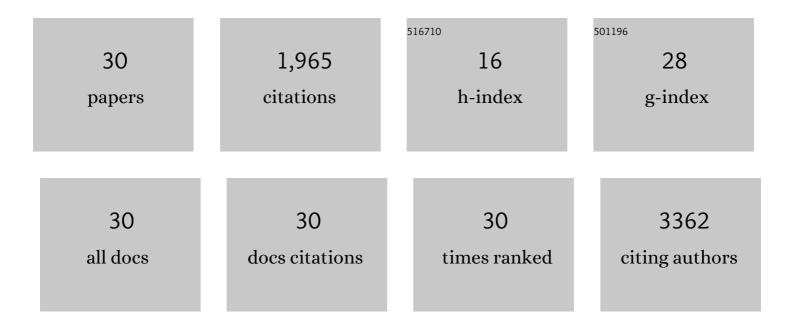
Jamie Michael Foster

List of Publications by Year in descending order

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IAMIE MICHAEL FOSTER

#	Article	IF	CITATIONS
1	Understanding rapid charge and discharge in nano-structured lithium iron phosphate cathodes. European Journal of Applied Mathematics, 2022, 33, 328-368.	2.9	6
2	Charge transport modelling of Lithium-ion batteries. European Journal of Applied Mathematics, 2022, 33, 983-1031.	2.9	9
3	Review of parameterisation and a novel database (LiionDB) for continuum Li-ion battery models. Progress in Energy, 2022, 4, 032004.	10.9	35
4	A continuum of physics-based lithium-ion battery models reviewed. Progress in Energy, 2022, 4, 042003.	10.9	30
5	A Shrinking-Core Model for the Degradation of High-Nickel Cathodes (NMC811) in Li-Ion Batteries: Passivation Layer Growth and Oxygen Evolution. Journal of the Electrochemical Society, 2021, 168, 020509.	2.9	23
6	DandeLiion v1: An Extremely Fast Solver for the Newman Model of Lithium-Ion Battery (Dis)charge. Journal of the Electrochemical Society, 2021, 168, 060544.	2.9	18
7	BESLE: Boundary element software for 3D linear elasticity. Computer Physics Communications, 2021, 265, 108009.	7.5	3
8	Parametrisation and Use of a Predictive DFN Model for a High-Energy NCA/Gr-SiOx Battery. Journal of the Electrochemical Society, 2021, 168, 120522.	2.9	13
9	Deducing transport properties of mobile vacancies from perovskite solar cell characteristics. Journal of Applied Physics, 2020, 128, .	2.5	25
10	Demand Response Model Development for Smart Households Using Time of Use Tariffs and Optimal Control—The Isle of Wight Energy Autonomous Community Case Study. Energies, 2020, 13, 541.	3.1	11
11	Discerning models of phase transformations in porous graphite electrodes: Insights from inverse modelling based on MRI measurements. Electrochimica Acta, 2020, 349, 136290.	5.2	6
12	Extremely Fast Solvers for Newman-Type Models of Li-Ion Cell (dis)Charge. ECS Meeting Abstracts, 2020, MA2020-01, 393-393.	0.0	0
13	Systematic derivation of a surface polarisation model for planar perovskite solar cells. European Journal of Applied Mathematics, 2019, 30, 427-457.	2.9	22
14	IonMonger: a free and fast planar perovskite solar cell simulator with coupled ion vacancy and charge carrier dynamics. Journal of Computational Electronics, 2019, 18, 1435-1449.	2.5	42
15	How transport layer properties affect perovskite solar cell performance: insights from a coupled charge transport/ion migration model. Energy and Environmental Science, 2019, 12, 396-409.	30.8	184
16	Incorporating Dendrite Growth into Continuum Models of Electrolytes: Insights from NMR Measurements and Inverse Modeling. Journal of the Electrochemical Society, 2019, 166, A1591-A1602.	2.9	17
17	The Effect of Ionic Aggregates on the Transport of Charged Species in Lithium Electrolyte Solutions. Journal of the Electrochemical Society, 2018, 165, H561-H567.	2.9	15
18	Operando Mapping of Li Concentration Profiles and Phase Transformations in Graphite Electrodes by Magnetic Resonance Imaging and Nuclear Magnetic Resonance Spectroscopy. Journal of Physical Chemistry C, 2018, 122, 21784-21791.	3.1	47

JAMIE MICHAEL FOSTER

#	Article	IF	CITATIONS
19	Migration of cations induces reversible performance losses over day/night cycling in perovskite solar cells. Energy and Environmental Science, 2017, 10, 604-613.	30.8	525
20	Measurement and modelling of dark current decay transients in perovskite solar cells. Journal of Materials Chemistry C, 2017, 5, 452-462.	5.5	64
21	Structure Solution of Metal-Oxide Li Battery Cathodes from Simulated Annealing and Lithium NMR Spectroscopy. Chemistry of Materials, 2017, 29, 5550-5557.	6.7	17
22	Can slow-moving ions explain hysteresis in the current–voltage curves of perovskite solar cells?. Energy and Environmental Science, 2016, 9, 1476-1485.	30.8	363
23	Three-dimensional investigation of cycling-induced microstructural changes in lithium-ion battery cathodes using focused ion beam/scanning electron microscopy. Journal of Power Sources, 2016, 306, 300-308.	7.8	60
24	Homogenization Study of the Effects of Cycling on the Electronic Conductivity of Commercial Lithium-Ion Battery Cathodes. Journal of Physical Chemistry C, 2015, 119, 12199-12208.	3.1	10
25	Improving the Long-Term Stability of Perovskite Solar Cells with a Porous Al ₂ O ₃ Buffer Layer. Journal of Physical Chemistry Letters, 2015, 6, 432-437.	4.6	343
26	The halting of contact lines in slender viscous films driven by gravity and surface tension gradients. Physics of Fluids, 2014, 26, 073601.	4.0	1
27	A Model for the Operation of Perovskite Based Hybrid Solar Cells: Formulation, Analysis, and Comparison to Experiment. SIAM Journal on Applied Mathematics, 2014, 74, 1935-1966.	1.8	53
28	Asymptotic and numerical prediction of current-voltage curves for an organic bilayer solar cell under varying illumination and comparison to the Shockley equivalent circuit. Journal of Applied Physics, 2013, 114, .	2.5	17
29	The slow spreading of a viscous fluid film over a deep viscous pool. Journal of Engineering Mathematics, 2011, 71, 393-408.	1.2	1
30	On Uncertainty Quantification in the Parametrization of Newman-Type Models of Lithium-Ion Batteries. Journal of the Electrochemical Society, 0, , .	2.9	5