Evangelos A Coutsias

List of Publications by Year
in descending order

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51	2,396	331670	233421
papers	citations	21	45
		h-index	g-index

53	53	53	3277
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Protein secondary structure motifs: A kinematic construction. Journal of Computational Chemistry, 2021, 42, 271-292.	3.3	4
2	Kinematic Reconstruction of Cyclic Peptides and Protein Backbones from Partial Data. Journal of Chemical Information and Modeling, 2021, 61, 4975-5000.	5.4	0
3	Sampling and refinement protocols for template-based macrocycle docking: 2018 D3R Grand Challenge 4. Journal of Computer-Aided Molecular Design, 2020, 34, 179-189.	2.9	8
4	RMSD and Symmetry. Journal of Computational Chemistry, 2019, 40, 1496-1508.	3.3	37
5	Light Harvesting for Rapid and Selective Reactions: Click Chemistry with Strain-Loadable Alkenes. CheM, 2018, 4, 124-137.	11.7	47
6	Laguerre-Intersection Method for Implicit Solvation. International Journal of Computational Geometry and Applications, 2018, 28, 1-38.	0.5	1
7	Tribute to Ken A. Dill. Journal of Physical Chemistry B, 2018, 122, 5261-5262.	2.6	0
8	Characterization of Biomolecular Helices and Their Complementarity Using Geometric Analysis. Journal of Chemical Information and Modeling, 2017, 57, 864-874.	5.4	9
9	A human transcription factor in search mode. Nucleic Acids Research, 2016, 44, 63-74.	14.5	52
10	Exhaustive Conformational Sampling of Complex Fused Ring Macrocycles Using Inverse Kinematics. Journal of Chemical Theory and Computation, 2016, 12, 4674-4687.	5.3	54
11	Accurate de novo design of hyperstable constrained peptides. Nature, 2016, 538, 329-335.	27.8	327
12	Flexibility of Bricardâ€™s linkages and other structures via resultants and computer algebra. Mathematics and Computers in Simulation, 2016, 125, 152-167.	4.4	1
13	Constraint methods that accelerate free-energy simulations of biomolecules. Journal of Chemical Physics, 2015, 143, 243143.	3.0	1
14	On the comparison of energy sources: Feasibility of radio frequency and ambient light harvesting. Renewable Energy, 2015, 81, 804-807.	8.9	11
15	Bricard flexible octahedra and the canonical cyclohexane. ACM Communications in Computer Algebra, 2015, 49, 56-56.	0.4	0
16	Selective Inhibition of Initiator versus Executioner Caspases Using Small Peptides Containing Unnatural Amino Acids. ACS Chemical Biology, 2014, 9, 2194-2198.	3.4	16
17	Assessing Protein Loop Flexibility by Hierarchical Monte Carlo Sampling. Journal of Chemical Theory and Computation, 2011, 7, 1564-1574.	5.3	22
18	The FALC-Loop web server for protein loop modeling. Nucleic Acids Research, 2011, 39, W210-W214.	14.5	101

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19	Protein loop modeling by using fragment assembly and analytical loop closure. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3428-3436.	2.6	90
20	Topology of cyclo-octane energy landscape. Journal of Chemical Physics, 2010, 132, 234115.	3.0	51
21	Delay-induced destabilization of entrainment of nerve impulses on ephaptically coupled nerve fibers. Physical Review E, 2009, 79, 011910.	2.1	3
22	Sub-angstrom accuracy in protein loop reconstruction by robotics-inspired conformational sampling. Nature Methods, 2009, 6, 551-552.	19.0	408
23	Periodic solutions of a singularly perturbed delay differential equation. Physica D: Nonlinear Phenomena, 2008, 237, 3307-3321.	2.8	11
24	Scaffold Topologies. 1. Exhaustive Enumeration up to Eight Rings. Journal of Chemical Information and Modeling, 2008, 48, 1304-1310.	5.4	43
25	Iterative Assembly of Helical Proteins by Optimal Hydrophobic Packing. Structure, 2008, 16, 1257-1266.	3.3	10
26	Scaffold Topologies. 2. Analysis of Chemical Databases. Journal of Chemical Information and Modeling, 2008, 48, 1311-1324.	5.4	44
27	Algorithmic dimensionality reduction for molecular structure analysis. Journal of Chemical Physics, 2008, 129, 064118.	3.0	61
28	Resultants and loop closure. International Journal of Quantum Chemistry, 2006, 106, 176-189.	2.0	49
29	Spectral element modeling of semiconductor heterostructures. Mathematical and Computer Modelling, 2006, 43, 582-591.	2.0	5
30	Algorithmic Search for Flexibility Using Resultants of Polynomial Systems. , 2006, , 68-79.		2
31	Research results on biomagnetic imaging of the lung tumors. , 2005, 5692, 1.		0
32	The flexibility in the proline ring couples to the protein backbone. Protein Science, 2005, 14, 1011-1018.	7.6	77
33	Rotational superposition and least squares: The SVD and quaternions approaches yield identical results. Reply to the preceding comment by G. Kneller. Journal of Computational Chemistry, 2005, 26, 1663-1665.	3.3	12
34	A reduced-order partial differential equation model for the flow in a thermosyphon. Journal of Fluid Mechanics, 2005, 543, 203.	3.4	13
35	A kinematic view of loop closure. Journal of Computational Chemistry, 2004, 25, 510-528.	3.3	265
36	Using quaternions to calculate RMSD. Journal of Computational Chemistry, 2004, 25, 1849-1857.	3.3	296

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37	Invertibility of current density from near-field electromagnetic data. Journal of Applied Physics, 2003, 94, 5307.	2.5	3
38	An accurate and efficient spectral method for studies of the dynamical properties of forced, circular shear layers. Applied Numerical Mathematics, 2000, 33, 175-181.	2.1	1
39	An efficient spectral method for ordinary differential equations with rational function coefficients. Mathematics of Computation, 1996, 65, 611-636.	2.1	69
40	Acoustic-wave nonlinearity in stimulated Brillouin scattering. Journal of the Optical Society of America B: Optical Physics, 1994, 11, 1367.	2.1	1
41	Fundamental interactions of vortical structures with boundary layers in two-dimensional flows. Physica D: Nonlinear Phenomena, 1991, 51, 482-497.	2.8	27
42	Spectral methods in numerical plasma simulation. Physica Scripta, 1989, 40, 270-279.	2.5	22
43	Caustics and virtual cathodes in electron beams. Journal of Plasma Physics, 1988, 40, 369-384.	2.1	4
44	Disorder, renormalizability, theta functions and Cornu spirals. Physica D: Nonlinear Phenomena, 1987, 26, 295-310.	2.8	21
45	On Cornu Spirals. Disorder, Selfsimilarity, and Jacobiâ€™s Î¸3(Î½,Ï„). , 1987, , 139-152.		1
46	A moving boundary model of acrosomal elongation. Journal of Mathematical Biology, 1986, 23, 361-379.	1.9	22
47	Nonrelativistic Kapitza-Dirac scattering. Physical Review A, 1985, 31, 3155-3168.	2.5	15
48	The aging of nuclei in a binary mixture. Physica D: Nonlinear Phenomena, 1984, 12, 295-302.	2.8	5
49	Space-charge-limit instabilities in electron beams. Physical Review A, 1983, 27, 1535-1543.	2.5	36
50	Long-time behavior of Ginzburg-Landau systems far from equilibrium. Physical Review B, 1981, 24, 2592-2602.	3.2	21
51	Stable oscillations in single species growth models with hereditary effects. Mathematical Biosciences, 1979, 44, 255-267.	1.9	17