

Jun Lu

List of Publications by Year in descending order

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12
papers

936
citations

840776

11
h-index

1199594

12
g-index

12
all docs

12
docs citations

12
times ranked

916
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast rectifying counter-directional transport of proton and metal ions in metal-organic framework-based nanochannels. <i>Science Advances</i> , 2022, 8, eabl5070.	10.3	48
2	Metal-Organic Frameworks as a Subnanometer Platform for Ion-Ion Selectivity. <i>Accounts of Materials Research</i> , 2022, 3, 735-747.	11.7	9
3	Ultrasensitive Monovalent Metal Ion Conduction in a Three-Dimensional Sub-1 nm Nanofluidic Device Constructed by Metal-Organic Frameworks. <i>ACS Nano</i> , 2021, 15, 1240-1249.	14.6	52
4	Emerging porous framework material-based nanofluidic membranes toward ultimate ion separation. <i>Matter</i> , 2021, 4, 2810-2830.	10.0	27
5	A thermally reduced graphene oxide membrane interlayered with an <i>in situ</i> synthesized nanopacer for water desalination. <i>Journal of Materials Chemistry A</i> , 2020, 8, 25951-25958.	10.3	17
6	Unidirectional and Selective Proton Transport in Artificial Heterostructured Nanochannels with Nano-Subnano Confined Water Clusters. <i>Advanced Materials</i> , 2020, 32, e2001777.	21.0	72
7	Ultrathin water-stable metal-organic framework membranes for ion separation. <i>Science Advances</i> , 2020, 6, eaay3998.	10.3	179
8	Synthesis of in-situ Al ³⁺ -defected iron oxide nanoflakes from coal ash: A detailed study on the structure, evolution mechanism and application to water remediation. <i>Journal of Hazardous Materials</i> , 2020, 395, 122696.	12.4	23
9	Efficient metal ion sieving in rectifying subnanochannels enabled by metal-organic frameworks. <i>Nature Materials</i> , 2020, 19, 767-774.	27.5	275
10	Fast and selective fluoride ion conduction in sub-1-nanometer metal-organic framework channels. <i>Nature Communications</i> , 2019, 10, 2490.	12.8	158
11	Pyrite-type ruthenium disulfide with tunable disorder and defects enables ultra-efficient overall water splitting. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14222-14232.	10.3	50
12	Bioinspired Self-Gating Nanofluidic Devices for Autonomous and Periodic Ion Transport and Cargo Release. <i>Advanced Functional Materials</i> , 2019, 29, 1806416.	14.9	26