation of hierarchically porous ceramic microspheres based on UV-curing-assisted molding. <i>Journal of the European Ceramic Society</i> , 2021, 41, 232-238.	2.8	7
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1355	Citrus-peel-like durable slippery surfaces. <i>Chemical Engineering Journal</i> , 2021, 420, 129599.	6.6	21
1356	Dynamic Anti-icing Surfaces (DAIS). <i>Advanced Science</i> , 2021, 8, e2101163.	5.6	49
1357	Simple fabrication of asphalt-based superhydrophobic surface with controllable wetting transition from Cassie-Baxter to Wenzel wetting state. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021, 625, 126927.	2.3	32
1358	Superhydrophobic self-similar nonwoven-titanate nanostructured materials. <i>Journal of Colloid and Interface Science</i> , 2021, 598, 93-103.	5.0	11
1359	Fabrication of transparent superhydrophobic polydimethylsiloxane elastomer by controlling the degree of combustion using thermal convection. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 2530-2535.	1.2	4
1360	Fast Self-Healing Superhydrophobic Thermal Energy Storage Coatings Fabricated by Bio-Based Beeswax and Artificially Cultivated Diatom Frustules. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 48088-48100.	4.0	21

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1376	Tailoring the Morphology of Supraparticles by Primary Colloids with Different Shapes, Sizes and Dispersities. Crystals, 2021, 11, 79.	1.0	6
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1383	Dual-Functional, Superhydrophobic Coatings with Bacterial Anticontact and Antimicrobial Characteristics. ACS Applied Materials & Interfaces, 2020, 12, 21311-21321.	4.0	67
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1390	Wetting over pre-existing liquid films. Physical Review Fluids, 2018, 3, .	1.0	9
1391	Predicting the maximum spreading of a liquid drop impacting on a solid surface: Effect of surface tension and entrapped air layer. Physical Review Fluids, 2019, 4, .	1.0	34
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1401	A Mechanically and Chemically Stable Superhydrophobic Coating for Preventing Marine Atmospheric Corrosion. <i>Surfaces and Interfaces</i> , 2021, 27, 101537.	1.5	9
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1404	Preparation of bionic lotus leaf surfaces using SiO ₂ nanoparticle-filled polymer. <i>Functional Materials Letters</i> , 0, , 1550037.	0.7	0
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1407	Biomimetic Liquid Repellent Materials Learned from Biological Self-repairing Functionalities. <i>Seikei-Kakou</i> , 2017, 29, 72-75.	0.0	0
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1410	Enhancing Water and Oil Repellency of Teflon Surface By Imparting Micro-Rough Structures Using Simple One-Step. <i>Science Journal of University of Zakho</i> , 2017, 5, 266.	0.1	0
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1414	Superwetting patterned PDMS/PMMA materials by facile one-step electro-spraying for signal expression and liquid transportation. <i>Chemical Engineering Journal</i> , 2022, 431, 133206.	6.6	11
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1416	Femtosecond Laser Regulated Ultrafast Growth of Mushroom-Like Architecture for Oil Repellency and Manipulation. <i>Nano Letters</i> , 2021, 21, 9301-9309.	4.5	22
1417	Mimicking nature to control bio-material surface wetting and adhesion. <i>International Materials Reviews</i> , 2022, 67, 658-681.	9.4	50
1418	Design of Icephobic Surfaces by Lowering Ice Adhesion Strength: A Mini Review. <i>Coatings</i> , 2021, 11, 1343.	1.2	34
1419	Preparation of superhydrophobic and oleophobic antireflective coating with high transmittance. <i>Surface and Coatings Technology</i> , 2021, 428, 127863.	2.2	6

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1421	Mechanical Stability of Fabricated Superhydrophobic Aluminium Alloy and Enhancement of Its Oleophobic Characteristics. <i>Lecture Notes on Multidisciplinary Industrial Engineering</i> , 2020, , 73-84.	0.4	0
1422	Advanced Physical Applications of Modified Cotton. <i>Textile Science and Clothing Technology</i> , 2020, , 433-472.	0.4	2
1423	Facile Fabricating Strategy for Bioinspired Flexible Film with Cavitation: Liquid Super-Repellent Material with Stimulate-Response on Liquid Adhesion. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000605.	1.7	0
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1425	Solvent-free fabrication of slippery coatings from edible raw materials for reducing yogurt adhesion. <i>Progress in Organic Coatings</i> , 2022, 162, 106590.	1.9	5
1426	Surface hydrophobicity and oleophilicity of hierarchical metal structures fabricated using ink-based selective laser melting of micro/nanoparticles. <i>Nanotechnology Reviews</i> , 2020, 9, 626-636.	2.6	4
1427	High Performance Super-Hydrophobic Flower-Like CeO ₂ ; Micro/Nano-Structure Fabricated by Hydro-Thermal Method. <i>Advances in Material Chemistry</i> , 2020, 08, 15-22.	0.0	0
1428	Green Functional Coatings Showing Excellent Liquid Sliding Properties. <i>Oleoscience</i> , 2020, 20, 259-265.	0.0	0
1429	Synthesis and Characterization of Hydrophobic Polystyrene Microspheres Film. <i>Polymer Science - Series B</i> , 2020, 62, 621-628.	0.3	0
1430	The robust superhydrophobic SiO ₂ /Diatomite/PDMS/KH-570/Me-MQ composite coating for self-cleaning application of building surface. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2022, 634, 127936.	2.3	24
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