Damian Goonetilleke

List of Publications by Year
in descending order

30 papers	1,484 citations	516561 16 h-index	501076 28 g-index
30 all docs	30 docs citations	30 times ranked	2466 citing authors

#	Article	IF	Citations
1	Single step synthesis of W-modified LiNiO₂ using an ammonium tungstate flux. Journal of Materials Chemistry A, 2022, 10, 7841-7855.	5.2	17
2	Advanced Nanoparticle Coatings for Stabilizing Layered Niâ€Rich Oxide Cathodes in Solidâ€State Batteries. Advanced Functional Materials, 2022, 32, .	7.8	45
3	In situneutron powder diffraction studies. ChemistrySelect, 2021, 6, .	0.7	2
4	Operando Characterization Techniques for Allâ€Solidâ€State Lithiumâ€Ion Batteries. Advanced Energy and Sustainability Research, 2021, 2, 2100004.	2.8	38
5	High Performance All-Solid-State Batteries with a Ni-Rich NCM Cathode Coated by Atomic Layer Deposition and Lithium Thiophosphate Solid Electrolyte. ACS Applied Energy Materials, 2021, 4, 7338-7345.	2.5	48
6	Cycling Performance and Limitations of LiNiO₂ in Solid-State Batteries. ACS Energy Letters, 2021, 6, 3020-3028.	8.8	39
7	Single versus poly-crystalline layered oxide cathode materials for solid-state battery applications - a short review article. Current Opinion in Electrochemistry, 2021, 31, 100877.	2.5	16
8	Iron-Doped Sodiumâ€“Vanadium Fluorophosphates: Na₃V_{2â€“y}O_{2â€“y}Fe_y(PO₄)₂F<sub>(y < 0.3). Inorganic Chemistry, 2020, 59, 854-862.	1.9	18
9	High-Performance NaVO₃ with Mixed Cationic and Anionic Redox Reactions for Na-Ion Battery Applications. Chemistry of Materials, 2020, 32, 8836-8844.	3.2	14
10	Probing the charged state of layered positive electrodes in sodium-ion batteries: reaction pathways, stability and opportunities. Journal of Materials Chemistry A, 2020, 8, 24833-24867.	5.2	29
11	Two-Phase Electrochemical Proton Transport and Storage in Î±-MoO3 for Proton Batteries. Cell Reports Physical Science, 2020, 1, 100225.	2.8	40
12	Nanostructured LiMnO₂ with Li₃PO₄ Integrated at the Atomic Scale for High-Energy Electrode Materials with Reversible Anionic Redox. ACS Central Science, 2020, 6, 2326-2338.	5.3	22
13	Exploration of the high temperature phase evolution of electrochemically modified Sc2(WO4)3via potassium discharge. Inorganic Chemistry Frontiers, 2019, 6, 2718-2726.	3.0	2
14	Monitoring lead-acid battery function using operando neutron radiography. Journal of Power Sources, 2019, 438, 226976.	4.0	12
15	Activated Carbon from E-Waste Plastics as a Promising Anode for Sodium-Ion Batteries. ACS Sustainable Chemistry and Engineering, 2019, 7, 10310-10322.	3.2	41
16	Exploring the rate dependence of phase evolution in P2-type Na_{2/3}Mn_{0.8}Fe_{0.1}Ti_{0.1}O₂. Journal of Materials Chemistry A, 2019, 7, 12115-12125.	5.2	15
17	In situ studies: electrochemistry and scattering. Current Opinion in Electrochemistry, 2019, 15, 18-26.	2.5	12
18	Structural Evolution and High-Voltage Structural Stability of Li(Ni_xMn_yCo_z)O₂Electrodes. Chemistry of Materials, 2019, 31, 376-386.	3.2	60

#	Article	IF	Citations
19	(Invited) Can a â€œBatteryâ€•Only be Used as a â€œBatteryâ€•or Can We Do More?. ECS Meeting Abstracts, 2019, .	0.0	0
20	Structural evidence for Mg-doped LiFePO4 electrode polarisation in commercial Li-ion batteries. Journal of Power Sources, 2018, 394, 1-8.	4.0	27
21	SmFeO₃ and Bi-doped SmFeO₃ perovskites as an alternative class of electrodes in lithium-ion batteries. CrystEngComm, 2018, 20, 6165-6172.	1.3	17
22	Insight Into the Formation of Lithium Alloys in All-Solid-State Thin Film Lithium Batteries. Frontiers in Energy Research, 2018, 6, .	1.2	12
23	Electrochemical Modification of Negative Thermal Expansion Materials in the Ta_xNb_{1â€“x}VO₅ Series. Inorganic Chemistry, 2018, 57, 10633-10639.	1.9	6
24	Correlating cycling history with structural evolution in commercial 26650 batteries using in operando neutron powder diffraction. Journal of Power Sources, 2017, 343, 446-457.	4.0	20
25	An Initial Review of the Status of Electrode Materials for Potassiumâ€•ion Batteries. Advanced Energy Materials, 2017, 7, 1602911.	10.2	854
26	Batteries: An Operando Mechanistic Evaluation of a Solarâ€Rechargeable Sodiumâ€•ion Intercalation Battery (Adv. Energy Mater. 19/2017). Advanced Energy Materials, 2017, 7, .	10.2	1
27	An Operando Mechanistic Evaluation of a Solarâ€Rechargeable Sodiumâ€•ion Intercalation Battery. Advanced Energy Materials, 2017, 7, 1700545.	10.2	36
28	Application of Operando Methods for Characterisation of Structural Evolution in Electrochemical Systems. ECS Meeting Abstracts, 2017, , .	0.0	0
29	Sodium insertion/extraction from single-walled and multi-walled carbon nanotubes: The differences and similarities. Journal of Power Sources, 2016, 314, 102-108.	4.0	26
30	Combining thermogalvanic corrosion and thermogalvanic redox couples for improved electrochemical waste heat harvesting. Electrochemistry Communications, 2015, 58, 76-79.	2.3	20