Philipp Hahn

List of Publications by Year
in descending order

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