

# Rune Barnkob

## List of Publications by Year in descending order

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Version: 2024-02-01

18  
papers

1,655  
citations

687363

13  
h-index

839539

18  
g-index

18  
all docs

18  
docs citations

18  
times ranked

1208  
citing authors

#	ARTICLE	IF	CITATIONS
1	&lt;i>DefocusTracker&lt;/i>: A Modular Toolbox for Defocusing-based, Single-Camera, 3D Particle Tracking. Journal of Open Research Software, 2021, 9, 22.	5.9	10
2	Defocus particle tracking: a comparison of methods based on model functions, cross-correlation, and neural networks. Measurement Science and Technology, 2021, 32, 094011.	2.6	16
3	Rapid measurement of the local pressure amplitude in microchannel acoustophoresis using motile cells. Journal of the Acoustical Society of America, 2021, 150, 1565-1576.	1.1	4
4	General defocusing particle tracking: fundamentals and uncertainty assessment. Experiments in Fluids, 2020, 61, 1.	2.4	33
5	A fast and robust algorithm for general defocusing particle tracking. Measurement Science and Technology, 2020, 32, 014001.	2.6	18
6	Acoustically Driven Fluid and Particle Motion in Confined and Leaky Systems. Physical Review Applied, 2018, 9, .	3.8	38
7	Numerical study of acoustophoretic motion of particles in a PDMS microchannel driven by surface acoustic waves. Lab on A Chip, 2015, 15, 2700-2709.	6.0	154
8	General defocusing particle tracking. Lab on A Chip, 2015, 15, 3556-3560.	6.0	91
9	Ultrasound-induced acoustophoretic motion of microparticles in three dimensions. Physical Review E, 2013, 88, 023006.	2.1	132
10	Tunable-angle wedge transducer for improved acoustophoretic control in a microfluidic chip. Journal of Micromechanics and Microengineering, 2013, 23, 105002.	2.6	10
11	Optical stretching on chip with acoustophoretic prefocusing. Proceedings of SPIE, 2012, , .	0.8	7
12	Measuring acoustic energy density in microchannel acoustophoresis using a simple and rapid light-intensity method. Lab on A Chip, 2012, 12, 2337.	6.0	47
13	Acoustic radiation- and streaming-induced microparticle velocities determined by microparticle image velocimetry in an ultrasound symmetry plane. Physical Review E, 2012, 86, 056307.	2.1	194
14	A numerical study of microparticle acoustophoresis driven by acoustic radiation forces and streaming-induced drag forces. Lab on A Chip, 2012, 12, 4617.	6.0	461
15	High-throughput, temperature-controlled microchannel acoustophoresis device made with rapid prototyping. Journal of Micromechanics and Microengineering, 2012, 22, 075017.	2.6	62
16	Automated and temperature-controlled micro-PIV measurements enabling long-term-stable microchannel acoustophoresis characterization. Lab on A Chip, 2011, 11, 4152.	6.0	137
17	Measuring the local pressure amplitude in microchannel acoustophoresis. Lab on A Chip, 2010, 10, 563.	6.0	229
18	Acoustofluidics: theory and simulation of radiation forces at ultrasound resonances in microfluidic devices. Proceedings of Meetings on Acoustics, 2009, , .	0.3	12