

# Frank Berkemeier

## List of Publications by Year in descending order

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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	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
2	The influence of sputter conditions on the properties of LiPON and its interfaces. Journal of Power Sources, 2018, 394, 160-169.	7.8	22
3	Ion transport and phase transformation in thin film intercalation electrodes. International Journal of Materials Research, 2017, 108, 984-998.	0.3	2
4	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
5	Controlling the optical properties of sputtered-deposited $\text{Li}_x\text{V}_2\text{O}_5$ films. Journal of Applied Physics, 2016, 120, 135106.	2.5	12
6	Electrochemical optical actuators: Controlling the light through ions. , 2016, , .		3
7	Enhancing Silicon Performance via LiPON Coating: A Prospective Anode for Lithium Ion Batteries. Electrochimica Acta, 2016, 217, 171-180.	5.2	29
8	Li $\text{V}_2\text{O}_5$ " Analysis of surface reactions by spectroscopic quartz crystal microgravimetry. Journal of Power Sources, 2016, 336, 172-178.	7.8	5
9	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
10	Ultra-thin LiPON films " Fundamental properties and application in solid state thin film model batteries. Journal of Power Sources, 2015, 275, 144-150.	7.8	96
11	Ionic-Liquid-Assisted Synthesis of Nanostructured and Carbon-Coated $\text{Li}_{3/2}\text{V}_2(\text{PO}_4)_3$ for High-Power Electrochemical Storage Devices. ChemSusChem, 2014, 7, 1710-1718.	6.8	28
12	Volume diffusion and interface transport in $\text{LiCoO}_2$ measured by electrochromic absorption. Acta Materialia, 2014, 80, 132-140.	7.9	7
13	An investigation of the electrochemical delithiation process of carbon coated $\text{Li-Fe}_2\text{O}_3$ nanoparticles. Journal of Materials Chemistry A, 2013, 1, 11229.	10.3	22
14	Lithium diffusion in sputter-deposited lithium iron phosphate thin-films. Journal of Power Sources, 2013, 236, 61-67.	7.8	19
15	Lithium diffusion in sputter-deposited $\text{Li}_4\text{Ti}_5\text{O}_{12}$ thin films. Journal of Power Sources, 2012, 215, 109-115.	7.8	62
16	Ion beam sputter-deposition of $\text{LiCoO}_2$ films. Thin Solid Films, 2012, 520, 3668-3674.	1.8	14
17	Nanoanalysis and Ion Conductivity of Thin Film Battery Materials. Zeitschrift Fur Physikalische Chemie, 2010, 224, 1795-1829.	2.8	9
18	Sputter-deposited network glasses. Ionics, 2009, 15, 241-248.	2.4	12

#	ARTICLE	IF	CITATIONS
19	On the physical interpretation of constant phase elements. Solid State Ionics, 2009, 180, 922-927.	2.7	296
20	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
21	Thickness-dependent dc conductivity of lithium borate glasses. Physical Review B, 2007, 76, .	3.2	33
22	Thickness dependent ion conductivity of lithium borate network glasses. Applied Physics Letters, 2007, 90, 113110.	3.3	25
23	A revised view on the mixed-alkali effect in alkali borate glasses. Journal of Non-Crystalline Solids, 2006, 352, 783-788.	3.1	32
24	Pressure dependence of the ionic conductivity of Na- and Na-Rb borate glasses. Solid State Ionics, 2006, 177, 963-969.	2.7	17
25	Molar volume, glass-transition temperature, and ionic conductivity of Na- and Rb-borate glasses in comparison with mixed Na-Rb borate glasses. Journal of Non-Crystalline Solids, 2005, 351, 3816-3825.	3.1	93
26	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