

Huabin Wang

List of Publications by Year in descending order

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36
all docs

36
docs citations

36
times ranked

961
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of Capsular Polysaccharides in Biofilm Formation: An AFM Nanomechanics Study. ACS Applied Materials & Interfaces, 2015, 7, 13007-13013.	8.0	58
2	Atomic Force Microscopy Reveals the Mechanobiology of Lytic Peptide Action on Bacteria. Langmuir, 2015, 31, 6164-6171.	3.5	48
3	Nanotoxicity of Silver Nanoparticles on HEK293T Cells: A Combined Study Using Biomechanical and Biological Techniques. ACS Omega, 2018, 3, 6770-6778.	3.5	42
4	Full-color carbon dots with multiple red-emission tuning: on/off sensors, in vitro and in vivo multicolor bioimaging. Journal of Materials Science, 2019, 54, 6815-6825.	3.7	42
5	Near-Field Nanoscopic Terahertz Imaging of Single Proteins. Small, 2021, 17, e2005814.	10.0	41
6	Nanomechanics measurements of live bacteria reveal a mechanism for bacterial cell protection: the polysaccharide capsule in Klebsiella is a responsive polymer hydrogel that adapts to osmotic stress. Soft Matter, 2013, 9, 7560.	2.7	40
7	Influence of Fimbriae on Bacterial Adhesion and Viscoelasticity and Correlations of the Two Properties with Biofilm Formation. Langmuir, 2017, 33, 100-106.	3.5	39
8	Detecting melanoma with a terahertz spectroscopy imaging technique. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 234, 118229.	3.9	32
9	Interrogation of drug effects on HeLa cells by exploiting new AFM mechanical biomarkers. RSC Advances, 2017, 7, 43764-43771.	3.6	29
10	Single cell imaging with near-field terahertz scanning microscopy. Cell Proliferation, 2020, 53, e12788.	5.3	29
11	Stigmergy. Communicative and Integrative Biology, 2013, 6, e27331.	1.4	28
12	Stigmergy co-ordinates multicellular collective behaviours during Myxococcus xanthus surface migration. Scientific Reports, 2016, 6, 26005.	3.3	27
13	Terahertz, infrared and Raman absorption spectra of tyrosine enantiomers and racemic compound. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 254, 119611.	3.9	27
14	AFM lateral force calibration for an integrated probe using a calibration grating. Ultramicroscopy, 2014, 136, 193-200.	1.9	24
15	Imaging brain tissue slices with terahertz near-field microscopy. Biotechnology Progress, 2019, 35, e2741.	2.6	22
16	Signal detection techniques for scattering-type scanning near-field optical microscopy. Applied Spectroscopy Reviews, 2018, 53, 806-835.	6.7	21
17	Terahertz Spectroscopic Signatures of Microcystin Aptamer Solution Probed with a Microfluidic Chip. Sensors, 2019, 19, 534.	3.8	13
18	Fabrication and application of high quality poly(dimethylsiloxane) stamps by gamma ray irradiation. Journal of Materials Chemistry, 2011, 21, 4279.	6.7	10

#	ARTICLE	IF	CITATIONS
19	Revealing the Effects of Curcumin on SH-SY5Y Neuronal Cells: A Combined Study from Cellular Viability, Morphology, and Biomechanics. <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 4273-4279.	5.2	9
20	Study on an artificial phenomenon observed in terahertz biological imaging. <i>Biomedical Optics Express</i> , 2021, 12, 3133.	2.9	9
21	Evaluation of the Radial Deformability of Poly(dG) $\hat{\wedge}$ Poly(dC) DNA and G4-DNA Using Vibrating Scanning Polarization Force Microscopy. <i>Langmuir</i> , 2010, 26, 7523-7528.	3.5	8
22	Synthesis of novel rambutan-like graphene@aluminum composite spheres and non-destructive terahertz characterization. <i>RSC Advances</i> , 2019, 9, 3486-3492.	3.6	8
23	Label-free study on the effect of a bioactive constituent on glioma cells in vitro using terahertz ATR spectroscopy. <i>Biomedical Optics Express</i> , 2022, 13, 2380.	2.9	8
24	Molecular Expansion of an Individual Coiled DNA on a Graphite Surface. <i>Langmuir</i> , 2011, 27, 2405-2410.	3.5	7
25	Synchrotron Radiation-Based FTIR Microspectroscopic Imaging of Traumatically Injured Mouse Brain Tissue Slices. <i>ACS Omega</i> , 2020, 5, 29698-29705.	3.5	7
26	Measurement of the interconnected turgor pressure and envelope elasticity of live bacterial cells. <i>Soft Matter</i> , 2021, 17, 2042-2049.	2.7	7
27	INVESTIGATION ON THE MORPHOLOGY OF PRECIPITATED CHEMICALS FROM TE BUFFER ON SOLID SUBSTRATES. <i>Surface Review and Letters</i> , 2007, 14, 1121-1128.	1.1	6
28	Study of Radial Compression Elasticity of Single Xanthan Molecules by Vibrating Scanning Polarization Force Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 3864-3867.	0.9	6
29	Influence of the PM2.5 Water-Soluble Compound on the Biophysical Properties of A549 Cells. <i>Langmuir</i> , 2021, 37, 4042-4048.	3.5	5
30	Terahertz Plasmon-Induced Transparency Effect in Parallel Plate Waveguide. <i>IEEE Access</i> , 2021, 9, 16279-16285.	4.2	5
31	ORGANIC SOLVENT-ASSISTED TRANSFER PRINTING ON HYDROPHOBIC POLYMER SUBSTRATE WITH HIGH EFFICIENCY. <i>Surface Review and Letters</i> , 2008, 15, 763-768.	1.1	4
32	Effects of stimulated aggrecanlysis on nanoscale morphological and mechanical properties of wild-type and aggrecanase-resistant mutant mice cartilages. <i>European Physical Journal E</i> , 2017, 40, 72.	1.6	4
33	Intracellular localisation of proteins to specific cellular areas by nanocapsule mediated delivery. <i>Journal of Drug Targeting</i> , 2017, 25, 724-733.	4.4	2
34	VISUALIZATION EX SITU OF SINGLE DNA MOLECULES INCUBATION: A FIRST STEP FOR QUANTITATIVE ANALYSIS ON MULTI-SITE DEGRADATION AND ENZYMATIc KINETICS. <i>Surface Review and Letters</i> , 2009, 16, 79-85.	1.1	1
35	Mechanical $\hat{\wedge}$ electrochemical coupling theory of bacterial cells. <i>International Journal of Solids and Structures</i> , 2022, 252, 111804.	2.7	0