Tetsuro Tsuji

List of Publications by Year
in descending order

49	387	687363 13	839539 18
papers	citations	h-index	g-index

50	50	50	263
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	One-way flow over uniformly heated U-shaped bodies driven by thermal edge effects. Scientific Reports, 2022, 12, 1929.	3.3	1
2	Inversion of the transverse force on a spinning sphere moving in a rarefied gas. Journal of Fluid Mechanics, 2022, 933, .	3.4	2
3	Optical trapping in micro- and nanoconfinement systems: Role of thermo-fluid dynamics and applications. Journal of Photochemistry and Photobiology C: Photochemistry Reviews, 2022, 52, 100533.	11.6	5
4	Mathematical model of the auditory nerve response to stimulation by a microâ€machined cochlea. International Journal for Numerical Methods in Biomedical Engineering, 2021, , e3430.	2.1	1
5	Synchronized resistive-pulse analysis with flow visualization for single micro- and nanoscale objects driven by optical vortex in double orifice. Scientific Reports, 2021, 11, 9323.	3.3	4
6	Switching between laserâ€induced thermophoresis and thermal convection of liquid suspension in a microgap with variable dimension. Electrophoresis, 2021, 42, 2401-2409.	2.4	6
7	Transient behaviour of a rarefied gas around a sphere caused by impulsive rotation. Journal of Fluid Mechanics, 2021, 909, .	3.4	4
8	A Generalized Slip-Flow Theory for a Slightly Rarefied Gas Flow Induced by Discontinuous Wall Temperature. Springer INdAM Series, 2021, , 327-344.	0.5	0
9	On the motion of slightly rarefied gas induced by a discontinuous surface temperature. Journal of Fluid Mechanics, 2020, 897, .	3.4	5
10	Convection Dynamics Forced by Optical Trapping with a Focused Laser Beam. Journal of Physical Chemistry C, 2020, 124, 8323-8333.	3.1	16
11	Characterisation of the static offset in the travelling wave in the cochlear basal turn. Pflugers Archiv European Journal of Physiology, 2020, 472, 625-635.	2.8	8
12	Effect of hydrodynamic inter-particle interaction on the orbital motion of dielectric nanoparticles driven by an optical vortex. Nanoscale, 2020, 12, 6673-6690.	5.6	13
13	Numerical simulation of micro- and nanoparticles orbital motion driven by an optical vortex. , 2020, , .		0
14	Modeling of single-particle translocation through a low-aspect-ratio nanopore. Journal of Biomechanical Science and Engineering, 2019, 14, 18-00539-18-00539.	0.3	1
15	Opto-thermophoretic separation and trapping of plasmonic nanoparticles. Nanoscale, 2019, 11, 21093-21102.	5.6	23
16	Simultaneous measurement of the oscillation characteristics and electrical voltage output of an artificial cochlear sensory epithelium immersed in a liquid: Theory and experiment. Sensors and Actuators A: Physical, 2019, 295, 414-427.	4.1	5
17	Flow with nanoparticle clustering controlled by optical forces in quartz glass nanoslits. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	4
18	Separation of Nano- and Microparticle Flows Using Thermophoresis in Branched Microfluidic Channels. Micromachines, 2019, 10, 321.	2.9	9

#	Article	IF	Citations
19	Coarse-grained particle dynamics along helical orbit by an optical vortex irradiated in photocurable resins. OSA Continuum, 2019, 2, 400.	1.8	11
20	Dynamic Pattern Formation of Microparticles in a Uniform Flow by an On-Chip Thermophoretic Separation Device. Physical Review Applied, 2018, 9, .	3.8	19
21	Thermophoresis of a Brownian particle driven by inhomogeneous thermal fluctuation. Physica A: Statistical Mechanics and Its Applications, 2018, 493, 467-482.	2.6	5
22	Thermophoretic Manipulation of Micro- and Nanoparticle Flow through a Sudden Contraction in a Microchannel with Near-Infrared Laser Irradiation. Physical Review Applied, 2018, 10, .	3.8	24
23	Quantitative Evaluation of Optical Forces by Single Particle Tracking in Slit-like Microfluidic Channels. Journal of Physical Chemistry C, 2018, 122, 17963-17975.	3.1	18
24	Artificial Cochlear Sensory Epithelium with Functions of Outer Hair Cells Mimicked Using Feedback Electrical Stimuli. Micromachines, 2018, 9, 273.	2.9	14
25	Machine learning and Bayesian optimization for nanoparticle flow control by laser irradiation. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2018, 2018.9, 31pm2PN78.	0.0	0
26	Nanoparticle separation by laser induced thermophoresis in nanochannel. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2018, 2018.9, 01pm1PN144.	0.0	0
27	Negative thermophoresis of nanoparticles interacting with fluids through a purely-repulsive potential. Journal of Physics Condensed Matter, 2017, 29, 475101.	1.8	10
28	Direct observations of thermophoresis in microfluidic systems. Micro and Nano Letters, 2017, 12, 520-525.	1.3	28
29	Filtration of micro particles by laser-induced thermophoresis. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2017, 2017.8, PN-7.	0.0	0
30	Tailoring particle translocation via dielectrophoresis in pore channels. Scientific Reports, 2016, 6, 31670.	3.3	20
31	Molecular dynamics study of force acting on a model nano particle immersed in fluid with temperature gradient: Effect of interaction potential. AIP Conference Proceedings, 2016, , .	0.4	5
32	Effect of Solution Composition on Thermophoresis of Micro Particles. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0540304.	0.0	0
33	Slow approach to steady motion of a concave body in a free-molecular gas. Physical Review E, 2015, 92, 012130.	2.1	3
34	Numerical study on horizontal convection of a rarefied gas over a non-isothermal plane wall. Physics of Fluids, 2015, 27, 067103.	4.0	0
35	Backward clusters, hierarchy and wild sums for a hard sphere system in a low-density regime. Mathematical Models and Methods in Applied Sciences, 2015, 25, 995-1010.	3.3	8
36	OS23-8 A Microfluidic Device for Visualization of Thermophoresis Using In-plane Two Adjacent Plates at Different Temperatures(Thermo-fluid dynamics(2),OS23 Thermo-fluid dynamics,FLUID AND) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 1 Experimental Mechanics Asian Conference on Experimental Mechanics, 2015, 2015.14, 285.	0.0	0

#	Article	IF	Citations
37	28am2-E-2 History effect of drag force acting on a concave body in a free-molecular gas. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2015, 2015.7, _28am2-E-2-_28am2-E-2.	0.0	0
38	Steady flow of highly rarefied gas in half space induced by gravity and non-uniform wall temperature. , 2014, , .		0
39	Decay of a linear pendulum in a collisional gas: Spatially one-dimensional case. Physical Review E, 2014, 89, 052129.	2.1	8
40	Gas motion in a microgap between a stationary plate and a plate oscillating in its normal direction. Microfluidics and Nanofluidics, 2014, 16, 1033-1045.	2.2	15
41	J0550301 Steady Rarefied Gas Flow in Half Space Induced by Gravity and Non-uniform Wall Temperature. The Proceedings of Mechanical Engineering Congress Japan, 2014, 2014, _J0550301-_J0550301-.	0.0	0
42	Moving boundary problems for a rarefied gas: Spatially one-dimensional case. Journal of Computational Physics, 2013, 250, 574-600.	3.8	32
43	Numerical analysis of nonlinear acoustic wave propagation in a rarefied gas. AIP Conference Proceedings, 2012, , .	0.4	3
44	Decay of a Linear Pendulum in a Free-Molecular Gas and in a Special Lorentz Gas. Journal of Statistical Physics, 2012, 146, 620-645.	1.2	15
45	Approach to equilibrium of a rotating sphere in a Stokes flow. Annali Dell'Universita Di Ferrara, 2011, 57, 211-228.	1.3	8
46	Decay of an oscillating plate in a free-molecular gas. , 2011, , .		5
47	Relaxation of a Free-Molecular Gas to Equilibrium Caused by Interaction with Vessel Wall. Journal of Statistical Physics, 2010, 140, 518-543.	1.2	13
48	Approach to steady motion of a plate moving in a free-molecular gas under a constant external force. Physical Review E, 2009, 80, 016309.	2.1	16
49	Moving boundary problems in kinetic theory of gases: Spatially one-dimensional problems. SÃ©minaire Laurent Schwartz â€" EDP Et Applications, 0, , 1-13.	0.0	0