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	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
2	Threaded Rings that Swim in Excitable Media. Physical Review Letters, 2019, 123, 258102.	2.9	3
3	Stabilising Peptoid Helices Using Nonâ€Chiral Fluoroalkyl Monomers. Angewandte Chemie - International Edition, 2018, 57, 10549-10553.	7.2	35
4	Stabilising Peptoid Helices Using Nonâ€Chiral Fluoroalkyl Monomers. Angewandte Chemie, 2018, 130, 10709-10713.	1.6	4
5	Construction of a Chassis for a Tripartite Protein-Based Molecular Motor. ACS Synthetic Biology, 2017, 6, 1096-1102.	1.9	11
6	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
7	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
8	Structural characterization suggests models for monomeric and dimeric forms of full-length ezrin. Biochemical Journal, 2016, 473, 2763-2782.	1.7	27
9	Motor properties from persistence: a linear molecular walker lacking spatial and temporal asymmetry. New Journal of Physics, 2015, 17, 055017.	1.2	8
10	Construction and Characterization of Kilobasepair Densely Labeled Peptide-DNA. Biomacromolecules, 2014, 15, 4065-4072.	2.6	16
11	Introducing a Kinesin-Inspired Nanomotor Concept. Biophysical Journal, 2014, 106, 782a.	0.2	0
12	Light Driven Conformational Switching: An Approach to Creating Designed Protein Motion. Biophysical Journal, 2014, 106, 244a-245a.	0.2	0
13	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
14	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
15	Alpha-Helical Peptide Assemblies. Progress in Molecular Biology and Translational Science, 2011, 103, 231-275.	0.9	14
16	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
17	Time-dependent motor properties of multipedal molecular spiders. Physical Review E, 2011, 84, 031111.	0.8	29
18	Tuning the performance of an artificial protein motor. Physical Review E, 2011, 84, 031922.	0.8	9

#	Article	IF	Citations
19	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
20	Assembly Pathway of a Designed Î±-Helical Protein Fiber. Biophysical Journal, 2010, 98, 1668-1676.	0.2	57
21	Designed Î±-Helical Tectons for Constructing Multicomponent Synthetic Biological Systems. Journal of the American Chemical Society, 2009, 131, 928-930.	6.6	80
22	Synthetic, Protein-Based Molecular Motors. Biophysical Journal, 2009, 96, 300a.	0.2	0
23	Flow Linear Dichroism of Some Prototypical Proteins. Journal of the American Chemical Society, 2009, 131, 13305-13314.	6.6	36
24	The Tumbleweed: Towards a synthetic protein motor. HFSP Journal, 2009, 3, 204-212.	2.5	35
25	Rational design of peptide-based building blocks for nanoscience and synthetic biology. Faraday Discussions, 2009, 143, 305.	1.6	30
26	Synthetic biology through biomolecular design and engineering. Current Opinion in Structural Biology, 2008, 18, 491-498.	2.6	84
27	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
28	MagicWand: A Single, Designed Peptide That Assembles to Stable, Ordered Î±-Helical Fibers. Biochemistry, 2008, 47, 10365-10371.	1.2	68
29	Electrostatic Control of Thickness and Stiffness in a Designed Protein Fiber. Journal of the American Chemical Society, 2008, 130, 5124-5130.	6.6	54
30	Optical Microscopy of Growing Insulin Amyloid Spherulites on Surfaces In Vitro. Biophysical Journal, 2006, 90, 1043-1054.	0.2	67
31	Aggregation across the length-scales in Î²-lactoglobulin. Faraday Discussions, 2005, 128, 13-27.	1.6	148