# Duan Chen

## List of Publications by Year
in descending order

| | | | |
|---|---|---|---|
| 15 papers | 369 citations | 1040056<br>9 h-index | 1125743<br>13 g-index |
| 15 all docs | 15 docs citations | 15 times ranked | 276 citing authors |

| # | 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 ☜†. , 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 |