

# Manuel Hopp-Hirschler

## List of Publications by Year in Descending Order

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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	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
24	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
23	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
22	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
21	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	
20	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
19	Simulation of Electrolyte Imbibition in Gas Diffusion Electrodes. <i>Chemie-Ingenieur-Technik</i> , <b>2019</b> , 91, 883-888	3.8	2
18	Fully implicit time integration in truly incompressible SPH. <i>European Physical Journal: Special Topics</i> , <b>2019</b> , 227, 1501-1514	2.3	1
17	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
16	Mesoscopic 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
15	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
14	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
13	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
12	A Smoothed Particle Hydrodynamics approach for thermo-capillary flows. <i>Computers and Fluids</i> , <b>2018</b> , 176, 1-19	2.8	65
11	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
10	Modeling of droplet collisions using Smoothed Particle Hydrodynamics. <i>International Journal of Multiphase Flow</i> , <b>2017</b> , 95, 175-187	3.6	20
9	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

8	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
7	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
6	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
5	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
4	Modellierung der Strukturausbildung bei der Sprühtrocknung mithilfe gitterfreier Simulationsverfahren. <i>Chemie-Ingenieur-Technik</i> , <b>2014</b> , 86, 1550-1550	0.8	
3	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	
2	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
1	Ein gitterfreies Berechnungsverfahren zur Simulation von Koaleszenz in Mehrphasensystemen. <i>Chemie-Ingenieur-Technik</i> , <b>2013</b> , 85, 1099-1106	0.8	1