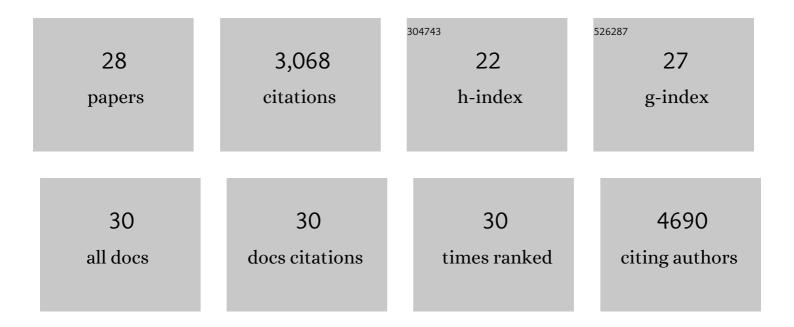
## Matthew J Mcgrath

List of Publications by Year in descending order

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| #  | Article  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Molecular understanding of sulphuric acid–amine particle nucleation in the atmosphere. Nature, 2013, 502, 359-363.   | 27.8 | 774       |
| 2  | Land management and land-cover change haveÂimpacts of similar magnitude on surfaceÂtemperature.<br>Nature Climate Change, 2014, 4, 389-393.  | 18.8 | 404       |
| 3  | Liquid Water from First Principles:Â Investigation of Different Sampling Approaches. Journal of<br>Physical Chemistry B, 2004, 108, 12990-12998.   | 2.6  | 327       |
| 4  | Europe's forest management did not mitigate climate warming. Science, 2016, 351, 597-600.  | 12.6 | 290       |
| 5  | Trade-offs in using European forests to meet climate objectives. Nature, 2018, 562, 259-262.   | 27.8 | 149       |
| 6  | Simulating Fluid-Phase Equilibria of Water from First Principlesâ€. Journal of Physical Chemistry A,<br>2006, 110, 640-646.  | 2.5  | 128       |
| 7  | Structure and Dynamics of the Aqueous Liquidâ^'Vapor Interface:Â A Comprehensive Particle-Based<br>Simulation Study⊥. Journal of Physical Chemistry B, 2006, 110, 3738-3746.   | 2.6  | 115       |
| 8  | Isobaric-Isothermal Monte Carlo Simulations from First Principles: Application to Liquid Water at<br>Ambient Conditions. ChemPhysChem, 2005, 6, 1894-1901.   | 2.1  | 99        |
| 9  | 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        |
| 10 | Re-examining the properties of the aqueous vapor–liquid interface using dispersion corrected density functional theory. Journal of Chemical Physics, 2011, 135, 124712.  | 3.0  | 82        |
| 11 | Time-Dependent Properties of Liquid Water:  A Comparison of Carâ^'Parrinello and Bornâ^'Oppenheimer<br>Molecular Dynamics Simulations. Journal of Chemical Theory and Computation, 2006, 2, 1274-1281.   | 5.3  | 77        |
| 12 | Liquid structures of water, methanol, and hydrogen fluoride at ambient conditions from first<br>principles molecular dynamics simulations with a dispersion corrected density functional. Physical<br>Chemistry Chemical Physics, 2011, 13, 19943. | 2.8  | 63        |
| 13 | Adenosine Triphosphate Hydrolysis Mechanism in Kinesin Studied by Combined<br>Quantum-Mechanical/Molecular-Mechanical Metadynamics Simulations. Journal of the American<br>Chemical Society, 2013, 135, 8908-8919.                                 | 13.7 | 56        |
| 14 | Excited State Hydrogen Bond Dynamics:  Coumarin 102 in Acetonitrileâ^'Water Binary Mixtures. Journal<br>of Physical Chemistry A, 2008, 112, 2511-2514.   | 2.5  | 48        |
| 15 | 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.                                   | 3.6  | 43        |
| 16 | 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.   | 2.8  | 39        |
| 17 | Vapor–Liquid Coexistence Curves for Methanol and Methane Using Dispersion-Corrected Density<br>Functional Theory. Journal of Physical Chemistry B, 2011, 115, 11688-11692.   | 2.6  | 38        |
| 18 | Rethinking the application of the first nucleation theorem to particle formation. Journal of Chemical Physics, 2012, 136, 094107.  | 3.0  | 35        |

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|----|--|-----|-----------|
| 19 | 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. | 3.6 | 30        |
| 20 | Toward a Monte Carlo program for simulating vapor–liquid phase equilibria from first principles.<br>Computer Physics Communications, 2005, 169, 289-294.                                       | 7.5 | 29        |
| 21 | Structural Rearrangements and Magic Numbers in Reactions between Pyridine-Containing Water<br>Clusters and Ammonia. Journal of Physical Chemistry A, 2012, 116, 4902-4908.                     | 2.5 | 25        |
| 22 | Simulating damage for wind storms in the land surface model ORCHIDEE-CAN (revision 4262).<br>Geoscientific Model Development, 2018, 11, 771-791.   | 3.6 | 24        |
| 23 | Structure of the Methanol Liquidâ^'Vapor Interface: A Comprehensive Particle-Based Simulation Study.<br>Journal of Physical Chemistry C, 2008, 112, 15412-15418.                               | 3.1 | 23        |
| 24 | The consolidated European synthesis of CO <sub>2</sub> emissions and removals for the European<br>Union and United Kingdom: 1990–2018. Earth System Science Data, 2021, 13, 2363-2406.         | 9.9 | 23        |
| 25 | Vapor-liquid nucleation of argon: Exploration of various intermolecular potentials. Journal of Chemical Physics, 2010, 133, 084106.  | 3.0 | 20        |
| 26 | First principles Monte Carlo simulations of aggregation in the vapor phase of hydrogen fluoride.<br>Physical Chemistry Chemical Physics, 2010, 12, 7678.                                       | 2.8 | 18        |
| 27 | Vapor–liquid phase equilibria of water modelled by a Kim–Gordon potential. Chemical Physics Letters,<br>2009, 479, 60-64.  | 2.6 | 2         |
| 28 | Large-Scale Monte Carlo Simulations for Aggregation, Self-Assembly, and Phase Equilibria. , 0, , 189-199.  |     | 0         |