Mauro Pasta

List of Publications by Year in Descending Order

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	In situ and operando characterisation of Li metal Solid electrolyte interfaces. *Current Opinion in Solid State and Materials Science*, **2022**, 26, 100978	12	4
62	Elucidating the Formation and Structural Evolution of Platinum Single-Site Catalysts for the Hydrogen Evolution Reaction.. *ACS Catalysis*, **2022**, 12, 3173-3180	13.1	2
61	Insights into the Transport and Thermodynamic Properties of a Bis(fluorosulfonyl)imide-Based Ionic Liquid Electrolyte for Battery Applications.. *Journal of Physical Chemistry Letters*, **2022**, 1734-1741	6.4	1
60	Structural complexity in Prussian blue analogues. *Materials Horizons*, **2021**, 8, 3178-3186	14.4	8
59	The case for fluoride-ion batteries. *Joule*, **2021**,	27.8	1
58	2021 roadmap on lithium sulfur batteries. *JPhys Energy*, **2021**, 3, 031501	4.9	32
57	Characterising lithium-ion electrolytes via operando Raman microspectroscopy. *Nature Communications*, **2021**, 12, 4053	17.4	11
56	High Energy Density Single-Crystal NMC/LiPSCl Cathodes for All-Solid-State Lithium-Metal Batteries. *ACS Applied Materials & Interfaces*, **2021**, 13, 37809-37815	9.5	10
55	Revealing the Role of Fluoride-Rich Battery Electrode Interphases by Operando Transmission Electron Microscopy. *Advanced Energy Materials*, **2021**, 11, 2003118	21.8	27
54	Ordered LiNi0.5Mn1.5O4 Cathode in Bis(fluorosulfonyl)imide-Based Ionic Liquid Electrolyte: Importance of the CathodeElectrolyte Interphase. *Chemistry of Materials*, **2021**, 33, 1238-1248	9.6	4
53	Electronic Structure and Electron-Transport Properties of Three Metal Hexacyanoferrates. *Chemistry of Materials*, **2021**, 33, 7067-7074	9.6	3
52	Potentiometric MRI of a Superconcentrated Lithium Electrolyte: Testing the Irreversible Thermodynamics Approach. *ACS Energy Letters*, **2021**, 6, 3086-3095	20.1	11
51	A red phosphorus-graphite composite as anode material for potassium-ion batteries. *Materials Today Energy*, **2021**, 21, 100840	7	2
50	Conversion-type fluoride cathodes: Current state of the art. *Current Opinion in Electrochemistry*, **2021**, 30, 100779	7.2	4
49	Filling vacancies in a Prussian blue analogue using mechanochemical post-synthetic modification. *Chemical Communications*, **2020**, 56, 7873-7876	5.8	5
48	Quantifying the Search for Solid Li-Ion Electrolyte Materials by Anion: A Data-Driven Perspective. *Journal of Physical Chemistry C*, **2020**, 124, 8067-8079	3.8	16
47	Understanding the conversion mechanism and performance of monodisperse FeF nanocrystal cathodes. *Nature Materials*, **2020**, 19, 644-654	27	39

46	Observation of Interfacial Degradation of Li6PS5Cl against Lithium Metal and LiCoO2 via In Situ Electrochemical Raman Microscopy. *Batteries and Supercaps*, **2020**, 3, 647-652	5.6	36
45	2020 roadmap on solid-state batteries. *JPhys Energy*, **2020**, 2, 032008	4.9	31
44	Outlook on K-Ion Batteries. *CheM*, **2020**, 6, 2442-2460	16.2	46
43	Electrochemo-Mechanical Properties of Red Phosphorus Anodes in Lithium, Sodium, and Potassium Ion Batteries. *Matter*, **2020**, 3, 2012-2028	12.7	10
42	Single-Step Chemical Vapor Deposition Growth of Platinum Nanocrystal: Monolayer MoS2 Dendrite Hybrid Materials for Efficient Electrocatalysis. *Chemistry of Materials*, **2020**, 32, 8243-8256	9.6	13
41	Paving the Way toward Highly Efficient, High-Energy Potassium-Ion Batteries with Ionic Liquid Electrolytes. *Chemistry of Materials*, **2020**, 32, 7653-7661	9.6	27
40	Increasing the electrochemical activity of basal plane sites in porous 3D edge rich MoS2 thin films for the hydrogen evolution reaction. *Materials Today Energy*, **2019**, 13, 134-144	7	19
39	Effect of the Particle-Size Distribution on the Electrochemical Performance of a Red Phosphorus-Carbon Composite Anode for Sodium-Ion Batteries. *Energy & Fuels*, **2019**, 33, 4651-4658	4.1	17
38	Low-Potential Prussian Blue Analogues for Sodium-Ion Batteries: Manganese Hexacyanochromate. *Chemistry of Materials*, **2019**, 31, 2619-2626	9.6	28
37	Charge-Free Mixing Entropy Battery Enabled by Low-Cost Electrode Materials. *ACS Omega*, **2019**, 4, 11785-11790	3.9	20
36	Synthesis of Surface Grown Pt Nanoparticles on Edge-Enriched MoS2 Porous Thin Films for Enhancing Electrochemical Performance. *Chemistry of Materials*, **2019**, 31, 387-397	9.6	30
35	Large Dendritic Monolayer MoS Grown by Atmospheric Pressure Chemical Vapor Deposition for Electrocatalysis. *ACS Applied Materials & Interfaces*, **2018**, 10, 4630-4639	9.5	60
34	A New Solid-State Sodium-Metal Battery. *CheM*, **2018**, 4, 666-668	16.2	11
33	Prussian Blue Analogs as Battery Materials. *Joule*, **2018**, 2, 1950-1960	27.8	197
32	Three dimensional hybrid multi-layered graphene□CNT catalyst supports via rapid thermal annealing of nickel acetate. *Journal of Materials Chemistry A*, **2017**, 5, 10457-10469	13	10
31	Edge-Enriched 2D MoS2 Thin Films Grown by Chemical Vapor Deposition for Enhanced Catalytic Performance. *ACS Catalysis*, **2017**, 7, 877-886	13.1	86
30	Entrapment of Polysulfides by a Black-Phosphorus-Modified Separator for Lithium-Sulfur Batteries. *Advanced Materials*, **2016**, 28, 9797-9803	24	371
29	Carbothermic reduction synthesis of red phosphorus-filled 3D carbon material as a high-capacity anode for sodium ion batteries. *Energy Storage Materials*, **2016**, 4, 130-136	19.4	139

28	Manganese–cobalt hexacyanoferrate cathodes for sodium-ion batteries. *Journal of Materials Chemistry A*, **2016**, 4, 4211-4223	13	117
27	Reversible Multivalent (Monovalent, Divalent, Trivalent) Ion Insertion in Open Framework Materials. *Advanced Energy Materials*, **2015**, 5, 1401869	21.8	142
26	A phosphorene-graphene hybrid material as a high-capacity anode for sodium-ion batteries. *Nature Nanotechnology*, **2015**, 10, 980-5	28.7	1114
25	Nanomaterials for electrochemical energy storage. *Frontiers of Physics*, **2014**, 9, 323-350	3.7	77
24	Full open-framework batteries for stationary energy storage. *Nature Communications*, **2014**, 5, 3007	17.4	367
23	Manganese hexacyanomanganate open framework as a high-capacity positive electrode material for sodium-ion batteries. *Nature Communications*, **2014**, 5, 5280	17.4	357
22	Performance of a mixing entropy battery alternately flushed with wastewater effluent and seawater for recovery of salinity-gradient energy. *Energy and Environmental Science*, **2014**, 7, 2295-2300	35.4	47
21	Effect of the alkali insertion ion on the electrochemical properties of nickel hexacyanoferrate electrodes. *Faraday Discussions*, **2014**, 176, 69-81	3.6	50
20	Synthesis of MoS2 and MoSe2 films with vertically aligned layers. *Nano Letters*, **2013**, 13, 1341-7	11.5	1746
19	Electrodeposited gold nanoparticles on carbon nanotube-textile: Anode material for glucose alkaline fuel cells. *Electrochemistry Communications*, **2012**, 19, 81-84	5.1	28
18	Lead–lead fluoride reference electrode. *Electrochemistry Communications*, **2012**, 20, 145-148	5.1	6
17	Tunable reaction potentials in open framework nanoparticle battery electrodes for grid-scale energy storage. *ACS Nano*, **2012**, 6, 1688-94	16.7	188
16	A desalination battery. *Nano Letters*, **2012**, 12, 839-43	11.5	313
15	Batteries for lithium recovery from brines. *Energy and Environmental Science*, **2012**, 5, 9487	35.4	141
14	Improving the cycling stability of silicon nanowire anodes with conducting polymer coatings. *Energy and Environmental Science*, **2012**, 5, 7927	35.4	239
13	A high-rate and long cycle life aqueous electrolyte battery for grid-scale energy storage. *Nature Communications*, **2012**, 3, 1149	17.4	424
12	Three-dimensional carbon nanotube-textile anode for high-performance microbial fuel cells. *Nano Letters*, **2011**, 11, 291-6	11.5	350
11	Batteries for efficient energy extraction from a water salinity difference. *Nano Letters*, **2011**, 11, 1810-3	11.5	264

10	Symmetrical MnO2-carbon nanotube-textile nanostructures for wearable pseudocapacitors with high mass loading. *ACS Nano*, **2011**, 5, 8904-13	16.7	540
9	Lithium-Ion Textile Batteries with Large Areal Mass Loading. *Advanced Energy Materials*, **2011**, 1, 1012-1017	11.8	205
8	Nano-structured textiles as high-performance aqueous cathodes for microbial fuel cells. *Energy and Environmental Science*, **2011**, 4, 1293	35.4	67
7	Optimizing operating conditions and electrochemical characterization of glucose/gluconate alkaline fuel cells. *Journal of Power Sources*, **2011**, 196, 1273-1278	8.9	10
6	Stretchable, porous, and conductive energy textiles. *Nano Letters*, **2010**, 10, 708-14	11.5	1280
5	Aqueous supercapacitors on conductive cotton. *Nano Research*, **2010**, 3, 452-458	10	176
4	A new approach to glucose sensing at gold electrodes. *Electrochemistry Communications*, **2010**, 12, 1407-1410	5.1	17
3	Mechanism of glucose electrochemical oxidation on gold surface. *Electrochimica Acta*, **2010**, 55, 5561-5568	7	196
2	Gold-catalysed synthesis of polypyrrole **2009**, 42, 27-33		20
1	Facile synthesis of polyaniline using gold catalyst. *Journal of Catalysis*, **2008**, 259, 1-4	7.3	36