Masahiro Motosuke

List of Publications by Year
in descending order

86	460	759233 12	888059 17
papers	citations	h-index	g-index

87	87	87	402
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Fluorescence Anisotropy Studies on Bodipy (Pyrromethene 546) Dye as a Novel Thermal Probe. Journal of Fluorescence, 2022, 32, 737-743.	2.5	5
2	Temperature sensitivity of BODIPY dye (pyrromethene 597) over different linear organic solvents. Japanese Journal of Applied Physics, 2022, 61, 056504.	1.5	2
3	Gap Effect on Electric Field Enhancement and Photothermal Conversion in Gold Nanostructures. Micromachines, 2022, 13, 801.	2.9	1
4	Viscoelastic flow behavior and formation of dead zone around triangle-shaped pillar array in microchannel. Microfluidics and Nanofluidics, 2022, 26, .	2.2	3
5	Continuous sweat lactate monitoring system with integrated screen-printed MgO-templated carbon-lactate oxidase biosensor and microfluidic sweat collector. Electrochimica Acta, 2021, 368, 137620.	5.2	47
6	Determining particle depth positions and evaluating dispersion using astigmatism PTV with a neural network. Applied Optics, 2021, 60, 6538.	1.8	1
7	Accumulation mechanism of nanoparticles around photothermally generated surface bubbles. Journal of Nanoparticle Research, 2021, 23, 1.	1.9	4
8	Fluorescence Anisotropy as a Temperature-Sensing Molecular Probe Using Fluorescein. Micromachines, 2021, 12, 1109.	2.9	7
9	Droplet motion by Leidenfrost phenomenon on Zn plate surfaces with and without ZnO nanorods. Materials Chemistry and Physics, 2021, 273, 125123.	4.0	5
10	Fully-automatic blood-typing chip exploiting bubbles for quick dilution and detection. Biomicrofluidics, 2020, 14, 024111.	2.4	5
11	Quick Liquid Propagation on a Linear Array of Micropillars. Langmuir, 2019, 35, 9139-9145.	3.5	5
12	Concentration-adjustable micromixers using droplet injection into a microchannel. Analyst, The, 2019, 144, 2780-2787.	3.5	14
13	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.	3.5	3
14	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.	0.2	2
15	Valuation Of Implanted-Stent Impact On Coronary Artery Trifurcation Blood Flow By Using CFD. , 2018, 2018, 3181-3184.		2
16	Initiation of the Worthington jet on the droplet impact. Applied Physics Letters, 2018, 112, .	3.3	22
17	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. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	13
18	Control of local wetting by microscopic particles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 555, 615-620.	4.7	7

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19	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. International Journal of Cardiology, 2017, 230, 284-292.	1.7	10
20	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.	2.3	2
21	Photochemical migration of liquid column in a glass tube. European Physical Journal: Special Topics, 2017, 226, 1199-1205.	2.6	6
22	Laplace pressure versus Marangoni convection in photothermal manipulation of micro droplet. European Physical Journal: Special Topics, 2017, 226, 1337-1348.	2.6	5
23	Electric Field-Induced Arrangement of Colloidal Materials in Microfluidic Devices. , 2017, , 297-313.		0
24	CFD analysis of strut influence on blood flow in stent-implanted left main coronary artery bifurcation. , 2016, 2016, 3306-3309.		2
25	Stability of platinum nanoparticles supported on surface-treated carbon black. Applied Catalysis B: Environmental, 2016, 189, 219-225.	20.2	18
26	Fabrication of micropillar TiO 2 photocatalyst arrays using nanoparticle-microprinting method. Materials Letters, 2016, 175, 262-265.	2.6	10
27	A Noncontact Picolitor Droplet Handling by Photothermal Control of Interfacial Flow. Analytical Sciences, 2016, 32, 49-55.	1.6	17
28	Microfluidic Droplet Manipulation by Photothermal Interfacial Flow. Transactions of Visualization Soc of Japan, 2016, 36, 8-15.	0.2	2
29	Flow Visualization Using UVP. Journal of the Visualization Society of Japan, 2016, 36, 6-6.	0.0	0
30	Three-dimensional flow characterization of a square array of multiple circular impinging jets using stereoscopic PIV and heat transfer relation. Journal of Visualization, 2016, 19, 89-101.	1.8	17
31	Oxidation-resistant graphitic surface nanostructure of carbon black developed by ethanol thermal decomposition. Diamond and Related Materials, 2016, 65, 26-31.	3.9	17
32	Three-Dimensional Measurement of Near-Wall Velocity in Millimeter Channel by a Single View Imaging. , 2015, , .		1
33	A Combined Type of a Flow Control Actuator Composed of the Synthetic Jet and Vortex Generator. , 2015, , .		0
34	Heat transfer and fluid flow characteristics of impinging jet using combined device with triangular tabs and synthetic jets. Experimental Thermal and Fluid Science, 2015, 68, 322-329.	2.7	14
35	A burst wave-induced plasma actuator for controlling separated flow over a backward-facing step at low Reynolds numbers. Experimental Thermal and Fluid Science, 2015, 66, 72-78.	2.7	16
36	Simple applications of microparticle transportation by tender optical scattering force. Microfluidics and Nanofluidics, 2015, 18, 549-558.	2.2	6

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37	Total Temperature Measurement of Laminar Gas Flow at Microtube Outlet: Cooled From the Wall. Heat Transfer Engineering, 2014, 35, 142-149.	1.9	4
38	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.	0.6	4
39	Improved particle concentration by cascade AC electroosmotic flow. Microfluidics and Nanofluidics, 2013, 14, 1021-1030.	2.2	11
40	Effect of Jet Shape of Square Array of Multi-Impinging Jets on Heat Transfer. , 2013, , .		3
41	Colloidal particle sorting with scattering force via planar waveguide. , 2013, , .		0
42	3D Velocity Measurement by Orthogonal-Plane Micro-PIV for Electrokinetic Enhancement of Surface Reaction. , 2013, , .		0
43	Particle sorting by optical radiation pressure with low energy density. Houille Blanche, 2013, 99, 72-78.	0.3	1
44	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
45	Noncontact Bubble Manipulation in Microchannel by Using Photothermal Marangoni Effect. Heat Transfer Engineering, 2012, 33, 234-244.	1.9	23
46	Photothermal Marangoni Convection for the Usage of Characterized Droplet Manipulation in Microfluidic Chip. , 2012, , .		1
47	Particle Migration by Optical Scattering Force in Microfluidic System With Light-Absorbing Liquid. Journal of Heat Transfer, 2012, 134, .	2.1	6
48	Particle Accumulation by AC Electroosmosis in Microfluidic Device with Co-Planar Electrodes. Journal of Thermal Science and Technology, 2012, 7, 475-486.	1.1	8
49	Control of Backward Facing Step Flow in Low Reynolds Number by Synthetic Jets - Flow Structure in Common-phase and Counter-phase Injection. , 2012, , .		2
50	Effects of Co-Rotating Longitudinal Vortices on Turbulent Structures in the Leg of the Horseshoe Vortex. , 2011, , .		1
51	Control of Backward Facing Step Flow in Low Reynolds Number (Reattachment Flow Control by) Tj ETQq1 1 0.784314 rgBT /Overlock Society of Mechanical Engineers Series B B-hen, 2011, 77, 680-688.	0.2	5
52	The Interaction Between Horseshoe Vortex and Longitudinal Vortices From the Vortex Generators. , 2010, , .		0
53	Behavior of Synthetic Jet in Cross Flow at Low Reynolds Number. Journal of Fluid Science and Technology, 2010, 5, 35-44.	0.6	9
54	Flow Behavior in Microchannel under Optically-Induced Inhomogeneous Viscosity(Fluids) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 67 Td (E Engineers Series B B-hen, 2010, 76, 588-594.	0.2	0

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55	Coupled electrothermal analysis of a micro flow sensor with control circuit using spice. Electronics and Communications in Japan, 2010, 93, 58-64.	0.5	2
56	Noncontact manipulation of microflow by photothermal control of viscous force. International Journal of Heat and Fluid Flow, 2010, 31, 1005-1011.	2.4	18
57	Migration Characteristics of Bubble Manipulated by Photothermal Marangoni Effect(<Special) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 1939-1941.	0.2	0
58	Heat Balance of Micro Hot-Film Sensor Elements Under the Different Gas Operation. , 2009, , .		0
59	Noncontact Bubble Manipulation in Microchannel by Using Photothermal Marangoni Effect. , 2009, , .		0
60	Temperature measurement of microfluids with high temporal resolution by laser-induced fluorescence. Journal of Mechanical Science and Technology, 2009, 23, 1821-1828.	1.5	13
61	Vortex Behavior of Vertical and Inclined Synthetic Jets in Cross Flow at Low Reynolds Number. , 2009, , .		7
62	Flow Structures by Synthetic Jets Over a Backward Facing Step in Low Reynolds Number. , 2009, , .		8
63	Experimental Study on Control of an Impinging Jet Heat Transfer Using Triangular Tabs. Journal of Fluid Science and Technology, 2009, 4, 292-303.	0.6	9
64	Particle Migration by Optical Scattering Force in Microfluidic System With Light-Absorbing Liquid. , 2009, , .		0
65	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.	2.1	6
66	Interaction of Synthetic Jet with Diffuser Separation Flow in Low Reynolds Number. , 2008, , .		0
67	A Study of Periodic Flow Behavior Over Backward Facing Step in Low Reynolds Number. , 2008, , .		3
68	Time-Resolved and Micro-Scale Measurement of Thermal Property for Intermolecular Dynamics Using an Infrared Laser. Journal of Thermal Science and Technology, 2008, 3, 124-132.	1.1	0
69	Local Microflow Control Using Photothermal Viscosity Distribution. , 2008, , .		1
70	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
71	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
72	Effect of Operation Mode on Static and Dynamic Characteristics of Thermal Micro Flow Sensor. , 2008, , .		0

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73	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
74	Coupled Electro-Thermal Analysis of the Micro Flow Sensor with Control Circuit using SPICE. IEEJ Transactions on Sensors and Micromachines, 2008, 128, 53-58.	0.1	0
75	Microflow Behavior of Liquid in the Presence of Laser-Induced Temperature Gradient. , 2007, , 569.		0
76	A Backward Facing Step Flow in Low Reynolds Number (Periodic Behaviour in Separation and) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Mechanical Engineers Series B B-hen, 2007, 73, 2498-2504.	0.2	3
77	The Effects of the Synthetic Jet on the Mixing Promotion in Low Reynolds Number. , 2007, , .		3
78	Electro Thermal Modeling of the Micro Flow Sensor With Feedback Control Circuit Using SPICE. , 2007, , .		0
79	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
80	Time-Resolved and Micro-Scale Measurement of Thermal Property for Intermolecular Dynamics Using an Infrared Laser. , 2007, , .		0
81	Heat Transfer and Flow Characteristics Due to Interaction of Longitudinal Vortices by Vortex Generator Array. , 2007, , .		1
82	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
83	A Flow Study of Pulsed Jet Cross-Flow Interaction by Micro Particle Image Velocimetry. , 2006, , .		0
84	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.	2.1	6
85	Measurement of Dynamically Changing Thermal Diffusivity by the Forced Rayleigh Scattering Method (Measurement of Gelation Process). International Journal of Thermophysics, 2004, 25, 519-531.	2.1	7
86	Efficient nanoparticle focusing utilizing cascade AC electroosmotic flow. Electrophoresis, 0, , .	2.4	3