

Kenneth C Millett

List of Publications by Year in descending order

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45
papers

1,531
citations

394421

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g-index

48
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48
docs citations

48
times ranked

715
citing authors

#	ARTICLE	IF	CITATIONS
1	GLN: a method to reveal unique properties of lasso type topology in proteins. <i>Scientific Reports</i> , 2020, 10, 15186.	3.3	6
2	PyLink: a PyMOL plugin to identify links. <i>Bioinformatics</i> , 2019, 35, 3166-3168.	4.1	9
3	Topological Methods for Polymeric Materials: Characterizing the Relationship Between Polymer Entanglement and Viscoelasticity. <i>Polymers</i> , 2019, 11, 437.	4.5	22
4	KnotProt 2.0: a database of proteins with knots and other entangled structures. <i>Nucleic Acids Research</i> , 2019, 47, D367-D375.	14.5	70
5	Linking matrices in systems with periodic boundary conditions. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2018, 51, 225001.	2.1	1
6	Knotting and linking in macromolecules. <i>Reactive and Functional Polymers</i> , 2018, 131, 181-190.	4.1	2
7	More knots in knots: A study of classical knot diagrams. <i>Journal of Knot Theory and Its Ramifications</i> , 2017, 26, 1750046.	0.3	1
8	LinkProt: a database collecting information about biological links. <i>Nucleic Acids Research</i> , 2017, 45, D243-D249.	14.5	38
9	Linking in Systems with One-Dimensional Periodic Boundaries. <i>Springer Proceedings in Mathematics and Statistics</i> , 2017, , 237-257.	0.2	0
10	Knots in knots: A study of classical knot diagrams. <i>Journal of Knot Theory and Its Ramifications</i> , 2016, 25, 1641013.	0.3	3
11	Resolving critical degrees of entanglement in Olympic ring systems. <i>Journal of Knot Theory and Its Ramifications</i> , 2016, 25, 1650081.	0.3	7
12	How topoisomerase IV can efficiently unknot and decatenate negatively supercoiled DNA molecules without causing their torsional relaxation. <i>Nucleic Acids Research</i> , 2016, 44, 4528-4538.	14.5	33
13	Subknots in ideal knots, random knots and knotted proteins. <i>Scientific Reports</i> , 2015, 5, 8928.	3.3	20
14	Knotting fingerprints resolve knot complexity and knotting pathways in ideal knots. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 354112.	1.8	3
15	KnotProt: a database of proteins with knots and slipknots. <i>Nucleic Acids Research</i> , 2015, 43, D306-D314.	14.5	159
16	Identifying knots in proteins. <i>Biochemical Society Transactions</i> , 2013, 41, 533-537.	3.4	65
17	Knot localization in proteins. <i>Biochemical Society Transactions</i> , 2013, 41, 538-541.	3.4	21
18	Knotting pathways in proteins. <i>Biochemical Society Transactions</i> , 2013, 41, 523-527.	3.4	40

#	ARTICLE	IF	CITATIONS
19	Characteristics of shape and knotting in ideal rings. Journal of Physics A: Mathematical and Theoretical, 2012, 45, 225001.	2.1	7
20	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
21	The Generation of Random Equilateral Polygons. Journal of Statistical Physics, 2011, 143, 102-138.	1.2	18
22	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
23	A Study of the Entanglement in Systems with Periodic Boundary Conditions. Progress of Theoretical Physics Supplement, 2011, 191, 172-181.	0.1	27
24	The Length Scale of \mathbb{S}^3 -Space Knots, Ephemeral Knots, and Slipknots in Random Walks. Progress of Theoretical Physics Supplement, 2011, 191, 182-191.	0.1	5
25	Cumulative Shapes of Knotted Polymers. Progress of Theoretical Physics Supplement, 2011, 191, 165-171.	0.1	0
26	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
27	Symmetry-breaking in cumulative measures of shapes of polymer models. Journal of Chemical Physics, 2010, 133, 154113.	3.0	6
28	Effect of knotting on polymer shapes and their enveloping ellipsoids. Journal of Chemical Physics, 2009, 130, 165104.	3.0	16
29	Scaling Behavior and Equilibrium Lengths of Knotted Polymers. Macromolecules, 2008, 41, 4444-4451.	4.8	31
30	Effect of Knotting on the Shape of Polymers. Macromolecules, 2008, 41, 8281-8287.	4.8	97
31	POLYGONAL KNOT SPACE NEAR ROPELENGTH-MINIMIZED KNOTS. Journal of Knot Theory and Its Ramifications, 2008, 17, 601-631.	0.3	10
32	Total Curvature and Total Torsion of Knotted Polymers. Macromolecules, 2007, 40, 3860-3867.	4.8	26
33	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
34	UNIVERSAL CHARACTERISTICS OF POLYGONAL KNOT PROBABILITIES. Series on Knots and Everything, 2005, , 247-274.	0.0	28
35	Energy, ropelength, and other physical aspects of equilateral knots. Journal of Computational Physics, 2003, 186, 426-456.	3.8	28
36	MONTE CARLO EXPLORATIONS OF POLYGONAL KNOT SPACES. , 2000, , .		18

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37	KNOTTING OF REGULAR POLYGONS IN 3-SPACE. Journal of Knot Theory and Its Ramifications, 1994, 03, 263-278.	0.3	35
38	KNOTTING OF REGULAR POLYGONS IN 3-SPACE. Series on Knots and Everything, 1994, , 31-46.	0.0	6
39	TOPOLOGICAL QUANTUM FIELD THEORY AND INVARIANTS OF SPATIAL GRAPHS. International Journal of Modern Physics B, 1992, 06, 1825-1846.	2.0	0
40	Knot Theory, Jones's™ Polynomials, Invariants of 3-Manifolds, and the Topological Theory of Fluid Dynamics. , 1992, , 29-64.		0
41	A LOAD BALANCED ALGORITHM FOR THE CALCULATION OF THE POLYNOMIAL KNOT AND LINK INVARIANTS. , 1991, , 225-266.		10
42	Algebraic Topological Indices of Molecular Chirality. , 1991, , 165-207.		3
43	Stereotopological indices for a family of chemical graphs. Journal of Computational Chemistry, 1987, 8, 536-548.	3.3	14
44	A polynomial invariant of oriented links. Topology, 1987, 26, 107-141.	0.3	268
45	A polynomial invariant for unoriented knots and links. Inventiones Mathematicae, 1986, 84, 563-573.	2.5	121