Luigi De Marco

List of Publications by Year
in descending order

17 papers	1,596 citations	516710 16 h-index	888059 17 g-index
17 all docs	17 docs citations	17 times ranked	1964 citing authors

#	Article	IF	Citations
1	Vibrational Spectroscopy and Dynamics of Water. Chemical Reviews, 2016, 116, 7590-7607.	47.7	300
2	Ultrafast 2D IR spectroscopy of the excess proton in liquid water. Science, 2015, 350, 78-82.	12.6	264
3	Water vibrations have strongly mixed intra- and intermolecular character. Nature Chemistry, 2013, 5, 935-940.	13.6	236
4	A degenerate Fermi gas of polar molecules. Science, 2019, 363, 853-856.	12.6	198
5	Differences in the Vibrational Dynamics of H₂O and D₂O: Observation of Symmetric and Antisymmetric Stretching Vibrations in Heavy Water. Journal of Physical Chemistry Letters, 2016, 7, 1769-1774.	4.6	68
6	Interplay of Ionâ€“Water and Waterâ€“Water Interactions within the Hydration Shells of Nitrate and Carbonate Directly Probed with 2D IR Spectroscopy. Journal of the American Chemical Society, 2016, 138, 9634-9645.	13.7	67
7	Experimental Evidence of Fermi Resonances in Isotopically Dilute Water from Ultrafast Broadband IR Spectroscopy. Journal of Physical Chemistry B, 2013, 117, 15319-15327.	2.6	66
8	Resonant collisional shielding of reactive molecules using electric fields. Science, 2020, 370, 1324-1327.	12.6	64
9	Dipolar evaporation of reactive molecules to below the Fermi temperature. Nature, 2020, 588, 239-243.	27.8	62
10	Collective vibrations of water-solvated hydroxide ions investigated with broadband 2DIR spectroscopy. Journal of Chemical Physics, 2014, 140, 204508.	3.0	53
11	Tuning of dipolar interactions and evaporative cooling in a three-dimensional molecular quantum gas. Nature Physics, 2021, 17, 1144-1148.	16.7	52
12	Anharmonic exciton dynamics and energy dissipation in liquid water from two-dimensional infrared spectroscopy. Journal of Chemical Physics, 2016, 145, 094501.	3.0	51
13	Direct observation of intermolecular interactions mediated by hydrogen bonding. Journal of Chemical Physics, 2014, 141, 034502.	3.0	50
14	Thermalization and Sub-Poissonian Density Fluctuations in a Degenerate Molecular Fermi Gas. Physical Review Letters, 2020, 124, 033401.	7.8	21
15	Dynamical Generation of Spin Squeezing in Ultracold Dipolar Molecules. Physical Review Letters, 2021, 126, 113401.	7.8	19
16	An approach to spin-resolved molecular gas microscopy. New Journal of Physics, 2018, 20, 043031.	2.9	18
17	Quantum many-body physics with ultracold polar molecules: Nanostructured potential barriers and interactions. Physical Review A, 2020, 102, .	2.5	7