

Maxim G Ryadnov

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,616
citations

201674

27
h-index

197818

49
g-index

76
all docs

76
docs citations

76
times ranked

3196
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering the morphology of a self-assembling protein fibre. <i>Nature Materials</i> , 2003, 2, 329-332.	27.5	256
2	Engineering nanoscale order into a designed protein fiber. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 10853-10858.	7.1	234
3	Peptide self-assembly for nanomaterials: the old new kid on the block. <i>Chemical Society Reviews</i> , 2015, 44, 8288-8300.	38.1	212
4	Cicada-inspired cell-instructive nanopatterned arrays. <i>Scientific Reports</i> , 2014, 4, 7122.	3.3	211
5	Introducing Branches into a Self-Assembling Peptide Fiber. <i>Angewandte Chemie - International Edition</i> , 2003, 42, 3021-3023.	13.8	125
6	Nanoscale imaging reveals laterally expanding antimicrobial pores in lipid bilayers. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 8918-8923.	7.1	112
7	Fiber Recruiting Peptides: A Noncovalent Decoration of an Engineered Protein Scaffold. <i>Journal of the American Chemical Society</i> , 2004, 126, 7454-7455.	13.7	99
8	Templating Silica Nanostructures on Rationally Designed Self-Assembled Peptide Fibers. <i>Langmuir</i> , 2008, 24, 11778-11783.	3.5	79
9	MaP Peptides: A Programming the Self-Assembly of Peptide-Based Mesoscopic Matrices. <i>Journal of the American Chemical Society</i> , 2005, 127, 12407-12415.	13.7	68
10	Antimicrobial peptide capsids of de novo design. <i>Nature Communications</i> , 2017, 8, 2263.	12.8	63
11	A Self-Assembling Peptide Polyanoreactor. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 969-972.	13.8	60
12	A De Novo Virus-Like Topology for Synthetic Virions. <i>Journal of the American Chemical Society</i> , 2016, 138, 12202-12210.	13.7	59
13	Phase separation in the outer membrane of <i>Escherichia coli</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	53
14	Modular Design of Peptide Fibrillar Nano- to Microstructures. <i>Journal of the American Chemical Society</i> , 2009, 131, 13240-13241.	13.7	48
15	A microfluidic platform for the characterisation of membrane active antimicrobials. <i>Lab on A Chip</i> , 2019, 19, 837-844.	6.0	46
16	Structurally plastic peptide capsules for synthetic antimicrobial viruses. <i>Chemical Science</i> , 2016, 7, 1707-1711.	7.4	43
17	DNA Origami Inside-Out Viruses. <i>ACS Synthetic Biology</i> , 2018, 7, 767-773.	3.8	42
18	Engineering Chirally Blind Protein Pseudocapsids into Antibacterial Persisters. <i>ACS Nano</i> , 2020, 14, 1609-1622.	14.6	42

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19	Stable isotope imaging of biological samples with high resolution secondary ion mass spectrometry and complementary techniques. <i>Methods</i> , 2014, 68, 317-324.	3.8	41
20	Self-Assembled Templates for Polypeptide Synthesis. <i>Journal of the American Chemical Society</i> , 2007, 129, 14074-14081.	13.7	39
21	Atomic force microscopy to elucidate how peptides disrupt membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2021, 1863, 183447.	2.6	36
22	Engineering monolayer poration for rapid exfoliation of microbial membranes. <i>Chemical Science</i> , 2017, 8, 1105-1115.	7.4	35
23	Differentially Instructive Extracellular Protein Micro-nets. <i>Journal of the American Chemical Society</i> , 2014, 136, 7889-7898.	13.7	34
24	Arbitrary Self-Assembly of Peptide Extracellular Microscopic Matrices. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 428-431.	13.8	33
25	Binary Encoding of Random Peptide Sequences for Selective and Differential Antimicrobial Mechanisms. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8099-8103.	13.8	33
26	Anti-antimicrobial Peptides. <i>Journal of Biological Chemistry</i> , 2013, 288, 20162-20172.	3.4	31
27	Self-Assembling Viral Mimetics: One Long Journey with Short Steps. <i>Macromolecular Bioscience</i> , 2011, 11, 503-513.	4.1	30
28	What Is the "Minimum Inhibitory Concentration" (MIC) of Pexiganan Acting on <i>Escherichia coli</i> ? A Cautionary Case Study. <i>Advances in Experimental Medicine and Biology</i> , 2016, 915, 33-48.	1.6	28
29	Cholesterol Anchors Enable Efficient Binding and Intracellular Uptake of DNA Nanostructures. <i>Bioconjugate Chemistry</i> , 2019, 30, 1836-1844.	3.6	25
30	Tuneable poration: host defense peptides as sequence probes for antimicrobial mechanisms. <i>Scientific Reports</i> , 2018, 8, 14926.	3.3	24
31	A new synthetic all-d-peptide with high bacterial and low mammalian cytotoxicity. <i>Peptides</i> , 2002, 23, 1869-1871.	2.4	21
32	Peptide α -helices for synthetic nanostructures. <i>Biochemical Society Transactions</i> , 2007, 35, 487-491.	3.4	21
33	Imaging live bacteria at the nanoscale: comparison of immobilisation strategies. <i>Analyst</i> , 2019, 144, 6944-6952.	3.5	21
34	Supramolecular amphipathicity for probing antimicrobial propensity of host defence peptides. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 15608-15614.	2.8	19
35	Switching Cytolytic Nanopores into Antimicrobial Fractal Ruptures by a Single Side Chain Mutation. <i>ACS Nano</i> , 2021, 15, 9679-9689.	14.6	17
36	Flowering Poration: A Synergistic Multi-Mode Antibacterial Mechanism by a Bacteriocin Fold. <i>IScience</i> , 2020, 23, 101423.	4.1	16

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37	REâ€Coil: An Antimicrobial Peptide Regulator. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9676-9679.	13.8	15
38	Exploitable length correlations in peptide nanofibres. <i>Nanoscale</i> , 2014, 6, 11425-11430.	5.6	14
39	Filming protein fibrillogenesis in real time. <i>Scientific Reports</i> , 2015, 4, 7529.	3.3	14
40	CREIM: Coffee Ring Effect Imaging Model for Monitoring Protein Self-Assembly <i>in Situ</i> . <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4846-4851.	4.6	14
41	GeT peptides: a single-domain approach to gene delivery. <i>Chemical Communications</i> , 2011, 47, 9045.	4.1	13
42	The Leucine Zipper as a Building Block for Self-Assembled Protein Fibers. <i>Methods in Molecular Biology</i> , 2008, 474, 35-51.	0.9	12
43	Probing label-free intracellular quantification of free peptide by MALDI-ToF mass spectrometry. <i>Methods</i> , 2014, 68, 331-337.	3.8	11
44	Interfacial zippering-up of coiled-coil protein filaments. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 31055-31060.	2.8	11
45	Helminth Defense Molecules as Design Templates for Membrane Active Antibiotics. <i>ACS Infectious Diseases</i> , 2019, 5, 1471-1479.	3.8	11
46	Accelerating molecular discovery through data and physical sciences: Applications to peptide-membrane interactions. <i>Journal of Chemical Physics</i> , 2018, 148, 241744.	3.0	10
47	Cellular Metrology: Scoping for a Value Proposition in Extra- and Intracellular Measurements. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 456.	4.1	10
48	Membrane Binding of Antimicrobial Peptides Is Modulated by Lipid Charge Modification. <i>Journal of Chemical Theory and Computation</i> , 2021, 17, 1218-1228.	5.3	10
49	Self-Assembling Nanostructures from Coiled-Coil Peptides. , 0, , 17-38.		9
50	Membrane mediated regulation in free peptides of HIV-1 gp41: minimal modulation of the hemifusion phase. <i>Physical Chemistry Chemical Physics</i> , 2012, 14, 1277-1285.	2.8	9
51	Annexin V Drives Stabilization of Damaged Asymmetric Phospholipid Bilayers. <i>Langmuir</i> , 2020, 36, 5454-5465.	3.5	9
52	An ultrasensitive microfluidic approach reveals correlations between the physico-chemical and biological activity of experimental peptide antibiotics. <i>Scientific Reports</i> , 2022, 12, 4005.	3.3	9
53	Autonomously folded α -helical lockers promote RNAi*. <i>Scientific Reports</i> , 2016, 6, 35012.	3.3	7
54	An SI-traceable reference material for virus-like particles. <i>IScience</i> , 2022, 25, 104294.	4.1	7

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55	Measuring Thousands of Single-Vesicle Leakage Events Reveals the Mode of Action of Antimicrobial Peptides. <i>Analytical Chemistry</i> , 2022, 94, 9530-9539.	6.5	7
56	Peptide Nanoparticles for Gene Packaging and Intracellular Delivery. <i>Methods in Molecular Biology</i> , 2021, 2208, 33-48.	0.9	6
57	Natively Unfolded State for Engineering Nanoscale Fibrillar Arrays. <i>Macromolecular Bioscience</i> , 2012, 12, 195-201.	4.1	5
58	Insulin aggregation tracked by its intrinsic TRES. <i>Applied Physics Letters</i> , 2017, 111, 263701.	3.3	5
59	Modulating charge-dependent and folding-mediated antimicrobial interactions at peptide-lipid interfaces. <i>European Biophysics Journal</i> , 2017, 46, 375-382.	2.2	3
60	Tracking Insulin Glycation in Real Time by Time-Resolved Emission Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2019, 123, 7812-7817.	2.6	3
61	Designer protein pseudo-capsids targeting intracellular bacteria. <i>Biomaterials Science</i> , 2021, 9, 6807-6812.	5.4	3
62	Where is the drug gone? Measuring intracellular delivery and localization. <i>Methods</i> , 2014, 68, 281-282.	3.8	2
63	Nano-mechanical in-process monitoring of antimicrobial poration in model phospholipid bilayers. <i>RSC Advances</i> , 2017, 7, 19081-19084.	3.6	2
64	Linear and orthogonal peptide templating of silicified protein fibres. <i>Organic and Biomolecular Chemistry</i> , 2017, 15, 5380-5385.	2.8	2
65	Protein fibrillogenesis model tracked by its intrinsic time-resolved emission spectra. <i>Methods and Applications in Fluorescence</i> , 2019, 7, 035003.	2.3	2
66	Revealing Sources of Variation for Reproducible Imaging of Protein Assemblies by Electron Microscopy. <i>Micromachines</i> , 2020, 11, 251.	2.9	2
67	Imaging and 3D Reconstruction of De Novo Peptide Capsids. <i>Methods in Molecular Biology</i> , 2021, 2208, 149-165.	0.9	2
68	Ultramicrotomy Analysis of Peptide-Treated Cells. <i>Methods in Molecular Biology</i> , 2021, 2208, 255-264.	0.9	2
69	Investigating Membrane-Mediated Antimicrobial Peptide Interactions with Synchrotron Radiation Far-Infrared Spectroscopy. <i>ChemPhysChem</i> , 2022, 23, e202100815.	2.1	2
70	In-situ nanoscale imaging reveals self-concentrating nanomolar antimicrobial pores. <i>Nanoscale</i> , 2022, ..	5.6	0