Neil J Shirtcliffe

List of Publications by Year
in descending order

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55 papers	6,964 citations	117571 34 h-index	182361 51 g-index
58 all docs	58 docs citations	58 times ranked	7137 citing authors

#	Article	IF	Citations
1	Electrochemical detection of adrenaline and hydrogen peroxide on carbon nanotubes. Surface Innovations, 2022, 10, 379-386.	1.4	5
2	The Effect of Roughness Geometry on Superhydrophobicity and Related Phenomena. , 2019, , 291-308.		4
3	Drop impact behaviour on alternately hydrophobic and hydrophilic layered bead packs. Chemical Engineering Research and Design, 2016, 110, 200-208.	2.7	11
4	Plastron Respiration Using Commercial Fabrics. Materials, 2014, 7, 484-495.	1.3	7
5	Wetting considerations in capillary rise and imbibition in closed square tubes and open rectangular cross-section channels. Microfluidics and Nanofluidics, 2013, 15, 309-326.	1.0	88
6	Transitions of waterâ€drop impact behaviour on hydrophobic and hydrophilic particles. European Journal of Soil Science, 2013, 64, 324-333.	1.8	27
7	Assembl y of Poly-3-Hexylthiophene Nano-Crystallites into Low Dimensional Structures Using Indandione Derivatives. Nanomaterials, 2013, 3, 107-116.	1.9	3
8	Effects of hydrophobicity on splash erosion of model soil particles by a single water drop impact. Earth Surface Processes and Landforms, 2013, 38, 1225-1233.	1.2	58
9	The Self Assembly of Superhydrophobic Copper Thiolate Films on Copper in Thiol Solutions. Zeitschrift Fur Physikalische Chemie, 2012, 226, 187-200.	1.4	6
10	Hydrophobic Smart Material for Water Transport and Collection. , 2012, , 49-55.		3
11	Wet Adhesion and Adhesive Locomotion of Snails on Anti-Adhesive Non-Wetting Surfaces. PLoS ONE, 2012, 7, e36983.	1.1	28
12	Effect of Particle Size on Droplet Infiltration into Hydrophobic Porous Media As a Model of Water Repellent Soil. Environmental Science & Technology, 2011, 45, 9666-9670.	4.6	26
13	Underwater spiders. New Scientist, 2011, 211, 31.	0.0	0
14	Capillary origami: superhydrophobic ribbon surfaces and liquid marbles. Beilstein Journal of Nanotechnology, 2011, 2, 145-151.	1.5	19
15	Passive water control at the surface of a superhydrophobic lichen. Planta, 2011, 234, 1267-1274.	1.6	34
16	The superhydrophobicity of polymer surfaces: Recent developments. Journal of Polymer Science, Part B: Polymer Physics, 2011, 49, 1203-1217.	2.4	151
17	An introduction to superhydrophobicity. Advances in Colloid and Interface Science, 2010, 161, 124-138.	7.0	530
18	A preliminary study of the surface properties of earthworms and their relations to non-stain behaviour. Journal of Bionic Engineering, 2010, 7, 13-18.	2.7	12

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19	Immersed superhydrophobic surfaces: Gas exchange, slip and drag reduction properties. Soft Matter, 2010, 6, 714-719.	1.2	250
20	Dynamic wetting and spreading and the role of topography. Journal of Physics Condensed Matter, 2009, 21, 464122.	0.7	48
21	Learning from Superhydrophobic Plants: The Use of Hydrophilic Areas on Superhydrophobic Surfaces for Droplet Controlâ€Part of the â€œLangmuir 25th Year: Wetting and superhydrophobicityâ€•special issue.. Langmuir, 2009, 25, 14121-14128.	1.6	82
22	Superhydrophobic Copper Tubes with Possible Flow Enhancement and Drag Reduction. ACS Applied Materials & Interfaces, 2009, 1, 1316-1323.	4.0	204
23	Progess in superhydrophobic surface development. Soft Matter, 2008, 4, 224-240.	1.2	1,447
24	Nano-scale superhydrophobicity: suppression of protein adsorption and promotion of flow-induced detachment. Lab on A Chip, 2008, 8, 582.	3.1	179
25	Sensor response of superhydrophobic quartz crystal resonators. , 2008, , .		4
26	Self-organization of hydrophobic soil and granular surfaces. Applied Physics Letters, 2007, 90, 054110.	1.5	55
27	Electrowetting of liquid marbles. Journal Physics D: Applied Physics, 2007, 40, 20-24.	1.3	105
28	Decoupling of the Liquid Response of a Superhydrophobic Quartz Crystal Microbalance. Langmuir, 2007, 23, 9823-9830.	1.6	45
29	Electrowetting of Nonwetting Liquids and Liquid Marbles. Langmuir, 2007, 23, 918-924.	1.6	101
30	Implications of ideas on superâ€hydrophobicity for water repellent soil. Hydrological Processes, 2007, 21, 2229-2238.	1.1	29
31	Superhydrophobic to superhydrophilic transitions of solâ€“gel films for temperature, alcohol or surfactant measurement. Materials Chemistry and Physics, 2007, 103, 112-117.	2.0	53
32	Highly aluminium doped barium and strontium ferrite nanoparticles prepared by citrate auto-combustion synthesis. Materials Research Bulletin, 2007, 42, 281-287.	2.7	95
33	Plastron properties of a superhydrophobic surface. Applied Physics Letters, 2006, 89, 104106.	1.5	153
34	Comments on â€œChitosan-Catalyzed Aggregation during the Biomimetic Synthesis of Silica Nanoparticlesâ€• Chemistry of Materials, 2006, 18, 1711-1712.	3.2	3
35	A lichen protected by a super-hydrophobic and breathable structure. Journal of Plant Physiology, 2006, 163, 1193-1197.	1.6	61
36	Electrowetting on superhydrophobic SU-8 patterned surfaces. Sensors and Actuators A: Physical, 2006, 130-131, 189-193.	2.0	92

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37	Quantification of Surface-Bound Proteins by Fluorometric Assay: Comparison with Quartz Crystal Microbalance and Amido Black Assay. Journal of Physical Chemistry B, 2006, 110, 20572-20579.	1.2	46
38	Critical conditions for the wetting of soils. Applied Physics Letters, 2006, 89, 094101.	1.5	59
39	The effect of SU-8 patterned surfaces on the response of the quartz crystal microbalance. Sensors and Actuators A: Physical, 2005, 123-124, 73-76.	2.0	6
40	Wetting and Wetting Transitions on Copper-Based Super-Hydrophobic Surfaces. Langmuir, 2005, 21, 937-943.	1.6	279
41	Water-repellent soil and its relationship to granularity, surface roughness and hydrophobicity: a materials science view. European Journal of Soil Science, 2005, 56, 445-452.	1.8	88
42	Synthesis of SrCoxTixFe(12â^'2x)O19 through solâ€“gel auto-ignition and its characterisation. Journal of Magnetism and Magnetic Materials, 2005, 292, 100-107.	1.0	71
43	Analysis of Droplet Evaporation on a Superhydrophobic Surface. Langmuir, 2005, 21, 11053-11060.	1.6	361
44	Porous materials show superhydrophobic to superhydrophilic switching. Chemical Communications, 2005, , 3135.	2.2	174
45	Contact-Angle Hysteresis on Super-Hydrophobic Surfaces. Langmuir, 2004, 20, 10146-10149.	1.6	329
46	Dual-Scale Roughness Produces Unusually Water-Repellent Surfaces. Advanced Materials, 2004, 16, 1929-1932.	11.1	488
47	Tailoring of the morphology and chemical composition of thin organosilane microwave plasma polymer layers on metal substrates. Thin Solid Films, 2004, 446, 61-71.	0.8	40
48	The use of high aspect ratio photoresist (SU-8) for super-hydrophobic pattern prototyping. Journal of Micromechanics and Microengineering, 2004, 14, 1384-1389.	1.5	161
49	Super-hydrophobic and super-wetting surfaces: Analytical potential?. Analyst, The, 2004, 129, 284.	1.7	155
50	In situ infrared spectroscopic studies of ultrathin inorganic film growth on zinc in non-polymerizing cold plasmas. Surface and Interface Analysis, 2003, 35, 799-804.	0.8	15
51	Intrinsically Superhydrophobic Organosilica Solâ^'Gel Foams. Langmuir, 2003, 19, 5626-5631.	1.6	410
52	Chemical structure and morphology of thin, organo-silicon plasma-polymer films as a function of process parameters. Surface and Coatings Technology, 2001, 142-144, 1121-1128.	2.2	39
53	Deposition of clays onto a rotating, electrochemical, quartz crystal microbalance. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 155, 277-285.	2.3	10
54	Reproducible Preparation of Silver Sols with Small Particle Size Using Borohydride Reduction: For Use as Nuclei for Preparation of Larger Particles. Journal of Colloid and Interface Science, 1999, 211, 122-129.	5.0	207

#	Article	IF	Citations
55	Natural and Artificial Hybrid Biomaterials. , 0, , 255-299.		2