Frank Berkemeier

List of Publications by Year
in descending order

26 papers	914 citations	567281 15 h-index	580821 25 g-index
26 all docs	26 docs citations	26 times ranked	1475 citing authors

#	Article	IF	Citations
1	On the physical interpretation of constant phase elements. Solid State Ionics, 2009, 180, 922-927.	2.7	296
2	Ultra-thin LiPON films â€“ Fundamental properties and application in solid state thin film model batteries. Journal of Power Sources, 2015, 275, 144-150.	7.8	96
3	Molar volume, glass-transition temperature, and ionic conductivity of Na- and Rb-borate glasses in comparison with mixed Naâ€“Rb borate glasses. Journal of Non-Crystalline Solids, 2005, 351, 3816-3825.	3.1	93
4	Lithium diffusion in sputter-deposited Li4Ti5O12 thin films. Journal of Power Sources, 2012, 215, 109-115.	7.8	62
5	Thickness-dependent dc conductivity of lithium borate glasses. Physical Review B, 2007, 76, .	3.2	33
6	On the interaction of water-soluble binders and nano silicon particles: alternative binder towards increased cycling stability at elevated temperatures. Physical Chemistry Chemical Physics, 2015, 17, 5632-5641.	2.8	33
7	A revised view on the mixed-alkali effect in alkali borate glasses. Journal of Non-Crystalline Solids, 2006, 352, 783-788.	3.1	32
8	Enhancing Silicon Performance via LiPON Coating: A Prospective Anode for Lithium Ion Batteries. Electrochimica Acta, 2016, 217, 171-180.	5.2	29
9	Ionicâ€Liquidâ€Assisted Synthesis of Nanostructured and Carbonâ€Coated Li₃V₂(PO₄)₃ for Highâ€Power Electrochemical Storage Devices. ChemSusChem, 2014, 7, 1710-1718.	6.8	28
10	Thickness dependent ion conductivity of lithium borate network glasses. Applied Physics Letters, 2007, 90, 113110.	3.3	25
11	An investigation of the electrochemical delithiation process of carbon coated Î±-Fe2O3 nanoparticles. Journal of Materials Chemistry A, 2013, 1, 11229.	10.3	22
12	The influence of sputter conditions on the properties of LiPON and its interfaces. Journal of Power Sources, 2018, 394, 160-169.	7.8	22
13	Mixed-Alkali Effect of Tracer Diffusion and Ionic Conduction in Na-Rb Borate Glasses as a Function of Total Alkali Content. Zeitschrift Fur Physikalische Chemie, 2004, 218, 1353-1374.	2.8	19
14	Lithium diffusion in sputter-deposited lithium iron phosphate thin-films. Journal of Power Sources, 2013, 236, 61-67.	7.8	19
15	Transition from a single-ion to a collective diffusion mechanism in alkali borate glasses. Journal of Non-Crystalline Solids, 2008, 354, 328-332.	3.1	18
16	Pressure dependence of the ionic conductivity of Na- and Naâ€“Rb borate glasses. Solid State Ionics, 2006, 177, 963-969.	2.7	17
17	Ion beam sputter-deposition of LiCoO2 films. Thin Solid Films, 2012, 520, 3668-3674.	1.8	14
18	Sputter-deposited network glasses. Ionics, 2009, 15, 241-248.	2.4	12

#	Article	IF	Citations
19	Controlling the optical properties of sputtered-deposited LixV2O5 films. Journal of Applied Physics, 2016, 120, 135106.	2.5	12
20	Nanoanalysis and Ion Conductivity of Thin Film Battery Materials. Zeitschrift Fur Physikalische Chemie, 2010, 224, 1795-1829.	2.8	9
21	Volume diffusion and interface transport in LiCoO2 measured by electrochromic absorption. Acta Materialia, 2014, 80, 132-140.	7.9	7
22	Li V2O5 â€“ Analysis of surface reactions by spectroscopic quartz crystal mircogravimetry. Journal of Power Sources, 2016, 336, 172-178.	7.8	5
23	Defects and Charging Processes in Li-Ion Battery Cathodes Studied by Operando Magnetometry and Positron Annihilation. Materials Science Forum, 2016, 879, 2125-2130.	0.3	3
24	Electrochemical optical actuators: Controlling the light through ions. , 2016, , .		3
25	High performance all-solid-state lithium battery: Assessment of the temperature dependence of Li diffusion. Journal of Power Sources, 2022, 517, 230709.	7.8	3
26	Ion transport and phase transformation in thin film intercalation electrodes. International Journal of Materials Research, 2017, 108, 984-998.	0.3	2