

Koji Takahashi

List of Publications by Year in descending order

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79
papers

2,230
citations

331670

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223800

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79
all docs

79
docs citations

79
times ranked

2613
citing authors

#	ARTICLE	IF	CITATIONS
1	Slip length measurement in rectangular graphene nanochannels with a 3D flow analysis. Carbon, 2022, 189, 162-172.	10.3	10
2	Concurrent thermal conductivity measurement and internal structure observation of individual one-dimensional materials using scanning transmission electron microscopy. Applied Physics Letters, 2022, 120, .	3.3	3
3	Round Robin Study on the Thermal Conductivity/Diffusivity of a Gold Wire with a Diameter of 30 μ m Tested via Five Measurement Methods. Journal of Thermal Science, 2022, 31, 1037-1051.	1.9	9
4	Thermal conductivity measurement of an individual millimeter-long expanded graphite ribbon using a variable-length T-type method. International Journal of Heat and Mass Transfer, 2021, 171, 121115.	4.8	12
5	Reflected Laser Interferometry: A Versatile Tool to Probe Condensation of Low-Surface-Tension Droplets. Langmuir, 2021, 37, 8073-8082.	3.5	6
6	Limited Enhancement of Subatmospheric Boiling on Treated Structured Surfaces With Biphilic Pattern. Journal of Heat Transfer, 2021, 143, .	2.1	5
7	Persistent reduction of boiling incipience of ethanol on biphilic porous textured surfaces. International Journal of Multiphase Flow, 2021, 142, 103739.	3.4	8
8	Mechanistic Insights into Nanobubble Merging Studied Using In Situ Liquid-Phase Electron Microscopy. Langmuir, 2021, 37, 874-881.	3.5	7
9	Dynamic interplay between interfacial nanobubbles: oversaturation promotes anisotropic depinning and bubble coalescence. Physical Chemistry Chemical Physics, 2021, 23, 24652-24660.	2.8	7
10	Pinning in a Contact and Noncontact Manner: Direct Observation of a Three-Phase Contact Line Using Graphene Liquid Cells. Langmuir, 2021, 37, 12271-12277.	3.5	5
11	Thermally induced mass transfer between nanobubbles and micropancakes. International Journal of Heat and Mass Transfer, 2021, 181, 122001.	4.8	5
12	Deterioration of boiling heat transfer on biphilic surfaces under very low pressures. Experimental Thermal and Fluid Science, 2020, 113, 110026.	2.7	14
13	Nanoscale Bubble Dynamics Induced by Damage of Graphene Liquid Cells. ACS Omega, 2020, 5, 11180-11185.	3.5	9
14	Gas molecules sandwiched in hydration layers at graphite/water interfaces. Physical Chemistry Chemical Physics, 2020, 22, 13629-13636.	2.8	15
15	Precursor-Film-Mediated Thermocapillary Motion of Low-Surface-Tension Microdroplets. Langmuir, 2020, 36, 5096-5105.	3.5	6
16	Contact-line behavior in boiling on a heterogeneous surface: Physical insights from diffuse-interface modeling. Physical Review Fluids, 2020, 5, .	2.5	6
17	Zigzag gas phases on holey adsorbed layers. RSC Advances, 2020, 10, 44854-44859.	3.6	3
18	Adsorbed gas layers limit the mobility of micropancakes. Applied Physics Letters, 2019, 115, .	3.3	18

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19	Enhanced Thermoelectric Performance of As-Grown Suspended Graphene Nanoribbons. ACS Nano, 2019, 13, 9182-9189.	14.6	51
20	Modification of thermal transport in an individual carbon nanofiber by focused ion beam irradiation. Carbon, 2019, 153, 539-544.	10.3	7
21	Frequency-domain Raman method to measure thermal diffusivity of one-dimensional microfibers and nanowires. International Journal of Heat and Mass Transfer, 2019, 134, 539-546.	4.8	10
22	Water Confined in Hydrophobic Cup-Stacked Carbon Nanotubes beyond Surface-Tension Dominance. Journal of Physical Chemistry Letters, 2019, 10, 3744-3749.	4.6	17
23	Measurement of thermal contact resistance between individual carbon fibers using a laser-flash Raman mapping method. Carbon, 2019, 141, 92-98.	10.3	44
24	Wettability of AFM tip influences the profile of interfacial nanobubbles. Journal of Applied Physics, 2018, 123, .	2.5	21
25	Superstable Ultrathin Water Film Confined in a Hydrophilized Carbon Nanotube. Nano Letters, 2018, 18, 1869-1874.	9.1	34
26	Unexpected Homogeneous Bubble Nucleation near a Solid-Liquid Interface. Journal of Physical Chemistry C, 2018, 122, 28712-28716.	3.1	7
27	Meniscus Motion and Void Generation Inside Carbon Nanotubes. Journal of Physical Chemistry C, 2018, 122, 21910-21918.	3.1	3
28	Depinning of bubble contact line on a biphilic surface in subatmospheric boiling: Revisiting the theories of bubble departure. International Journal of Heat and Mass Transfer, 2018, 126, 715-720.	4.8	23
29	Heat transfer enhancement of a loop thermosyphon with a hydrophobic spot-coated surface. Journal of Thermal Science and Technology, 2018, 13, JTST0011-JTST0011.	1.1	2
30	Variable-spot-size laser-flash Raman method to measure in-plane and interfacial thermal properties of 2D van der Waals heterostructures. International Journal of Heat and Mass Transfer, 2018, 125, 1230-1239.	4.8	23
31	Effect of dissolved gas on bubble growth on a biphilic surface: A diffuse-interface simulation approach. International Journal of Heat and Mass Transfer, 2018, 126, 816-829.	4.8	4
32	Measurement of Adsorbed Gas Molecules on Graphite Surface by Using Frequency Modulation Atomic Force Microscopy in Liquid. The Proceedings of the Thermal Engineering Conference, 2018, 2018, 0128.	0.0	0
33	Thermal Conductivity Measurement of Suspended Graphene Nanoribbons of 40nm Width. The Proceedings of the Thermal Engineering Conference, 2018, 2018, 0134.	0.0	0
34	Nanoscale pinning effect evaluated from deformed nanobubbles. Journal of Chemical Physics, 2017, 146, 014708.	3.0	28
35	Thermal conductivity of liquid/carbon nanotube core-shell nanocomposites. Journal of Applied Physics, 2017, 121, .	2.5	12
36	Experimental study of thermal rectification in suspended monolayer graphene. Nature Communications, 2017, 8, 15843.	12.8	210

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37	Nanobubble nucleation studied using Fresnel fringes in liquid cell electron microscopy. International Journal of Heat and Mass Transfer, 2017, 108, 1460-1465.	4.8	21
38	Experimental study on thermal conductivity of free-standing fluorinated single-layer graphene. Applied Physics Letters, 2017, 111, .	3.3	15
39	Measurement of specific heat and thermal conductivity of supported and suspended graphene by a comprehensive Raman optothermal method. Nanoscale, 2017, 9, 10784-10793.	5.6	110
40	Comment on "Divergent and Ultrahigh Thermal Conductivity in Millimeter-Long Nanotubes". Physical Review Letters, 2017, 119, 179601.	7.8	22
41	Simultaneous dropwise and filmwise condensation on hydrophilic microstructured surfaces. International Journal of Heat and Mass Transfer, 2017, 114, 187-197.	4.8	51
42	Early Onset of Nucleate Boiling on Gas-covered Bipilic Surfaces. Scientific Reports, 2017, 7, 2036.	3.3	34
43	Simultaneous measurement of electrical and thermal conductivities of suspended monolayer graphene. Journal of Applied Physics, 2016, 119, 244306.	2.5	17
44	Integrative characterization of the thermoelectric performance of an individual multiwalled carbon nanotube. Journal of Applied Physics, 2016, 120, .	2.5	22
45	On the linear dependence of a carbon nanofiber thermal conductivity on wall thickness. AIP Advances, 2016, 6, 115119.	1.3	6
46	Influence of ion beam scattering on the electrical resistivity of platinum hot films. Microelectronic Engineering, 2016, 166, 15-18.	2.4	1
47	Wettability on Inner and Outer Surface of Single Carbon Nanotubes. Langmuir, 2016, 32, 7064-7069.	3.5	10
48	Thermal Transport in an Individual Multi-Walled Carbon Nanotube Defected by Focused Ion Beam Irradiation. Netsu Bussei, 2016, 29, 179-184.	0.1	0
49	In-situ measurement of the heat transport in defect- engineered free-standing single-layer graphene. Scientific Reports, 2016, 6, 21823.	3.3	26
50	Temperature-dependent specific heat of suspended platinum nanofilms at 80-380 K. Chinese Physics B, 2016, 25, 114401.	1.4	2
51	Hydrophilic Domains Enhance Nanobubble Stability. ChemPhysChem, 2016, 17, 1500-1504.	2.1	14
52	Tuning Surface Wettability at the Submicron-Scale: Effect of Focused Ion Beam Irradiation on a Self-Assembled Monolayer. Journal of Physical Chemistry C, 2016, 120, 274-280.	3.1	16
53	A T-type method for characterization of the thermoelectric performance of an individual free-standing single crystal Bi ₂ S ₃ nanowire. Nanoscale, 2016, 8, 2704-2710.	5.6	46
54	Intermittent boiling under reduced pressures on patterned hydrophobic surfaces. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, G0600602.	0.0	0

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55	Dynamic Gas Environmental System Development for in situ Real-time SEM Imaging under Atmospheric Pressure. <i>Microscopy and Microanalysis</i> , 2015, 21, 1701-1702.	0.4	4
56	Temperature dependent thermal conductivity of a suspended submicron graphene ribbon. <i>Journal of Applied Physics</i> , 2015, 117, .	2.5	35
57	Metastable Nanobubbles at the Solid-Liquid Interface Due to Contact Angle Hysteresis. <i>Langmuir</i> , 2015, 31, 982-986.	3.5	20
58	Bubble activation from a hydrophobic spot at a negative surface superheats in subcooled boiling. <i>Applied Thermal Engineering</i> , 2015, 88, 230-236.	6.0	22
59	Study on the Cross Plane Thermal Transport of Polycrystalline Molybdenum Nanofilms by Applying Picosecond Laser Transient Thermoreflectance Method. <i>Journal of Nanomaterials</i> , 2014, 2014, 1-8.	2.7	1
60	Direct evaluation of ballistic phonon transport in a multi-walled carbon nanotube. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	10
61	Droplet Nucleation on a Well-Defined Hydrophilic-Hydrophobic Surface of 10 nm Order Resolution. <i>Langmuir</i> , 2014, 30, 14532-14537.	3.5	44
62	Optical absorptance measurement of an individual multiwall carbon nanotube using a T type thermal probe method. <i>Review of Scientific Instruments</i> , 2013, 84, 104905.	1.3	15
63	Enhanced anisotropic heat conduction in multi-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2013, 113, .	2.5	22
64	Thermal Boundary Conductance between Multi-Walled Carbon Nanotubes. <i>Journal of Thermal Science and Technology</i> , 2012, 7, 190-198.	1.1	11
65	Non-Fourier heat conduction study for steady states in metallic nanofilms. <i>Science Bulletin</i> , 2012, 57, 3239-3243.	1.7	4
66	Thermal boundary resistance between the end of an individual carbon nanotube and a Au surface. <i>Nanotechnology</i> , 2011, 22, 315702.	2.6	24
67	Experimental study on the influences of grain boundary scattering on the charge and heat transport in gold and platinum nanofilms. <i>Heat and Mass Transfer</i> , 2011, 47, 893-898.	2.1	33
68	Thermal rectification of asymmetrically-defective materials. <i>Journal of Mechanical Science and Technology</i> , 2011, 25, 27-32.	1.5	8
69	Measurement of the Thermal Conductivity of Nanodeposited Material. <i>International Journal of Thermophysics</i> , 2009, 30, 1864-1874.	2.1	4
70	Experimental and numerical studies on ballistic phonon transport of cup-stacked carbon nanofiber. <i>Physica B: Condensed Matter</i> , 2009, 404, 2431-2434.	2.7	10
71	Direct Growth of Bent Carbon Nanotubes on Surface Engineered Sapphire. <i>Journal of Physical Chemistry C</i> , 2009, 113, 13121-13124.	3.1	11
72	D210 Study of Joule-Thomson micro-cooler. <i>The Proceedings of the National Symposium on Power and Energy Systems</i> , 2008, 2008.13, 425-426.	0.0	0

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73	Experimental study on thermal characteristics of suspended platinum nanofilm sensors. International Journal of Heat and Mass Transfer, 2006, 49, 3879-3883.	4.8	22
74	Measuring the Thermal Conductivity of a Single Carbon Nanotube. Physical Review Letters, 2005, 95, 065502.	7.8	734
75	Thermal and electrical conductivity of a suspended platinum nanofilm. Applied Physics Letters, 2005, 86, 171912.	3.3	126
76	Voltammetric Response of a .GAMMA-Irradiated Poly(N-vinylcaprolactam) Modified Graphite Electrode to Catechol and Ascorbic Acid.. Analytical Sciences, 1999, 15, 181-184.	1.6	5
77	Roles of Interfacial Functions in Analytical Chemistry. Retention behavior of hydroxybenzene derivatives on polymer resin immobilized with macrocyclic polyamines.. Bunseki Kagaku, 1998, 47, 1111-1115.	0.2	0
78	Separation Behavior of Anions on ODS Modified with Phthalocyanine Cobalt(III) Complex.. Analytical Sciences, 1997, 13, 195-198.	1.6	8
79	New Developments in Capillary Electrophoresis. Development and Improvement of Capillary Electrophoresis. Separation of catechol derivatives by capillary electrophoresis using a polyvinylpyrrolidone solution.. Bunseki Kagaku, 1997, 46, 461-466.	0.2	0