

# Philipp Hahn

## List of Publications by Year in descending order

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17  
papers

511  
citations

840776

11  
h-index

1125743

13  
g-index

18  
all docs

18  
docs citations

18  
times ranked

528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical simulation of acoustofluidic manipulation by radiation forces and acoustic streaming for complex particles. Lab on A Chip, 2015, 15, 4302-4313.	6.0	85
2	Acoustofluidics 19: Ultrasonic microrobotics in cavities: devices and numerical simulation. Lab on A Chip, 2012, 12, 4010.	6.0	59
3	Acoustophoretic cell and particle trapping on microfluidic sharp edges. Microfluidics and Nanofluidics, 2015, 19, 923-933.	2.2	58
4	Leveraging parallel computing in multibody dynamics. Multibody System Dynamics, 2012, 27, 95-117.	2.7	55
5	Rotation of fibers and other non-spherical particles by the acoustic radiation torque. Microfluidics and Nanofluidics, 2015, 18, 65-79.	2.2	50
6	Acoustofluidics 6: Experimental characterization of ultrasonic particle manipulation devices. Lab on A Chip, 2012, 12, 852.	6.0	38
7	Acoustophoresis of disk-shaped microparticles: A numerical and experimental study of acoustic radiation forces and torques. Journal of the Acoustical Society of America, 2015, 138, 2759-2769.	1.1	36
8	A numerically efficient damping model for acoustic resonances in microfluidic cavities. Physics of Fluids, 2015, 27, .	4.0	35
9	Acoustophoresis of hollow and core-shell particles in two-dimensional resonance modes. Microfluidics and Nanofluidics, 2014, 16, 513-524.	2.2	28
10	Modeling and optimization of acoustofluidic micro-devices. Lab on A Chip, 2014, 14, 3937-3948.	6.0	28
11	Numerical simulation of micro-particle rotation by the acoustic viscous torque. Lab on A Chip, 2016, 16, 4581-4594.	6.0	27
12	On the Use of Meshless Methods in Acoustic Simulations. , 2009, , .		9
13	A Numerically Efficient Damping Model for Acoustic Resonances in Microfluidic Cavities. Physics Procedia, 2015, 70, 85-88.	1.2	2
14	Acoustophoresis of Disks. Physics Procedia, 2015, 70, 21-24.	1.2	1
15	A novel device allowing for movement and trapping of particles within loop-shaped channels. , 2012, , .		0
16	Ultrasonic Microrobotics in Cavities: Devices and Numerical Simulation. , 2014, , 212-241.		0
17	A Parallel Boundary Element Algorithm for the Computation of the Acoustic Radiation Forces on Particles in Viscous Fluids. , 0, , .		0