Pirooz Vakili

List of Publications by Year in descending order

33	691	687363 13	839539 18
papers	citations	h-index	g-index

34	34	34	909
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improved cluster ranking in proteinâ€“protein docking using a regression approach. Computational and Structural Biotechnology Journal, 2021, 19, 2269-2278.	4.1	6
2	Designing heterogeneous hierarchical material systems: a holistic approach to structural and materials design. MRS Communications, 2019, 9, 628-636.	1.8	10
3	Focused gridâ€based resampling for protein docking and mapping. Journal of Computational Chemistry, 2016, 37, 961-970.	3.3	6
4	Energy Minimization on Manifolds for Docking Flexible Molecules. Journal of Chemical Theory and Computation, 2015, 11, 1063-1076.	5.3	24
5	The Impact of Side-Chain Packing on Protein Docking Refinement. Journal of Chemical Information and Modeling, 2015, 55, 872-881.	5.4	15
6	Optimization on the space of rigid and flexible motions: An alternative manifold optimization approach. , 2014, 2014, 5825-5830.		1
7	A Subspace Semi-Definite programming-based Underestimation (SSDU) method for stochastic global optimization in protein docking. , 2014, 2014, 4623-4628.		1
8	Efficient Maintenance and Update of Nonbonded Lists in Macromolecular Simulations. Journal of Chemical Theory and Computation, 2014, 10, 4449-4454.	5.3	2
9	Encounter complexes and dimensionality reduction in proteinâ€“protein association. ELife, 2014, 3, e01370.	6.0	61
10	Flexible refinement of protein-ligand docking on manifolds. , 2013, , 1392-1397.		2
11	A new distributed algorithm for side-chain positioning in the process of protein docking. , 2013, , 739-744.		3
12	A new approach to rigid body minimization with application to molecular docking. , 2012, , 2983-2988.		4
13	Rigid Body Energy Minimization on Manifolds for Molecular Docking. Journal of Chemical Theory and Computation, 2012, 8, 4374-4380.	5.3	22
14	A message passing approach to Side Chain Positioning with applications in protein docking refinement. , 2012, , 2310-2315.		3
15	Achieving reliability and high accuracy in automated protein docking: Cluspro, PIPER, SDU, and stability analysis in CAPRI rounds 13â€“19. Proteins: Structure, Function and Bioinformatics, 2010, 78, 3124-3130.	2.6	211
16	Importance sampling for parametric estimation. , 2010, , .		0
17	Control variates for sensitivity estimation. , 2010, , .		0
18	Control variate technique: A constructive approach. , 2008, , .		12

#	Article	IF	Citations
19	Protein Docking by the Underestimation of Free Energy Funnels in the Space of Encounter Complexes. PLoS Computational Biology, 2008, 4, e1000191.	3.2	41
20	SDU: A Semidefinite Programming-Based Underestimation Method for Stochastic Global Optimization in Protein Docking. IEEE Transactions on Automatic Control, 2007, 52, 664-676.	5.7	20
21	Optimizing noisy funnel-like functions on the euclidean group with applications to protein docking. , 2007, , .		2
22	A New Efficient Simulation Strategy for Pricing Path-Dependent Options. , 2006, , .		10
23	Protein-protein docking with reduced potentials by exploiting multi-dimensional energy funnels. , 2006, 2006, 5330-3.		4
24	A Non-myopic Utility Function for Statistical Global Optimization Algorithms. Journal of Global Optimization, 1999, 14, 283-298.	1.8	26
25	Variance reduction algorithms for parallel replicated simulation of uniformized Markov chains. Discrete Event Dynamic Systems: Theory and Applications, 1996, 6, 159-180.	1.5	15
26	Comparing Markov Chains Simulated in Parallel. Probability in the Engineering and Informational Sciences, 1994, 8, 309-326.	0.8	22
27	Uniformization based sensitivity estimation for a class of discrete-event systems. Discrete Event Dynamic Systems: Theory and Applications, 1994, 4, 171-195.	1.5	3
28	Parallel replicated simulation of Markov chains. , 1993, , .		2
29	Massively parallel and distributed simulation of a class of discrete event systems. ACM Transactions on Modeling and Computer Simulation, 1992, 2, 214-238.	0.8	42
30	Correlation of Markov chains simulated in parallel. , 1992, , .		4
31	Using a standard clock technique for efficient simulation. Operations Research Letters, 1991, 10, 445-452.	0.7	86
32	Using Uniformization for Derivative Estimation in Simulation. , 1990, , .		4
33	On the efficient generation of discrete event sample paths under different system parameter values. Mathematics and Computers in Simulation, 1988, 30, 347-370.	4.4	27