

# Jan-Patrick Melchior

## List of Publications by Year in descending order

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13  
papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	Multiscale water dynamics in model Anion Exchange Membranes for Alkaline Membrane Fuel Cells. <i>Journal of Membrane Science</i> , 2019, 586, 240-247.	4.1	10
2	A Quasielastic Neutron Scattering Study of Water Diffusion in Model Anion Exchange Membranes over Localized and Extended Volume Increments. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14195-14206.	1.5	18
3	High Lithium Transference Number Electrolytes Containing Tetratriflylpropene's Lithium Salt. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5116-5120.	2.1	35
4	Proton conduction mechanisms in the phosphoric acid-water system ( $H_4P_2O_7 \cdot 2H_2O$ ): a $^1H$ , $^{31}P$ and $^{17}O$ PFG-NMR and conductivity study. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 587-600.	1.3	62
5	Why do proton conducting polybenzimidazole phosphoric acid membranes perform well in high-temperature PEM fuel cells?. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 601-612.	1.3	124
6	On the nanosecond proton dynamics in phosphoric acid-benzimidazole and phosphoric acid-water mixtures. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 28540-28554.	1.3	12
7	About the Interactions Controlling Nafion's Viscoelastic Properties and Morphology. <i>Macromolecules</i> , 2015, 48, 8534-8545.	2.2	22
8	Mechanism of Efficient Proton Conduction in Diphosphoric Acid Elucidated via First-Principles Simulation and NMR. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15866-15875.	1.2	26
9	Determination of individual contributions to the ionic conduction in liquid electrolytes: Case study of LiTf/PEGDME-150. <i>Electrochemistry Communications</i> , 2015, 60, 195-198.	2.3	13
10	Characterization of the fluorescence correlation spectroscopy (FCS) standard Rhodamine 6G and calibration of its diffusion coefficient in aqueous solutions. <i>Journal of Chemical Physics</i> , 2014, 140, 094201.	1.2	15
11	Hydroxide, halide and water transport in a model anion exchange membrane. <i>Journal of Membrane Science</i> , 2014, 464, 61-71.	4.1	161
12	First principles molecular dynamics study of proton dynamics and transport in phosphoric acid/imidazole (2:1) system. <i>Solid State Ionics</i> , 2013, 252, 34-39.	1.3	43
13	Proton Conducting Phase-Separated Multiblock Copolymers with Sulfonated Poly(phenylene sulfone) Blocks for Electrochemical Applications: Preparation, Morphology, Hydration Behavior, and Transport. <i>Advanced Functional Materials</i> , 2012, 22, 4456-4470.	7.8	85