

Bettye Ls Maddux

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/426238/publications.pdf>

Version: 2024-02-01

28
papers

5,136
citations

304743

22
h-index

501196

28
g-index

29
all docs

29
docs citations

29
times ranked

6044
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Greener Nanosynthesis. <i>Chemical Reviews</i> , 2007, 107, 2228-2269.	47.7	1,168
2	Molecular mechanistic origin of the toughness of natural adhesives, fibres and composites. <i>Nature</i> , 1999, 399, 761-763.	27.8	1,153
3	Does Abalone Nacre Form by Heteroepitaxial Nucleation or by Growth through Mineral Bridges?. <i>Chemistry of Materials</i> , 1997, 9, 1731-1740.	6.7	387
4	<i>Escherichia coli</i> RNA Polymerase Activity Observed Using Atomic Force Microscopy. <i>Biochemistry</i> , 1997, 36, 461-468.	2.5	341
5	Fast imaging and fast force spectroscopy of single biopolymers with a new atomic force microscope designed for small cantilevers. <i>Review of Scientific Instruments</i> , 1999, 70, 4300-4303.	1.3	246
6	Direct Observation of One-Dimensional Diffusion and Transcription by <i>Escherichia coli</i> RNA Polymerase. <i>Biophysical Journal</i> , 1999, 77, 2284-2294.	0.5	238
7	Direct Observation of the Transition from Calcite to Aragonite Growth as Induced by Abalone Shell Proteins. <i>Biophysical Journal</i> , 2000, 79, 3307-3312.	0.5	158
8	Systematic Evaluation of Nanomaterial Toxicity: Utility of Standardized Materials and Rapid Assays. <i>ACS Nano</i> , 2011, 5, 4688-4697.	14.6	152
9	Biological applications of the AFM: From single molecules to organs. <i>International Journal of Imaging Systems and Technology</i> , 1997, 8, 151-161.	4.1	132
10	Carbon nanotubes as probes for atomic force microscopy. <i>Nanotechnology</i> , 2000, 11, 1-5.	2.6	132
11	Reversible Binding of DNA to Mica for AFM Imaging. <i>Langmuir</i> , 1996, 12, 5905-5908.	3.5	122
12	Modification of calcite crystal growth by abalone shell proteins: an atomic force microscope study. <i>Biophysical Journal</i> , 1997, 72, 1425-1433.	0.5	112
13	Micromechanical and structural properties of a pennate diatom investigated by atomic force microscopy. <i>Journal of Microscopy</i> , 2001, 202, 518-532.	1.8	111
14	Methods for fabricating and characterizing a new generation of biomimetic materials. <i>Materials Science and Engineering C</i> , 1999, 7, 37-43.	7.3	101
15	<i>In vivo</i> biodistribution and toxicity depends on nanomaterial composition, size, surface functionalisation and route of exposure. <i>Journal of Experimental Nanoscience</i> , 2008, 3, 195-206.	2.4	96
16	Microtubule-dependent Oligomerization of Tau. <i>Journal of Biological Chemistry</i> , 2003, 278, 33298-33304.	3.4	91
17	Rapid imaging of calcite crystal growth using atomic force microscopy with small cantilevers. <i>Applied Physics Letters</i> , 1998, 73, 1658-1660.	3.3	74
18	Oriented, Active <i>Escherichia coli</i> RNA Polymerase: An Atomic Force Microscope Study. <i>Biophysical Journal</i> , 1999, 76, 1024-1033.	0.5	69

#	ARTICLE	IF	CITATIONS
19	Aerosolized ZnO Nanoparticles Induce Toxicity in Alveolar Type II Epithelial Cells at the Air-Liquid Interface. <i>Toxicological Sciences</i> , 2012, 125, 450-461.	3.1	58
20	Visualization of Poly(A)-Binding Protein Complex Formation with Poly(A) RNA Using Atomic Force Microscopy. <i>Journal of Structural Biology</i> , 1997, 119, 109-117.	2.8	48
21	Proactively designing nanomaterials to enhance performance and minimise hazard. <i>International Journal of Nanotechnology</i> , 2008, 5, 124.	0.2	44
22	A Novel Approach for Analyzing the Structure of DNA Modified by Benzo[a]pyrene Diol Epoxide at Single-Molecule Resolution. <i>Chemical Research in Toxicology</i> , 2000, 13, 351-355.	3.3	22
23	Discerning nature's mechanism for making complex biocomposite crystals. <i>Journal of Crystal Growth</i> , 2000, 211, 116-121.	1.5	19
24	The Potential of a Diatom-Based Photosynthetic Biorefinery for Biofuels and Valued Co-Products. <i>Current Biotechnology</i> , 2016, 5, 237-248.	0.4	17
25	Recent Highlights from Atomic Force Microscopy of DNA. <i>Journal of Biomolecular Structure and Dynamics</i> , 2000, 17, 271-275.	3.5	13
26	The importance of molecular structure and conformation: learning with scanning probe microscopy. <i>Progress in Biophysics and Molecular Biology</i> , 2000, 74, 93-113.	2.9	12
27	Interaction of an ultimate carcinogen, benzo[a]pyrene diol epoxide, with nucleosomal core particles: Apparent lack of protection of DNA by histone proteins. <i>Molecular Carcinogenesis</i> , 1989, 1, 245-252.	2.7	11
28	Monoalkyl Tin Nano-Cluster Films Reveal a Low Environmental Impact under Simulated Natural Conditions. <i>Environmental Toxicology and Chemistry</i> , 2019, 38, 2651-2658.	4.3	0