

# Matthew J Mcgrath

## List of Publications by Year in descending order

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28  
papers

3,068  
citations

304743  
22  
h-index

526287  
27  
g-index

30  
all docs

30  
docs citations

30  
times ranked

4690  
citing authors

#	ARTICLE	IF	CITATIONS
1	The consolidated European synthesis of CO <sub>2</sub> emissions and removals for the European Union and United Kingdom: 1990–2018. <i>Earth System Science Data</i> , 2021, 13, 2363-2406.	9.9	23
2	Trade-offs in using European forests to meet climate objectives. <i>Nature</i> , 2018, 562, 259-262.	27.8	149
3	Representing anthropogenic gross land use change, wood harvest, and forest age dynamics in a global vegetation model ORCHIDEE-MICT v8.4.2. <i>Geoscientific Model Development</i> , 2018, 11, 409-428.	3.6	30
4	Simulating damage for wind storms in the land surface model ORCHIDEE-CAN (revision 4262). <i>Geoscientific Model Development</i> , 2018, 11, 771-791.	3.6	24
5	Evaluating the performance of land surface model ORCHIDEE-CAN v1.0 on water and energy flux estimation with a single- and multi-layer energy budget scheme. <i>Geoscientific Model Development</i> , 2016, 9, 2951-2972.	3.6	43
6	Europe's forest management did not mitigate climate warming. <i>Science</i> , 2016, 351, 597-600.	12.6	290
7	Land management and land-cover change have impacts of similar magnitude on surface temperature. <i>Nature Climate Change</i> , 2014, 4, 389-393.	18.8	404
8	Calculation of the Gibbs free energy of solvation and dissociation of HCl in water via Monte Carlo simulations and continuum solvation models. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 13578.	2.8	39
9	Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. <i>Nature</i> , 2013, 502, 359-363.	27.8	774
10	Adenosine Triphosphate Hydrolysis Mechanism in Kinesin Studied by Combined Quantum-Mechanical/Molecular-Mechanical Metadynamics Simulations. <i>Journal of the American Chemical Society</i> , 2013, 135, 8908-8919.	13.7	56
11	Rethinking the application of the first nucleation theorem to particle formation. <i>Journal of Chemical Physics</i> , 2012, 136, 094107.	3.0	35
12	Structural Rearrangements and Magic Numbers in Reactions between Pyridine-Containing Water Clusters and Ammonia. <i>Journal of Physical Chemistry A</i> , 2012, 116, 4902-4908.	2.5	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. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 19943.	2.8	63
14	Vapor–Liquid Coexistence Curves for Methanol and Methane Using Dispersion-Corrected Density Functional Theory. <i>Journal of Physical Chemistry B</i> , 2011, 115, 11688-11692.	2.6	38
15	Re-examining the properties of the aqueous vapor–liquid interface using dispersion corrected density functional theory. <i>Journal of Chemical Physics</i> , 2011, 135, 124712.	3.0	82
16	First principles Monte Carlo simulations of aggregation in the vapor phase of hydrogen fluoride. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 7678.	2.8	18
17	Vapor-liquid nucleation of argon: Exploration of various intermolecular potentials. <i>Journal of Chemical Physics</i> , 2010, 133, 084106.	3.0	20
18	Vapor–liquid phase equilibria of water modelled by a Kim–Gordon potential. <i>Chemical Physics Letters</i> , 2009, 479, 60-64.	2.6	2

#	ARTICLE	IF	CITATIONS
19	Structure of the Methanol Liquid-Vapor Interface: A Comprehensive Particle-Based Simulation Study. Journal of Physical Chemistry C, 2008, 112, 15412-15418.	3.1	23
20	Excited State Hydrogen Bond Dynamics: Coumarin 102 in Acetonitrile-Water Binary Mixtures. Journal of Physical Chemistry A, 2008, 112, 2511-2514.	2.5	48
21	Time-Dependent Properties of Liquid Water: A Comparison of Car-Parrinello and Born-Oppenheimer Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2006, 2, 1274-1281.	5.3	77
22	Simulating Fluid-Phase Equilibria of Water from First Principles. Journal of Physical Chemistry A, 2006, 110, 640-646.	2.5	128
23	Structure and Dynamics of the Aqueous Liquid-Vapor Interface: A Comprehensive Particle-Based Simulation Study. Journal of Physical Chemistry B, 2006, 110, 3738-3746.	2.6	115
24	Isobaric-Isothermal Monte Carlo Simulations from First Principles: Application to Liquid Water at Ambient Conditions. ChemPhysChem, 2005, 6, 1894-1901.	2.1	99
25	Toward a Monte Carlo program for simulating vapor-liquid phase equilibria from first principles. Computer Physics Communications, 2005, 169, 289-294.	7.5	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.	13.7	94
27	Liquid Water from First Principles: Investigation of Different Sampling Approaches. Journal of Physical Chemistry B, 2004, 108, 12990-12998.	2.6	327
28	Large-Scale Monte Carlo Simulations for Aggregation, Self-Assembly, and Phase Equilibria. , 0, , 189-199.		0