

William F Heinz

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

1,383
citations

623734

14
h-index

526287

27
g-index

31
all docs

31
docs citations

31
times ranked

1858
citing authors

#	ARTICLE	IF	CITATIONS
1	Relative Microelastic Mapping of Living Cells by Atomic Force Microscopy. <i>Biophysical Journal</i> , 1998, 74, 1564-1578.	0.5	484
2	Spatially resolved force spectroscopy of biological surfaces using the atomic force microscope. <i>Trends in Biotechnology</i> , 1999, 17, 143-150.	9.3	321
3	Relative Surface Charge Density Mapping with the Atomic Force Microscope. <i>Biophysical Journal</i> , 1999, 76, 528-538.	0.5	129
4	Coexpression of NOS2 and COX2 accelerates tumor growth and reduces survival in estrogen receptor-negative breast cancer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13030-13035.	7.1	81
5	Microelastic properties of lung cell-derived extracellular matrix. <i>Acta Biomaterialia</i> , 2011, 7, 96-105.	8.3	57
6	High Fidelity Functional Patterns of an Extracellular Matrix Protein by Electron Beam-Based Inactivation. <i>Journal of the American Chemical Society</i> , 2007, 129, 59-67.	13.7	38
7	Inducible nitric oxide synthase-derived extracellular nitric oxide flux regulates proinflammatory responses at the single cell level. <i>Redox Biology</i> , 2020, 28, 101354.	9.0	35
8	The Natural Product Butylcycloheptyl Prodiginine Binds Pre-miR-21, Inhibits Dicer-Mediated Processing of Pre-miR-21, and Blocks Cellular Proliferation. <i>Cell Chemical Biology</i> , 2019, 26, 1133-1142.e4.	5.2	30
9	Brilliant blue, green, yellow, and red fluorescent diamond particles: synthesis, characterization, and multiplex imaging demonstrations. <i>Nanoscale</i> , 2019, 11, 11584-11595.	5.6	22
10	Reconstructing Local Interaction Potentials from Perturbations to the Thermally Driven Motion of an Atomic Force Microscope Cantilever. <i>Journal of Physical Chemistry B</i> , 2000, 104, 622-626.	2.6	21
11	Probing deep interaction potentials with white-noise-driven atomic force microscope cantilevers. <i>Applied Physics Letters</i> , 2000, 76, 2952-2954.	3.3	18
12	Characterizing and circumventing sequence restrictions for synthesis of circular RNA <i>in vitro</i> . <i>Nucleic Acids Research</i> , 2021, 49, e35-e35.	14.5	17
13	Synchronous RNA conformational changes trigger ordered phase transitions in crystals. <i>Nature Communications</i> , 2021, 12, 1762.	12.8	17
14	Electron beam patterning of fibronectin nanodots that support focal adhesion formation. <i>Soft Matter</i> , 2007, 3, 1280.	2.7	16
15	Getting Physical with Your Chemistry: Mechanically Investigating Local Structure and Properties of Surfaces with the Atomic Force Microscope. <i>Journal of Chemical Education</i> , 2005, 82, 695.	2.3	14
16	Truncated tetrahedral RNA nanostructures exhibit enhanced features for delivery of RNAi substrates. <i>Nanoscale</i> , 2020, 12, 2555-2568.	5.6	14
17	An <i>in vitro</i> tumorigenesis model based on live-cell-generated oxygen and nutrient gradients. <i>Communications Biology</i> , 2021, 4, 477.	4.4	13
18	Laser inactivation protein patterning of cell culture microenvironments. <i>Lab on A Chip</i> , 2011, 11, 3336.	6.0	11

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19	Restricted exchange microenvironments for cell culture. <i>BioTechniques</i> , 2018, 64, 101-109.	1.8	7
20	Density of γ 70 promoter-like sites in the intergenic regions dictates the redistribution of RNA polymerase during osmotic stress in <i>Escherichia coli</i> . <i>Nucleic Acids Research</i> , 2019, 47, 3970-3985.	14.5	7
21	Genetic basis for an evolutionary shift from ancestral preaxial to postaxial limb polarity in non-urodele vertebrates. <i>Current Biology</i> , 2021, 31, 4923-4934.e5.	3.9	7
22	Computing Spatial Information from Fourier Coefficient Distributions. <i>Journal of Membrane Biology</i> , 2011, 241, 59-68.	2.1	5
23	Spatial information analysis of chemotactic trajectories. <i>Journal of Biological Physics</i> , 2012, 38, 365-381.	1.5	5
24	Spatial information dynamics during early zebrafish development. <i>Developmental Biology</i> , 2013, 377, 126-137.	2.0	4
25	Nanometer-Scale Embossing of Polydimethylsiloxane. <i>Langmuir</i> , 2010, 26, 2187-2190.	3.5	3
26	Micropatterns of an Extracellular Matrix Protein with Defined Information Content. <i>Langmuir</i> , 2007, 23, 10883-10886.	3.5	2
27	A combined approach to characterize ligand-induced solid \leftrightarrow solid phase transitions in biomacromolecular crystals. <i>Journal of Applied Crystallography</i> , 2021, 54, 787-796.	4.5	2
28	The mechanism driving a solid \leftrightarrow solid phase transition in a biomacromolecular crystal. <i>IUCr</i> , 2021, 8, 655-664.	2.2	2
29	Dependence of phase transition uniformity on crystal sizes characterized using birefringence. <i>Structural Dynamics</i> , 2021, 8, 034301.	2.3	1
30	<title>Single-molecule probes</title>. , 2001, , .		0