Feng Wang

List of Publications by Year in descending order

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218677 149698 3,241 78 26 56 h-index citations g-index papers 80 80 80 4883 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Doxorubicin-Tethered Responsive Gold Nanoparticles Facilitate Intracellular Drug Delivery for Overcoming Multidrug Resistance in Cancer Cells. ACS Nano, 2011, 5, 3679-3692.	14.6	722
2	THEORY OFDIPOLE-BOUNDANIONS. Annual Review of Physical Chemistry, 2003, 54, 367-396.	10.8	273
3	An Improved Multistate Empirical Valence Bond Model for Aqueous Proton Solvation and Transport. Journal of Physical Chemistry B, 2008, 112, 467-482.	2.6	228
4	Gold Nanoparticle Coated Carbon Nanotube Ring with Enhanced Raman Scattering and Photothermal Conversion Property for Theranostic Applications. Journal of the American Chemical Society, 2016, 138, 7005-7015.	13.7	208
5	Self-Assembled Responsive Bilayered Vesicles with Adjustable Oxidative Stress for Enhanced Cancer Imaging and Therapy. Journal of the American Chemical Society, 2019, 141, 8158-8170.	13.7	132
6	Excess Proton Solvation and Delocalization in a Hydrophilic Pocket of the Proton Conducting Polymer Membrane Nafion. Journal of Physical Chemistry B, 2005, 109, 3727-3730.	2.6	122
7	Developing <i>ab initio</i> quality force fields from condensed phase quantum-mechanics/molecular-mechanics calculations through the adaptive force matching method. Journal of Chemical Physics, 2008, 129, 064108.	3.0	106
8	Self-Assembly of Semiconducting-Plasmonic Gold Nanoparticles with Enhanced Optical Property for Photoacoustic Imaging and Photothermal Therapy. Theranostics, 2017, 7, 2177-2185.	10.0	79
9	A linear-scaling self-consistent generalization of the multistate empirical valence bond method for multiple excess protons in aqueous systems. Journal of Chemical Physics, 2005, 122, 144105.	3.0	78
10	Liquid–liquid transition in supercooled water suggested by microsecond simulations. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 12209-12212.	7.1	71
11	Raman spectroscopy of carbon nanohoops. Carbon, 2014, 67, 203-213.	10.3	70
12	Application of a Drude model to the binding of excess electrons to water clusters. Journal of Chemical Physics, 2002, 116, 6973-6981.	3.0	67
13	A Drude-model approach to dispersion interactions in dipole-bound anions. Journal of Chemical Physics, 2001, 114, 10717-10724.	3.0	63
14	The quest for the best nonpolarizable water model from the adaptive force matching method. Journal of Computational Chemistry, 2011, 32, 453-462.	3.3	53
15	A simple molecular mechanics potential for \hat{l} /4m scale graphene simulations from the adaptive force matching method. Journal of Chemical Physics, 2011, 134, 184704.	3.0	51
16	Approaching post-Hartreeâ€"Fock quality potential energy surfaces with simple pair-wise expressions: parameterising point-charge-based force fields for liquid water using the adaptive force matching method. Molecular Simulation, 2011, 37, 591-605.	2.0	41
17	Unusual "Amphiphilic―Association of Hydrated Protons in Strong Acid Solution. Journal of the American Chemical Society, 2008, 130, 3120-3126.	13.7	39
18	Stable Saltâ€"Water Cluster Structures Reflect the Delicate Competition between Ionâ€"Water and Waterâ€"Water Interactions. Journal of Physical Chemistry B, 2014, 118, 743-751.	2.6	39

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19	Pairwise-additive force fields for selected aqueous monovalent ions from adaptive force matching. Journal of Chemical Physics, 2015, 143, 194505.	3.0	38
20	Rapid determination of plasmonic nanoparticle agglomeration status in blood. Biomaterials, 2015, 51, 226-237.	11.4	37
21	Parallel-tempering Monte Carlo simulations of the finite temperature behavior of (H2O)6â [^] . Journal of Chemical Physics, 2003, 119, 11645-11653.	3.0	36
22	Synthesis of Copperâ€"Silica Coreâ€"Shell Nanostructures with Sharp and Stable Localized Surface Plasmon Resonance. Journal of Physical Chemistry C, 2017, 121, 5684-5692.	3.1	35
23	Theoretical Analysis of [5.7] < sub > <i>n < /i> Cyclacenes: Closed-Shell Cyclacene Isomers. Organic Letters, 2011, 13, 6220-6223.</i>	4.6	33
24	Water graphene contact surface investigated by pairwise potentials from force-matching PAW-PBE with dispersion correction. Journal of Chemical Physics, 2017, 146, 054702.	3.0	28
25	Accurate Prediction of the Hydration Free Energies of 20 Salts through Adaptive Force Matching and the Proper Comparison with Experimental References. Journal of Physical Chemistry B, 2017, 121, 6637-6645.	2.6	28
26	Predicting the melting temperature of ice-lh with only electronic structure information as input. Journal of Chemical Physics, 2012, 137, 014510.	3.0	27
27	Efficient Sampling of Ice Structures by Electrostatic Switching. Journal of Physical Chemistry B, 2008, 112, 6436-6441.	2.6	26
28	Improving the Point-Charge Description of Hydrogen Bonds by Adaptive Force Matching. Journal of Physical Chemistry B, 2009, 113, 1237-1240.	2.6	25
29	Achieving fast convergence of ab initio free energy perturbation calculations with the adaptive force-matching method. Theoretical Chemistry Accounts, 2012, 131, 1.	1.4	25
30	Theoretical Calculations of Voltage-Dependent STM Images of Acetylene on the Si(001) Surface. Journal of Physical Chemistry B, 2002, 106, 1316-1321.	2.6	24
31	Correcting for dispersion interaction and beyond in density functional theory through force matching. Journal of Chemical Physics, 2010, 133, 174115.	3.0	24
32	Mask-Assisted Seeded Growth of Segmented Metallic Heteronanostructures. Journal of Physical Chemistry C, 2014, 118, 28134-28142.	3.1	23
33	Understanding the Rotational Mechanism of a Single Molecule: STM and DFT Investigations of Dimethyl Sulfide Molecular Rotors on Au(111). Journal of Physical Chemistry C, 2010, 114, 3152-3155.	3.1	22
34	Static dielectric constants and molecular dipole distributions of liquid water and ice-lh investigated by the PAW-PBE exchange-correlation functional. Journal of Chemical Physics, 2012, 137, 034510.	3.0	22
35	Effects of the dispersion interaction in liquid water. Chemical Physics Letters, 2011, 513, 59-62.	2.6	20
36	Raman-Active Modes of Even-Numbered Cycloparaphenylenes: Comparisons between Experiments and Density Functional Theory (DFT) Calculations with Group Theory Arguments. Journal of Physical Chemistry C, 2015, 119, 2879-2887.	3.1	19

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37	The liquid-vapor equilibria of TIP4P/2005 and BLYPSP-4F water models determined through direct simulations of the liquid-vapor interface. Journal of Chemical Physics, 2015, 142, 214507.	3.0	18
38	Nitrous Oxide Vibrational Energy Relaxation Is a Probe of Interfacial Water in Lipid Bilayers. Journal of Physical Chemistry B, 2008, 112, 12776-12782.	2.6	17
39	Computational investigation of lipid hydration water ofLα1-palmitoyl-2-oleoyl-sn-glycero-3-phosphocholine at three hydration levels. Molecular Physics, 2010, 108, 2027-2036.	1.7	17
40	The extraordinary stability imparted to silver monolayers by chloride. Electrochimica Acta, 2011, 56, 1652-1661.	5. 2	17
41	Studies of iron(ii) and iron(iii) complexes with fac-N2O, cis-N2O2 and N2O3 donor ligands: models for the 2-His 1-carboxylate motif of non-heme iron monooxygenases. Dalton Transactions, 2012, 41, 5662.	3.3	16
42	Possible Evidence for a New Form of Liquid Buried in the Surface Tension of Supercooled Water. Scientific Reports, 2016, 6, 33284.	3.3	13
43	Electron Attachment to (H2O)2ArnClustersâ€. Journal of Physical Chemistry A, 2004, 108, 2912-2921.	2.5	11
44	Relative stability of armchair, zigzag and reczag graphene edges on the Ru(0001) surface. Surface Science, 2012, 606, 485-489.	1.9	10
45	A molecular dynamics investigation of the surface tension of water nanodroplets and a new technique for local pressure determination through density correlation. Journal of Chemical Physics, 2018, 148, 144503.	3.0	10
46	On the Transferability of Three Water Models Developed by Adaptive Force Matching. Annual Reports in Computational Chemistry, 2014, 10, 25-43.	1.7	9
47	Graphene: A partially ordered non-periodic solid. Journal of Chemical Physics, 2014, 141, 144701.	3.0	9
48	Altering the Solubility of the Antibiotic Candidate Nisin—A Computational Study. ACS Omega, 2020, 5, 24854-24863.	3 . 5	9
49	Performing Molecular Dynamics Simulations and Computing Hydration Free Energies on the B3LYP-D3(BJ) Potential Energy Surface with Adaptive Force Matching: A Benchmark Study with Seven Alcohols and One Amine. ACS Physical Chemistry Au, 2021, 1, 14-24.	4.0	9
50	Calculation of the photodetachment cross sections of the HCNâ [°] and HNCâ [°] dipole-bound anions as described by a one-electron Drude model. Journal of Chemical Physics, 2004, 121, 1824-1829.	3.0	8
51	Optimizing the switching function for nonequilibrium free-energy calculations: An on-the-fly approach. Journal of Chemical Physics, 2009, 130, 174705.	3.0	8
52	Accurate ranking of CH4 \hat{A} ·(H2O)20 clusters with the density functional theory supplemental potential approach. Theoretical Chemistry Accounts, 2013, 132, 1.	1.4	8
53	Continuous and Discontinuous Dynamic Crossover in Supercooled Water in Computer Simulations. Journal of Physical Chemistry Letters, 2015, 6, 3170-3174.	4.6	8
54	Molecular-scale processes affecting growth rates of ice at moderate supercooling. Frontiers of Physics, 2018, 13, 1.	5.0	8

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55	Mimicking coarse-grained simulations without coarse-graining: Enhanced sampling by damping short-range interactions. Journal of Chemical Physics, 2010, 133, 084101.	3.0	7
56	Picomolar inhibition of \hat{l}^2 -galactosidase (bovine liver) attributed to loop closure. Bioorganic and Medicinal Chemistry, 2017, 25, 5194-5202.	3.0	7
57	Study of Thermal Expansion Coefficient of Graphene via Raman Microâ€Spectroscopy: Revisited. Small, 2021, 17, e2006146.	10.0	7
58	Kinetic Monte Carlo modeling of chemical reactions coupled with heat transfer. Journal of Chemical Physics, 2008, 128, 124706.	3.0	6
59	Surface Penetration without Enrichment: Simulations Show Ion Surface Propensities Consistent with Both Elevated Surface Tension and Surface Sensitive Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 7197-7203.	2.6	6
60	Development and Validation of a DFT-Based Force Field for a Hydrated Homoalanine Polypeptide. Journal of Physical Chemistry B, 2021, 125, 1568-1581.	2.6	6
61	A comparison of three DFT exchange–correlation functionals and two basis sets for the prediction of the conformation distribution of hydrated polyglycine. Journal of Chemical Physics, 2021, 155, 094104.	3.0	6
62	The effects of replacing the water model while decoupling water-water and water-solute interactions on computed properties of simple salts. Journal of Chemical Physics, 2016, 145, 044501.	3.0	5
63	Performing the Millikan experiment at the molecular scale: Determination of atomic Millikan-Thomson charges by computationally measuring atomic forces. Journal of Chemical Physics, 2017, 147, 161726.	3.0	5
64	Real-Time Imaging of Laser-Induced Nanowelding of Silver Nanoparticles in Solution. Journal of Physical Chemistry C, 2021, 125, 10422-10430.	3.1	5
65	Accurate MP2-based force fields predict hydration free energies for simple alkanes and alcohols in good agreement with experiments. Journal of Chemical Physics, 2020, 153, 244505.	3.0	5
66	The Effect of Core Correlation on the MP2 Hydration Free Energies of Li+, Na+, and K+. Journal of Physical Chemistry B, 2016, 120, 9088-9096.	2.6	4
67	Evaluating hydrophobic galactonoamidines as transition state analogs for enzymatic \hat{l}^2 -galactoside hydrolysis. Bioorganic Chemistry, 2018, 77, 144-151.	4.1	4
68	The strengths and limitations of effective centroid force models explored by studying isotopic effects in liquid water. Journal of Chemical Physics, 2018, 148, 184102.	3.0	4
69	Leveraging local MP2 to reduce basis set superposition errors: An efficient first-principles based force-field for carbon dioxide. Journal of Chemical Physics, 2019, 151, 184501.	3.0	4
70	The potential of mean force of nitrous oxide in a 1,2-dimyristoylphosphatidylcholine lipid bilayer. Chemical Physics Letters, 2010, 489, 96-98.	2.6	3
71	The effect of varying carboxylate ligation on the electronic environment of N2Ox(x = 1–3) nonheme iron: A DFT analysis. Dalton Transactions, 2012, 41, 474-483.	3.3	3
72	From a Liquid to a Crystal without Going through a First-Order Phase Transition: Determining the Free Energy of Melting with Glassy Intermediates. Journal of Physical Chemistry B, 2019, 123, 7740-7747.	2.6	3

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73	A Metal-on-Metal Growth Approach to Metal–Metal Oxide Core–Shell Nanostructures with Plasmonic Properties. Journal of Physical Chemistry C, 2020, 124, 17191-17203.	3.1	3
74	Comparing Alchemical Free Energy Estimates to Experimental Values Based on the Ben-Naim Formula: How Much Agreement Can We Expect?. Journal of Physical Chemistry B, 2020, 124, 840-847.	2.6	2
75	Determining the hydration free energies of selected small molecules with MP2 and local MP2 through adaptive force matching. Journal of Chemical Physics, 2021, 154, 104113.	3.0	2
76	Fragmentation Method for Computing Quantum Mechanics and Molecular Mechanics Gradients for Force Matching: Validation with Hydration Free Energy Predictions Using Adaptive Force Matching. Journal of Physical Chemistry A, 2022, 126, 2609-2617.	2.5	2
77	Effects Of Hydration On The Dynamics Of Water In Lipid Bilayer Systems: A Molecular Dynamics Study. Biophysical Journal, 2009, 96, 152a.	0.5	0
78	On approximating a weak Markovian process as Markovian: Are we justified when discarding longtime correlations. Journal of Chemical Physics, 2019, 150, 085101.	3.0	0