

Junnosuke Okajima

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

1,933
citations

279487

23
h-index

288905

40
g-index

84
all docs

84
docs citations

84
times ranked

1544
citing authors

#	ARTICLE	IF	CITATIONS
1	Production behavior and numerical analysis for 2017 methane hydrate extraction test of Shenhu, South China Sea. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 53, 55-66.	2.1	176
2	Enhancement of gas production from methane hydrate reservoirs by the combination of hydraulic fracturing and depressurization method. <i>Energy Conversion and Management</i> , 2019, 184, 194-204.	4.4	133
3	Construction and simulation of reservoir scale layered model for production and utilization of methane hydrate: The case of Nankai Trough Japan. <i>Energy</i> , 2018, 143, 128-140.	4.5	96
4	Numerical analysis of gas production from layered methane hydrate reservoirs by depressurization. <i>Energy</i> , 2019, 166, 1106-1119.	4.5	88
5	Photothermal therapy of tumors in lymph nodes using gold nanorods and near-infrared laser light. <i>Journal of Controlled Release</i> , 2013, 172, 879-884.	4.8	78
6	Dimensionless solutions and general characteristics of bioheat transfer during thermal therapy. <i>Journal of Thermal Biology</i> , 2009, 34, 377-384.	1.1	62
7	Numerical analysis of gas production from reservoir-scale methane hydrate by depressurization with a horizontal well: The effect of permeability anisotropy. <i>Marine and Petroleum Geology</i> , 2019, 102, 817-828.	1.5	55
8	Controlling the radiative properties of cool black-color coatings pigmented with CuO submicron particles. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 132, 90-98.	1.1	53
9	Development of phase-shifting interferometry for measurement of isothermal diffusion coefficients in binary solutions. <i>Optics and Lasers in Engineering</i> , 2012, 50, 1287-1296.	2.0	52
10	Evaluation of optical properties and thermal performances of different greenhouse covering materials. <i>Solar Energy</i> , 2013, 96, 21-32.	2.9	51
11	Investigation on the dissociation flow of methane hydrate cores: Numerical modeling and experimental verification. <i>Chemical Engineering Science</i> , 2017, 163, 31-43.	1.9	48
12	Photothermal therapy of tumors in lymph nodes using gold nanorods and near-infrared laser light with controlled surface cooling. <i>Nano Research</i> , 2015, 8, 3842-3852.	5.8	43
13	Numerical analysis of core-scale methane hydrate dissociation dynamics and multiphase flow in porous media. <i>Chemical Engineering Science</i> , 2016, 153, 221-235.	1.9	43
14	Production strategy for oceanic methane hydrate extraction and power generation with Carbon Capture and Storage (CCS). <i>Energy</i> , 2017, 126, 256-272.	4.5	40
15	Development of guarded hot plate apparatus utilizing Peltier module for precise thermal conductivity measurement of insulation materials. <i>International Journal of Heat and Mass Transfer</i> , 2015, 91, 1157-1166.	2.5	39
16	Influence of radiation effect on turbulent natural convection in cubic cavity at normal temperature atmospheric gas. <i>International Journal of Heat and Mass Transfer</i> , 2017, 104, 456-466.	2.5	38
17	Development and estimation of a novel cryoprobe utilizing the Peltier effect for precise and safe cryosurgery. <i>Cryobiology</i> , 2009, 59, 275-284.	0.3	37
18	Evaluation of uniformity of solar illumination on the receiver of compound parabolic concentrator (CPC). <i>Solar Energy</i> , 2016, 132, 150-164.	2.9	36

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19	Numerical investigation of near-critical fluid convective flow mixing in microchannels. <i>Chemical Engineering Science</i> , 2013, 97, 67-80.	1.9	34
20	Non-invasive measurement of effective thermal conductivity of human skin with a guard-heated thermistor probe. <i>International Journal of Heat and Mass Transfer</i> , 2018, 126, 625-635.	2.5	33
21	Proposal for a low CO ₂ emission power generation system utilizing oceanic methane hydrate. <i>Energy</i> , 2012, 47, 340-347.	4.5	32
22	A novel treatment for metastatic lymph nodes using lymphatic delivery and photothermal therapy. <i>Scientific Reports</i> , 2017, 7, 45459.	1.6	32
23	Thermal relaxation and critical instability of near-critical fluid microchannel flow. <i>Physical Review E</i> , 2013, 87, 043016.	0.8	30
24	Evaluation of rate-determining step of methane hydrate decomposition by measurement of transient heat and mass transfer near solid-gas interface. <i>International Journal of Heat and Mass Transfer</i> , 2020, 149, 119191.	2.5	24
25	Numerical simulation study of cavitation in liquefied hydrogen. <i>Cryogenics</i> , 2019, 101, 29-35.	0.9	23
26	Theoretical and experimental study of solar thermal performance of different greenhouse cladding materials. <i>Solar Energy</i> , 2014, 107, 314-327.	2.9	21
27	Abnormal microchannel convective fluid flow near the gas-liquid critical point. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 398, 10-24.	1.2	21
28	High-speed phase-shifting interferometry using triangular prism for time-resolved temperature measurement. <i>Applied Optics</i> , 2015, 54, 6297.	2.1	21
29	Assessment of a solar energy powered regenerative organic Rankine cycle using compound parabolic involute concentrator. <i>Energy Conversion and Management</i> , 2019, 184, 661-670.	4.4	21
30	Truncation effects in an evacuated compound parabolic and involute concentrator with experimental and analytical investigations. <i>Applied Thermal Engineering</i> , 2018, 138, 433-445.	3.0	20
31	Development of quasi common path phase-shifting interferometer for measurement of natural convection fields. <i>International Journal of Heat and Mass Transfer</i> , 2012, 55, 7460-7470.	2.5	18
32	Large eddy simulation of turbulent natural convection between symmetrically heated vertical parallel plates for water. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 870-877.	2.5	18
33	First-in-human clinical study of novel technique to diagnose malignant melanoma via thermal conductivity measurements. <i>Scientific Reports</i> , 2019, 9, 3853.	1.6	18
34	Experimental evaluation of thermal radiation effects on natural convection with a Rayleigh number of 108×10^9 by using an interferometer. <i>International Journal of Heat and Mass Transfer</i> , 2019, 132, 1239-1249.	2.5	18
35	Modeling skin cooling using optical windows and cryogenics during laser induced hyperthermia in a multilayer vascularized tissue. <i>Applied Thermal Engineering</i> , 2015, 89, 28-35.	3.0	17
36	Artificial chameleon skin that controls spectral radiation: Development of Chameleon Cool Coating (C3). <i>Scientific Reports</i> , 2018, 8, 1196.	1.6	17

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37	Numerical simulation of liquid film formation and its heat transfer through vapor bubble expansion in a microchannel. <i>International Journal of Heat and Mass Transfer</i> , 2019, 136, 1241-1249.	2.5	17
38	Three-step phase-shifting imaging ellipsometry to measure nanofilm thickness profiles. <i>Optics and Lasers in Engineering</i> , 2019, 112, 145-150.	2.0	16
39	24-gauge ultrafine cryoprobe with diameter of 550 μ m and its cooling performance. <i>Cryobiology</i> , 2014, 69, 411-418.	0.3	15
40	Minimizing Tissue Surface Overheating Using Convective Cooling During Laser-Induced Thermal Therapy: A Numerical Study. <i>Journal of Thermal Science and Engineering Applications</i> , 2016, 8, .	0.8	15
41	Numerical simulation of stability behaviors and heat transfer characteristics for near-critical fluid microchannel flows. <i>Energy Conversion and Management</i> , 2016, 110, 407-418.	4.4	15
42	Modification of Energy Equation for Homogeneous Cavitation Simulation With Thermodynamic Effect. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019, 141, .	0.8	15
43	Control of thermal barrier performance by optimized nanoparticle size and experimental evaluation using a solar simulator. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2014, 149, 81-89.	1.1	14
44	Quantitative visualization of boundary layers by developing quasi-common-path phase-shifting interferometer. <i>Experimental Thermal and Fluid Science</i> , 2015, 60, 231-240.	1.5	14
45	Visualization Study of Supercritical Fluid Convection and Heat Transfer in Weightlessness by Interferometry: A Brief Review. <i>Microgravity Science and Technology</i> , 2017, 29, 275-295.	0.7	14
46	Performance evaluation of a nonimaging solar concentrator in terms of optical and thermal characteristics. <i>Environmental Progress and Sustainable Energy</i> , 2016, 35, 553-564.	1.3	13
47	Measurement of the Molecular Mass Dependence of the Mass Diffusion Coefficient in Protein Aqueous Solutions. <i>Defect and Diffusion Forum</i> , 0, 326-328, 452-458.	0.4	12
48	Interferometric measurement and numerical comparisons of supersonic heat transfer flows in microchannel. <i>Applied Thermal Engineering</i> , 2016, 109, 582-590.	3.0	12
49	Measurement of transient heat transfer in vicinity of gas-liquid interface using high-speed phase-shifting interferometer. <i>International Communications in Heat and Mass Transfer</i> , 2017, 89, 57-63.	2.9	12
50	Treatment of tumor in lymph nodes using near-infrared laser light-activated thermosensitive liposome-encapsulated doxorubicin and gold nanorods. <i>Journal of Biophotonics</i> , 2017, 10, 1676-1682.	1.1	11
51	Coherent regime and far-to-near-field transition for radiative heat transfer. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 187, 310-321.	1.1	11
52	Radiative control through greenhouse covering materials using pigmented coatings. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2019, 231, 29-36.	1.1	11
53	Effects of concentration of participating media on turbulent natural convection in cubic cavity. <i>Applied Thermal Engineering</i> , 2018, 131, 141-149.	3.0	10
54	Development of a guard-heated thermistor probe for the accurate measurement of surface temperature. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 2283-2292.	2.5	9

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55	Boiling heat transfer in small channel for development of ultrafine cryoprobe. International Journal of Heat and Fluid Flow, 2010, 31, 1012-1018.	1.1	8
56	Thermal therapy and evaluation by a precise temperature control device. Heat Transfer - Asian Research, 2011, 40, 114-124.	2.8	8
57	Analysis of Evaporative Heat Transfer by Expansion Bubble in a Microchannel for High Heat Flux Cooling. Journal of Thermal Science and Technology, 2012, 7, 740-752.	0.6	8
58	Estimation of temperature distribution in biological tissue by using solutions of bioheat transfer equation. Heat Transfer - Asian Research, 2008, 37, 374-386.	2.8	7
59	Development and Clinical Application of a Precise Temperature-Control Device as an Alternate for Conventional Moxibustion Therapy. Evidence-based Complementary and Alternative Medicine, 2012, 1-6.	0.5	7
60	Evaluation of the efficiency of dual compound parabolic and involute concentrator. Energy for Sustainable Development, 2016, 32, 1-13.	2.0	7
61	Cooling Characteristics of Ultrafine Cryoprobe Utilizing Convective Boiling Heat Transfer in Microchannel. , 2010, , .		6
62	Experimental evaluation of optimization method for developing ultraviolet barrier coatings. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 133, 454-463.	1.1	6
63	Study of methane hydrate as a future energy resource: low emission extraction and power generation. IOP Conference Series: Earth and Environmental Science, 2016, 40, 012074.	0.2	5
64	Generalized solution and estimation method for cooling performance of downscaled cryoprobe. Journal of Thermal Biology, 2019, 82, 213-221.	1.1	5
65	Coupled Photon and Heat Transport Simulation inside Biological Tissue for Laser Therapy. Journal of Thermal Science and Technology, 2009, 4, 314-323.	0.6	4
66	Design and Feasibility Analysis of Microscale Bumped Channel With Supersonic Flow for Electronics Cooling. Journal of Microelectromechanical Systems, 2016, 25, 1033-1040.	1.7	4
67	Study of Supersonic Micro-Channel for Cooling Electronic Devices. , 2013, , .		3
68	Preliminary experiment of supersonic micro-channel gas flow visualization by using Interferometer. Journal of Fluid Science and Technology, 2014, 9, JFST0069-JFST0069.	0.2	3
69	Evaluation of Cooling Performance of Ultrafine Cryoprobes: Effect of Probe Structure on Thermodynamic Properties of Refrigerant. International Journal of Air-Conditioning and Refrigeration, 2018, 26, 1850020.	0.8	3
70	Measurement of concentration dependency of diffusion coefficient in ethanol-water solution under different storage condition. Journal of Fluid Science and Technology, 2018, 13, JFST0030-JFST0030.	0.2	3
71	Visualization of methane hydrate decomposition interface and analyses of decomposition rate and interfacial configuration. Physics of Fluids, 2020, 32, .	1.6	3
72	Evaluation of forced convective boiling heat transfer with layered parallel microchannels. Journal of Thermal Science and Technology, 2020, 15, JTST0006-JTST0006.	0.6	3

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73	The Effect of Dispersed State to Control of Radiative Properties of Coatings Pigmented with Nanoparticles. Journal of Thermal Science and Technology, 2012, 7, 364-378.	0.6	2
74	Inverse Method for Estimating Local Thermal Diffusivity of Biomaterials. Journal of Thermal Science and Technology, 2013, 8, 395-406.	0.6	2
75	Estimation Method for Thermal Conductivity of Soft Materials and Liquids by Inverse Analysis. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2013, 79, 2264-2274.	0.2	2
76	Possibility for controlling global warming by launching nanoparticles into the stratosphere. Journal of Thermal Science and Technology, 2015, 10, JTST0022-JTST0022.	0.6	2
77	Film flow thickness along the outer surface of rotating cones. European Journal of Mechanics, B/Fluids, 2018, 68, 39-44.	1.2	2
78	Visualization of the flow pattern in methane hydrate reservoir model. Journal of Fluid Science and Technology, 2018, 13, JFST0028-JFST0028.	0.2	2
79	Development of Various Cryoprobes Using Heat Transfer Control. , 2012, , 211-248.		2
80	Occurrence characteristics of gaseous cavitation in oil shear flow. Physics of Fluids, 2022, 34, 023313.	1.6	2
81	Estimation and measurement of permeability inside methane hydrate mimicking porous media. Journal of Fluid Science and Technology, 2016, 11, JFST0031-JFST0031.	0.2	1
82	LARGE EDDY SIMULATION OF THE DIFFUSION PROCESS OF NUTRIENT-RICH UP-WELLED SEAWATER. Frontiers in Heat and Mass Transfer, 2013, 4, .	0.1	1
83	An Investigation of Concentration Dependency of Mass Diffusion Coefficients in Multi-Component Diffusion. , 2010, , .		0
84	Experimental and Numerical Evaluation of Small-Scale Cryosurgery Using Ultrafine Cryoprobe. , 2013, , .		0