Marcelo Lozada-Hidalgo

List of Publications by Year
in descending order

18 papers	2,824 citations	516710 16 h-index	794594 19 g-index
19 all docs	19 docs citations	19 times ranked	4464 citing authors

#	Article	IF	Citations
1	Ion exchange in atomically thin clays and micas. Nature Materials, 2021, 20, 1677-1682.	27.5	40
2	Exponentially selective molecular sieving through angstrom pores. Nature Communications, 2021, 12, 7170.	12.8	29
3	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. ACS Nano, 2020, 14, 7280-7286.	14.6	55
4	Limits on gas impermeability of graphene. Nature, 2020, 579, 229-232.	27.8	220
5	On the Chemistry and Diffusion of Hydrogen in the Interstitial Space of Layered Crystals hâ€BN, MoS₂, and Graphite. Small, 2019, 15, e1901722.	10.0	12
6	Atomically thin micas as proton-conducting membranes. Nature Nanotechnology, 2019, 14, 962-966.	31.5	45
7	Perfect proton selectivity in ion transport through two-dimensional crystals. Nature Communications, 2019, 10, 4243.	12.8	60
8	Complete steric exclusion of ions and proton transport through confined monolayer water. Science, 2019, 363, 145-148.	12.6	207
9	Giant photoeffect in proton transport through graphene membranes. Nature Nanotechnology, 2018, 13, 300-303.	31.5	59
10	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. Nature Nanotechnology, 2018, 13, 468-472.	31.5	45
11	Scalable and efficient separation of hydrogen isotopes using graphene-based electrochemical pumping. Nature Communications, 2017, 8, 15215.	12.8	119
12	2D Crystals Significantly Enhance the Performance of a Working Fuel Cell. Advanced Energy Materials, 2017, 7, 1601216.	19.5	53
13	Raman spectroscopy of highly pressurized graphene membranes. Applied Physics Letters, 2016, 108, .	3.3	39
14	Molecular transport through capillaries made with atomic-scale precision. Nature, 2016, 538, 222-225.	27.8	483
15	Sieving hydrogen isotopes through two-dimensional crystals. Science, 2016, 351, 68-70.	12.6	247
16	Proton transport through one-atom-thick crystals. Nature, 2014, 516, 227-230.	27.8	668
17	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. Nano Letters, 2014, 14, 3270-3276.	9.1	433
18	Vortices on demand in multicomponent Bose-Einstein condensates. Physical Review A, 2012, 86, .	2.5	8