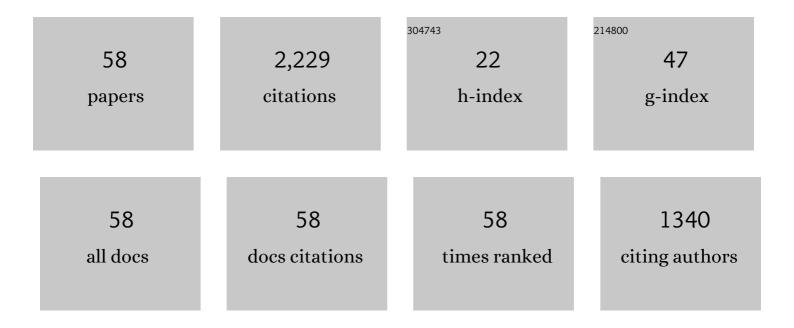
Shalom Rackovsky

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The dynamic basis of structural order in proteins. Proteins: Structure, Function and Bioinformatics, 2022, 90, 1115-1118.	2.6	3
2	Dynamic and conformational switching in proteins. Biopolymers, 2020, 112, e23411.	2.4	3
3	The structure of protein dynamic space. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 19938-19942.	7.1	10
4	Tribute to Harold A. Scheraga. Journal of Physical Chemistry B, 2020, 124, 10301-10302.	2.6	0
5	Sequenceâ€specific dynamic information in proteins. Proteins: Structure, Function and Bioinformatics, 2019, 87, 799-804.	2.6	6
6	Beyond Supersecondary Structure: Physics-Based Sequence Alignment. Methods in Molecular Biology, 2019, 1958, 341-346.	0.9	0
7	Sequence-, structure-, and dynamics-based comparisons of structurally homologous CheY-like proteins. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1578-1583.	7.1	24
8	Global informatics and physical property selection in protein sequences. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 1808-1810.	7.1	8
9	Nonlinearities in protein space limit the utility of informatics in protein biophysics. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1923-1928.	2.6	12
10	Alternative approach to protein structure prediction based on sequential similarity of physical properties. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5029-5032.	7.1	23
11	Homolog detection using global sequence properties suggests an alternate view of structural encoding in protein sequences. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 5225-5229.	7.1	17
12	Improvement of the Treatment of Loop Structures in the UNRES Force Field by Inclusion of Coupling between Backbone- and Side-Chain-Local Conformational States. Journal of Chemical Theory and Computation, 2013, 9, 4620-4632.	5.3	30
13	Sequence determinants of protein architecture. Proteins: Structure, Function and Bioinformatics, 2013, 81, 1681-1685.	2.6	10
14	Lessons from application of the UNRES force field to predictions of structures of CASP10 targets. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14936-14941.	7.1	62
15	Beyond Supersecondary Structure: The Global Properties of Protein Sequences. Methods in Molecular Biology, 2012, 932, 107-114.	0.9	1
16	On the Information Content of Protein Sequences. Journal of Biomolecular Structure and Dynamics, 2011, 28, 593-594.	3.5	9
17	Spectral Analysis of a Protein Conformational Switch. Physical Review Letters, 2011, 106, 248101.	7.8	16
18	Global characteristics of protein sequences and their implications. Proceedings of the National	7.1	22

Academy of Sciences of the United States of America, 2010, 107, 8623-8626.

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#	Article	IF	CITATIONS
19	Sequence physical properties encode the global organization of protein structure space. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14345-14348.	7.1	42
20	Comparative computational analysis of prion proteins reveals two fragments with unusual structural properties and a pattern of increase in hydrophobicity associated with disease-promoting mutations. Protein Science, 2009, 13, 3230-3244.	7.6	29
21	On the properties and sequence context of structurally ambivalent fragments in proteins. Protein Science, 2009, 12, 2420-2433.	7.6	36
22	CFP: a web-server for constructing sequence-based protein conformational flexibility profiles. Bioinformation, 2009, 4, 176-178.	0.5	1
23	Information and discrimination in pairwise contact potentials. Proteins: Structure, Function and Bioinformatics, 2008, 71, 1071-1087.	2.6	16
24	Property-based sequence representations do not adequately encode local protein folding information. Proteins: Structure, Function and Bioinformatics, 2007, 67, 785-788.	2.6	9
25	Characterization of Architecture Signals in Proteinsâ€. Journal of Physical Chemistry B, 2006, 110, 18771-18778.	2.6	16
26	Improvement of statistical potentials and threading score functions using information maximization. Proteins: Structure, Function and Bioinformatics, 2006, 62, 892-908.	2.6	26
27	On the use of secondary structure in protein structure prediction: a bioinformatic analysis. Polymer, 2004, 45, 525-546.	3.8	16
28	Class-specific correlations between protein folding rate, structure-derived, and sequence-derived descriptors. Proteins: Structure, Function and Bioinformatics, 2003, 54, 333-341.	2.6	32
29	Optimally informative backbone structural propensities in proteins. Proteins: Structure, Function and Bioinformatics, 2002, 48, 463-486.	2.6	28
30	Discriminative ability with respect to amino acid types: Assessing the performance of knowledge-based potentials without threading. Proteins: Structure, Function and Bioinformatics, 2002, 49, 266-284.	2.6	11
31	Optimized representations and maximal information in proteins. Proteins: Structure, Function and Bioinformatics, 2000, 38, 149-64.	2.6	28
32	Computational analysis of variants of the operator binding domain of the bacteriophage ? repressor. International Journal of Quantum Chemistry, 1999, 75, 313-325.	2.0	2
33	United-residue force field for off-lattice protein-structure simulations: III. Origin of backbone hydrogen-bonding cooperativity in united-residue potentials. Journal of Computational Chemistry, 1998, 19, 259-276.	3.3	153
34	"Hidden" sequence periodicities and protein architecture. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 8580-8584.	7.1	64
35	A united-residue force field for off-lattice protein-structure simulations. I. Functional forms and parameters of long-range side-chain interaction potentials from protein crystal data. Journal of Computational Chemistry, 1997, 18, 849-873.	3.3	334
36	A united-residue force field for off-lattice protein-structure simulations. II. Parameterization of short-range interactions and determination of weights of energy terms by Z-score optimization. Journal of Computational Chemistry, 1997, 18, 874-887.	3.3	183

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37	New optimization method for conformational energy calculations on polypeptides: Conformational space annealing. Journal of Computational Chemistry, 1997, 18, 1222-1232.	3.3	291
38	A united-residue force field for off-lattice protein-structure simulations. II. Parameterization of short-range interactions and determination of weights of energy terms by Z-score optimization. , 1997, 18, 874.		1
39	On the existence and implications of an inverse folding code in proteins Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 6861-6863.	7.1	9
40	Protein sequence randomness and sequence/structure correlations. Biophysical Journal, 1995, 68, 1531-1539.	0.5	13
41	Prediction of conformation of rat galanin in the presence and absence of water with the use of monte Carlo methods and the ECEPP/3 force field. The Protein Journal, 1994, 13, 375-380.	1.1	11
42	Calculation of protein backbone geometry from α arbon coordinates based on peptideâ€group dipole alignment. Protein Science, 1993, 2, 1697-1714.	7.6	98
43	Prediction of protein conformation on the basis of a search for compact structures: Test on avian pancreatic polypeptide. Protein Science, 1993, 2, 1715-1731.	7.6	139
44	On the nature of the protein folding code Proceedings of the National Academy of Sciences of the United States of America, 1993, 90, 644-648.	7.1	40
45	Effects of compact volume and chain stiffness on the conformations of native proteins Proceedings of the United States of America, 1992, 89, 6614-6618.	7.1	42
46	Comparison of the predicted structure for the activated form of the P21 protein with the X-ray crystal structure. The Protein Journal, 1990, 9, 543-547.	1.1	4
47	The structure of the carboxyl terminus of the p21 protein. Structural relationship to the nucleotide-binding/transforming regions of the protein. The Protein Journal, 1990, 9, 137-142.	1.1	6
48	Quantitative organization of the known protein x-ray structures. I. Methods and short-length-scale results. Proteins: Structure, Function and Bioinformatics, 1990, 7, 378-402.	2.6	55
49	Correlation of the structure of the transmembrane domain of the neu oncogene-encoded p185 protein with its function Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 8660-8664.	7.1	64
50	Conformations of the central transforming region (Ile 55â€Met 67) of the p21 protein and their relationship to activation of the protein. International Journal of Peptide and Protein Research, 1990, 36, 247-254.	0.1	6
51	Lattice Random Walk Theory of Geminate Recombination. Molecular Crystals and Liquid Crystals Incorporating Nonlinear Optics, 1989, 175, 135-140.	0.3	0
52	Protein comparison and classification: a differential geometric approach Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 777-781.	7.1	22
53	Substitutions of proline 76 in yeast iso-1-cytochrome c. Analysis of residues compatible and incompatible with folding requirements. Journal of Biological Chemistry, 1985, 260, 13225-36.	3.4	21
54	On the redox conformational change in cytochrome c Proceedings of the National Academy of Sciences of the United States of America, 1984, 81, 5901-5905.	7.1	20

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55	Intermolecular anti-parallel sheet: Comparison of predicted and observed conformations of gramicidin S. Proceedings of the National Academy of Sciences of the United States of America, 1980, 77, 6965-6967.	7.1	48
56	Hydrophobicity, hydrophilicity, and the radial and orientational distributions of residues in native proteins Proceedings of the National Academy of Sciences of the United States of America, 1977, 74, 5248-5251.	7.1	54
57	Identification of nonrandom patterns in structural and mutational data: the case of prion protein. , 0, , .		1
58	A united-residue force field for off-lattice protein-structure simulations. I. Functional forms and parameters of long-range side-chain interaction potentials from protein crystal data. , 0, .		2