

Aimee L Boyle

List of Publications by Year in descending order

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39
papers

2,048
citations

430874

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315739

38
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41
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41
docs citations

41
times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-Assembling Cages from Coiled-Coil Peptide Modules. <i>Science</i> , 2013, 340, 595-599.	12.6	451
2	A Basis Set of <i>de Novo</i> Coiled-Coil Peptide Oligomers for Rational Protein Design and Synthetic Biology. <i>ACS Synthetic Biology</i> , 2012, 1, 240-250.	3.8	226
3	A <i>de novo</i> peptide hexamer with a mutable channel. <i>Nature Chemical Biology</i> , 2011, 7, 935-941.	8.0	172
4	De novo designed peptides for biological applications. <i>Chemical Society Reviews</i> , 2011, 40, 4295.	38.1	170
5	A Set of <i>de Novo</i> Designed Parallel Heterodimeric Coiled Coils with Quantified Dissociation Constants in the Micromolar to Sub-nanomolar Regime. <i>Journal of the American Chemical Society</i> , 2013, 135, 5161-5166.	13.7	148
6	Insights into IgM-mediated complement activation based on in situ structures of IgM-C1-C4b. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 11900-11905.	7.1	112
7	Mesoporous Silica Nanoparticles with Large Pores for the Encapsulation and Release of Proteins. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 32211-32219.	8.0	111
8	Squaring the Circle in Peptide Assembly: From Fibers to Discrete Nanostructures by <i>de Novo</i> Design. <i>Journal of the American Chemical Society</i> , 2012, 134, 15457-15467.	13.7	87
9	Constructing a man-made c-type cytochrome maquette in vivo: electron transfer, oxygen transport and conversion to a photoactive light harvesting maquette.. <i>Chemical Science</i> , 2014, 5, 507-514.	7.4	78
10	One Peptide for Them All: Gold Nanoparticles of Different Sizes Are Stabilized by a Common Peptide Amphiphile. <i>ACS Nano</i> , 2020, 14, 5874-5886.	14.6	47
11	A Coiled-Coil Peptide Shaping Lipid Bilayers upon Fusion. <i>Biophysical Journal</i> , 2016, 111, 2162-2175.	0.5	36
12	N@ <i>de Novo</i> and N@ <i>de Novo</i> : Oligomer and Partner Specification by Asparagine in Coiled-Coil Interfaces. <i>ACS Chemical Biology</i> , 2017, 12, 528-538.	3.4	34
13	Designed Coiled Coils Promote Folding of a Recombinant Bacterial Collagen. <i>Journal of Biological Chemistry</i> , 2011, 286, 17512-17520.	3.4	31
14	Rational design of peptide-based building blocks for nanoscience and synthetic biology. <i>Faraday Discussions</i> , 2009, 143, 305.	3.2	30
15	Hydra Mesoglea Proteome Identifies Thrombospondin as a Conserved Component Active in Head Organizer Restriction. <i>Scientific Reports</i> , 2018, 8, 11753.	3.3	30
16	Membrane-Fusogen Distance Is Critical for Efficient Coiled-Coil-Peptide-Mediated Liposome Fusion. <i>Langmuir</i> , 2017, 33, 12443-12452.	3.5	25
17	Controlled Peptide-Mediated Vesicle Fusion Assessed by Simultaneous Dual-Colour Time-Lapsed Fluorescence Microscopy. <i>Scientific Reports</i> , 2020, 10, 3087.	3.3	25
18	Selective coordination of three transition metal ions within a coiled-coil peptide scaffold. <i>Chemical Science</i> , 2019, 10, 7456-7465.	7.4	23

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19	A non-zipper-like tetrameric coiled coil promotes membrane fusion. <i>RSC Advances</i> , 2016, 6, 7990-7998.	3.6	21
20	Probing coiled-coil assembly by paramagnetic NMR spectroscopy. <i>Organic and Biomolecular Chemistry</i> , 2015, 13, 1159-1168.	2.8	17
21	Modulation of Coiled-Coil Binding Strength and Fusogenicity through Peptide Stapling. <i>Bioconjugate Chemistry</i> , 2020, 31, 834-843.	3.6	16
22	Dielectric-Modulated Biosensing with Ultrahigh-Frequency-Operated Graphene Field-Effect Transistors. <i>Advanced Materials</i> , 2022, 34, e2106666.	21.0	16
23	Applications of de novo designed peptides. , 2018, , 51-86.		15
24	Liposome fusion with orthogonal coiled coil peptides as fusogens: the efficacy of roleplaying peptides. <i>Chemical Science</i> , 2021, 12, 13782-13792.	7.4	15
25	Distinct roles of SNARE-mimicking lipopeptides during initial steps of membrane fusion. <i>Nanoscale</i> , 2018, 10, 19064-19073.	5.6	14
26	Complement Receptor Targeted Liposomes Encapsulating the Liver X Receptor Agonist GW3965 Accumulate in and Stabilize Atherosclerotic Plaques. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000043.	7.6	14
27	Peptide-Mediated Liposome Fusion: The Effect of Anchor Positioning. <i>International Journal of Molecular Sciences</i> , 2018, 19, 211.	4.1	13
28	LcrH, a Class II Chaperone from the Type Three Secretion System, Has a Highly Flexible Native Structure. <i>Journal of Biological Chemistry</i> , 2013, 288, 4048-4055.	3.4	12
29	Magnetic-Activated Cell Sorting Using Coiled-Coil Peptides: An Alternative Strategy for Isolating Cells with High Efficiency and Specificity. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 11621-11630.	8.0	12
30	Determination of oligomeric states of peptide complexes using thermal unfolding curves. <i>Biopolymers</i> , 2015, 104, 65-72.	2.4	11
31	Construction of a Chassis for a Tripartite Protein-Based Molecular Motor. <i>ACS Synthetic Biology</i> , 2017, 6, 1096-1102.	3.8	11
32	Designing stable, hierarchical peptide fibers from block co-polypeptide sequences. <i>Chemical Science</i> , 2019, 10, 9001-9008.	7.4	8
33	Novel anti-repression mechanism of H-NS proteins by a phage protein. <i>Nucleic Acids Research</i> , 2021, 49, 10770-10784.	14.5	6
34	Probing the E/K Peptide Coiled-Coil Assembly by Double Electron-Electron Resonance and Circular Dichroism. <i>Biochemistry</i> , 2021, 60, 19-30.	2.5	4
35	Controlling amphipathic peptide adsorption by smart switchable germanium interfaces. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 4809-4819.	2.8	2
36	Coating Gold Nanorods with Self-Assembling Peptide Amphiphiles Promotes Stability and Facilitates in vivo Two-Photon Imaging. <i>Journal of Materials Chemistry B</i> , 2022, , .	5.8	2

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37	Self-assembly of thiolated versus non-thiolated peptide amphiphiles. Peptide Science, 2021, 113, e24236.	1.8	1
38	Dielectric-Modulated Biosensing with Ultrahigh-Frequency-Operated Graphene Field-Effect Transistors (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	21.0	1
39	Gold nanoparticles decorated with ovalbumin-derived epitopes: effect of shape and size on T-cell immune responses. RSC Advances, 2022, 12, 19703-19716.	3.6	1