

Stephanie Allen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/183735/publications.pdf>

Version: 2024-02-01

87
papers

3,494
citations

126907

33
h-index

149698

56
g-index

90
all docs

90
docs citations

90
times ranked

4581
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal and Chemical Stability of Diphenylalanine Peptide Nanotubes: Implications for Nanotechnological Applications. <i>Langmuir</i> , 2006, 22, 1313-1320.	3.5	349
2	Detection of Antigen-Antibody Binding Events with the Atomic Force Microscope. <i>Biochemistry</i> , 1997, 36, 7457-7463.	2.5	340
3	Direct real-time molecular scale visualisation of the degradation of condensed DNA complexes exposed to DNase I. <i>Nucleic Acids Research</i> , 2003, 31, 4001-4005.	14.5	129
4	Characterization of the Surfaces Generated by Liposome Binding to the Modified Dextran Matrix of a Surface Plasmon Resonance Sensor Chip. <i>Analytical Biochemistry</i> , 2000, 280, 29-35.	2.4	128
5	Direct Observation of the Release of Phenylalanine from Diphenylalanine Nanotubes. <i>Journal of the American Chemical Society</i> , 2006, 128, 6903-6908.	13.7	112
6	Discriminating small molecule DNA binding modes by single molecule force spectroscopy. <i>FEBS Letters</i> , 2002, 510, 154-158.	2.8	96
7	Using the Bending Beam Model to Estimate the Elasticity of Diphenylalanine Nanotubes. <i>Langmuir</i> , 2007, 23, 7443-7446.	3.5	96
8	Precision Assembly of Complex Cellular Microenvironments using Holographic Optical Tweezers. <i>Scientific Reports</i> , 2015, 5, 8577.	3.3	88
9	Immunological and Structural Properties of a Pectic Polymer from <i>Glinus oppositifolius</i> . <i>Glycobiology</i> , 2007, 17, 1299-1310.	2.5	77
10	Chemistry and formulations for siRNA therapeutics. <i>Chemical Society Reviews</i> , 2013, 42, 7983.	38.1	77
11	Substrate induced differentiation of human mesenchymal stem cells on hydrogels with modified surface chemistry and controlled modulus. <i>Soft Matter</i> , 2011, 7, 6501.	2.7	73
12	An Atomic Force Microscopy Study of the Effect of Nanoscale Contact Geometry and Surface Chemistry on the Adhesion of Pharmaceutical Particles. <i>Pharmaceutical Research</i> , 2004, 21, 953-961.	3.5	60
13	The <i>Bacillus subtilis</i> DnaD and DnaB Proteins Exhibit Different DNA Remodelling Activities. <i>Journal of Molecular Biology</i> , 2005, 351, 66-75.	4.2	60
14	Measurement of interaction forces between fibrinogen coated probes and mica surface with the atomic force microscope: The pH and ionic strength effect. <i>Biointerphases</i> , 2008, 3, 1-8.	1.6	59
15	Pectic polysaccharides from <i>Biophytum petersianum</i> Klotzsch, and their activation of macrophages and dendritic cells. <i>Glycobiology</i> , 2008, 18, 1074-1084.	2.5	58
16	Characterization of particle-interactions by atomic force microscopy: effect of contact area. <i>Pharmaceutical Research</i> , 2003, 20, 508-514.	3.5	56
17	Responsive hybrid block co-polymer conjugates of proteins-controlled architecture to modulate substrate specificity and solution behaviour. <i>Polymer Chemistry</i> , 2011, 2, 1567.	3.9	52
18	Dendron Arrays for the Force-Based Detection of DNA Hybridization Events. <i>Journal of the American Chemical Society</i> , 2007, 129, 9349-9355.	13.7	51

#	ARTICLE	IF	CITATIONS
19	Responsive polyelectrolyte complexes for triggered release of nucleic acid therapeutics. <i>Chemical Communications</i> , 2010, 46, 5421.	4.1	50
20	The influence of epitope availability on atomic-force microscope studies of antigen-antibody interactions. <i>Biochemical Journal</i> , 1999, 341, 173-178.	3.7	48
21	Mechanical Fingerprints of DNA Drug Complexes. <i>Single Molecules</i> , 2002, 3, 97-103.	0.9	47
22	Directional Loading and Stimulation of PcrA Helicase by the Replication Initiator Protein RepD. <i>Journal of Molecular Biology</i> , 2007, 371, 336-348.	4.2	47
23	Insights into the influence of the cooling profile on the reconstitution times of amorphous lyophilized protein formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 247-254.	4.3	46
24	Atomic force microscopy in analytical biotechnology. <i>Trends in Biotechnology</i> , 1997, 15, 101-105.	9.3	45
25	Differential scanning calorimetry and scanning thermal microscopy analysis of pharmaceutical materials. <i>International Journal of Pharmaceutics</i> , 2002, 243, 71-82.	5.2	42
26	pH-Dependent Behavior of Surface-immobilized Artificial Leucine Zipper Proteins. <i>Langmuir</i> , 2004, 20, 7747-7752.	3.5	41
27	Multicomponent Synthetic Polymers with Viral-Mimetic Chemistry for Nucleic Acid Delivery. <i>Molecular Pharmaceutics</i> , 2012, 9, 1-13.	4.6	40
28	Single-Molecule Atomic Force Spectroscopy Reveals that DnaD Forms Scaffolds and Enhances Duplex Melting. <i>Journal of Molecular Biology</i> , 2008, 377, 706-714.	4.2	39
29	DnaG interacts with a linker region that joins the N- and C-domains of DnaB and induces the formation of 3-fold symmetric rings. <i>Nucleic Acids Research</i> , 2004, 32, 2977-2986.	14.5	38
30	Influence of Architecture on the Kinetic Stability of Molecular Assemblies. <i>Journal of the American Chemical Society</i> , 2004, 126, 1318-1319.	13.7	38
31	The Bacillus subtilis Primosomal Protein DnaD Untwists Supercoiled DNA. <i>Journal of Bacteriology</i> , 2006, 188, 5487-5493.	2.2	37
32	Discovery of Novel Tacrine-Pyrimidone Hybrids as Potent Dual AChE/GSK-3 Inhibitors for the Treatment of Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 7483-7506.	6.4	37
33	AFM Studies on the Role of the Protein RdgC in Bacterial DNA Recombination. <i>Journal of Molecular Biology</i> , 2005, 350, 254-262.	4.2	36
34	Probing DNA Duplex Formation and DNA-Drug Interactions by the Quartz Crystal Microbalance Technique. <i>Langmuir</i> , 2001, 17, 8300-8304.	3.5	35
35	Dimerization and DNA-dependent aggregation of the Escherichia coli nucleoid protein and chaperone CbpA. <i>Molecular Microbiology</i> , 2010, 77, 1289-1300.	2.5	35
36	The influence of epitope availability on atomic-force microscope studies of antigen-antibody interactions. <i>Biochemical Journal</i> , 1999, 341, 173.	3.7	33

#	ARTICLE	IF	CITATIONS
37	Single-Molecule Investigations of RNA Dissociation. <i>Biophysical Journal</i> , 2004, 86, 3811-3821.	0.5	33
38	The DNA-remodelling activity of DnaD is the sum of oligomerization and DNA-binding activities on separate domains. <i>Molecular Microbiology</i> , 2006, 60, 917-924.	2.5	33
39	The effect of protein concentration on the viscosity of a recombinant albumin solution formulation. <i>RSC Advances</i> , 2016, 6, 15143-15154.	3.6	33
40	Molecular Level Investigations of the Inter- and Intramolecular Interactions of pH-Responsive Artificial Triblock Proteins. <i>Biomacromolecules</i> , 2005, 6, 1266-1271.	5.4	31
41	Understanding the Interfacial Properties of Nanostructured Liquid Crystalline Materials for Surface-Specific Delivery Applications. <i>Langmuir</i> , 2012, 28, 13485-13495.	3.5	31
42	The Development, Characterization, and Demonstration of a Versatile Immobilization Strategy for Biomolecular Force Measurements. <i>Langmuir</i> , 2002, 18, 6659-6665.	3.5	28
43	Ferritin-Based New Magnetic Force Microscopic Probe Detecting 10 nm Sized Magnetic Nanoparticles. <i>ACS Nano</i> , 2012, 6, 241-248.	14.6	28
44	Towards nanoscale metrology for biomolecular imaging by atomic force microscopy. <i>Nanotechnology</i> , 2005, 16, 966-973.	2.6	27
45	The <i>Bacillus subtilis</i> DnaD protein: a putative link between DNA remodeling and initiation of DNA replication. <i>FEBS Letters</i> , 2004, 577, 460-464.	2.8	26
46	The Clamp-loader-Helicase Interaction in <i>Bacillus</i> . Atomic Force Microscopy Reveals the Structural Organisation of the DnaB- γ Complex in <i>Bacillus</i> . <i>Journal of Molecular Biology</i> , 2004, 336, 381-393.	4.2	26
47	Thermomechanical Manipulation of Aromatic Peptide Nanotubes. <i>Langmuir</i> , 2009, 25, 7256-7259.	3.5	26
48	Force sensing and mapping by atomic force microscopy. <i>TrAC - Trends in Analytical Chemistry</i> , 2002, 21, 65-74.	11.4	25
49	Green Chemistry Approach to Surface Decoration: Trimesic Acid Self-Assembly on HOPG. <i>Journal of Physical Chemistry C</i> , 2012, 116, 11519-11525.	3.1	25
50	Bimolecular porous supramolecular networks deposited from solution on layered materials: graphite, boron nitride and molybdenum disulphide. <i>Chemical Communications</i> , 2014, 50, 8882-8885.	4.1	23
51	Engineered Polymer-Transferrin Conjugates as Self-Assembling Targeted Drug Delivery Systems. <i>Biomacromolecules</i> , 2017, 18, 1532-1543.	5.4	23
52	High-Temperature Adsorption of <i>p</i> -Terphenylthiol on Au(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 14899-14906.	3.1	22
53	Phosphonium Polymethacrylates for Short Interfering RNA Delivery: Effect of Polymer and RNA Structural Parameters on Polyplex Assembly and Gene Knockdown. <i>Biomacromolecules</i> , 2015, 16, 3480-3490.	5.4	21
54	Surface mediated l-phenylalanyl-l-phenylalanine assembly into large dendritic structures. <i>Faraday Discussions</i> , 2013, 166, 257.	3.2	20

#	ARTICLE	IF	CITATIONS
55	Progressing single biomolecule force spectroscopy measurements for the screening of DNA binding agents. <i>Nanotechnology</i> , 2005, 16, 2325-2333.	2.6	19
56	Interactions between Signal-Transducing Proteins Measured by Atomic Force Microscopy. <i>Analytical Chemistry</i> , 2009, 81, 3276-3284.	6.5	19
57	Novel inhibitors of AChE and A β aggregation with neuroprotective properties as lead compounds for the treatment of Alzheimer's disease. <i>European Journal of Medicinal Chemistry</i> , 2022, 235, 114305.	5.5	19
58	Combination dual responsive polypeptide vectors for enhanced gene delivery. <i>Molecular BioSystems</i> , 2008, 4, 741.	2.9	17
59	On the dynamic behaviour of the forced dissociation of ligand-receptor pairs. <i>Perkin Transactions II RSC</i> , 2000, , 5-8.	1.1	16
60	Atomic force microscopy studies of generation 4 poly(amidoamine) (PAMAM) dendrimers on functionalized surfaces. <i>Surface Science</i> , 2004, 558, 99-110.	1.9	16
61	Dimerization of the Human Papillomavirus Type 16 E2 N Terminus Results in DNA Looping within the Upstream Regulatory Region. <i>Journal of Virology</i> , 2008, 82, 4853-4861.	3.4	16
62	Probing protein-peptide protein molecular architecture by atomic force microscopy and surface plasmon resonance. <i>Analyst</i> , The, 2000, 125, 245-250.	3.5	15
63	Atomic Force Microscopy Study of Human Amylin (20-29) Fibrils. <i>Protein and Peptide Letters</i> , 2005, 12, 79-83.	0.9	15
64	Visualizing the Solubilization of Supported Lipid Bilayers by an Amphiphilic Peptide. <i>Langmuir</i> , 2006, 22, 6273-6279.	3.5	13
65	Patterning the mechanical properties of hydrogen silsesquioxane films using electron beam irradiation for application in mechano cell guidance. <i>Thin Solid Films</i> , 2011, 519, 2003-2010.	1.8	13
66	Microelectromechanical system device for calibration of atomic force microscope cantilever spring constants between 0.01 and 4 N/m. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 1444-1449.	2.1	12
67	Polymer siRNA conjugates synthesised by controlled radical polymerisation. <i>European Polymer Journal</i> , 2013, 49, 2861-2883.	5.4	12
68	Bifunctional atomic force microscopy probes for molecular screening applications. <i>Analytica Chimica Acta</i> , 2003, 479, 77-85.	5.4	11
69	Accurate velocity measurements of AFM-cantilever vibrations by Doppler interferometry. <i>Journal of Experimental Nanoscience</i> , 2006, 1, 51-62.	2.4	11
70	Molecular-Scale Studies on Biopolymers Using Atomic Force Microscopy. , 0, , 123-172.		9
71	Well-defined polymeric vesicles with high stability and modulation of cell uptake by a simple coating protocol. <i>Polymer Chemistry</i> , 2012, 3, 2596.	3.9	9
72	In vivo Evaluation of a Newly Synthesized Acetylcholinesterase Inhibitor in a Transgenic Drosophila Model of Alzheimer's Disease. <i>Frontiers in Neuroscience</i> , 2021, 15, 691222.	2.8	9

#	ARTICLE	IF	CITATIONS
73	The structure and formation of hydrogen-bonded molecular networks on Au(111) surfaces revealed by scanning tunnelling and torsional-tapping atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 15909.	2.8	8
74	Mechanistic investigations into the encapsulation and release of small molecules and proteins from a supramolecular nucleoside gel in vitro and in vivo. <i>Journal of Controlled Release</i> , 2020, 317, 118-129.	9.9	8
75	Direct measurement of drug-enzyme interactions by atomic force microscopy; dihydrofolate reductase and methotrexate. <i>Perkin Transactions II RSC</i> , 2002, , 1722-1727.	1.1	7
76	Multi-modal switching in responsive DNA block co-polymer conjugates. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 16263.	2.8	7
77	Analysis of leaf surfaces using scanning ion conductance microscopy. <i>Journal of Microscopy</i> , 2015, 258, 119-126.	1.8	7
78	Investigation of microcontact transfer of proteins from a selectively plasma treated elastomer stamp by fluorescence microscopy and force microscopy. <i>Analyst</i> , The, 2001, 126, 1100-1104.	3.5	4
79	Surface-Templated Fibril Growth of Peptide Fragments from the Shaft Domain of the Adenovirus Fibre Protein. <i>Protein and Peptide Letters</i> , 2011, 18, 268-274.	0.9	4
80	Study of NAP adsorption and assembly on the surface of HOPG. <i>Peptides</i> , 2014, 62, 55-58.	2.4	4
81	Evaluation of the Kinetic Properties of the Sporulation Protein SpoIIIE of <i>Bacillus subtilis</i> by Inclusion in a Model Membrane. <i>Journal of Bacteriology</i> , 2004, 186, 3195-3201.	2.2	3
82	Subsecond Self-Assembled Monolayer Formation. <i>Journal of Physical Chemistry C</i> , 2010, 114, 19373-19377.	3.1	3
83	Interaction of reducible polypeptide gene delivery vectors with supported lipid bilayers: pore formation and structure-function relationships. <i>Soft Matter</i> , 2010, 6, 2517.	2.7	3
84	Low Molecular Weight Nucleoside Gelators: A Platform for Protein Aggregation Inhibition. <i>Molecular Pharmaceutics</i> , 2019, 16, 462-467.	4.6	3
85	Biomembrane force probe investigation of RNA dissociation. <i>European Biophysics Journal</i> , 2011, 40, 247-257.	2.2	2
86	Reply to the "Comment on "The structure and formation of hydrogen-bonded molecular networks on Au(111) surfaces revealed by scanning tunnelling and torsional-tapping atomic force microscopy" by I. Cebula, M. T. RÅisÅnen, R. Madueno, B. Karamzadeh and M. Buck, <i>Phys. Chem. Chem. Phys.</i> , 2013, 15, DOI: 10.1039/c3cp50754h. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14128.	2.8	1
87	Localized Induction of Gene Expression in Embryonic Stem Cell Aggregates Using Holographic Optical Tweezers to Create Biochemical Gradients. <i>Regenerative Engineering and Translational Medicine</i> , 2020, 6, 251-261.	2.9	1