

Marcelo Lozada-Hidalgo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8720655/publications.pdf>

Version: 2024-02-01

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	Proton transport through one-atom-thick crystals. <i>Nature</i> , 2014, 516, 227-230.	27.8	668
2	Molecular transport through capillaries made with atomic-scale precision. <i>Nature</i> , 2016, 538, 222-225.	27.8	483
3	Electronic Properties of Graphene Encapsulated with Different Two-Dimensional Atomic Crystals. <i>Nano Letters</i> , 2014, 14, 3270-3276.	9.1	433
4	Sieving hydrogen isotopes through two-dimensional crystals. <i>Science</i> , 2016, 351, 68-70.	12.6	247
5	Limits on gas impermeability of graphene. <i>Nature</i> , 2020, 579, 229-232.	27.8	220
6	Complete steric exclusion of ions and proton transport through confined monolayer water. <i>Science</i> , 2019, 363, 145-148.	12.6	207
7	Scalable and efficient separation of hydrogen isotopes using graphene-based electrochemical pumping. <i>Nature Communications</i> , 2017, 8, 15215.	12.8	119
8	Perfect proton selectivity in ion transport through two-dimensional crystals. <i>Nature Communications</i> , 2019, 10, 4243.	12.8	60
9	Giant photoeffect in proton transport through graphene membranes. <i>Nature Nanotechnology</i> , 2018, 13, 300-303.	31.5	59
10	Proton and Li-Ion Permeation through Graphene with Eight-Atom-Ring Defects. <i>ACS Nano</i> , 2020, 14, 7280-7286.	14.6	55
11	2D Crystals Significantly Enhance the Performance of a Working Fuel Cell. <i>Advanced Energy Materials</i> , 2017, 7, 1601216.	19.5	53
12	Transport of hydrogen isotopes through interlayer spacing in van der Waals crystals. <i>Nature Nanotechnology</i> , 2018, 13, 468-472.	31.5	45
13	Atomically thin micas as proton-conducting membranes. <i>Nature Nanotechnology</i> , 2019, 14, 962-966.	31.5	45
14	Ion exchange in atomically thin clays and micas. <i>Nature Materials</i> , 2021, 20, 1677-1682.	27.5	40
15	Raman spectroscopy of highly pressurized graphene membranes. <i>Applied Physics Letters</i> , 2016, 108, .	3.3	39
16	Exponentially selective molecular sieving through angstrom pores. <i>Nature Communications</i> , 2021, 12, 7170.	12.8	29
17	On the Chemistry and Diffusion of Hydrogen in the Interstitial Space of Layered Crystals hBN , MoS_2 , and Graphite. <i>Small</i> , 2019, 15, e1901722.	10.0	12
18	Vortices on demand in multicomponent Bose-Einstein condensates. <i>Physical Review A</i> , 2012, 86, .	2.5	8