

Masahiro Motosuke

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/938367/publications.pdf>

Version: 2024-02-01

86
papers

460
citations

759055

12
h-index

887953

17
g-index

87
all docs

87
docs citations

87
times ranked

402
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuous sweat lactate monitoring system with integrated screen-printed MgO-templated carbon-lactate oxidase biosensor and microfluidic sweat collector. <i>Electrochimica Acta</i> , 2021, 368, 137620.	2.6	47
2	Noncontact Bubble Manipulation in Microchannel by Using Photothermal Marangoni Effect. <i>Heat Transfer Engineering</i> , 2012, 33, 234-244.	1.2	23
3	Initiation of the Worthington jet on the droplet impact. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	22
4	Noncontact manipulation of microflow by photothermal control of viscous force. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 1005-1011.	1.1	18
5	Stability of platinum nanoparticles supported on surface-treated carbon black. <i>Applied Catalysis B: Environmental</i> , 2016, 189, 219-225.	10.8	18
6	A Noncontact Picolitor Droplet Handling by Photothermal Control of Interfacial Flow. <i>Analytical Sciences</i> , 2016, 32, 49-55.	0.8	17
7	Three-dimensional flow characterization of a square array of multiple circular impinging jets using stereoscopic PIV and heat transfer relation. <i>Journal of Visualization</i> , 2016, 19, 89-101.	1.1	17
8	Oxidation-resistant graphitic surface nanostructure of carbon black developed by ethanol thermal decomposition. <i>Diamond and Related Materials</i> , 2016, 65, 26-31.	1.8	17
9	A burst wave-induced plasma actuator for controlling separated flow over a backward-facing step at low Reynolds numbers. <i>Experimental Thermal and Fluid Science</i> , 2015, 66, 72-78.	1.5	16
10	Heat transfer and fluid flow characteristics of impinging jet using combined device with triangular tabs and synthetic jets. <i>Experimental Thermal and Fluid Science</i> , 2015, 68, 322-329.	1.5	14
11	Concentration-adjustable micromixers using droplet injection into a microchannel. <i>Analyst, The</i> , 2019, 144, 2780-2787.	1.7	14
12	Temperature measurement of microfluids with high temporal resolution by laser-induced fluorescence. <i>Journal of Mechanical Science and Technology</i> , 2009, 23, 1821-1828.	0.7	13
13	Three-dimensional flow velocity and wall shear stress distribution measurement on a micropillar-arrayed surface using astigmatism PTV to understand the influence of microstructures on the flow field. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	1.0	13
14	Improved particle concentration by cascade AC electroosmotic flow. <i>Microfluidics and Nanofluidics</i> , 2013, 14, 1021-1030.	1.0	11
15	Fabrication of micropillar TiO ₂ photocatalyst arrays using nanoparticle-microprinting method. <i>Materials Letters</i> , 2016, 175, 262-265.	1.3	10
16	Difference in vascular response between sirolimus-eluting- and everolimus-eluting stents in ostial left circumflex artery after unprotected left main as observed by optical coherence tomography. <i>International Journal of Cardiology</i> , 2017, 230, 284-292.	0.8	10
17	Experimental Study on Control of an Impinging Jet Heat Transfer Using Triangular Tabs. <i>Journal of Fluid Science and Technology</i> , 2009, 4, 292-303.	0.2	9
18	Behavior of Synthetic Jet in Cross Flow at Low Reynolds Number. <i>Journal of Fluid Science and Technology</i> , 2010, 5, 35-44.	0.2	9

#	ARTICLE	IF	CITATIONS
19	Flow Structures by Synthetic Jets Over a Backward Facing Step in Low Reynolds Number. , 2009, , .		8
20	Particle Accumulation by AC Electroosmosis in Microfluidic Device with Co-Planar Electrodes. Journal of Thermal Science and Technology, 2012, 7, 475-486.	0.6	8
21	Measurement of Dynamically Changing Thermal Diffusivity by the Forced Rayleigh Scattering Method (Measurement of Gelation Process). International Journal of Thermophysics, 2004, 25, 519-531.	1.0	7
22	Vortex Behavior of Vertical and Inclined Synthetic Jets in Cross Flow at Low Reynolds Number. , 2009, , .		7
23	Control of local wetting by microscopic particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 615-620.	2.3	7
24	Fluorescence Anisotropy as a Temperature-Sensing Molecular Probe Using Fluorescein. Micromachines, 2021, 12, 1109.	1.4	7
25	Subsecond Measuring Technique for In-plane Thermal Diffusivity at Local Area by the Forced Rayleigh Scattering Method. International Journal of Thermophysics, 2005, 26, 969-979.	1.0	6
26	Real-Time Sensing of the Thermal Diffusivity for Dynamic Control of Anisotropic Heat Conduction of Liquid Crystals. International Journal of Thermophysics, 2008, 29, 2025-2035.	1.0	6
27	Particle Migration by Optical Scattering Force in Microfluidic System With Light-Absorbing Liquid. Journal of Heat Transfer, 2012, 134, .	1.2	6
28	Simple applications of microparticle transportation by tender optical scattering force. Microfluidics and Nanofluidics, 2015, 18, 549-558.	1.0	6
29	Photochemical migration of liquid column in a glass tube. European Physical Journal: Special Topics, 2017, 226, 1199-1205.	1.2	6
30	Control of Backward Facing Step Flow in Low Reynolds Number (Reattachment Flow Control by) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3 Society of Mechanical Engineers Series B B-hen, 2011, 77, 680-688.	0.2	5
31	Laplace pressure versus Marangoni convection in photothermal manipulation of micro droplet. European Physical Journal: Special Topics, 2017, 226, 1337-1348.	1.2	5
32	Quick Liquid Propagation on a Linear Array of Micropillars. Langmuir, 2019, 35, 9139-9145.	1.6	5
33	Fully-automatic blood-typing chip exploiting bubbles for quick dilution and detection. Biomicrofluidics, 2020, 14, 024111.	1.2	5
34	Droplet motion by Leidenfrost phenomenon on Zn plate surfaces with and without ZnO nanorods. Materials Chemistry and Physics, 2021, 273, 125123.	2.0	5
35	Fluorescence Anisotropy Studies on Bodipy (Pyrromethene 546) Dye as a Novel Thermal Probe. Journal of Fluorescence, 2022, 32, 737-743.	1.3	5
36	Total Temperature Measurement of Laminar Gas Flow at Microtube Outlet: Cooled From the Wall. Heat Transfer Engineering, 2014, 35, 142-149.	1.2	4

#	ARTICLE	IF	CITATIONS
37	A study on backward facing step flow in low Reynolds number manipulated by synthetic jets - Effect of different jet velocities -. Journal of Fluid Science and Technology, 2014, 9, JFST0047-JFST0047.	0.2	4
38	Accumulation mechanism of nanoparticles around photothermally generated surface bubbles. Journal of Nanoparticle Research, 2021, 23, 1.	0.8	4
39	A Backward Facing Step Flow in Low Reynolds Number (Periodic Behaviour in Separation and) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Mechanical Engineers Series B B-hen, 2007, 73, 2498-2504.	0.2	3
40	The Effects of the Synthetic Jet on the Mixing Promotion in Low Reynolds Number. , 2007, , .		3
41	A Study of Periodic Flow Behavior Over Backward Facing Step in Low Reynolds Number. , 2008, , .		3
42	Effect of Jet Shape of Square Array of Multi-Impinging Jets on Heat Transfer. , 2013, , .		3
43	Evaluation of heat dissipation and structural response of a cellular panel as a heat exchanger. Journal of Sandwich Structures and Materials, 2019, 21, 2289-2312.	2.0	3
44	Viscoelastic flow behavior and formation of dead zone around triangle-shaped pillar array in microchannel. Microfluidics and Nanofluidics, 2022, 26, .	1.0	3
45	Efficient nanoparticle focusing utilizing cascade AC electroosmotic flow. Electrophoresis, 0, , .	1.3	3
46	Coupled electrothermal analysis of a micro flow sensor with control circuit using spice. Electronics and Communications in Japan, 2010, 93, 58-64.	0.3	2
47	Control of Backward Facing Step Flow in Low Reynolds Number by Synthetic Jets - Flow Structure in Common-phase and Counter-phase Injection. , 2012, , .		2
48	CFD analysis of strut influence on blood flow in stent-implanted left main coronary artery bifurcation. , 2016, 2016, 3306-3309.		2
49	Microfluidic Droplet Manipulation by Photothermal Interfacial Flow. Transactions of Visualization Soc of Japan, 2016, 36, 8-15.	0.2	2
50	Measurement of time series variation of thermal diffusivity of magnetic fluid under magnetic field by forced Rayleigh scattering method. Journal of Magnetism and Magnetic Materials, 2017, 428, 229-234.	1.0	2
51	Valuation Of Implanted-Stent Impact On Coronary Artery Trifurcation Blood Flow By Using CFD. , 2018, 2018, 3181-3184.		2
52	Study on pressure drop and heat transfer characteristics of sandwich structures with open-cell core. Transactions of the JSME (in Japanese), 2019, 85, 19-00214-19-00214.	0.1	2
53	Temperature sensitivity of BODIPY dye (pyromethene 597) over different linear organic solvents. Japanese Journal of Applied Physics, 2022, 61, 056504.	0.8	2
54	Effects of Co-Rotating Longitudinal Vortices on Turbulent Structures in the Leg of the Horseshoe Vortex. , 2011, , .		1

#	ARTICLE	IF	CITATIONS
73	A Combined Type of a Flow Control Actuator Composed of the Synthetic Jet and Vortex Generator. , 2015, , .		0
74	Flow Visualization Using UVP. Journal of the Visualization Society of Japan, 2016, 36, 6-6.	0.0	0
75	Electric Field-Induced Arrangement of Colloidal Materials in Microfluidic Devices. , 2017, , 297-313.		0
76	A Flow Study of Pulsed Jet Cross-Flow Interaction by Micro Particle Image Velocimetry. , 2006, , .		0
77	Electro Thermal Modeling of the Micro Flow Sensor With Feedback Control Circuit Using SPICE. , 2007, , .		0
78	1705 Flow Dynamics in Configuration of Longitudinal Vortices Downstream of Active Vortex Generators. The Proceedings of the JSME Annual Meeting, 2007, 2007.2, 325-326.	0.0	0
79	Time-Resolved and Micro-Scale Measurement of Thermal Property for Intermolecular Dynamics Using an Infrared Laser. , 2007, , .		0
80	1440 A Control of Microchannel Flow Induced by Locally Heated Fluid Using Laser. The Proceedings of the JSME Annual Meeting, 2007, 2007.2, 79-80.	0.0	0
81	343 Evaluation of Output Characteristics in MEMS-based Mass Flow Sensor Using Different Gases. The Proceedings of the JSME Annual Meeting, 2008, 2008.8, 85-86.	0.0	0
82	344 Temperature Field Measurement of Microfluidics with High Temporal Resolution Using Laser Induced Fluorescence. The Proceedings of the JSME Annual Meeting, 2008, 2008.8, 87-88.	0.0	0
83	Effect of Operation Mode on Static and Dynamic Characteristics of Thermal Micro Flow Sensor. , 2008, , .		0
84	1919 Behavior of Synthetic Jet in Cross Flow at Low Reynolds Number : Three-dimensional Measurement Using Stereo-PIV. The Proceedings of the JSME Annual Meeting, 2008, 2008.2, 237-238.	0.0	0
85	Coupled Electro-Thermal Analysis of the Micro Flow Sensor with Control Circuit using SPICE. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 53-58.	0.0	0
86	S052014 Performance evaluation of burst wave induced plasma actuator. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _S052014-1-_S052014-4.	0.0	0