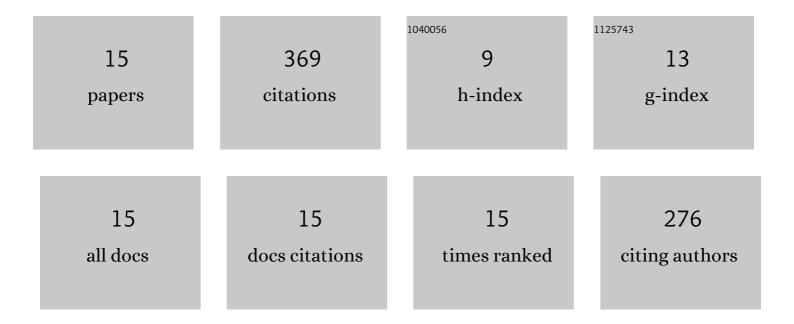
Duan Chen

List of Publications by Year in descending order

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DUAN CHEN

#	Article	IF	CITATIONS
1	Geometric structure guided model and algorithms for complete deconvolution of gene expression data. , 2022, 4, 441.		2
2	Fractional Poisson–Nernst–Planck Model for Ion Channels I: Basic Formulations and Algorithms. Bulletin of Mathematical Biology, 2017, 79, 2696-2726.	1.9	1
3	A Review of Mathematical Modeling, Simulation and Analysis of Membrane Channel Charge Transport â~†. , 2017, , .		3
4	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
5	A New Poisson–Nernst–Planck Model with Ion–Water Interactions for Charge Transport in Ion Channels. Bulletin of Mathematical Biology, 2016, 78, 1703-1726.	1.9	11
6	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
7	Involvement of Tumor Macrophage HIFs in Chemotherapy Effectiveness: Mathematical Modeling of Oxygen, pH, and Glutathione. PLoS ONE, 2014, 9, e107511.	2.5	24
8	Modeling and computation of heterogeneous implicit solvent and its applications for biomolecules. Computational and Mathematical Biophysics, 2014, 2, 107-127.	1.1	2
9	Quantum Dynamics in Continuum for Proton Transport I: Basic Formulation. Communications in Computational Physics, 2013, 13, 285-324.	1.7	13
10	Quantum dynamics in continuum for proton transport—Generalized correlation. Journal of Chemical Physics, 2012, 136, 134109.	3.0	20
11	Quantum dynamics in continuum for proton transport II: Variational solvent–solute interface. International Journal for Numerical Methods in Biomedical Engineering, 2012, 28, 25-51.	2.1	21
12	MIBPB: A software package for electrostatic analysis. Journal of Computational Chemistry, 2011, 32, 756-770.	3.3	127
13	Second-order Poisson–Nernst–Planck solver for ion transport. Journal of Computational Physics, 2011, 230, 5239-5262.	3.8	93
14	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
15	Computational methods for optical molecular imaging. Communications in Numerical Methods in Engineering, 2009, 25, 1137-1161.	1.3	9