

T Pettersson

List of Publications by Year in descending order

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papers

2,276
citations

257101

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67
docs citations

67
times ranked

3475
citing authors

#	ARTICLE	IF	CITATIONS
1	Multifunctional Nanocomposites with High Strength and Capacitance Using 2D MXene and 1D Nanocellulose. <i>Advanced Materials</i> , 2019, 31, e1902977.	11.1	253
2	Understanding the Dispersive Action of Nanocellulose for Carbon Nanomaterials. <i>Nano Letters</i> , 2017, 17, 1439-1447.	4.5	219
3	Probing Protein Adsorption onto Mercaptoundecanoic Acid Stabilized Gold Nanoparticles and Surfaces by Quartz Crystal Microbalance and ζ -Potential Measurements. <i>Langmuir</i> , 2007, 23, 6053-6062.	1.6	155
4	Lubrication Properties of Bottle-Brush Polyelectrolytes: An AFM Study on the Effect of Side Chain and Charge Density. <i>Langmuir</i> , 2008, 24, 3336-3347.	1.6	100
5	Comparison of different methods to calibrate torsional spring constant and photodetector for atomic force microscopy friction measurements in air and liquid. <i>Review of Scientific Instruments</i> , 2007, 78, 093702.	0.6	96
6	Adhesive Layer-by-Layer Films of Carboxymethylated Cellulose Nanofibrils-Dopamine Covalent Bioconjugates Inspired by Marine Mussel Threads. <i>ACS Nano</i> , 2012, 6, 4731-4739.	7.3	96
7	Oncogenes induce a vimentin filament collapse mediated by HDAC6 that is linked to cell stiffness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1515-1520.	3.3	90
8	Normal and friction forces between mucin and mucin-chitosan layers in absence and presence of SDS. <i>Journal of Colloid and Interface Science</i> , 2008, 324, 246-256.	5.0	77
9	The state of carboxymethylated nanofibrils after homogenization-aided dilution from concentrated suspensions: a rheological perspective. <i>Cellulose</i> , 2014, 21, 2357-2368.	2.4	68
10	On the mechanism behind freezing-induced chemical crosslinking in ice-templated cellulose nanofibril aerogels. <i>Journal of Materials Chemistry A</i> , 2018, 6, 19371-19380.	5.2	63
11	Water Drop Friction on Superhydrophobic Surfaces. <i>Langmuir</i> , 2013, 29, 9079-9089.	1.6	61
12	How to measure forces with atomic force microscopy without significant influence from nonlinear optical lever sensitivity. <i>Review of Scientific Instruments</i> , 2009, 80, 093701.	0.6	53
13	Zero-Dimensional and Highly Oxygenated Graphene Oxide for Multifunctional Poly(lactic acid) Bionanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 5618-5631.	3.2	50
14	Mucin-Electrolyte Interactions at the Solid-Liquid Interface Probed by QCM-D. <i>Langmuir</i> , 2008, 24, 3348-3357.	1.6	45
15	Macro- and Microstructural Evolution during Drying of Regenerated Cellulose Beads. <i>ACS Nano</i> , 2020, 14, 6774-6784.	7.3	41
16	Effect of Polymer Architecture on the Adsorption Properties of a Nonionic Polymer. <i>Langmuir</i> , 2008, 24, 6676-6682.	1.6	40
17	Microfluidized carboxymethyl cellulose modified pulp: a nanofibrillated cellulose system with some attractive properties. <i>Cellulose</i> , 2015, 22, 1159-1173.	2.4	39
18	Omni-dispersible poly(ionic liquid)-functionalized cellulose nanofibrils: surface grafting and polymer membrane reinforcement. <i>Chemical Communications</i> , 2014, 50, 12486-12489.	2.2	35

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19	Influence of Cellulose Charge on Bacteria Adhesion and Viability to PVAm/CNF/PVAm-Modified Cellulose Model Surfaces. <i>Biomacromolecules</i> , 2019, 20, 2075-2083.	2.6	34
20	Determination of transverse and shear moduli of single carbon fibres. <i>Carbon</i> , 2020, 158, 772-782.	5.4	34
21	Lubrication by organized soft matter. <i>Soft Matter</i> , 2010, 6, 1520.	1.2	32
22	Influence of Surface Charge Density and Morphology on the Formation of Polyelectrolyte Multilayers on Smooth Charged Cellulose Surfaces. <i>Langmuir</i> , 2017, 33, 968-979.	1.6	31
23	Green Strategy to Reduced Nanographene Oxide through Microwave Assisted Transformation of Cellulose. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 1246-1255.	3.2	31
24	Physical Tuning of Cellulose-Polymer Interactions Utilizing Cationic Block Copolymers Based on PCL and Quaternized PDMAEMA. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6796-6807.	4.0	29
25	A proof-of-concept for folate-conjugated and quercetin-anchored pluronic mixed micelles as molecularly modulated polymeric carriers for doxorubicin. <i>Polymer</i> , 2015, 74, 193-204.	1.8	25
26	Experimental and computational assessment of F-actin influence in regulating cellular stiffness and relaxation behaviour of fibroblasts. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 59, 168-184.	1.5	25
27	Characterization of interfacial stress transfer ability of particulate cellulose composite materials. <i>Mechanics of Materials</i> , 2011, 43, 693-704.	1.7	24
28	Probing material properties of polymeric surface layers with tapping mode AFM: Which cantilever spring constant, tapping amplitude and amplitude set point gives good image contrast and minimal surface damage?. <i>Ultramicroscopy</i> , 2010, 110, 313-319.	0.8	23
29	Direct Adhesive Measurements between Wood Biopolymer Model Surfaces. <i>Biomacromolecules</i> , 2012, 13, 3046-3053.	2.6	23
30	Redispersion Strategies for Dried Cellulose Nanofibrils. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11003-11010.	3.2	21
31	Synthesis, adsorption and adhesive properties of a cationic amphiphilic block copolymer for use as compatibilizer in composites. <i>European Polymer Journal</i> , 2012, 48, 1195-1204.	2.6	20
32	Measuring elasticity of wet cellulose beads with an AFM colloidal probe using a linearized DMT model. <i>Analytical Methods</i> , 2017, 9, 4019-4022.	1.3	19
33	Carbohydrate gel beads as model probes for quantifying non-ionic and ionic contributions behind the swelling of delignified plant fibers. <i>Journal of Colloid and Interface Science</i> , 2018, 519, 119-129.	5.0	19
34	Measurement of the flexibility of wet cellulose fibres using atomic force microscopy. <i>Cellulose</i> , 2017, 24, 4139-4149.	2.4	18
35	Robust and Tailored Wet Adhesion in Biopolymer Thin Films. <i>Biomacromolecules</i> , 2014, 15, 4420-4428.	2.6	17
36	Improved barrier films of cross-linked cellulose nanofibrils: a microscopy study. <i>Green Materials</i> , 2014, 2, 163-168.	1.1	17

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37	NanoWear of Salivary Films vs. Substratum Wettability. <i>Journal of Dental Research</i> , 2012, 91, 973-978.	2.5	16
38	Slipdisc: a versatile sample preparation platform for point of care diagnostics. <i>RSC Advances</i> , 2017, 7, 35048-35054.	1.7	14
39	Bactericidal surfaces prepared by femtosecond laser patterning and layer-by-layer polyelectrolyte coating. <i>Journal of Colloid and Interface Science</i> , 2020, 575, 286-297.	5.0	13
40	Leveling During Toner Fusing: Effects on Surface Roughness and Gloss of Printed Paper. <i>Journal of Imaging Science and Technology</i> , 2006, 50, 202.	0.3	12
41	Friction Measurement Between Polyester Fibres Using the Fibre Probe SPM. <i>Australian Journal of Chemistry</i> , 2006, 59, 390.	0.5	12
42	Force Interactions of Nonagglomerating Polylactide Particles Obtained through Covalent Surface Grafting with Hydrophilic Polymers. <i>Langmuir</i> , 2013, 29, 8873-8881.	1.6	12
43	Tailoring Soft Polymer Networks Based on Sugars and Fatty Acids toward Pressure Sensitive Adhesive Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2632-2638.	3.2	12
44	Measuring elasticity of wet cellulose fibres with AFM using indentation and a linearized Hertz model. <i>Analytical Methods</i> , 2018, 10, 3820-3823.	1.3	11
45	Understanding the Drying Behavior of Regenerated Cellulose Gel Beads: The Effects of Concentration and Nonsolvents. <i>ACS Nano</i> , 2022, 16, 2608-2620.	7.3	11
46	Thermal calibration of photodiode sensitivity for atomic force microscopy. <i>Review of Scientific Instruments</i> , 2006, 77, 116110.	0.6	10
47	Multi-layer assembly of cellulose nanofibrils in a microfluidic device for the selective capture and release of viable tumor cells from whole blood. <i>Nanoscale</i> , 2020, 12, 21788-21797.	2.8	10
48	Swelling of Cellulose-Based Fibrillar and Polymeric Networks Driven by Ion-Induced Osmotic Pressure. <i>Langmuir</i> , 2020, 36, 12261-12271.	1.6	10
49	Development of mechanical properties of regenerated cellulose beads during drying as investigated by atomic force microscopy. <i>Soft Matter</i> , 2020, 16, 6457-6462.	1.2	10
50	Adhesion properties of regenerated lignocellulosic fibres towards poly(lactic acid) microspheres assessed by colloidal probe technique. <i>Journal of Colloid and Interface Science</i> , 2018, 532, 819-829.	5.0	9
51	Investigation of the cohesive strength of membrane fouling layers formed during cross-flow microfiltration: The effects of pH adjustment on the properties and fouling characteristics of microcrystalline cellulose. <i>Chemical Engineering Research and Design</i> , 2019, 149, 52-64.	2.7	9
52	Effects of the injection grout Silica sol on bentonite. <i>Physics and Chemistry of the Earth</i> , 2011, 36, 1580-1589.	1.2	8
53	AFM adhesion imaging for the comparison of polyelectrolyte complexes and polyelectrolyte multilayers. <i>Soft Matter</i> , 2012, 8, 8298.	1.2	8
54	Structure Development of the Interphase between Drying Cellulose Materials Revealed by In Situ Grazing-Incidence Small-Angle X-ray Scattering. <i>Biomacromolecules</i> , 2021, 22, 4274-4283.	2.6	8

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55	Adsorption of paper strength additives to hardwood fibres with different surface charges and their effect on paper strength. <i>Cellulose</i> , 2022, 29, 2617-2632.	2.4	8
56	Macroscopic cellulose probes for the measurement of polymer grafted surfaces. <i>Cellulose</i> , 2019, 26, 1467-1477.	2.4	7
57	Wet-expandable capsules made from partially modified cellulose. <i>Green Chemistry</i> , 2020, 22, 4581-4592.	4.6	7
58	The adhesive behavior of extracted latex polymers towards silicon oxide and cellulose. <i>International Journal of Adhesion and Adhesives</i> , 2013, 44, 250-258.	1.4	6
59	Solid-state polymer adsorption for surface modification: The role of molecular weight. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 441-450.	5.0	5
60	Spreading of individual toner particles studied using in situ optical microscopy. <i>Journal of Colloid and Interface Science</i> , 2005, 287, 249-260.	5.0	4
61	The Effect of Salt Concentration and Cation Valency on Interactions Between Mucin-Coated Hydrophobic Surfaces. , 2008, , 1-10.		3
62	Note: Particle adhesion and imaging of particle/surface breakage zone. <i>Review of Scientific Instruments</i> , 2012, 83, 106107.	0.6	3
63	Phenomenological analysis of constrained in-plane compression of paperboard using micro-computed tomography Imaging. <i>Nordic Pulp and Paper Research Journal</i> , 2021, 36, 491-502.	0.3	3
64	Use of polyelectrolyte complexes and multilayers from polymers and nanoparticles to create sacrificial bonds between surfaces. <i>Journal of Colloid and Interface Science</i> , 2013, 391, 28-35.	5.0	2
65	Strong and tuneable wet adhesion with rationally designed layer-by-layer assembled triblock copolymer films. <i>Nanoscale</i> , 2016, 8, 18204-18211.	2.8	2
66	The effect of different wear on superhydrophobic wax coatings. <i>Nordic Pulp and Paper Research Journal</i> , 2017, 32, 195-203.	0.3	2