Kenneth C Millett

List of Publications by Year
in descending order

45	1,531	394421	315739
papers	citations	19	38
		h-index	g-index

48	48	48	715
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A polynomial invariant of oriented links. Topology, 1987, 26, 107-141.	0.3	268
2	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
3	KnotProt: a database of proteins with knots and slipknots. Nucleic Acids Research, 2015, 43, D306-D314.	14.5	159
4	A polynomial invariant for unoriented knots and links. Inventiones Mathematicae, 1986, 84, 563-573.	2.5	121
5	Effect of Knotting on the Shape of Polymers. Macromolecules, 2008, 41, 8281-8287.	4.8	97
6	KnotProt 2.0: a database of proteins with knots and other entangled structures. Nucleic Acids Research, 2019, 47, D367-D375.	14.5	70
7	Identifying knots in proteins. Biochemical Society Transactions, 2013, 41, 533-537.	3.4	65
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	KNOTTING OF REGULAR POLYGONS IN 3-SPACE. Journal of Knot Theory and Its Ramifications, 1994, 03, 263-278.	0.3	35
11	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
12	Scaling Behavior and Equilibrium Lengths of Knotted Polymers. Macromolecules, 2008, 41, 4444-4451.	4.8	31
13	Energy, ropelength, and other physical aspects of equilateral knots. Journal of Computational Physics, 2003, 186, 426-456.	3.8	28
14	UNIVERSAL CHARACTERISTICS OF POLYGONAL KNOT PROBABILITIES. Series on Knots and Everything, 2005, , 247-274.	0.0	28
15	A Study of the Entanglement in Systems with Periodic Boundary Conditions. Progress of Theoretical Physics Supplement, 2011, 191, 172-181.	0.1	27
16	Total Curvature and Total Torsion of Knotted Polymers. Macromolecules, 2007, 40, 3860-3867.	4.8	26
17	Topological Methods for Polymeric Materials: Characterizing the Relationship Between Polymer Entanglement and Viscoelasticity. Polymers, 2019, 11, 437.	4.5	22
18	Knot localization in proteins. Biochemical Society Transactions, 2013, 41, 538-541.	3.4	21

#	Article	IF	Citations
19	Subknots in ideal knots, random knots and knotted proteins. Scientific Reports, 2015, 5, 8928.	3.3	20
20	TYING DOWN OPEN KNOTS: A STATISTICAL METHOD FOR IDENTIFYING OPEN KNOTS WITH APPLICATIONS TO PROTEINS. Series on Knots and Everything, 2005, , 203-217.	0.0	19
21	The Generation of Random Equilateral Polygons. Journal of Statistical Physics, 2011, 143, 102-138.	1.2	18
22	MONTE CARLO EXPLORATIONS OF POLYGONAL KNOT SPACES. , 2000, , .		18
23	Effect of knotting on polymer shapes and their enveloping ellipsoids. Journal of Chemical Physics, 2009, 130, 165104.	3.0	16
24	Stereotopological indices for a family of chemical graphs. Journal of Computational Chemistry, 1987, 8, 536-548.	3.3	14
25	KNOTS, SLIPKNOTS, AND EPHEMERAL KNOTS IN RANDOM WALKS AND EQUILATERAL POLYGONS. Journal of Knot Theory and Its Ramifications, 2010, 19, 601-615.	0.3	13
26	A LOAD BALANCED ALGORITHM FOR THE CALCULATION OF THE POLYNOMIAL KNOT AND LINK INVARIANTS. , 1991, , 225-266.		10
27	POLYGONAL KNOT SPACE NEAR ROPELENGTH-MINIMIZED KNOTS. Journal of Knot Theory and Its Ramifications, 2008, 17, 601-631.	0.3	10
28	PyLink: a PyMOL plugin to identify links. Bioinformatics, 2019, 35, 3166-3168.	4.1	9
29	Characteristics of shape and knotting in ideal rings. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 225001.	2.1	7
30	Resolving critical degrees of entanglement in Olympic ring systems. Journal of Knot Theory and Its Ramifications, 2016, 25, 1650081.	0.3	7
31	Symmetry-breaking in cumulative measures of shapes of polymer models. Journal of Chemical Physics, 2010, 133, 154113.	3.0	6
32	GLN: a method to reveal unique properties of lasso type topology in proteins. Scientific Reports, 2020, 10, 15186.	3.3	6
33	KNOTTING OF REGULAR POLYGONS IN 3-SPACE. Series on Knots and Everything, 1994, , 31-46.	0.0	6
34	The Length Scale of 3-Space Knots, Ephemeral Knots, and Slipknots in Random Walks. Progress of Theoretical Physics Supplement, 2011, 191, 182-191.	0.1	5
35	PHYSICAL KNOT THEORY: AN INTRODUCTION TO THE STUDY OF THE INFLUENCE OF KNOTTING ON THE SPATIAL CHARACTERISTICS OF POLYMERS. Series on Knots and Everything, 2011, , 346-378.	0.0	3
36	Knotting fingerprints resolve knot complexity and knotting pathways in ideal knots. Journal of Physics Condensed Matter, 2015, 27, 354112.	1.8	3

#	Article	IF	Citations
37	Knots in knots: A study of classical knot diagrams. Journal of Knot Theory and Its Ramifications, 2016, 25, 1641013.	0.3	3
38	Algebraic Topological Indices of Molecular Chirality. , 1991, , 165-207.		3
39	Knotting and linking in macromolecules. Reactive and Functional Polymers, 2018, 131, 181-190.	4.1	2
40	More knots in knots: A study of classical knot diagrams. Journal of Knot Theory and Its Ramifications, 2017, 26, 1750046.	0.3	1
41	Linking matrices in systems with periodic boundary conditions. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 225001.	2.1	1
42	TOPOLOGICAL QUANTUM FIELD THEORY AND INVARIANTS OF SPATIAL GRAPHS. International Journal of Modern Physics B, 1992, 06, 1825-1846.	2.0	0
43	Cumulative Shapes of Knotted Polymers. Progress of Theoretical Physics Supplement, 2011, 191, 165-171.	0.1	0
44	Knot Theory, Jonesâ€™ Polynomials, Invariants of 3-Manifolds, and the Topological Theory of Fluid Dynamics. , 1992, , 29-64.		0
45	Linking in Systems with One-Dimensional Periodic Boundaries. Springer Proceedings in Mathematics and Statistics, 2017, , 237-257.	0.2	0