

Kerstin Koch

List of Publications by Year in descending order

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28
papers

3,498
citations

394421

19
h-index

526287

27
g-index

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all docs

28
docs citations

28
times ranked

3605
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-assembly of <i>Eucalyptus gunnii</i> wax tubules and pure $\hat{\text{A}}^{\text{Y}}$ -diketone on HOPG and glass. Beilstein Journal of Nanotechnology, 2021, 12, 939-949.	2.8	4
2	Biological and biomimetic surfaces: adhesion, friction and wetting phenomena. Beilstein Journal of Nanotechnology, 2019, 10, 481-482.	2.8	4
3	Kinetics of solvent supported tubule formation of Lotus (<i>Nelumbo nucifera</i>) wax on highly oriented pyrolytic graphite (HOPG) investigated by atomic force microscopy. Beilstein Journal of Nanotechnology, 2018, 9, 468-481.	2.8	3
4	Morphological diversity of $\hat{\text{I}}^2$ -diketone wax tubules on <i>Eucalyptus gunnii</i> leaves and real time observation of self-healing of defects in the wax layer. Australian Journal of Botany, 2018, 66, 313.	0.6	10
5	Fog Collection on Polyethylene Terephthalate (PET) Fibers: Influence of Cross Section and Surface Structure. Langmuir, 2017, 33, 5555-5564.	3.5	38
6	Plant Surfaces: Structures and Functions for Biomimetic Applications. Springer Handbooks, 2017, , 1265-1305.	0.6	10
7	Plant Surfaces: Structures and Functions for Biomimetic Innovations. Nano-Micro Letters, 2017, 9, 23.	27.0	304
8	Surfactant-induced enhancement of droplet adhesion in superhydrophobic soybean (<i>Glycine</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	2.8	16
9	Influence of surface structure and chemistry on water droplet splashing. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160183.	3.4	27
10	From sticky to slippery: Biological and biologically-inspired adhesion and friction. Beilstein Journal of Nanotechnology, 2014, 5, 1450-1451.	2.8	3
11	Surface microstructures of daisy florets (<i>Asteraceae</i>) and characterization of their anisotropic wetting. Bioinspiration and Biomimetics, 2013, 8, 036005.	2.9	31
12	Biomimetic materials. Beilstein Journal of Nanotechnology, 2011, 2, 135-136.	2.8	5
13	Hierarchically structured superhydrophobic flowers with low hysteresis of the wild pansy (<i>Viola</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 4 2011, 2, 228-236.	2.8	52
14	Comparative and functional morphology of hierarchically structured anti-adhesive surfaces in carnivorous plants and kettle trap flowers. Functional Plant Biology, 2010, 37, 952.	2.1	37
15	The superhydrophilic and superoleophilic leaf surface of <i>Ruellia devosiana</i> (<i>Acanthaceae</i>): a biological model for spreading of water and oil on surfaces. Functional Plant Biology, 2009, 36, 339.	2.1	61
16	Thermal evaporation of multi-component waxes and thermally activated formation of nanotubules for superhydrophobic surfaces. Progress in Organic Coatings, 2009, 66, 221-227.	3.9	51
17	Multifunctional surface structures of plants: An inspiration for biomimetics. Progress in Materials Science, 2009, 54, 137-178.	32.8	756
18	Nanostructure of epicuticular plant waxes: Self-assembly of wax tubules. Surface Science, 2009, 603, 1961-1968.	1.9	30

#	ARTICLE	IF	CITATIONS
19	Biomimetic replicas: Transfer of complex architectures with different optical properties from plant surfaces onto technical materials. <i>Acta Biomaterialia</i> , 2009, 5, 1848-1854.	8.3	87
20	Hierarchically Sculptured Plant Surfaces and Superhydrophobicity. <i>Langmuir</i> , 2009, 25, 14116-14120.	3.5	165
21	Superhydrophobic and superhydrophilic plant surfaces: an inspiration for biomimetic materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1487-1509.	3.4	621
22	Droplets on Superhydrophobic Surfaces: Visualization of the Contact Area by Cryo-Scanning Electron Microscopy. <i>Langmuir</i> , 2009, 25, 13077-13083.	3.5	51
23	Diversity of structure, morphology and wetting of plant surfaces. <i>Soft Matter</i> , 2008, 4, 1943.	2.7	613
24	A fast, precise and low-cost replication technique for nano- and high-aspect-ratio structures of biological and artificial surfaces. <i>Bioinspiration and Biomimetics</i> , 2008, 3, 046002.	2.9	91
25	Chemistry and Crystal Growth of Plant Wax Tubules of Lotus (<i>Nelumbo nucifera</i>) and Nasturtium (<i>Tropaeolum majus</i>) Leaves on Technical Substrates. <i>Crystal Growth and Design</i> , 2006, 6, 2571-2578.	3.0	130
26	Influences of air humidity during the cultivation of plants on wax chemical composition, morphology and leaf surface wettability. <i>Environmental and Experimental Botany</i> , 2006, 56, 1-9.	4.2	131
27	Plant cuticles. , 2004, , 171-III.		34
28	Self assembly of epicuticular waxes on living plant surfaces imaged by atomic force microscopy (AFM). <i>Journal of Experimental Botany</i> , 2004, 55, 711-718.	4.8	133