

# Mauro Pasta

## 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.

63 papers	9,844 citations	32 h-index	99 g-index
112 ext. papers	11,070 ext. citations	13.3 avg, IF	6.27 L-index

#	Paper	IF	Citations
63	Synthesis of MoS <sub>2</sub> and MoSe <sub>2</sub> films with vertically aligned layers. <i>Nano Letters</i> , <b>2013</b> , 13, 1341-7	11.5	1746
62	Stretchable, porous, and conductive energy textiles. <i>Nano Letters</i> , <b>2010</b> , 10, 708-14	11.5	1280
61	A phosphorene-graphene hybrid material as a high-capacity anode for sodium-ion batteries. <i>Nature Nanotechnology</i> , <b>2015</b> , 10, 980-5	28.7	1114
60	Symmetrical MnO <sub>2</sub> -carbon nanotube-textile nanostructures for wearable pseudocapacitors with high mass loading. <i>ACS Nano</i> , <b>2011</b> , 5, 8904-13	16.7	540
59	A high-rate and long cycle life aqueous electrolyte battery for grid-scale energy storage. <i>Nature Communications</i> , <b>2012</b> , 3, 1149	17.4	424
58	Entrapment of Polysulfides by a Black-Phosphorus-Modified Separator for Lithium-Sulfur Batteries. <i>Advanced Materials</i> , <b>2016</b> , 28, 9797-9803	24	371
57	Full open-framework batteries for stationary energy storage. <i>Nature Communications</i> , <b>2014</b> , 5, 3007	17.4	367
56	Manganese hexacyanomanganate open framework as a high-capacity positive electrode material for sodium-ion batteries. <i>Nature Communications</i> , <b>2014</b> , 5, 5280	17.4	357
55	Three-dimensional carbon nanotube-textile anode for high-performance microbial fuel cells. <i>Nano Letters</i> , <b>2011</b> , 11, 291-6	11.5	350
54	A desalination battery. <i>Nano Letters</i> , <b>2012</b> , 12, 839-43	11.5	313
53	Batteries for efficient energy extraction from a water salinity difference. <i>Nano Letters</i> , <b>2011</b> , 11, 1810-3	11.5	264
52	Improving the cycling stability of silicon nanowire anodes with conducting polymer coatings. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 7927	35.4	239
51	Lithium-Ion Textile Batteries with Large Areal Mass Loading. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 1012-1017	17.8	205
50	Prussian Blue Analogs as Battery Materials. <i>Joule</i> , <b>2018</b> , 2, 1950-1960	27.8	197
49	Mechanism of glucose electrochemical oxidation on gold surface. <i>Electrochimica Acta</i> , <b>2010</b> , 55, 5561-5568	17.8	196
48	Tunable reaction potentials in open framework nanoparticle battery electrodes for grid-scale energy storage. <i>ACS Nano</i> , <b>2012</b> , 6, 1688-94	16.7	188
47	Aqueous supercapacitors on conductive cotton. <i>Nano Research</i> , <b>2010</b> , 3, 452-458	10	176

46	Reversible Multivalent (Monovalent, Divalent, Trivalent) Ion Insertion in Open Framework Materials. <i>Advanced Energy Materials</i> , <b>2015</b> , 5, 1401869	21.8	142
45	Batteries for lithium recovery from brines. <i>Energy and Environmental Science</i> , <b>2012</b> , 5, 9487	35.4	141
44	Carbothermic reduction synthesis of red phosphorus-filled 3D carbon material as a high-capacity anode for sodium ion batteries. <i>Energy Storage Materials</i> , <b>2016</b> , 4, 130-136	19.4	139
43	Manganese-cobalt hexacyanoferrate cathodes for sodium-ion batteries. <i>Journal of Materials Chemistry A</i> , <b>2016</b> , 4, 4211-4223	13	117
42	Edge-Enriched 2D MoS <sub>2</sub> Thin Films Grown by Chemical Vapor Deposition for Enhanced Catalytic Performance. <i>ACS Catalysis</i> , <b>2017</b> , 7, 877-886	13.1	86
41	Nanomaterials for electrochemical energy storage. <i>Frontiers of Physics</i> , <b>2014</b> , 9, 323-350	3.7	77
40	Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 1293	35.4	67
39	Large Dendritic Monolayer MoS Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 4630-4639	9.5	60
38	Effect of the alkali insertion ion on the electrochemical properties of nickel hexacyanoferrate electrodes. <i>Faraday Discussions</i> , <b>2014</b> , 176, 69-81	3.6	50
37	Performance of a mixing entropy battery alternately flushed with wastewater effluent and seawater for recovery of salinity-gradient energy. <i>Energy and Environmental Science</i> , <b>2014</b> , 7, 2295-2300	35.4	47
36	Outlook on K-Ion Batteries. <i>Chem</i> , <b>2020</b> , 6, 2442-2460	16.2	46
35	Understanding the conversion mechanism and performance of monodisperse FeF nanocrystal cathodes. <i>Nature Materials</i> , <b>2020</b> , 19, 644-654	27	39
34	Observation of Interfacial Degradation of Li <sub>6</sub> PS <sub>5</sub> Cl against Lithium Metal and LiCoO <sub>2</sub> via In Situ Electrochemical Raman Microscopy. <i>Batteries and Supercaps</i> , <b>2020</b> , 3, 647-652	5.6	36
33	Facile synthesis of polyaniline using gold catalyst. <i>Journal of Catalysis</i> , <b>2008</b> , 259, 1-4	7.3	36
32	2021 roadmap on lithium sulfur batteries. <i>JPhys Energy</i> , <b>2021</b> , 3, 031501	4.9	32
31	2020 roadmap on solid-state batteries. <i>JPhys Energy</i> , <b>2020</b> , 2, 032008	4.9	31
30	Synthesis of Surface Grown Pt Nanoparticles on Edge-Enriched MoS <sub>2</sub> Porous Thin Films for Enhancing Electrochemical Performance. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 387-397	9.6	30
29	Low-Potential Prussian Blue Analogues for Sodium-Ion Batteries: Manganese Hexacyanochromate. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 2619-2626	9.6	28

28	Electrodeposited gold nanoparticles on carbon nanotube-textile: Anode material for glucose alkaline fuel cells. <i>Electrochemistry Communications</i> , <b>2012</b> , 19, 81-84	5.1	28
27	Paving the Way toward Highly Efficient, High-Energy Potassium-Ion Batteries with Ionic Liquid Electrolytes. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 7653-7661	9.6	27
26	Revealing the Role of Fluoride-Rich Battery Electrode Interphases by Operando Transmission Electron Microscopy. <i>Advanced Energy Materials</i> , <b>2021</b> , 11, 2003118	21.8	27
25	Gold-catalysed synthesis of polypyrrole <b>2009</b> , 42, 27-33		20
24	Increasing the electrochemical activity of basal plane sites in porous 3D edge rich MoS <sub>2</sub> thin films for the hydrogen evolution reaction. <i>Materials Today Energy</i> , <b>2019</b> , 13, 134-144	7	19
23	Effect of the Particle-Size Distribution on the Electrochemical Performance of a Red Phosphorus-Carbon Composite Anode for Sodium-Ion Batteries. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 4651-4658	4.1	17
22	A new approach to glucose sensing at gold electrodes. <i>Electrochemistry Communications</i> , <b>2010</b> , 12, 1407-1410	5.1	17
21	Quantifying the Search for Solid Li-Ion Electrolyte Materials by Anion: A Data-Driven Perspective. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 8067-8079	3.8	16
20	Single-Step Chemical Vapor Deposition Growth of Platinum Nanocrystal: Monolayer MoS <sub>2</sub> Dendrite Hybrid Materials for Efficient Electrocatalysis. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 8243-8256	9.6	13
19	A New Solid-State Sodium-Metal Battery. <i>Chem</i> , <b>2018</b> , 4, 666-668	16.2	11
18	Characterising lithium-ion electrolytes via operando Raman microspectroscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 4053	17.4	11
17	Potentiometric MRI of a Superconcentrated Lithium Electrolyte: Testing the Irreversible Thermodynamics Approach. <i>ACS Energy Letters</i> , <b>2021</b> , 6, 3086-3095	20.1	11
16	Three dimensional hybrid multi-layered graphene/CNT catalyst supports via rapid thermal annealing of nickel acetate. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 10457-10469	13	10
15	Charge-Free Mixing Entropy Battery Enabled by Low-Cost Electrode Materials. <i>ACS Omega</i> , <b>2019</b> , 4, 11785-11790	9.5	10
14	Optimizing operating conditions and electrochemical characterization of glucose/gluconate alkaline fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 1273-1278	8.9	10
13	Electrochemo-Mechanical Properties of Red Phosphorus Anodes in Lithium, Sodium, and Potassium Ion Batteries. <i>Matter</i> , <b>2020</b> , 3, 2012-2028	12.7	10
12	High Energy Density Single-Crystal NMC/LiPSCl Cathodes for All-Solid-State Lithium-Metal Batteries. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 37809-37815	9.5	10
11	Structural complexity in Prussian blue analogues. <i>Materials Horizons</i> , <b>2021</b> , 8, 3178-3186	14.4	8

10	Lead/Lead fluoride reference electrode. <i>Electrochemistry Communications</i> , <b>2012</b> , 20, 145-148	5.1	6
9	Filling vacancies in a Prussian blue analogue using mechanochemical post-synthetic modification. <i>Chemical Communications</i> , <b>2020</b> , 56, 7873-7876	5.8	5
8	In situ and operando characterisation of Li metal/Solid electrolyte interfaces. <i>Current Opinion in Solid State and Materials Science</i> , <b>2022</b> , 26, 100978	12	4
7	Ordered LiNi <sub>0.5</sub> Mn <sub>1.5</sub> O <sub>4</sub> Cathode in Bis(fluorosulfonyl)imide-Based Ionic Liquid Electrolyte: Importance of the Cathode/Electrolyte Interphase. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 1238-1248	9.6	4
6	Conversion-type fluoride cathodes: Current state of the art. <i>Current Opinion in Electrochemistry</i> , <b>2021</b> , 30, 100779	7.2	4
5	Electronic Structure and Electron-Transport Properties of Three Metal Hexacyanoferrates. <i>Chemistry of Materials</i> , <b>2021</b> , 33, 7067-7074	9.6	3
4	A red phosphorus-graphite composite as anode material for potassium-ion batteries. <i>Materials Today Energy</i> , <b>2021</b> , 21, 100840	7	2
3	Elucidating the Formation and Structural Evolution of Platinum Single-Site Catalysts for the Hydrogen Evolution Reaction.. <i>ACS Catalysis</i> , <b>2022</b> , 12, 3173-3180	13.1	2
2	The case for fluoride-ion batteries. <i>Joule</i> , <b>2021</b> ,	27.8	1
1	Insights into the Transport and Thermodynamic Properties of a Bis(fluorosulfonyl)imide-Based Ionic Liquid Electrolyte for Battery Applications.. <i>Journal of Physical Chemistry Letters</i> , <b>2022</b> , 1734-1741	6.4	1