

Amy E Keating

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

4,830
citations

109137

35
h-index

102304

66
g-index

88
all docs

88
docs citations

88
times ranked

5841
citing authors

#	ARTICLE	IF	CITATIONS
1	Native proline-rich motifs exploit sequence context to target actin-remodeling Ena/VASP protein ENAH. <i>ELife</i> , 2022, 11, .	2.8	10
2	Tertiary motifs as building blocks for the design of protein-binding peptides. <i>Protein Science</i> , 2022, 31, .	3.1	8
3	Data-driven computational protein design. <i>Current Opinion in Structural Biology</i> , 2021, 69, 63-69.	2.6	28
4	A distributed residue network permits conformational binding specificity in a conserved family of actin remodelers. <i>ELife</i> , 2021, 10, .	2.8	5
5	Spatial Multiplexing of Fluorescent Reporters for Imaging Signaling Network Dynamics. <i>Cell</i> , 2020, 183, 1682-1698.e24.	13.5	38
6	Precision Calcium Imaging of Dense Neural Populations via a Cell-Body-Targeted Calcium Indicator. <i>Neuron</i> , 2020, 107, 470-486.e11.	3.8	87
7	Tertiary Structural Motif Sequence Statistics Enable Facile Prediction and Design of Peptides that Bind Anti-apoptotic Bfl-1 and Mcl-1. <i>Structure</i> , 2019, 27, 606-617.e5.	1.6	29
8	Iterative optimization yields Mcl-1-targeting stapled peptides with selective cytotoxicity to Mcl-1-dependent cancer cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E886-E895.	3.3	69
9	PixelDB: Protein-peptide complexes annotated with structural conservation of the peptide binding mode. <i>Protein Science</i> , 2018, 27, 276-285.	3.1	31
10	Peptide design by optimization on a data-parameterized protein interaction landscape. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E10342-E10351.	3.3	47
11	Modular assembly of a protein nanotriangle using orthogonally interacting coiled coils. <i>Scientific Reports</i> , 2017, 7, 10577.	1.6	31
12	Enriching Peptide Libraries for Binding Affinity and Specificity Through Computationally Directed Library Design. <i>Methods in Molecular Biology</i> , 2017, 1561, 213-232.	0.4	6
13	Combinatorial bZIP dimers display complex DNA-binding specificity landscapes. <i>ELife</i> , 2017, 6, .	2.8	109
14	Epistatic mutations in PUMA BH3 drive an alternate binding mode to potently and selectively inhibit anti-apoptotic Bfl-1. <i>ELife</i> , 2017, 6, .	2.8	33
15	Comparison of the peptide binding preferences of three closely related TRAF paralogs: TRAF2, TRAF3, and TRAF5. <i>Protein Science</i> , 2016, 25, 1273-1289.	3.1	25
16	The Orientations of Large Aspect-Ratio Coiled-Coil Proteins Attached to Gold Nanostructures. <i>Small</i> , 2016, 12, 1498-1505.	5.2	2
17	Generating High-Accuracy Peptide-Binding Data in High Throughput with Yeast Surface Display and SORTCERY. <i>Methods in Molecular Biology</i> , 2016, 1414, 233-247.	0.4	13
18	Designing helical peptide inhibitors of protein-protein interactions. <i>Current Opinion in Structural Biology</i> , 2016, 39, 27-38.	2.6	57

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19	<scp>AB</scp> â€Bind: Antibody binding mutational database for computational affinity predictions. Protein Science, 2016, 25, 393-409.	3.1	110
20	Rapid Optimization of Mcl-1 Inhibitors using Stapled Peptide Libraries Including Non-Natural Side Chains. ACS Chemical Biology, 2016, 11, 1238-1244.	1.6	38
21	Selective peptide inhibitors of antiapoptotic cellular and viral Bcl-2 proteins lead to cytochrome c release during latent Kaposiâ€™s sarcoma-associated herpesvirus infection. Virus Research, 2016, 211, 86-88.	1.1	8
22	Potent and Specific Peptide Inhibitors of Human Pro-Survival Protein Bcl-xL. Journal of Molecular Biology, 2015, 427, 1241-1253.	2.0	35
23	Locating Herpesvirus Bcl-2 Homologs in the Specificity Landscape of Anti-Apoptotic Bcl-2 Proteins. Journal of Molecular Biology, 2015, 427, 2468-2490.	2.0	16
24	SORTCERYâ€™A Highâ€™Throughput Method to Affinity Rank Peptide Ligands. Journal of Molecular Biology, 2015, 427, 2135-2150.	2.0	58
25	Data-Driven Prediction and Design of bZIP Coiled-Coil Interactions. PLoS Computational Biology, 2015, 11, e1004046.	1.5	38
26	A Barcoding Strategy Enabling Higher-Throughput Library Screening by Microscopy. ACS Synthetic Biology, 2015, 4, 1205-1216.	1.9	17
27	Genome-Wide Prediction and Validation of Peptides That Bind Human Prosurvival Bcl-2 Proteins. PLoS Computational Biology, 2014, 10, e1003693.	1.5	35
28	Increasing the affinity of selective bZIPâ€™binding peptides through surface residue redesign. Protein Science, 2014, 23, 940-953.	3.1	22
29	A Set of Computationally Designed Orthogonal Antiparallel Homodimers that Expands the Synthetic Coiled-Coil Toolkit. Journal of the American Chemical Society, 2014, 136, 16544-16556.	6.6	54
30	Designed BH3 Peptides with High Affinity and Specificity for Targeting Mcl-1 in Cells. ACS Chemical Biology, 2014, 9, 1962-1968.	1.6	91
31	Networks of bZIP Protein-Protein Interactions Diversified Over a Billion Years of Evolution. Science, 2013, 340, 730-734.	6.0	151
32	Multistate Protein Design Using CLEVER and CLASSY. Methods in Enzymology, 2013, 523, 171-190.	0.4	19
33	Structure-Based Redesign of the Binding Specificity of Anti-Apoptotic Bcl-xL. Journal of Molecular Biology, 2013, 425, 171-185.	2.0	31
34	Helix Bundle Loops Determine Whether Histidine Kinases Autophosphorylate in cis or in trans. Journal of Molecular Biology, 2013, 425, 1198-1209.	2.0	61
35	Peptide Ligands for Pro-survival Protein Bfl-1 from Computationally Guided Library Screening. ACS Chemical Biology, 2013, 8, 778-788.	1.6	34
36	bZIP transcription factors affecting secondary metabolism, sexual development and stress responses in Aspergillus nidulans. Microbiology (United Kingdom), 2013, 159, 77-88.	0.7	89

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37	Preface. <i>Methods in Enzymology</i> , 2013, 523, xvii-xviii.	0.4	1
38	SYNZIP Protein Interaction Toolbox: <i>in Vitro</i> and <i>in Vivo</i> Specifications of Heterospecific Coiled-Coil Interaction Domains. <i>ACS Synthetic Biology</i> , 2012, 1, 118-129.	1.9	178
39	<i>In Silico</i> and <i>in Vitro</i> Elucidation of BH3 Binding Specificity toward Bcl-2. <i>Biochemistry</i> , 2012, 51, 5841-5850.	1.2	35
40	Predictive Bcl-2 Family Binding Models Rooted in Experiment or Structure. <i>Journal of Molecular Biology</i> , 2012, 422, 124-144.	2.0	50
41	Designing specific protein-protein interactions using computation, experimental library screening, or integrated methods. <i>Protein Science</i> , 2012, 21, 949-963.	3.1	43
42	Design of Peptide Inhibitors That Bind the bZIP Domain of Epstein-Barr Virus Protein BZLF1. <i>Journal of Molecular Biology</i> , 2011, 408, 304-320.	2.0	14
43	Determinants of Homodimerization Specificity in Histidine Kinases. <i>Journal of Molecular Biology</i> , 2011, 413, 222-235.	2.0	38
44	Multicoil2: Predicting Coiled Coils and Their Oligomerization States from Sequence in the Twilight Zone. <i>PLoS ONE</i> , 2011, 6, e23519.	1.1	72
45	Protein binding specificity versus promiscuity. <i>Current Opinion in Structural Biology</i> , 2011, 21, 50-61.	2.6	209
46	Identifying and reducing error in cluster expansion approximations of protein energies. <i>Journal of Computational Chemistry</i> , 2010, 31, 2900-2914.	1.5	14
47	Mcl-1/Bim complexes accommodate surprising point mutations via minor structural changes.	3.1	88
48	The MCL-1 BH3 helix is an exclusive MCL-1 inhibitor and apoptosis sensitizer. <i>Nature Chemical Biology</i> , 2010, 6, 595-601.	3.9	374
49	Identification of bZIP Interaction Partners of Viral Proteins HBZ, MEQ, BZLF1, and K-bZIP Using Coiled-Coil Arrays. <i>Biochemistry</i> , 2010, 49, 1985-1997.	1.2	53
50	Specific coiled-coil interactions contribute to a global model of the structure of the spindle pole body. <i>Journal of Structural Biology</i> , 2010, 170, 246-256.	1.3	6
51	Determinants of BH3 Binding Specificity for Mcl-1 versus Bcl-xL. <i>Journal of Molecular Biology</i> , 2010, 398, 747-762.	2.0	113
52	A Synthetic Coiled-Coil Interactome Provides Heterospecific Modules for Molecular Engineering. <i>Journal of the American Chemical Society</i> , 2010, 132, 6025-6031.	6.6	170
53	Cluster expansion models for flexible backbone protein energetics. <i>Journal of Computational Chemistry</i> , 2009, 30, 2402-2413.	1.5	17
54	X-ray vs. NMR structures as templates for computational protein design. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 77, 97-110.	1.5	43

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55	Design of protein-interaction specificity gives selective bZIP-binding peptides. <i>Nature</i> , 2009, 458, 859-864.	13.7	317
56	A Computationally Guided Protein-Interaction Screen Uncovers Coiled-Coil Interactions Involved in Vesicular Trafficking. <i>Journal of Molecular Biology</i> , 2009, 392, 228-241.	2.0	16
57	Predicting helix orientation for coiled-coil dimers. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 1048-1065.	1.5	34
58	Structural specificity in coiled-coil interactions. <i>Current Opinion in Structural Biology</i> , 2008, 18, 477-483.	2.6	252
59	Analysis of Coiled-Coil Interactions between Core Proteins of the Spindle Pole Body. <i>Biochemistry</i> , 2008, 47, 11858-11868.	1.2	19
60	Modeling Backbone Flexibility to Achieve Sequence Diversity: The Design of Novel α -Helical Ligands for Bcl-xL. <i>Journal of Molecular Biology</i> , 2007, 371, 1099-1117.	2.0	73
61	A rational route to probing membrane proteins. <i>Genome Biology</i> , 2007, 8, 214.	13.9	5
62	Computing van der Waals energies in the context of the rotamer approximation. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 68, 863-878.	1.5	23
63	Structure-based Prediction of bZIP Partnering Specificity. <i>Journal of Molecular Biology</i> , 2006, 355, 1125-1142.	2.0	62
64	Ultra-Fast Evaluation of Protein Energies Directly from Sequence. <i>PLoS Computational Biology</i> , 2006, 2, e63.	1.5	37
65	Design of a Heterospecific, Tetrameric, 21-Residue Miniprotein with Mixed α/β Structure. <i>Structure</i> , 2005, 13, 225-234.	1.6	33
66	Coarse-Graining Protein Energetics in Sequence Variables. <i>Physical Review Letters</i> , 2005, 95, 148103.	2.9	19
67	Orientation and Oligomerization Specificity of the Bcr Coiled-Coil Oligomerization Domain. <i>Biochemistry</i> , 2005, 44, 16246-16256.	1.2	31
68	Predicting specificity in bZIP coiled-coil protein interactions. <i>Genome Biology</i> , 2004, 5, R11.	13.9	105
69	Comprehensive Identification of Human bZIP Interactions with Coiled-Coil Arrays. <i>Science</i> , 2003, 300, 2097-2101.	6.0	435
70	Experimental and computational modeling of biphenyl twisting in a solid-to-solid carbene reaction. <i>Tetrahedron Letters</i> , 1999, 40, 261-264.	0.7	10
71	Experimental Proof of the Non-Least-Motion Cycloadditions of Dichlorocarbene to Alkenes: Kinetic Isotope Effects and Quantum Mechanical Transition States. <i>Journal of the American Chemical Society</i> , 1999, 121, 3933-3938.	6.6	77
72	Computational Prediction of the Enantioselectivity of a Solid-State Photoreaction. <i>Organic Letters</i> , 1999, 1, 1279-1281.	2.4	11

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73	Influence of Bystander Substituents on the Rates of 1,2-H and 1,2-Ph Shifts in Singlet and Triplet Carbenes. <i>Journal of Physical Chemistry A</i> , 1998, 102, 8467-8476.	1.1	41
74	Origins of Stereoselective Carbene 1,2-Shifts and Cycloadditions of 1,2-Dichloroethylidene: A Theoretical Model Based on CBS-Q and B3LYP Calculations. <i>Journal of the American Chemical Society</i> , 1997, 119, 10805-10809.	6.6	51
75	Self-Assembling Ternary Complex Stabilities and Template Ratios in Carceplex Formation. <i>Journal of the American Chemical Society</i> , 1997, 119, 4321-4322.	6.6	37
76	Control of Carbene Reactivity by Crystals. A Highly Selective 1,2-H Shift in the Solid-to-Solid Reaction of 1-(4-Biphenyl)-2-phenyldiazopropane to (Z)-1-(4-Biphenyl)-2-phenylpropene. <i>Journal of the American Chemical Society</i> , 1997, 119, 1859-1868.	6.6	30
77	Combining Quantum Mechanical Reaction Pathways with Force Field Lattice Interactions To Model a Solid-State Phototransformation. <i>Journal of the American Chemical Society</i> , 1997, 119, 1474-1475.	6.6	20
78	Transforming a Nonselective Carbene Rearrangement into a Highly Selective Process by Using Crystalline Media. <i>Journal of the American Chemical Society</i> , 1996, 118, 7626-7627.	6.6	27