Matthew J Mcgrath

List of Publications by Year
in descending order

28 papers	3,068 citations	346980 22 h-index	591227 27 g-index
30 all docs	30 docs citations	30 times ranked	5339 citing authors

#	Article	IF	Citations
1	The consolidated European synthesis of CO₂ emissions and removals for the European Union and United Kingdom: 1990â€“2018. Earth System Science Data, 2021, 13, 2363-2406.	3.7	23
2	Trade-offs in using European forests to meet climate objectives. Nature, 2018, 562, 259-262.	13.7	149
3	Representing anthropogenic gross land use change, wood harvest, and forest age dynamics in a global vegetation model ORCHIDEE-MICT v8.4.2. Geoscientific Model Development, 2018, 11, 409-428.	1.3	30
4	Simulating damage for wind storms in the land surface model ORCHIDEE-CAN (revision 4262). Geoscientific Model Development, 2018, 11, 771-791.	1.3	24
5	Evaluating the performance of land surface model ORCHIDEE-CANÂv1.0 on water and energy flux estimation with a single- and multi-layer energy budget scheme. Geoscientific Model Development, 2016, 9, 2951-2972.	1.3	43
6	Europeâ€™s forest management did not mitigate climate warming. Science, 2016, 351, 597-600.	6.0	290
7	Land management and land-cover change haveÂimpacts of similar magnitude on surfaceÂtemperature. Nature Climate Change, 2014, 4, 389-393.	8.1	404
8	Calculation of the Gibbs free energy of solvation and dissociation of HCl in water via Monte Carlo simulations and continuum solvation models. Physical Chemistry Chemical Physics, 2013, 15, 13578.	1.3	39
9	Molecular understanding of sulphuric acidâ€“amine particle nucleation in the atmosphere. Nature, 2013, 502, 359-363.	13.7	774
10	Adenosine Triphosphate Hydrolysis Mechanism in Kinesin Studied by Combined Quantum-Mechanical/Molecular-Mechanical Metadynamics Simulations. Journal of the American Chemical Society, 2013, 135, 8908-8919.	6.6	56
11	Rethinking the application of the first nucleation theorem to particle formation. Journal of Chemical Physics, 2012, 136, 094107.	1.2	35
12	Structural Rearrangements and Magic Numbers in Reactions between Pyridine-Containing Water Clusters and Ammonia. Journal of Physical Chemistry A, 2012, 116, 4902-4908.	1.1	25
13	Liquid structures of water, methanol, and hydrogen fluoride at ambient conditions from first principles molecular dynamics simulations with a dispersion corrected density functional. Physical Chemistry Chemical Physics, 2011, 13, 19943.	1.3	63
14	Vaporâ€“Liquid Coexistence Curves for Methanol and Methane Using Dispersion-Corrected Density Functional Theory. Journal of Physical Chemistry B, 2011, 115, 11688-11692.	1.2	38
15	Re-examining the properties of the aqueous vaporâ€“liquid interface using dispersion corrected density functional theory. Journal of Chemical Physics, 2011, 135, 124712.	1.2	82
16	First principles Monte Carlo simulations of aggregation in the vapor phase of hydrogen fluoride. Physical Chemistry Chemical Physics, 2010, 12, 7678.	1.3	18
17	Vapor-liquid nucleation of argon: Exploration of various intermolecular potentials. Journal of Chemical Physics, 2010, 133, 084106.	1.2	20
18	Vaporâ€“liquid phase equilibria of water modelled by a Kimâ€“Gordon potential. Chemical Physics Letters, 2009, 479, 60-64.	1.2	2

#	Article	IF	Citations
19	Structure of the Methanol Liquidâ^'Vapor Interface: A Comprehensive Particle-Based Simulation Study. Journal of Physical Chemistry C, 2008, 112, 15412-15418.	1.5	23
20	Excited State Hydrogen Bond Dynamics:â€‰ Coumarin 102 in Acetonitrileâ^'Water Binary Mixtures. Journal of Physical Chemistry A, 2008, 112, 2511-2514.	1.1	48
21	Time-Dependent Properties of Liquid Water:â€‰ A Comparison of Carâ^'Parrinello and Bornâ^'Oppenheimer Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2006, 2, 1274-1281.	2.3	77
22	Simulating Fluid-Phase Equilibria of Water from First Principlesâ€. Journal of Physical Chemistry A, 2006, 110, 640-646.	1.1	128
23	Structure and Dynamics of the Aqueous Liquidâ^'Vapor Interface:Â A Comprehensive Particle-Based Simulation StudyâŠ¥. Journal of Physical Chemistry B, 2006, 110, 3738-3746.	1.2	115
24	Isobaric-Isothermal Monte Carlo Simulations from First Principles: Application to Liquid Water at Ambient Conditions. ChemPhysChem, 2005, 6, 1894-1901.	1.0	99
25	Toward a Monte Carlo program for simulating vaporâ€“liquid phase equilibria from first principles. Computer Physics Communications, 2005, 169, 289-294.	3.0	29
26	The Structure and Stability of Biological Metaphosphate, Phosphate, and Phosphorane Compounds in the Gas Phase and in Solution. Journal of the American Chemical Society, 2004, 126, 1654-1665.	6.6	94
27	Liquid Water from First Principles:Â Investigation of Different Sampling Approaches. Journal of Physical Chemistry B, 2004, 108, 12990-12998.	1.2	327
28	Large-Scale Monte Carlo Simulations for Aggregation, Self-Assembly, and Phase Equilibria. , 0, , 189-199.		0