Caitlin Howell

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6867256/publications.pdf

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46	2,958	304368	276539
papers	citations	22 h-index	41 g-index

48	48	48	3305
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A bioinspired omniphobic surface coating on medical devices prevents thrombosis and biofouling. Nature Biotechnology, 2014, 32, 1134-1140.	9.4	575
2	Extremely durable biofouling-resistant metallic surfaces based on electrodeposited nanoporous tungstite films on steel. Nature Communications, 2015, 6, 8649.	5.8	326
3	Liquid-Infused Silicone As a Biofouling-Free Medical Material. ACS Biomaterials Science and Engineering, 2015, 1, 43-51.	2.6	235
4	Designing Liquidâ€Infused Surfaces for Medical Applications: A Review. Advanced Materials, 2018, 30, e1802724.	11.1	232
5	Self-Replenishing Vascularized Fouling-Release Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 13299-13307.	4.0	208
6	Lubricantâ€Infused Nanoparticulate Coatings Assembled by Layerâ€byâ€Layer Deposition. Advanced Functional Materials, 2014, 24, 6658-6667.	7.8	206
7	Stability of Surface-Immobilized Lubricant Interfaces under Flow. Chemistry of Materials, 2015, 27, 1792-1800.	3.2	181
8	Transparent antifouling material for improved operative field visibility in endoscopy. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11676-11681.	3.3	106
9	An immobilized liquid interface prevents device associated bacterial infection inÂvivo. Biomaterials, 2017, 113, 80-92.	5.7	97
10	Immobilized liquid layers: A new approach to anti-adhesion surfaces for medical applications. Experimental Biology and Medicine, 2016, 241, 909-918.	1.1	81
11	Temporal changes in wood crystalline cellulose during degradation by brown rot fungi. International Biodeterioration and Biodegradation, 2009, 63, 414-419.	1.9	68
12	Impact of DNAâ€“Surface Interactions on the Stability of DNA Hybrids. Analytical Chemistry, 2011, 83, 4288-4295.	3.2	64
13	Bacterial Interactions with Immobilized Liquid Layers. Advanced Healthcare Materials, 2017, 6, 1600948.	3.9	42
14	Tunability of liquid-infused silicone materials for biointerfaces. Biointerphases, 2018, 13, 06D401.	0.6	42
15	Sum-frequency-generation spectroscopy of DNA films in air and aqueous environments. Biointerphases, 2008, 3, FC47-FC51.	0.6	37
16	Droplet manipulation with bioinspired liquid-infused surfaces: A review of recent progress and potential for integrated detection. Current Opinion in Colloid and Interface Science, 2019, 39, 137-147.	3.4	33
17	Sample cells for probing solid/liquid interfaces with broadband sum-frequency-generation spectroscopy. Review of Scientific Instruments, 2010, 81, 063111.	0.6	32
18	Functionality of Surface Mycelium Interfaces in Wood Bonding. ACS Applied Materials & Interfaces, 2020, 12, 57431-57440.	4.0	32

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19	Differences in crystalline cellulose modification due to degradation by brown and white rot fungi. Fungal Biology, 2012, 116, 1052-1063.	1.1	30
20	Infused polymers for cell sheet release. Scientific Reports, 2016, 6, 26109.	1.6	28
21	Effects of hot water extraction and fungal decay on wood crystalline cellulose structure. Cellulose, 2011, 18, 1179-1190.	2.4	26
22	Inhibiting host-protein deposition on urinary catheters reduces associated urinary tract infections. ELife, 2022, 11, .	2.8	26
23	Probing the Extracellular Matrix with Sum-Frequency-Generation Spectroscopy. Langmuir, 2008, 24, 13819-13821.	1.6	22
24	Interactions of hydrophobic and hydrophilic self-assembled monolayers with water as probed by sum-frequency-generation spectroscopy. Chemical Physics Letters, 2010, 494, 193-197.	1.2	22
25	Hybridization in ssDNA filmsâ€"a multi-technique spectroscopy study. Physical Chemistry Chemical Physics, 2011, 13, 15512.	1.3	21
26	All-Natural Smart Mycelium Surface with Tunable Wettability. ACS Applied Bio Materials, 2021, 4, 1015-1022.	2.3	21
27	Passive flux recovery in protein-fouled liquid-gated membranes. Journal of Membrane Science, 2017, 539, 257-262.	4.1	19
28	In Vitro Characterization of Surface Properties Through Living Cells. Journal of Physical Chemistry Letters, 2010, 1, 2339-2342.	2.1	18
29	Non-enzymatic depolymerization of cotton cellulose by fungal mimicking metabolites. International Biodeterioration and Biodegradation, 2011, 65, 553-559.	1.9	18
30	Characterization of novel cellulose nanofibril and phenolic acid-based active and hydrophobic packaging films. Food Chemistry, 2022, 374, 131773.	4.2	16
31	Orientation and Ordering in Sequence- and Length-Mismatched Surface-Bound DNA Hybrids. Journal of Physical Chemistry C, 2012, 116, 11133-11140.	1.5	15
32	Fungal and enzymatic pretreatments in hot-pressed lignocellulosic bio-composites: A critical review. Journal of Cleaner Production, 2022, 353, 131659.	4.6	15
33	Structure and chemical composition of mixed benzylguanineâ€•and methoxyâ€terminated selfâ€assembled monolayers for immobilization of biomolecules. Surface and Interface Analysis, 2012, 44, 909-913.	0.8	12
34	Antioxidant and antimicrobial modified cellulose nanofibers for food applications. Food Bioscience, 2021, 44, 101421.	2.0	11
35	Thymine/adenine diblock-oligonucleotide monolayers and hybrid brushes on gold: a spectroscopic study. Biointerphases, 2013, 8, 6.	0.6	10
36	Lateral field excited quartz crystal microbalances for biosensing applications. Biointerphases, 2020, 15, 030801.	0.6	7

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37	Combining the geometry of folded paper with liquid-infused polymer surfaces to concentrate and localize bacterial solutions. Biointerphases, 2019, 14, 041005.	0.6	6
38	Liquid-Infused Membranes Exhibit Stable Flux and Fouling Resistance. ACS Applied Materials & Interfaces, 2022, 14, 6148-6156.	4.0	6
39	Orientation changes in surface-bound hybridized DNA undergoing preparation for ex situ spectroscopic measurements. Chemical Physics Letters, 2011, 513, 267-270.	1.2	4
40	Influence of hot water extraction on cell wall and OSB strand mechanics. Wood Science and Technology, 2017, 51, 1307-1319.	1.4	4
41	Vascularized Polymers Spatially Control Bacterial Cells on Surfaces. Advanced Biology, 2020, 4, e1900216.	3.0	4
42	3D printing direct to industrial roll-to-roll casting for fast prototyping of scalable microfluidic systems. PLoS ONE, 2020, 15, e0244324.	1.1	0
43	Title is missing!. , 2020, 15, e0244324.		0
44	Title is missing!. , 2020, 15, e0244324.		0
45	Title is missing!. , 2020, 15, e0244324.		0
46	Title is missing!. , 2020, 15, e0244324.		0