

Michael G Olsen

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,477
citations

257101

24
h-index

329751

37
g-index

60
all docs

60
docs citations

60
times ranked

1065
citing authors

#	ARTICLE	IF	CITATIONS
1	Coalescence-induced phase separation of an oil in water emulsion under controlled shear and temperature conditions. <i>Chemical Engineering Research and Design</i> , 2022, 182, 517-524.	2.7	1
2	Coherent structure characteristics of the swirling flow during turbulent mixing in a multi-inlet vortex reactor. <i>Physics of Fluids</i> , 2021, 33, .	1.6	2
3	Droplet coalescence and phase separation in a topical ointment: Effects of fluid shear and temperature. <i>International Journal of Pharmaceutics</i> , 2020, 591, 119872.	2.6	10
4	Jet breakup regimes in liquid-liquid Taylor vortex flow. <i>International Journal of Multiphase Flow</i> , 2020, 131, 103401.	1.6	2
5	Evolution of bubble size distribution, number density, and shape in semi-batch vertical gas-liquid Taylor vortex flow. <i>AIChE Journal</i> , 2020, 66, e17003.	1.8	2
6	Droplet size distributions in liquid-liquid semi-batch Taylor vortex flow. <i>AIP Advances</i> , 2020, 10, 085316.	0.6	4
7	A delayed detached eddy simulation model with low Reynolds number correction for transitional swirling flow in a multi-inlet vortex nanoprecipitation reactor. <i>Chemical Engineering Science</i> , 2019, 193, 66-75.	1.9	11
8	Flow Regimes in Two-Phase Hexane/Water Semibatch Vertical Taylor Vortex Flow. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	5
9	Experimental characterization of turbulent mixing performance using simultaneous stereoscopic particle image velocimetry and planar laser-induced fluorescence. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	12
10	Eulerian conditional statistics of turbulent flow in a macroscale multi-inlet vortex chemical reactor. <i>Physics of Fluids</i> , 2019, 31, 115106.	1.6	0
11	Detailed experimental and numerical investigation of fluid-particle interactions of a fixed train of spherical particles inside a square duct. <i>International Journal of Multiphase Flow</i> , 2018, 103, 16-29.	1.6	5
12	An intelligent cooling system and control model for improved engine thermal management. <i>Applied Thermal Engineering</i> , 2018, 128, 253-263.	3.0	67
13	Experimental investigation of the effect of ethyl alcohol surfactant on oxygen mass transfer and bubble size distribution in an air-water multiphase Taylor-Couette vortex bioreactor. <i>Chemical Engineering Journal</i> , 2017, 319, 288-296.	6.6	34
14	Turbulent mixing in the confined swirling flow of a multi-inlet vortex reactor. <i>AIChE Journal</i> , 2017, 63, 2409-2419.	1.8	19
15	Dynamic delayed detached eddy simulation of a multi-inlet vortex reactor. <i>AIChE Journal</i> , 2016, 62, 2570-2578.	1.8	27
16	Experimental measurement of oxygen mass transfer and bubble size distribution in an air-water multiphase Taylor-Couette vortex bioreactor. <i>Chemical Engineering Journal</i> , 2015, 279, 286-296.	6.6	54
17	A Batchelor Vortex Model for Mean Velocity of Turbulent Swirling Flow in a Macroscale Multi-Inlet Vortex Reactor. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2015, 137, .	0.8	16
18	Flow Characteristics in a Scaled-up Multi-inlet Vortex Nanoprecipitation Reactor. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 4512-4525.	1.8	32

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19	Large eddy simulation of passive scalar transport in a high Schmidt number turbulent incompressible wake with experimental validation. <i>Chemical Engineering Science</i> , 2015, 137, 862-874.	1.9	5
20	An adaptive model for gas-liquid mass transfer in a Taylor vortex reactor. <i>International Journal of Heat and Mass Transfer</i> , 2015, 91, 433-445.	2.5	17
21	Investigation of Pseudo Turbulent Scalar Transport in Two Phase Fluid Flow and Passive Scalar Mixing Using Simultaneous SPIV/PLIF. , 2014, , .		0
22	Micromixing visualization and quantification in a microscale multi-inlet vortex nanoprecipitation reactor using confocal-based reactive micro laser-induced fluorescence. <i>Biomicrofluidics</i> , 2014, 8, 044102.	1.2	6
23	Effect of inlet conditions on the accuracy of large eddy simulations of a turbulent rectangular wake. <i>Chemical Engineering Journal</i> , 2014, 250, 175-189.	6.6	9
24	Turbulence in Microchannels. , 2014, , 1-9.		0
25	Measurements of turbulence in a microscale multi-inlet vortex nanoprecipitation reactor. <i>Journal of Micromechanics and Microengineering</i> , 2013, 23, 075005.	1.5	23
26	Turbulence measurements in a rectangular mesoscale confined impinging jets reactor. <i>Experiments in Fluids</i> , 2012, 53, 1929-1941.	1.1	5
27	Confocal imaging of laminar and turbulent mixing in a microscale multi-inlet vortex nanoprecipitation reactor. <i>Applied Physics Letters</i> , 2011, 99, 204103.	1.5	17
28	Thermal comparison between ceiling diffusers and fabric ductwork diffusers for green buildings. <i>Energy and Buildings</i> , 2011, 43, 2973-2987.	3.1	27
29	Population, characteristics and kinematics of vortices in a confined rectangular jet with a co-flow. <i>Experiments in Fluids</i> , 2011, 50, 1473-1493.	1.1	8
30	Validation of LES predictions for turbulent flow in a Confined Impinging Jets Reactor. <i>Applied Mathematical Modelling</i> , 2011, 35, 1591-1602.	2.2	37
31	Investigation of the flow field in a three-dimensional Confined Impinging Jets Reactor by means of microPIV and DNS. <i>Chemical Engineering Journal</i> , 2011, 166, 294-305.	6.6	62
32	Visualization of turbulent reactive mixing in a planar microscale confined impinging-jet reactor. <i>Journal of Micromechanics and Microengineering</i> , 2011, 21, 115006.	1.5	8
33	Investigation of passive scalar mixing in a confined rectangular wake using simultaneous PIV and PLIF. <i>Chemical Engineering Science</i> , 2010, 65, 3372-3383.	1.9	13
34	Turbulent precipitation in micromixers: CFD simulation and flow field validation. <i>Chemical Engineering Research and Design</i> , 2010, 88, 1182-1193.	2.7	39
35	Depth of correlation reduction due to out-of-plane shear in microscopic particle image velocimetry. <i>Measurement Science and Technology</i> , 2010, 21, 105406.	1.4	11
36	Directional dependence of depth of correlation due to in-plane fluid shear in microscopic particle image velocimetry. <i>Measurement Science and Technology</i> , 2009, 20, 015402.	1.4	18

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37	Unsteady velocity field measurements at the outlet of an automotive supercharger using particle image velocimetry (PIV). <i>Experimental Thermal and Fluid Science</i> , 2009, 33, 405-423.	1.5	2
38	A microscale multi-inlet vortex nanoprecipitation reactor: Turbulence measurement and simulation. <i>Applied Physics Letters</i> , 2009, 94, 204104.	1.5	51
39	Turbulence in a microscale planar confined impinging-jets reactor. <i>Lab on A Chip</i> , 2009, 9, 1110.	3.1	45
40	Conditional statistics of passive-scalar mixing in a confined wake flow. <i>Physics of Fluids</i> , 2008, 20, 077105.	1.6	3
41	Random error due to Brownian motion in microscopic particle image velocimetry. <i>Measurement Science and Technology</i> , 2007, 18, 1963-1972.	1.4	4
42	Simultaneous velocity and concentration field measurements of passive-scalar mixing in a confined rectangular jet. <i>Experiments in Fluids</i> , 2007, 42, 847-862.	1.1	35
43	A Continuous-Flow Polymerase Chain Reaction Microchip With Regional Velocity Control. <i>Journal of Microelectromechanical Systems</i> , 2006, 15, 223-236.	1.7	61
44	Aspect Ratio Effects on Turbulent and Transitional Flow in Rectangular Microchannels as Measured With MicroPIV. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 305.	0.8	41
45	Turbulent mixing in a confined rectangular wake. <i>Chemical Engineering Science</i> , 2006, 61, 6946-6962.	1.9	27
46	Examination of large-scale structures in turbulent microchannel flow. <i>Experiments in Fluids</i> , 2006, 40, 733-743.	1.1	21
47	MicroPIV measurements of turbulent flow in square microchannels with hydraulic diameters from 200 μ m to 640 μ m. <i>International Journal of Heat and Fluid Flow</i> , 2006, 27, 123-134.	1.1	49
48	The Depth of Correlation in Micro-PIV for High Numerical Aperture and Immersion Objectives. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2006, 128, 883-886.	0.8	50
49	Conditional Statistics for Passive-Scalar Mixing in Confined Turbulent Shear Flows. , 2006, , .		0
50	Turbulent and transitional velocity measurements in a rectangular microchannel using microscopic particle image velocimetry. <i>Experimental Thermal and Fluid Science</i> , 2005, 29, 435-446.	1.5	52
51	Reappearance of azimuthal waves in turbulent Taylor-Couette flow at large aspect ratio. <i>Chemical Engineering Science</i> , 2005, 60, 5555-5568.	1.9	30
52	Investigation of turbulent mixing in a confined planar-jet reactor. <i>AIChE Journal</i> , 2005, 51, 2649-2664.	1.8	64
53	Validation of an analytical solution for depth of correlation in microscopic particle image velocimetry. <i>Measurement Science and Technology</i> , 2004, 15, 318-327.	1.4	89
54	Planar velocity measurements in a weakly compressible mixing layer. <i>Journal of Fluid Mechanics</i> , 2003, 486, 51-77.	1.4	47

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55	Out-of-Plane Motion Effects in Microscopic Particle Image Velocimetry. Journal of Fluids Engineering, Transactions of the ASME, 2003, 125, 895-901.	0.8	45
56	Validation of Analytical Solution for Depth-of-Correlation in Microscopic Particle Image Velocimetry. , 2003, , 559.		0
57	Stochastic Estimation of Large Structures in an Incompressible Mixing Layer. AIAA Journal, 2002, 40, 2431-2438.	1.5	22
58	Measurement volume defined by peak-finding algorithms in cross-correlation particle image velocimetry. Measurement Science and Technology, 2001, 12, N14-N16.	1.4	14
59	Brownian motion and correlation in particle image velocimetry. Optics and Laser Technology, 2000, 32, 621-627.	2.2	110
60	Planar velocity measurements in a weakly compressible mixing layer. , 1999, , .		7