Eric J Rawdon

List of Publications by Year in descending order

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FRICLENNDON

#	Article	IF	CITATIONS
1	Conservation of complex knotting and slipknotting patterns in proteins. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1715-23.	7.1	219
2	KnotProt: a database of proteins with knots and slipknots. Nucleic Acids Research, 2015, 43, D306-D314.	14.5	159
3	Effect of Knotting on the Shape of Polymers. Macromolecules, 2008, 41, 8281-8287.	4.8	97
4	KnotProt 2.0: a database of proteins with knots and other entangled structures. Nucleic Acids Research, 2019, 47, D367-D375.	14.5	70
5	Identifying knots in proteins. Biochemical Society Transactions, 2013, 41, 533-537.	3.4	65
6	Knot Tightening by Constrained Gradient Descent. Experimental Mathematics, 2011, 20, 57-90.	0.7	51
7	Bending modes of DNA directly addressed by cryo-electron microscopy of DNA minicircles. Nucleic Acids Research, 2009, 37, 2882-2893.	14.5	47
8	Knotting pathways in proteins. Biochemical Society Transactions, 2013, 41, 523-527.	3.4	40
9	LinkProt: a database collecting information about biological links. Nucleic Acids Research, 2017, 45, D243-D249.	14.5	38
10	How topoisomerase IV can efficiently unknot and decatenate negatively supercoiled DNA molecules without causing their torsional relaxation. Nucleic Acids Research, 2016, 44, 4528-4538.	14.5	33
11	Scaling Behavior and Equilibrium Lengths of Knotted Polymers. Macromolecules, 2008, 41, 4444-4451.	4.8	31
12	Energy, ropelength, and other physical aspects of equilateral knots. Journal of Computational Physics, 2003, 186, 426-456.	3.8	28
13	UNIVERSAL CHARACTERISTICS OF POLYGONAL KNOT PROBABILITIES. Series on Knots and Everything, 2005, , 247-274.	0.0	28
14	Total Curvature and Total Torsion of Knotted Polymers. Macromolecules, 2007, 40, 3860-3867.	4.8	26
15	Can Computers Discover Ideal Knots?. Experimental Mathematics, 2003, 12, 287-302.	0.7	23
16	APPROXIMATING SMOOTH THICKNESS. Journal of Knot Theory and Its Ramifications, 2000, 09, 113-145.	0.3	22
17	Knot localization in proteins. Biochemical Society Transactions, 2013, 41, 538-541.	3.4	21
18	Subknots in ideal knots, random knots and knotted proteins. Scientific Reports, 2015, 5, 8928.	3.3	20

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19	Approximating the Thickness of a Knot. Series on Knots and Everything, 1998, , 143-150.	0.0	19
20	Length of the tightest trefoil knot. Physical Review E, 2004, 70, 051810.	2.1	19
21	Effect of knotting on polymer shapes and their enveloping ellipsoids. Journal of Chemical Physics, 2009, 130, 165104.	3.0	16
22	Sedimentation of macroscopic rigid knots and its relation to gel electrophoretic mobility of DNA knots. Scientific Reports, 2013, 3, 1091.	3.3	14
23	Role of flexibility in entanglement. Physical Review E, 2004, 70, 011803.	2.1	13
24	POLYGONAL APPROXIMATION AND ENERGY OF SMOOTH KNOTS. Journal of Knot Theory and Its Ramifications, 2006, 15, 429-451.	0.3	12
25	Tight knot spectrum in QCD. Physical Review D, 2014, 89, .	4.7	11
26	Möbius energy of thick knots. Topology and Its Applications, 2002, 125, 97-109.	0.4	10
27	POLYGONAL KNOT SPACE NEAR ROPELENGTH-MINIMIZED KNOTS. Journal of Knot Theory and Its Ramifications, 2008, 17, 601-631.	0.3	10
28	Shapes of tight composite knots. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 225202.	2.1	9
29	Knot fertility and lineage. Journal of Knot Theory and Its Ramifications, 2017, 26, 1750093.	0.3	9
30	All Monofilament Knots Assume Sliding Conformation In Vivo. Dermatologic Surgery, 2013, 39, 729-733.	0.8	8
31	ERROR ANALYSIS OF THE MINIMUM DISTANCE ENERGY OF A POLYGONAL KNOT AND THE M×BIUS ENERGY OF AN APPROXIMATING CURVE. Journal of Knot Theory and Its Ramifications, 2010, 19, 975-1000.	0.3	7
32	Symmetry-breaking in cumulative measures of shapes of polymer models. Journal of Chemical Physics, 2010, 133, 154113.	3.0	6
33	ROPELENGTH OF TIGHT POLYGONAL KNOTS. Series on Knots and Everything, 2005, , 293-321.	0.0	6
34	Link lengths and their growth powers. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 035202.	2.1	3
35	Knotting fingerprints resolve knot complexity and knotting pathways in ideal knots. Journal of Physics Condensed Matter, 2015, 27, 354112.	1.8	3
36	Total curvature and total torsion of knotted random polygons in confinement. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 154002.	2.1	3

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#	Article	IF	CITATIONS
37	Relative Frequencies of Alternating and Nonalternating Prime Knots and Composite Knots in Random Knot Spaces. Experimental Mathematics, 2018, 27, 454-471.	0.7	2
38	Average crossing number and writhe of knotted random polygons in confinement. Reactive and Functional Polymers, 2018, 131, 430-444.	4.1	2
39	Knotting spectrum of polygonal knots in extreme confinement. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 235202.	2.1	1
40	The spectrum of tightly knotted flux tubes in QCD. Journal of Physics: Conference Series, 2014, 544, 012025.	0.4	0
41	Open knotting. , 2017, , 176-204.		0