

# Manuel Hopp-Hirschler

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/5839935/manuel-hopp-hirschler-publications-by-citations.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

25  
papers

427  
citations

11  
h-index

20  
g-index

27  
ext. papers

503  
ext. citations

3.4  
avg, IF

4.36  
L-index

#	Paper	IF	Citations
25	Three-dimensional lattice Boltzmann simulations of high density ratio two-phase flows in porous media. <i>Computers and Mathematics With Applications</i> , <b>2018</b> , 75, 2445-2465	2.7	79
24	A Smoothed Particle Hydrodynamics approach for thermo-capillary flows. <i>Computers and Fluids</i> , <b>2018</b> , 176, 1-19	2.8	65
23	Viscous fingering phenomena in the early stage of polymer membrane formation. <i>Journal of Fluid Mechanics</i> , <b>2019</b> , 864, 97-140	3.7	51
22	Flow battery based on reverse electrodialysis with bipolar membranes: Single cell experiments. <i>Journal of Membrane Science</i> , <b>2018</b> , 565, 157-168	9.6	35
21	Open boundary conditions for ISPH and their application to micro-flow. <i>Journal of Computational Physics</i> , <b>2016</b> , 307, 614-633	4.1	34
20	Acid-Base Flow Battery, Based on Reverse Electrodialysis with Bi-Polar Membranes: Stack Experiments. <i>Processes</i> , <b>2020</b> , 8, 99	2.9	26
19	On the physically based modeling of surface tension and moving contact lines with dynamic contact angles on the continuum scale. <i>Journal of Computational Physics</i> , <b>2016</b> , 310, 459-477	4.1	24
18	Modeling of pore formation in phase inversion processes: Model and numerical results. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 820-831	9.6	24
17	Inflow/outflow with Dirichlet boundary conditions for pressure in ISPH. <i>Journal of Computational Physics</i> , <b>2016</b> , 326, 171-187	4.1	22
16	Modeling of droplet collisions using Smoothed Particle Hydrodynamics. <i>International Journal of Multiphase Flow</i> , <b>2017</b> , 95, 175-187	3.6	20
15	Influence of orifice type and wetting properties on bubble formation at bubble column reactors. <i>Chemical Engineering Science</i> , <b>2016</b> , 152, 151-162	4.4	15
14	An Application of the Cahn-Hilliard Approach to Smoothed Particle Hydrodynamics. <i>Mathematical Problems in Engineering</i> , <b>2014</b> , 2014, 1-10	1.1	10
13	On Maxwell-Stefan diffusion in Smoothed Particle Hydrodynamics. <i>International Journal of Heat and Mass Transfer</i> , <b>2016</b> , 103, 548-554	4.9	9
12	Simulation of Electrolyte Imbibition in Gas Diffusion Electrodes. <i>Chemie-Ingenieur-Technik</i> , <b>2019</b> , 91, 883-888	4.88	2
11	Mesosopic simulation and characterization of the morphological evolution in phase separating fluid mixtures. <i>Computational Materials Science</i> , <b>2018</b> , 149, 267-281	3.2	2
10	Up-scaling transport in porous polymer membranes using asymptotic homogenization. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , <b>2019</b> , 30, 266-289	4.5	2
9	2016 IEEE Scientific Visualization Contest Winner: Visual and Structural Analysis of Point-based Simulation Ensembles. <i>IEEE Computer Graphics and Applications</i> , <b>2018</b> , 38, 106-117	1.7	2

8	Fully implicit time integration in truly incompressible SPH. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 227, 1501-1514	2.3	1
7	Ein gitterfreies Berechnungsverfahren zur Simulation von Koaleszenz in Mehrphasensystemen. <i>Chemie-Ingenieur-Technik</i> , <b>2013</b> , 85, 1099-1106	0.8	1
6	Modeling of pore formation in phase inversion processes: analysis of pore formation mechanism. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2020</b> , 139, 2831-2846	4.1	1
5	Effective transport parameters of porous media from 2D microstructure images. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 175, 121371	4.9	1
4	Coupled Electrohydrodynamic and Thermocapillary Instability of Multi-Phase Flows Using an Incompressible Smoothed Particle Hydrodynamics Method. <i>Energies</i> , <b>2022</b> , 15, 2576	3.1	1
3	Generalized Fickian approach for phase separating fluid mixtures in Smoothed Particle Hydrodynamics. <i>Computers and Fluids</i> , <b>2019</b> , 179, 78-90	2.8	
2	Modellierung der Strukturausbildung bei der Sprühtrocknung mithilfe gitterfreier Simulationsverfahren. <i>Chemie-Ingenieur-Technik</i> , <b>2014</b> , 86, 1550-1550	0.8	
1	A study of truly incompressible and weakly compressible Smoothed Particle Hydrodynamics methods to model incompressible flows with free surfaces. <i>Proceedings in Applied Mathematics and Mechanics</i> , <b>2014</b> , 14, 607-608	0.2	