

# Jonas Landsgesell

## List of Publications by Year in descending order

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840585

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887953

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	ESPreSo 4.0 – an extensible software package for simulating soft matter systems. European Physical Journal: Special Topics, 2019, 227, 1789-1816.	1.2	127
2	Simulations of ionization equilibria in weak polyelectrolyte solutions and gels. Soft Matter, 2019, 15, 1155-1185.	1.2	78
3	Grand-Reaction Method for Simulations of Ionization Equilibria Coupled to Ion Partitioning. Macromolecules, 2020, 53, 3007-3020.	2.2	44
4	Simulation of weak polyelectrolytes: a comparison between the constant pH and the reaction ensemble method. European Physical Journal: Special Topics, 2017, 226, 725-736.	1.2	40
5	On the efficiency of a hydrogel-based desalination cycle. Desalination, 2017, 414, 28-34.	4.0	33
6	Poly(sodium acrylate) hydrogels: synthesis of various network architectures, local molecular dynamics, salt partitioning, desalination and simulation. Soft Matter, 2019, 15, 9949-9964.	1.2	28
7	Wang – Landau Reaction Ensemble Method: Simulation of Weak Polyelectrolytes and General Acid–Base Reactions. Journal of Chemical Theory and Computation, 2017, 13, 852-862.	2.3	17
8	Computer Simulations of Static and Dynamical Properties of Weak Polyelectrolyte Nanogels in Salty Solutions. Gels, 2018, 4, 2.	2.1	17
9	Modeling Gel Swelling Equilibrium in the Mean Field: From Explicit to Poisson-Boltzmann Models. Physical Review Letters, 2019, 122, 208002.	2.9	14
10	Modeling of weak polyelectrolyte hydrogels under compression – Implications for water desalination. Desalination, 2021, 506, 114995.	4.0	13
11	The pH-Dependent Swelling of Weak Polyelectrolyte Hydrogels Modeled at Different Levels of Resolution. Macromolecules, 2022, 55, 3176-3188.	2.2	11
12	Cell Model Approaches for Predicting the Swelling and Mechanical Properties of Polyelectrolyte Gels. Macromolecules, 2019, 52, 9341-9353.	2.2	9
13	Can oppositely charged polyelectrolyte stars form a gel? A simulational study. Soft Matter, 2021, 17, 1574-1588.	1.2	6
14	Modeling the current modulation of dsDNA in nanopores – from mean-field to atomistic and back. European Physical Journal: Special Topics, 2019, 227, 1639-1655.	1.2	5
15	Influence of weak groups on polyelectrolyte mobilities. Electrophoresis, 2019, 40, 799-809.	1.3	1