Elizabeth H C Bromley

List of Publications by Year
in descending order

31 papers	1,548 citations	430442 18 h-index	525886 27 g-index
32 all docs	32 docs citations	32 times ranked	2216 citing authors

#	Article	IF	Citations
1	A Basis Set of de Novo Coiled-Coil Peptide Oligomers for Rational Protein Design and Synthetic Biology. ACS Synthetic Biology, 2012, 1, 240-250.	1.9	226
2	Peptide and Protein Building Blocks for Synthetic Biology: From Programming Biomolecules to Self-Organized Biomolecular Systems. ACS Chemical Biology, 2008, 3, 38-50.	1.6	213
3	Aggregation across the length-scales in Î²-lactoglobulin. Faraday Discussions, 2005, 128, 13-27.	1.6	148
4	Excited-State Aromatic Interactions in the Aggregation-Induced Emission of Molecular Rotors. Journal of the American Chemical Society, 2017, 139, 17882-17889.	6.6	141
5	Squaring the Circle in Peptide Assembly: From Fibers to Discrete Nanostructures by de Novo Design. Journal of the American Chemical Society, 2012, 134, 15457-15467.	6.6	87
6	Synthetic biology through biomolecular design and engineering. Current Opinion in Structural Biology, 2008, 18, 491-498.	2.6	84
7	Designed Î±-Helical Tectons for Constructing Multicomponent Synthetic Biological Systems. Journal of the American Chemical Society, 2009, 131, 928-930.	6.6	80
8	MagicWand: A Single, Designed Peptide That Assembles to Stable, Ordered Î±-Helical Fibers. Biochemistry, 2008, 47, 10365-10371.	1.2	68
9	Optical Microscopy of Growing Insulin Amyloid Spherulites on Surfaces In Vitro. Biophysical Journal, 2006, 90, 1043-1054.	0.2	67
10	Assembly Pathway of a Designed Î±-Helical Protein Fiber. Biophysical Journal, 2010, 98, 1668-1676.	0.2	57
11	Electrostatic Control of Thickness and Stiffness in a Designed Protein Fiber. Journal of the American Chemical Society, 2008, 130, 5124-5130.	6.6	54
12	Crystal Structure of Serratia fonticola Sfh-I: Activation of the Nucleophile in Mono-Zinc Metallo-Î²-Lactamases. Journal of Molecular Biology, 2011, 411, 951-959.	2.0	48
13	Flow Linear Dichroism of Some Prototypical Proteins. Journal of the American Chemical Society, 2009, 131, 13305-13314.	6.6	36
14	The Tumbleweed: Towards a synthetic protein motor. HFSP Journal, 2009, 3, 204-212.	2.5	35
15	Stabilising Peptoid Helices Using Nonâ€Chiral Fluoroalkyl Monomers. Angewandte Chemie - International Edition, 2018, 57, 10549-10553.	7.2	35
16	Rational design of peptide-based building blocks for nanoscience and synthetic biology. Faraday Discussions, 2009, 143, 305.	1.6	30
17	Time-dependent motor properties of multipedal molecular spiders. Physical Review E, 2011, 84, 031111.	0.8	29
18	Structural characterization suggests models for monomeric and dimeric forms of full-length ezrin. Biochemical Journal, 2016, 473, 2763-2782.	1.7	27

#	Article	IF	Citations
19	Construction and Characterization of Kilobasepair Densely Labeled Peptide-DNA. Biomacromolecules, 2014, 15, 4065-4072.	2.6	16
20	Alpha-Helical Peptide Assemblies. Progress in Molecular Biology and Translational Science, 2011, 103, 231-275.	0.9	14
21	Biochemical Characterization of Sfh-I, a Subclass B2 Metallo-Î²-Lactamase from Serratia fonticola UTAD54. Antimicrobial Agents and Chemotherapy, 2011, 55, 5392-5395.	1.4	14
22	Construction of a Chassis for a Tripartite Protein-Based Molecular Motor. ACS Synthetic Biology, 2017, 6, 1096-1102.	1.9	11
23	Tuning the performance of an artificial protein motor. Physical Review E, 2011, 84, 031922.	0.8	9
24	Motor properties from persistence: a linear molecular walker lacking spatial and temporal asymmetry. New Journal of Physics, 2015, 17, 055017.	1.2	8
25	Stabilising Peptoid Helices Using Nonâ€Chiral Fluoroalkyl Monomers. Angewandte Chemie, 2018, 130, 10709-10713.	1.6	4
26	The bar-hinge motor: a synthetic protein design exploiting conformational switching to achieve directional motility. New Journal of Physics, 2019, 21, 013002.	1.2	4
27	Threaded Rings that Swim in Excitable Media. Physical Review Letters, 2019, 123, 258102.	2.9	3
28	Synthetic, Protein-Based Molecular Motors. Biophysical Journal, 2009, 96, 300a.	0.2	0
29	Introducing a Kinesin-Inspired Nanomotor Concept. Biophysical Journal, 2014, 106, 782a.	0.2	0
30	Light Driven Conformational Switching: An Approach to Creating Designed Protein Motion. Biophysical Journal, 2014, 106, 244a-245a.	0.2	0
31	Overview of the experimental and computational approaches to protein design session at the 19th IUPAB congress and 11th EBSA congress. Biophysical Reviews, 2017, 9, 285-286.	1.5	0