Aimee L Boyle

List of Publications by Year
in descending order

39 papers	2,048 citations	430874 18 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	2863 citing authors

#	Article	IF	Citations
1	Dielectricâ€Modulated Biosensing with Ultrahighâ€Frequencyâ€Operated Graphene Fieldâ€Effect Transistors. Advanced Materials, 2022, 34, e2106666.	21.0	16
2	Controlling amphipathic peptide adsorption by smart switchable germanium interfaces. Physical Chemistry Chemical Physics, 2022, 24, 4809-4819.	2.8	2
3	Coating Gold Nanorods with Self-Assembling Peptide Amphiphiles Promotes Stability and Facilitates in vivo Two-Photon Imaging. Journal of Materials Chemistry B, 2022, , .	5.8	2
4	Dielectricâ€Modulated Biosensing with Ultrahighâ€Frequencyâ€Operated Graphene Fieldâ€Effect Transistors (Adv. Mater. 7/2022). Advanced Materials, 2022, 34, .	21.0	1
5	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
6	Probing the E/K Peptide Coiled-Coil Assembly by Double Electronâ€“Electron Resonance and Circular Dichroism. Biochemistry, 2021, 60, 19-30.	2.5	4
7	Liposome fusion with orthogonal coiled coil peptides as fusogens: the efficacy of roleplaying peptides. Chemical Science, 2021, 12, 13782-13792.	7.4	15
8	Magnetic-Activated Cell Sorting Using Coiled-Coil Peptides: An Alternative Strategy for Isolating Cells with High Efficiency and Specificity. ACS Applied Materials & Interfaces, 2021, 13, 11621-11630.	8.0	12
9	Selfâ€assembly of thiolated versus nonâ€thiolated peptide amphiphiles. Peptide Science, 2021, 113, e24236.	1.8	1
10	Novel anti-repression mechanism of H-NS proteins by a phage protein. Nucleic Acids Research, 2021, 49, 10770-10784.	14.5	6
11	Controlled Peptide-Mediated Vesicle Fusion Assessed by Simultaneous Dual-Colour Time-Lapsed Fluorescence Microscopy. Scientific Reports, 2020, 10, 3087.	3.3	25
12	Modulation of Coiled-Coil Binding Strength and Fusogenicity through Peptide Stapling. Bioconjugate Chemistry, 2020, 31, 834-843.	3.6	16
13	One Peptide for Them All: Gold Nanoparticles of Different Sizes Are Stabilized by a Common Peptide Amphiphile. ACS Nano, 2020, 14, 5874-5886.	14.6	47
14	Complement Receptor Targeted Liposomes Encapsulating the Liver X Receptor Agonist GW3965 Accumulate in and Stabilize Atherosclerotic Plaques. Advanced Healthcare Materials, 2020, 9, e2000043.	7.6	14
15	Designing stable, hierarchical peptide fibers from block co-polypeptide sequences. Chemical Science, 2019, 10, 9001-9008.	7.4	8
16	Selective coordination of three transition metal ions within a coiled-coil peptide scaffold. Chemical Science, 2019, 10, 7456-7465.	7.4	23
17	Insights into IgM-mediated complement activation based on in situ structures of IgM-C1-C4b. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 11900-11905.	7.1	112
18	Distinct roles of SNARE-mimicking lipopeptides during initial steps of membrane fusion. Nanoscale, 2018, 10, 19064-19073.	5.6	14

#	Article	IF	Citations
19	Applications of de novo designed peptides. , 2018, , 51-86.		15
20	Peptide-Mediated Liposome Fusion: The Effect of Anchor Positioning. International Journal of Molecular Sciences, 2018, 19, 211.	4.1	13
21	Hydra Mesoglea Proteome Identifies Thrombospondin as a Conserved Component Active in Head Organizer Restriction. Scientific Reports, 2018, 8, 11753.	3.3	30
22	Construction of a Chassis for a Tripartite Protein-Based Molecular Motor. ACS Synthetic Biology, 2017, 6, 1096-1102.	3.8	11
23	N@<i>a</i> and N@<i>d</i>: Oligomer and Partner Specification by Asparagine in Coiled-Coil Interfaces. ACS Chemical Biology, 2017, 12, 528-538.	3.4	34
24	Membrane-Fusogen Distance Is Critical for Efficient Coiled-Coil-Peptide-Mediated Liposome Fusion. Langmuir, 2017, 33, 12443-12452.	3.5	25
25	A Coiled-Coil Peptide Shaping Lipid Bilayers upon Fusion. Biophysical Journal, 2016, 111, 2162-2175.	0.5	36
26	Mesoporous Silica Nanoparticles with Large Pores for the Encapsulation and Release of Proteins. ACS Applied Materials & Interfaces, 2016, 8, 32211-32219.	8.0	111
27	A non-zipper-like tetrameric coiled coil promotes membrane fusion. RSC Advances, 2016, 6, 7990-7998.	3.6	21
28	Determination of oligomeric states of peptide complexes using thermal unfolding curves. Biopolymers, 2015, 104, 65-72.	2.4	11
29	Probing coiled-coil assembly by paramagnetic NMR spectroscopy. Organic and Biomolecular Chemistry, 2015, 13, 1159-1168.	2.8	17
30	Constructing a man-made c-type cytochrome maquette in vivo: electron transfer, oxygen transport and conversion to a photoactive light harvesting maquette.. Chemical Science, 2014, 5, 507-514.	7.4	78
31	Self-Assembling Cages from Coiled-Coil Peptide Modules. Science, 2013, 340, 595-599.	12.6	451
32	A Set of <i>de Novo</i> Designed Parallel Heterodimeric Coiled Coils with Quantified Dissociation Constants in the Micromolar to Sub-nanomolar Regime. Journal of the American Chemical Society, 2013, 135, 5161-5166.	13.7	148
33	LcrH, a Class II Chaperone from the Type Three Secretion System, Has a Highly Flexible Native Structure. Journal of Biological Chemistry, 2013, 288, 4048-4055.	3.4	12
34	Squaring the Circle in Peptide Assembly: From Fibers to Discrete Nanostructures by <i>de Novo</i> Design. Journal of the American Chemical Society, 2012, 134, 15457-15467.	13.7	87
35	A Basis Set of <i>de Novo</i> Coiled-Coil Peptide Oligomers for Rational Protein Design and Synthetic Biology. ACS Synthetic Biology, 2012, 1, 240-250.	3.8	226
36	A de novo peptide hexamer with a mutable channel. Nature Chemical Biology, 2011, 7, 935-941.	8.0	172

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37	De novo designed peptides for biological applications. Chemical Society Reviews, 2011, 40, 4295.	38.1	170
38	Designed Coiled Coils Promote Folding of a Recombinant Bacterial Collagen. Journal of Biological Chemistry, 2011, 286, 17512-17520.	3.4	31
39	Rational design of peptide-based building blocks for nanoscience and synthetic biology. Faraday Discussions, 2009, 143, 305.	3.2	30