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	Characterization of novel cellulose nanofibril and phenolic acid-based active and hydrophobic packaging films. Food Chemistry, 2022, 374, 131773.	4.2	16
2	Liquid-Infused Membranes Exhibit Stable Flux and Fouling Resistance. ACS Applied Materials & Interfaces, 2022, 14, 6148-6156.	4.0	6
3	Inhibiting host-protein deposition on urinary catheters reduces associated urinary tract infections. ELife, 2022, 11, .	2.8	26
4	Fungal and enzymatic pretreatments in hot-pressed lignocellulosic bio-composites: A critical review. Journal of Cleaner Production, 2022, 353, 131659.	4.6	15
5	All-Natural Smart Mycelium Surface with Tunable Wettability. ACS Applied Bio Materials, 2021, 4, 1015-1022.	2.3	21
6	Antioxidant and antimicrobial modified cellulose nanofibers for food applications. Food Bioscience, 2021, 44, 101421.	2.0	11
7	Vascularized Polymers Spatially Control Bacterial Cells on Surfaces. Advanced Biology, 2020, 4, e1900216.	3.0	4
8	Functionality of Surface Mycelium Interfaces in Wood Bonding. ACS Applied Materials & Interfaces, 2020, 12, 57431-57440.	4.0	32
9	Lateral field excited quartz crystal microbalances for biosensing applications. Biointerphases, 2020, 15, 030801.	0.6	7
10	3D printing direct to industrial roll-to-roll casting for fast prototyping of scalable microfluidic systems. PLoS ONE, 2020, 15, e0244324.	1.1	0
11	Title is missing!. , 2020, 15, e0244324.		0
12	Title is missing!. , 2020, 15, e0244324.		0
13	Title is missing!. , 2020, 15, e0244324.		0
14	Title is missing!. , 2020, 15, e0244324.		0
15	Combining the geometry of folded paper with liquid-infused polymer surfaces to concentrate and localize bacterial solutions. Biointerphases, 2019, 14, 041005.	0.6	6
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	Designing Liquidâ€Infused Surfaces for Medical Applications: A Review. Advanced Materials, 2018, 30, e1802724.	11.1	232
18	Tunability of liquid-infused silicone materials for biointerfaces. Biointerphases, 2018, 13, 06D401.	0.6	42

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19	Passive flux recovery in protein-fouled liquid-gated membranes. Journal of Membrane Science, 2017, 539, 257-262.	4.1	19
20	Bacterial Interactions with Immobilized Liquid Layers. Advanced Healthcare Materials, 2017, 6, 1600948.	3.9	42
21	An immobilized liquid interface prevents device associated bacterial infection inÂvivo. Biomaterials, 2017, 113, 80-92.	5.7	97
22	Influence of hot water extraction on cell wall and OSB strand mechanics. Wood Science and Technology, 2017, 51, 1307-1319.	1.4	4
23	Immobilized liquid layers: A new approach to anti-adhesion surfaces for medical applications. Experimental Biology and Medicine, 2016, 241, 909-918.	1.1	81
24	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
25	Infused polymers for cell sheet release. Scientific Reports, 2016, 6, 26109.	1.6	28
26	Stability of Surface-Immobilized Lubricant Interfaces under Flow. Chemistry of Materials, 2015, 27, 1792-1800.	3.2	181
27	Extremely durable biofouling-resistant metallic surfaces based on electrodeposited nanoporous tungstite films on steel. Nature Communications, 2015, 6, 8649.	5.8	326
28	Liquid-Infused Silicone As a Biofouling-Free Medical Material. ACS Biomaterials Science and Engineering, 2015, 1, 43-51.	2.6	235
29	Lubricantâ€Infused Nanoparticulate Coatings Assembled by Layerâ€byâ€Layer Deposition. Advanced Functional Materials, 2014, 24, 6658-6667.	7.8	206
30	A bioinspired omniphobic surface coating on medical devices prevents thrombosis and biofouling. Nature Biotechnology, 2014, 32, 1134-1140.	9.4	575
31	Self-Replenishing Vascularized Fouling-Release Surfaces. ACS Applied Materials & Interfaces, 2014, 6, 13299-13307.	4.0	208
32	Thymine/adenine diblock-oligonucleotide monolayers and hybrid brushes on gold: a spectroscopic study. Biointerphases, 2013, 8, 6.	0.6	10
33	Orientation and Ordering in Sequence- and Length-Mismatched Surface-Bound DNA Hybrids. Journal of Physical Chemistry C, 2012, 116, 11133-11140.	1.5	15
34	Differences in crystalline cellulose modification due to degradation by brown and white rot fungi. Fungal Biology, 2012, 116, 1052-1063.	1.1	30
35	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
36	Hybridization in ssDNA filmsâ€”a multi-technique spectroscopy study. Physical Chemistry Chemical Physics, 2011, 13, 15512.	1.3	21

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37	Impact of DNAâ€“Surface Interactions on the Stability of DNA Hybrids. Analytical Chemistry, 2011, 83, 4288-4295.	3.2	64
38	Orientation changes in surface-bound hybridized DNA undergoing preparation for ex situ spectroscopic measurements. Chemical Physics Letters, 2011, 513, 267-270.	1.2	4
39	Effects of hot water extraction and fungal decay on wood crystalline cellulose structure. Cellulose, 2011, 18, 1179-1190.	2.4	26
40	Non-enzymatic depolymerization of cotton cellulose by fungal mimicking metabolites. International Biodeterioration and Biodegradation, 2011, 65, 553-559.	1.9	18
41	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
42	Sample cells for probing solid/liquid interfaces with broadband sum-frequency-generation spectroscopy. Review of Scientific Instruments, 2010, 81, 063111.	0.6	32
43	In Vitro Characterization of Surface Properties Through Living Cells. Journal of Physical Chemistry Letters, 2010, 1, 2339-2342.	2.1	18
44	Temporal changes in wood crystalline cellulose during degradation by brown rot fungi. International Biodeterioration and Biodegradation, 2009, 63, 414-419.	1.9	68
45	Sum-frequency-generation spectroscopy of DNA films in air and aqueous environments. Biointerphases, 2008, 3, FC47-FC51.	0.6	37
46	Probing the Extracellular Matrix with Sum-Frequency-Generation Spectroscopy. Langmuir, 2008, 24, 13819-13821.	1.6	22