

# David R Mott

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

681  
citations

933447

10  
h-index

1125743

13  
g-index

25  
all docs

25  
docs citations

25  
times ranked

759  
citing authors

#	ARTICLE	IF	CITATIONS
1	A microfluidic mixer with grooves placed on the top and bottom of the channel. Lab on A Chip, 2005, 5, 524.	6.0	127
2	Two simple and rugged designs for creating microfluidic sheath flow. Lab on A Chip, 2008, 8, 1097.	6.0	110
3	Design and evaluation of a Dean vortex-based micromixer. Lab on A Chip, 2004, 4, 663.	6.0	108
4	A Quasi-Steady-State Solver for the Stiff Ordinary Differential Equations of Reaction Kinetics. Journal of Computational Physics, 2000, 164, 407-428.	3.8	84
5	Target delivery in a microfluidic immunosensor. Biosensors and Bioelectronics, 2007, 22, 2763-2767.	10.1	60
6	3D hydrodynamic focusing microfluidics for emerging sensing technologies. Biosensors and Bioelectronics, 2015, 67, 25-34.	10.1	57
7	Toolbox for the design of optimized microfluidic components. Lab on A Chip, 2006, 6, 540.	6.0	47
8	Parameters affecting the shape of a hydrodynamically focused stream. Microfluidics and Nanofluidics, 2011, 11, 119-128.	2.2	21
9	A combinatorial approach to microfluidic mixing. Journal of Micromechanics and Microengineering, 2008, 18, 115019.	2.6	20
10	The Numerical Toolbox: An approach for modeling and optimizing microfluidic components. Mechanics Research Communications, 2009, 36, 104-109.	1.8	12
11	Optimizing mixing in lid-driven flow designs through predictions from Eulerian indicators. Physics of Fluids, 2011, 23, 082005.	4.0	10
12	Towards the Design of Efficient Micromixers. , 2004, , .		6
13	Designing Microfluidic Components for Enhanced Surface Delivery Using a Genetic Algorithm Search. , 2008, , .		5
14	Microfabricated Gas Chromatograph for Trace Analysis. , 2008, , .		4
15	A Lagrangian Advection Routine Applied to Microfluidic Component Design. , 2006, , .		3
16	Design and Simulation of a Microfabricated Gas Chromatographic Column. , 2008, , .		2
17	FCT and Direct Pressure Evaluation for Incompressible Flows. , 2007, , .		1
18	Infrared micro-thermography of an actively heated preconcentrator device. , 2008, , .		1

#	ARTICLE	IF	CITATIONS
19	Fate and effects of trace particulate explosives. Proceedings of SPIE, 2014, , .	0.8	1
20	Advances in sublimation studies for particles of explosives. Proceedings of SPIE, 2015, , .	0.8	1
21	Interface-fitted Simulation of Multi-Material Sheath Flow using MDG-ICE. , 2020, , .		1
22	Microfilter simulations and scaling laws. AIP Conference Proceedings, 2001, , .	0.4	0
23	Computations of Chaotic Flow in a Passive Micromixer. , 2006, , .		0
24	Analysis and Design of Novel Column Geometries for Micro-Gas Chromatography. , 2009, , .		0
25	Optimizing the Arrangement and Shape of Grooves in Microfluidic Components. , 2010, , .		0