Peter Eaton

List of Publications by Year
in descending order

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91 papers	3,798 citations	147801 31 h-index	149698 56 g-index
93 all docs	93 docs citations	93 times ranked	6263 citing authors

#	Article	IF	Citations
1	Gold nanoparticles for the development of clinical diagnosis methods. Analytical and Bioanalytical Chemistry, 2008, 391, 943-950.	3.7	448
2	Atomic force microscopy study of the antibacterial effects of chitosans on Escherichia coli and Staphylococcus aureus. Ultramicroscopy, 2008, 108, 1128-1134.	1.9	306
3	A direct comparison of experimental methods to measure dimensions of synthetic nanoparticles. Ultramicroscopy, 2017, 182, 179-190.	1.9	225
4	Mucin/Poly(acrylic acid) Interactions:â€‰ A Spectroscopic Investigation of Mucoadhesion. Biomacromolecules, 2003, 4, 1184-1190.	5.4	133
5	Thermodynamic Evidence for Ca2+-Mediated Self-Aggregation of Lewis X Gold Glyconanoparticles. A Model for Cell Adhesion via Carbohydrateâ^'Carbohydrate Interaction. Journal of the American Chemical Society, 2005, 127, 6192-6197.	13.7	121
6	Poly(perfluoroalkyl methacrylate) Film Structures:Â Surface Organization Phenomena, Surface Energy Determinations, and Force of Adhesion Measurements. Macromolecules, 2000, 33, 8460-8465.	4.8	108
7	Study of the antibacterial effects of chitosans on Bacillus cereus (and its spores) by atomic force microscopy imaging and nanoindentation. Ultramicroscopy, 2009, 109, 854-860.	1.9	78
8	Desulfovibrio alaskensis sp. nov., a sulphate-reducing bacterium from a soured oil reservoir. International Journal of Systematic and Evolutionary Microbiology, 2004, 54, 1747-1752.	1.7	75
9	Mapping the Surface Heterogeneity of a Polymer Blend:Â An Adhesion-Force-Distribution Study Using the Atomic Force Microscope. Langmuir, 2000, 16, 7887-7890.	3.5	74
10	One-pot synthesis of triangular gold nanoplates allowing broad and fine tuning of edge length. Nanoscale, 2010, 2, 2209.	5.6	73
11	Antioxidant activity of chitooligosaccharides upon two biological systems: Erythrocytes and bacteriophages. Carbohydrate Polymers, 2010, 79, 1101-1106.	10.2	71
12	New insights into the use of magnetic force microscopy to discriminate between magnetic and nonmagnetic nanoparticles. Nanotechnology, 2010, 21, 305706.	2.6	59
13	Quaternized cashew gum: An anti-staphylococcal and biocompatible cationic polymer for biotechnological applications. Carbohydrate Polymers, 2017, 157, 567-575.	10.2	57
14	In Situ Synthesis of Silver Nanoparticles in a Hydrogel of Carboxymethyl Cellulose with Phthalated-Cashew Gum as a Promising Antibacterial and Healing Agent. International Journal of Molecular Sciences, 2017, 18, 2399.	4.1	56
15	Effects of Chitooligosaccharides on Human Red Blood Cell Morphology and Membrane Protein Structure. Biomacromolecules, 2008, 9, 3346-3352.	5.4	51
16	Anthelmintic Activity In Vivo of Epiisopiloturine against Juvenile and Adult Worms of Schistosoma mansoni. PLoS Neglected Tropical Diseases, 2015, 9, e0003656.	3.0	51
17	Gold and Goldâ^'Iron Oxide Magnetic Glyconanoparticles:Â Synthesis, Characterization and Magnetic Properties.. Journal of Physical Chemistry B, 2006, 110, 13021-13028.	2.6	47
18	Nanoparticles in Molecular Diagnostics. Progress in Molecular Biology and Translational Science, 2011, 104, 427-488.	1.7	47

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19	Study of antimicrobial activity and atomic force microscopy imaging of the action mechanism of cashew tree gum. Carbohydrate Polymers, 2012, 90, 270-274.	10.2	46
20	Structural and microtribological studies of Tiâ€“Câ€“N based nanocomposite coatings prepared by reactive sputtering. Thin Solid Films, 2005, 472, 64-70.	1.8	45
21	Effect of neem (Azadirachta indica A. Juss) leaf extract on resistant Staphylococcus aureus biofilm formation and Schistosoma mansoni worms. Journal of Ethnopharmacology, 2015, 175, 287-294.	4.1	44
22	Synergistic and antibiofilm properties of ocellatin peptides against multidrug-resistant Pseudomonas aeruginosa. Future Microbiology, 2018, 13, 151-163.	2.0	44
23	Mechanisms of action of antimicrobial peptides ToAP2 and NDBP-5.7 against Candida albicans planktonic and biofilm cells. Scientific Reports, 2020, 10, 10327.	3.3	41
24	Contribution of the cashew gum (Anacardium occidentale L.) for development of layer-by-layer films with potential application in nanobiomedical devices. Materials Science and Engineering C, 2012, 32, 1588-1593.	7.3	40
25	Silver nanoparticle stabilized by hydrolyzed collagen and natural polymers: Synthesis, characterization and antibacterial-antifungal evaluation. International Journal of Biological Macromolecules, 2019, 135, 808-814.	7.5	39
26	Characterization and Biological Activities of Ocellatin Peptides from the Skin Secretion of the Frog Leptodactylus pustulatus. Journal of Natural Products, 2015, 78, 1495-1504.	3.0	37
27	Cardiolipin, a key component to mimic the E. coli bacterial membrane in model systems revealed by dynamic light scattering and steady-state fluorescence anisotropy. Analytical and Bioanalytical Chemistry, 2010, 398, 1357-1366.	3.7	36
28	Infection by Plasmodium changes shape and stiffness of hepatic cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 17-19.	3.3	36
29	Understanding of the importance of the spore coat structure and pigmentation in theBacillus subtilisspore resistance to low-pressure plasma sterilization. Journal Physics D: Applied Physics, 2016, 49, 285401.	2.8	36
30	Adhesion Force Mapping of Polymer Surfaces:Â Factors Influencing Force of Adhesion. Langmuir, 2002, 18, 3387-3389.	3.5	35
31	Chitosan-based silver nanoparticles: A study of the antibacterial, antileishmanial and cytotoxic effects. Journal of Bioactive and Compatible Polymers, 2017, 32, 397-410.	2.1	35
32	Probing Surface Properties of Cytochrome c at Au Bionanoconjugates. Journal of Physical Chemistry C, 2008, 112, 16340-16347.	3.1	32
33	Layer-by-Layer films based on biopolymers extracted from red seaweeds and polyaniline for applications in electrochemical sensors of chromium VI. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 200, 9-21.	3.5	31
34	Acetylated cashew gum-based nanoparticles for the incorporation of alkaloid epiisopiloturine. International Journal of Biological Macromolecules, 2019, 128, 965-972.	7.5	31
35	Anthelmintic, Antibacterial and Cytotoxicity Activity of Imidazole Alkaloids fromPilocarpus microphyllusLeaves. Phytotherapy Research, 2017, 31, 624-630.	5.8	30
36	Antibacterial application of natural and carboxymethylated cashew gum-based silver nanoparticles produced by microwave-assisted synthesis. Carbohydrate Polymers, 2020, 241, 115260.	10.2	27

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37	Europium Polyoxometalates Encapsulated in Silica Nanoparticles â€“ Characterization and Photoluminescence Studies. European Journal of Inorganic Chemistry, 2013, 2013, 2877-2886.	2.0	26
38	Antibacterial, antibiofilm and cytotoxic activities of Terminalia fagifolia Mart. extract and fractions. Annals of Clinical Microbiology and Antimicrobials, 2015, 14, 25.	3.8	26
39	A multiparametric study of gold nanoparticles cytotoxicity, internalization and permeability using anin vitromodel of bloodâ€“brain barrier. Influence of size, shape and capping agent. Nanotoxicology, 2019, 13, 990-1004.	3.0	26
40	Cytotoxic activity of poly-É›-caprolactone lipid-core nanocapsules loaded with lycopene-rich extract from red guava (Psidium guajava L.) on breast cancer cells. Food Research International, 2020, 136, 109548.	6.2	26
41	Identification of Eschweilenol C in derivative of Terminalia fagifolia Mart. and green synthesis of bioactive and biocompatible silver nanoparticles. Industrial Crops and Products, 2019, 137, 52-65.	5.2	25
42	Sustainably produced cashew gum-capped zinc oxide nanoparticles show antifungal activity against Candida parapsilosis. Journal of Cleaner Production, 2020, 247, 119085.	9.3	25
43	Improved model systems for bacterial membranes from differing species: Theimportance of varying composition in PE/PG/cardiolipin ternary mixtures. Molecular Membrane Biology, 2012, 29, 207-217.	2.0	24
44	ATR/FT-IR and Raman Microscopic Investigation of Diffusion and Distribution of Silane Coupling Agents in PVC Films. Applied Spectroscopy, 2000, 54, 508-516.	2.2	23
45	Combined Nanoindentation and Adhesion Force Mapping Using the Atomic Force Microscope:â€‰ Investigations of a Filled Polysiloxane Coating. Langmuir, 2002, 18, 10011-10015.	3.5	22
46	Novel Layer-by-Layer Interfacial [Ni(salen)]â^'Polyelectrolyte Hybrid Films. Langmuir, 2010, 26, 10842-10853.	3.5	22
47	The Antioxidant Peptide Salamandrin-I: First Bioactive Peptide Identified from Skin Secretion of Salamandra Genus (Salamandra salamandra). Biomolecules, 2020, 10, 512.	4.0	22
48	Imaging Gold Nanoparticles for DNA Sequence Recognition in Biomedical Applications. IEEE Transactions on Nanobioscience, 2007, 6, 282-288.	3.3	21
49	Synergistic effects of in vitro combinations of piplartine, epiisopiloturine and praziquantel against Schistosoma mansoni. Biomedicine and Pharmacotherapy, 2017, 88, 488-499.	5.6	21
50	Thaulin-1: The first antimicrobial peptide isolated from the skin of a Patagonian frog Pleurodema thaul (Anura: Leptodactylidae: Leiuperinae) with activity against Escherichia coli. Gene, 2017, 605, 70-80.	2.2	21
51	A thin PANI and carrageenanâ€“gold nanoparticle film on a flexible gold electrode as a conductive and low-cost platform for sensing in a physiological environment. Journal of Materials Science, 2017, 52, 13365-13377.	3.7	21
52	Materials analysis using confocal Raman microscopy. Macromolecular Symposia, 1999, 141, 247-262.	0.7	20
53	Characterization of membrane protein reconstitution in LUVs of different lipid composition by fluorescence anisotropy. Journal of Pharmaceutical and Biomedical Analysis, 2009, 49, 276-281.	2.8	20
54	In situ andex situ FTIR-ATR and Raman microscopic studies of organosilane hydrolysis and the effect of hydrolysis on silane diffusion through a polymeric film. Journal of Applied Polymer Science, 2001, 82, 2016-2026.	2.6	19

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55	Novel Ocellatin Peptides Mitigate LPS-induced ROS Formation and NF-kB Activation in Microglia and Hippocampal Neurons. Scientific Reports, 2020, 10, 2696.	3.3	19
56	Anti-leishmanial activity of the antimicrobial peptide DRS 01 observed in Leishmania infantum (syn.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.3	18
57	Ocellatinâ€<scp>PT</scp> antimicrobial peptides: Highâ€resolution microscopy studies in antileishmania models and interactions with mimetic membrane systems. Biopolymers, 2016, 105, 873-886.	2.4	18
58	Intragenic Antimicrobial Peptide Hs02 Hampers the Proliferation of Single- and Dual-Species Biofilms of P. aeruginosa and S. aureus: A Promising Agent for Mitigation of Biofilm-Associated Infections. International Journal of Molecular Sciences, 2019, 20, 3604.	4.1	17
59	Poly(di-1H,1H,2H,2H-perfluoroalkylitaconate) films: surface organisation phenomena, surface energy determinations and force of adhesion measurements. Polymer, 2002, 43, 1727-1734.	3.8	16
60	Glyconanoparticleâ€“DNA Interactions: An Atomic Force Microscopy Study. IEEE Transactions on Nanobioscience, 2007, 6, 309-318.	3.3	15
61	Antifungal and anti-inflammatory potential of eschweilenol C-rich fraction derived from Terminalia fagifolia Mart. Journal of Ethnopharmacology, 2019, 240, 111941.	4.1	14
62	Mechanistic Insights into the Leishmanicidal and Bactericidal Activities of Batroxicidin, a Cathelicidin-Related Peptide from a South American Viper (Bothrops atrox). Journal of Natural Products, 2021, 84, 1787-1798.	3.0	14
63	AFM and Electron Microscopy Study of the Unusual Aggregation Behavior of Metallosurfactants Based on Iron(II) Complexes with Bipyridine Ligands. Langmuir, 2007, 23, 7951-7957.	3.5	13
64	Copper nanoparticles stabilized with cashew gum: Antimicrobial activity and cytotoxicity against 4T1 mouse mammary tumor cell line. Journal of Biomaterials Applications, 2019, 34, 188-197.	2.4	13
65	Evaluation of chitoligosaccharides effect upon probiotic bacteria. International Journal of Biological Macromolecules, 2012, 50, 148-152.	7.5	12
66	Artifacts and Practical Issues in Atomic Force Microscopy. Methods in Molecular Biology, 2019, 1886, 3-28.	0.9	12
67	Fluoroquinolone Metalloantibiotics: A Promising Approach against Methicillin-Resistant Staphylococcus aureus. International Journal of Environmental Research and Public Health, 2020, 17, 3127.	2.6	10
68	Promising self-emulsifying drug delivery system loaded with lycopene from red guava (Psidium guajava) Tj ETQq0 0 0 rgBT /Overlock 10 Nanotechnology, 2021, 12, .	3.7	10
69	Structural Characterization of Self-Assembled Monolayers of Neoglycoconjugates Using Atomic Force Microscopy. Langmuir, 2005, 21, 6142-6144.	3.5	9
70	Ageing of vinyl emulsion paintsâ€”an atomic force microscopy study. Surface and Interface Analysis, 2011, 43, 1160-1164.	1.8	9
71	Controlled adsorption of cytochrome c to nanostructured gold surfaces. Journal of Nanoparticle Research, 2012, 14, 1.	1.9	9
72	A soft strategy for covalent immobilization of glutathione and cysteine capped quantum dots onto amino functionalized surfaces. Chemical Communications, 2013, 49, 2518.	4.1	9

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73	Characterization and optimization of the haemozoin-like crystal (HLC) assay to determine Hz inhibiting effects of anti-malarial compounds. Malaria Journal, 2015, 14, 403.	2.3	9
74	Ionic self-assembly reactions of a porphyrin octacation. Tetrahedron, 2016, 72, 6988-6995.	1.9	8
75	Antibacterial activity of novel peptide derived from Cry1Ab16 toxin and development of LbL films for foodborne pathogens control. Materials Science and Engineering C, 2017, 75, 503-509.	7.3	8
76	Synthesis of gold nanocubes in aqueous solution with remarkable shape-selectivity. Journal of Porphyrins and Phthalocyanines, 2011, 15, 441-448.	0.8	7
77	Raman microscopic studies of polymer surfaces and interfaces. Analusis - European Journal of Analytical Chemistry, 2000, 28, 30-33.	0.4	7
78	Neuroprotective effects on microglia and insights into the structureâ€“activity relationship of an antioxidant peptide isolated from Pelophylax perezi. Journal of Cellular and Molecular Medicine, 2022, 26, 2793-2807.	3.6	7
79	The Effects of Incorporated Silicone Oils and Calcium Carbonate on the Resistance to Settlement and the Antifouling Performance of a Silicone Elastomer. Journal of Adhesion Science and Technology, 2011, 25, 2183-2198.	2.6	6
80	The peptide secreted at the water to land transition in a model amphibian has antioxidant effects. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20211531.	2.6	6
81	Silver Nanostars-Coated Surfaces with Potent Biocidal Properties. International Journal of Environmental Research and Public Health, 2020, 17, 7891.	2.6	5
82	The Arsenal of Bioactive Molecules in the Skin Secretion of Urodele Amphibians. Frontiers in Pharmacology, 2021, 12, 810821.	3.5	5
83	Atomic Force Microscopy Is a Potent Technique to Study Eosinophil Activation. Frontiers in Physiology, 2019, 10, 1261.	2.8	4
84	Nanoparticles as template for porphyrin nanostructure growth. Journal of Porphyrins and Phthalocyanines, 2019, 23, 526-533.	0.8	3
85	AFM instrumentation. , 2010, , 9-48.		2
86	AFM image processing and analysis. , 2010, , 103-120.		2
87	BR-bombesin: a novel bombesin-related peptide from the skin secretion of the Chaco tree frog (Boana) Tj ETQq1 1 0.784314 rgBT /Ov	2.7	2
88	Measuring AFM images. , 2010, , 82-102.		1
89	Acetylated cashew-gum-based silver nanoparticles for the development of latent fingerprints on porous surfaces. Environmental Nanotechnology, Monitoring and Management, 2020, 14, 100383.	2.9	1
90	<title>Confocal Raman microscopy for the depth profiling of polymer/polymer and polymer/glass interfaces</title>. , 2000, 4129, 260.		0

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91	Layer-by-layer films based on polyaniline, titanate nanotubes, and cetyl trimethyl ammonium bromide for antifungal coatings. Journal of Coatings Technology Research, 2019, 16, 1253-1262.	2.5	0