Chris J Wright

List of Publications by Year
in descending order

53 papers	3,939 citations	117571 34 h-index	206029 48 g-index
53 all docs	53 docs citations	53 times ranked	5701 citing authors

#	Article	IF	Citations
1	NanoGenotoxicology: The DNA damaging potential of engineered nanomaterials. Biomaterials, 2009, 30, 3891-3914.	5.7	998
2	Characterisation and application of a novel positively charged nanofiltration membrane for the treatment of textile industry wastewaters. Water Research, 2012, 46, 33-42.	5.3	166
3	Atomic Force Microscopy Study of the Adhesion of Saccharomyces cerevisiae. Journal of Colloid and Interface Science, 2001, 237, 54-61.	5.0	148
4	Positively charged nanofiltration membranes: Review of current fabrication methods and introduction of a novel approach. Advances in Colloid and Interface Science, 2011, 164, 12-20.	7.0	132
5	The role of iron redox state in the genotoxicity of ultrafine superparamagnetic iron oxide nanoparticles. Biomaterials, 2012, 33, 163-170.	5.7	129
6	Use of the atomic force microscope to determine the effect of substratum surface topography on the ease of bacterial removal. Colloids and Surfaces B: Biointerfaces, 2006, 51, 44-53.	2.5	121
7	Superhydrophobic electrospun membrane for heavy metals removal by air gap membrane distillation (AGMD). Desalination, 2017, 420, 318-329.	4.0	119
8	A new technique for membrane characterisation: direct measurement of the force of adhesion of a single particle using an atomic force microscope. Journal of Membrane Science, 1998, 139, 269-274.	4.1	96
9	Direct measurement of the force of adhesion of a single biological cell using an atomic force microscope. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1998, 136, 231-234.	2.3	95
10	The measurement ofBacillus mycoides spore adhesion using atomic force microscopy, simple counting methods, and a spinning disk technique. Biotechnology and Bioengineering, 2002, 79, 170-179.	1.7	92
11	Engineering nanocomposite membranes: Addressing current challenges and future opportunities. Desalination, 2017, 401, 1-15.	4.0	91
12	Direct Measurement of Interactions between Adsorbed Protein Layers Using an Atomic Force Microscope. Journal of Colloid and Interface Science, 1998, 197, 348-352.	5.0	86
13	Application of AFM from microbial cell to biofilm. Scanning, 2010, 32, 134-149.	0.7	84
14	Title is missing!. Biotechnology Letters, 2000, 22, 893-903.	1.1	83
15	Robust superhydrophobic electrospun membrane fabricated by combination of electrospinning and electrospraying techniques for air gap membrane distillation. Desalination, 2018, 446, 70-82.	4.0	83
16	An atomic force microscopy study of the adhesion of a silica sphere to a silica surfaceâ€"effects of surface cleaning. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 157, 117-125.	2.3	81
17	The effect of alginate oligosaccharides on the mechanical properties of Gram-negative biofilms. Biofouling, 2013, 29, 413-421.	0.8	79
18	Fabrication of antibacterial mixed matrix nanocomposite membranes using hybrid nanostructure of silver coated multi-walled carbon nanotubes. Chemical Engineering Journal, 2017, 326, 721-736.	6.6	70

#	Article	IF	Citations
19	Alginate Oligosaccharides Inhibit Fungal Cell Growth and Potentiate the Activity of Antifungals against Candida and Aspergillus spp. PLoS ONE, 2014, 9, e112518.	1.1	70
20	A New Class of Safe Oligosaccharide Polymer Therapy To Modify the Mucus Barrier of Chronic Respiratory Disease. Molecular Pharmaceutics, 2016, 13, 863-872.	2.3	68
21	The application of atomic force microscopy force measurements to the characterisation of microbial surfaces. Surface and Interface Analysis, 2006, 38, 1419-1428.	0.8	64
22	Repeatedin vitrosubculturing alters spore surface properties and virulence ofMetarhizium anisopliae. FEMS Microbiology Letters, 2007, 276, 60-66.	0.7	61
23	An investigation of Pseudomonas aeruginosa biofilm growth on novel nanocellulose fibre dressings. Carbohydrate Polymers, 2016, 137, 191-197.	5.1	60
24	Dextran Coated Ultrafine Superparamagnetic Iron Oxide Nanoparticles: Compatibility with Common Fluorometric and Colorimetric Dyes. Analytical Chemistry, 2011, 83, 3778-3785.	3.2	55
25	A Nanoscale Characterization of the Interaction of a Novel Alginate Oligomer with the Cell Surface and Motility of Pseudomonas aeruginosa. American Journal of Respiratory Cell and Molecular Biology, 2014, 50, 483-492.	1.4	55
26	Modelling of air gap membrane distillation and its application in heavy metals removal. Desalination, 2017, 424, 27-36.	4.0	55
27	In vivo comparison of jellyfish and bovine collagen sponges as prototype medical devices. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1524-1533.	1.6	53
28	FtsW Is a Dispensable Cell Division Protein Required for Z-Ring Stabilization during Sporulation Septation in Streptomyces coelicolor. Journal of Bacteriology, 2008, 190, 5555-5566.	1.0	47
29	Single-walled carbon nanotubes: differential genotoxic potential associated with physico-chemical properties. Nanotoxicology, 2013, 7, 144-156.	1.6	46
30	Direct Quantification of Aspergillus niger Spore Adhesion in Liquid Using an Atomic Force Microscope. Journal of Colloid and Interface Science, 2000, 228, 428-433.	5.0	41
31	Comparison between dual-layer (superhydrophobicâ€“hydrophobic) and single superhydrophobic layer electrospun membranes for heavy metal recovery by air-gap membrane distillation. Desalination, 2018, 439, 31-45.	4.0	40
32	Investigation of UF membranes fouling and potentials as pre-treatment step in desalination and surface water applications. Desalination, 2018, 432, 115-127.	4.0	39
33	The fabrication of iron oxide nanoparticleâ€nanofiber composites by electrospinning and their applications in tissue engineering. Biotechnology Journal, 2017, 12, 1600693.	1.8	38
34	Direct quantification of Aspergillus niger spore adhesion to mica in air using an atomic force microscope. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2000, 173, 205-210.	2.3	37
35	Characterization of Changes to the Cell Surface during the Life Cycle of Streptomyces coelicolor : Atomic Force Microscopy of Living Cells. Journal of Bacteriology, 2007, 189, 2219-2225.	1.0	35
36	High-resolution imaging using a novel atomic force microscope and confocal laser scanning microscope hybrid instrument: essential sample preparation aspects. Histochemistry and Cell Biology, 2008, 130, 909-916.	0.8	34

#	Article	IF	Citations
37	Atomic force microscopy studies of bioprocess engineering surfaces â€“ imaging, interactions and mechanical properties mediating bacterial adhesion. Biotechnology Journal, 2017, 12, 1600698.	1.8	34
38	Atomic force microscopy study of the biofouling and mechanical properties of virgin and industrially fouled reverse osmosis membranes. Desalination, 2017, 404, 313-321.	4.0	32
39	Optimized sample preparation for highâ€resolution AFM characterization of fixed human cells. Journal of Microscopy, 2010, 240, 111-121.	0.8	29
40	In-situ synthesis of magnetic iron-oxide nanoparticle-nanofibre composites using electrospinning. Materials Science and Engineering C, 2017, 70, 512-519.	3.8	29
41	The effects of electrostatic interactions on the rejection of colloids by membrane poresâ€"visualisation and quantification. Chemical Engineering Science, 1999, 54, 369-375.	1.9	28
42	Progesterone induces nanoâ€scale molecular modifications on endometrial epithelial cell surfaces. Biology of the Cell, 2009, 101, 481-493.	0.7	24
43	The antimicrobial effects of the alginate oligomer OligoG CF-5/20 are independent of direct bacterial cell membrane disruption. Scientific Reports, 2017, 7, 44731.	1.6	21
44	Exploring the current state of play for cost-effective water treatment by membranes. Npj Clean Water, 2018, 1, .	3.1	20
45	Measurement of polyphenolâ€"membrane interaction forces during the ultrafiltration of black tea liquor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 335, 148-153.	2.3	17
46	A study of the tensile properties of liquids in confined spaces using an atomic force microscope. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 2885-2908.	1.0	16
47	Morphology, Ultrastructure, and Small Subunit rDNA Phylogeny of the Marine Heterotrophic Flagellate Goniomonas aff. amphinema. Journal of Eukaryotic Microbiology, 2010, 57, 159-170.	0.8	15
48	Atomic Force Microscopy of Biofilmsâ€"Imaging, Interactions, and Mechanics. , 2016, , .		11
49	Ab Initio Prediction of the Performance of Membrane Separation Processes. Comprehensive Chemical Kinetics, 1999, 37, 523-541.	2.3	5
50	MICROSCOPY | Atomic Force Microscopy. , 2014, , 666-675.		4
51	Modification of Schottky interface by the inclusion of DNA interlayer to create metal / organic / inorganic structures. , 2012, , .		2
52	Electrospinning of Functional Nanofibers for Regenerative Medicine: From Bench to Commercial Scale. , 0, , .		1
53	MICROSCOPY | Atomic Force Microscopy. , 1999, , 1418-1425.		0