Duan Chen

List of Publications by Year
in descending order

15	369	1040056 9	1125743 13
papers	citations	h-index	g-index

15	15	15	276
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	MIBPB: A software package for electrostatic analysis. Journal of Computational Chemistry, 2011, 32, 756-770.	3.3	127
2	Second-order Poissonâ€“Nernstâ€“Planck solver for ion transport. Journal of Computational Physics, 2011, 230, 5239-5262.	3.8	93
3	Modeling and simulation of electronic structure, material interface and random doping in nano-electronic devices. Journal of Computational Physics, 2010, 229, 4431-4460.	3.8	36
4	Involvement of Tumor Macrophage HIFs in Chemotherapy Effectiveness: Mathematical Modeling of Oxygen, pH, and Glutathione. PLoS ONE, 2014, 9, e107511.	2.5	24
5	Quantum dynamics in continuum for proton transport II: Variational solventâ€“solute interface. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 25-51.	2.1	21
6	Quantum dynamics in continuum for proton transportâ€”Generalized correlation. Journal of Chemical Physics, 2012, 136, 134109.	3.0	20
7	Quantum Dynamics in Continuum for Proton Transport I: Basic Formulation. Communications in Computational Physics, 2013, 13, 285-324.	1.7	13
8	A New Poissonâ€“Nernstâ€“Planck Model with Ionâ€“Water Interactions for Charge Transport in Ion Channels. Bulletin of Mathematical Biology, 2016, 78, 1703-1726.	1.9	11
9	Computational methods for optical molecular imaging. Communications in Numerical Methods in Engineering, 2009, 25, 1137-1161.	1.3	9
10	Investigating the Selectivity of KcsA Channel by an Image Charge Solvation Method (ICSM) in Molecular Dynamics Simulations. Communications in Computational Physics, 2016, 19, 927-943.	1.7	6
11	A Review of Mathematical Modeling, Simulation and Analysis of Membrane Channel Charge Transport â˜†. , 2017, , .		3
12	Modeling and computation of heterogeneous implicit solvent and its applications for biomolecules. Computational and Mathematical Biophysics, 2014, 2, 107-127.	1.1	2
13	Geometric structure guided model and algorithms for complete deconvolution of gene expression data. , 2022, 4, 441.		2
14	Fractional Poissonâ€“Nernstâ€“Planck Model for Ion Channels I: Basic Formulations and Algorithms. Bulletin of Mathematical Biology, 2017, 79, 2696-2726.	1.9	1
15	Quadrature Weights on Tensor-Product Nodes for Accurate Integration of Hypersingular Functions over Some Simple 3-D Geometric Shapes. Communications in Computational Physics, 2016, 20, 1283-1312.	1.7	1