

Pengcheng Yao

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

29
papers

6,206
citations

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h-index

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g-index

29
ext. papers

7,615
ext. citations

14.7
avg, IF

6.06
L-index

#	Paper	IF	Citations
29	3D self-assembly of aluminium nanoparticles for plasmon-enhanced solar desalination. <i>Nature Photonics</i> , 2016 , 10, 393-398	33.9	1238
28	Self-assembly of highly efficient, broadband plasmonic absorbers for solar steam generation. <i>Science Advances</i> , 2016 , 2, e1501227	14.3	742
27	Graphene oxide-based efficient and scalable solar desalination under one sun with a confined 2D water path. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13953-13958	11.5	724
26	Mushrooms as Efficient Solar Steam-Generation Devices. <i>Advanced Materials</i> , 2017 , 29, 1606762	24	654
25	Tailoring Graphene Oxide-Based Aerogels for Efficient Solar Steam Generation under One Sun. <i>Advanced Materials</i> , 2017 , 29, 1604031	24	537
24	Flexible and Salt Resistant Janus Absorbers by Electrospinning for Stable and Efficient Solar Desalination. <i>Advanced Energy Materials</i> , 2018 , 8, 1702884	21.8	423
23	Poly(dimethylsiloxane) Thin Film as a Stable Interfacial Layer for High-Performance Lithium-Metal Battery Anodes. <i>Advanced Materials</i> , 2017 , 29, 1603755	24	354
22	Enhancement of Interfacial Solar Vapor Generation by Environmental Energy. <i>Joule</i> , 2018 , 2, 1331-1338	27.8	301
21	A water lily-inspired hierarchical design for stable and efficient solar evaporation of high-salinity brine. <i>Science Advances</i> , 2019 , 5, eaaw7013	14.3	182
20	Interfacial Solar Steam Generation Enables Fast-Responsive, Energy-Efficient, and Low-Cost Off-Grid Sterilization. <i>Advanced Materials</i> , 2018 , 30, e1805159	24	146
19	PVDF/Palygorskite Nanowire Composite Electrolyte for 4 V Rechargeable Lithium Batteries with High Energy Density. <i>Nano Letters</i> , 2018 , 18, 6113-6120	11.5	138
18	Scalable Production of Si Nanoparticles Directly from Low Grade Sources for Lithium-Ion Battery Anode. <i>Nano Letters</i> , 2015 , 15, 5750-4	11.5	98
17	Precise Perforation and Scalable Production of Si Particles from Low-Grade Sources for High-Performance Lithium Ion Battery Anodes. <i>Nano Letters</i> , 2016 , 16, 7210-7215	11.5	89
16	Towards high energy density lithium battery anodes: silicon and lithium. <i>Chemical Science</i> , 2019 , 10, 7132-7148	27.4	14876
15	Graphene oxide based materials for desalination. <i>Carbon</i> , 2019 , 146, 320-328	10.4	68
14	Minimized lithium trapping by isovalent isomorphism for high initial Coulombic efficiency of silicon anodes. <i>Science Advances</i> , 2019 , 5, eaax0651	14.3	64
13	A Nano-shield Design for Separators to Resist Dendrite Formation in Lithium-Metal Batteries. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 6561-6566	16.4	63

12	Full Dissolution of the Whole Lithium Sulfide Family (Li ₂ S to Li ₂ S ₈) in a Safe Eutectic Solvent for Rechargeable Lithium-Sulfur Batteries. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 5557-5561	16.4	57
11	Simultaneous Purification and Perforation of Low-Grade Si Sources for Lithium-Ion Battery Anode. <i>Nano Letters</i> , 2015 , 15, 7742-7	11.5	55
10	Nanopurification of silicon from 84% to 99.999% purity with a simple and scalable process. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 13473-7	11.5	46
9	Omnidirectional and effective salt-rejecting absorber with rationally designed nanoarchitecture for efficient and durable solar vapour generation. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 22976-22986	13	35
8	Li-Containing, Continuous Silica Nanofibers for High Li Conductivity in Composite Polymer Electrolyte. <i>Small</i> , 2019 , 15, e1902729	11	29
7	Simultaneous Perforation and Doping of Si Nanoparticles for Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44452-44457	9.5	25
6	3D hollow reduced graphene oxide foam as a stable host for high-capacity lithium metal anodes. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 339-343	7.8	18
5	In operando plasmonic monitoring of electrochemical evolution of lithium metal. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 11168-11173	11.5	16
4	Interfacial Solar Vapor Generation: Materials and Structural Design. <i>Accounts of Materials Research</i> , 2021 , 2, 198-209	7.5	15
3	A Nano-shield Design for Separators to Resist Dendrite Formation in Lithium-Metal Batteries. <i>Angewandte Chemie</i> , 2020 , 132, 6623-6628	3.6	6
2	Full Dissolution of the Whole Lithium Sulfide Family (Li ₂ S ₈ to Li ₂ S) in a Safe Eutectic Solvent for Rechargeable Lithium-Sulfur Batteries. <i>Angewandte Chemie</i> , 2019 , 131, 5613-5617	3.6	4
1	Greener and higher conversion of esterification via interfacial photothermal catalysis. <i>Nature Sustainability</i> ,	22.1	3