Shin-ichi Sakamoto

List of Publications by Year
in descending order

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48	462	840776	794594
papers	citations	11 h-index	19 g-index

48	48	48	128
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Improvement of Cooling Effect of Loop-Tube-Type Thermoacoustic Cooling System Applying Phase Adjuster. Japanese Journal of Applied Physics, 2007, 46, 4951.	1.5	48
2	The experimental studies of thermoacoustic cooler. Ultrasonics, 2004, 42, 53-56.	3.9	46
3	Effect of Inner Diameter Change of Phase Adjuster on Heat-to-Sound Energy Conversion Efficiency in Loop-Tube-Type Thermoacoustic Prime Mover. Japanese Journal of Applied Physics, 2008, 47, 4223.	1.5	39
4	Experimental study on resonance frequency of loop-tube-type thermoacoustic cooling system. Acoustical Science and Technology, 2006, 27, 361-365.	0.5	28
5	Generation Mechanism of Heat Flows near the Stack as a Prime Mover in a Thermoacoustic Cooling System. Japanese Journal of Applied Physics, 2004, 43, 2751-2753.	1.5	25
6	Reduction in Temperature Difference of Prime Mover Stack in Loop-Tube-Type Thermoacoustic Cooling System by Applying Phase Adjuster. Japanese Journal of Applied Physics, 2008, 47, 3776-3780.	1.5	23
7	Study on Thermoacoustic Cooling System Using a Resonance Tube to Induce One-Wavelength Mode Resonance. Japanese Journal of Applied Physics, 2007, 46, 4413-4416.	1.5	17
8	Fundamental Study for the Solution of Thermoacoustic Phenomenon Using Numerical Calculation: Relationship between the Stack Installation Position and Heat Flow. Japanese Journal of Applied Physics, 2012, 51, 07GE01.	1.5	17
9	Numerical analysis of the effect of local diameter reduction on the critical temperature of thermoacoustic oscillations in a looped tube. Japanese Journal of Applied Physics, 2014, 53, 07KE13.	1.5	16
10	Miniaturization of the Loop-Tube-Type Thermoacoustic Cooling System: Effect of the Installation Position of Heat Pump and Working Gas in the Tube. Japanese Journal of Applied Physics, 2010, 49, 07HE17.	1.5	14
11	Fabrication and characterization of Cu₂O, ZnO and ITO thin films toward oxide thin film solar cell by mist chemical vapor deposition method. Physica Status Solidi C: Current Topics in Solid State Physics, 2014, 11, 1237-1239.	0.8	13
12	Classifying Dysphagic Swallowing Sounds with Support Vector Machines. Healthcare (Switzerland), 2020, 8, 103.	2.0	12
13	Fundamental Study for the Solution of Thermoacoustic Phenomenon Using Numerical Calculation: Relationship between the Stack Installation Position and Heat Flow. Japanese Journal of Applied Physics, 2012, 51, 07GE01.	1.5	11
14	Control of self-excitation mode in thermoacoustic system using heat phase adjuster. Japanese Journal of Applied Physics, 2016, 55, 07KE14.	1.5	11
15	A Quantitative Method to Measure Skin Thickness in Leg Edema in Pregnant Women Using B-Scan Portable Ultrasonography: A Comparison Between Obese and Non-Obese Women. Medical Science Monitor, 2019, 25, 1-9.	1.1	11
16	Miniaturization of Thermoacoustic Cooling System Considering Energy Conversion Efficiency Estimated Using Specific Parameter. Japanese Journal of Applied Physics, 2008, 47, 4239-4241.	1.5	10
17	Development of parallel thermoacoustic engine: Evaluations of onset temperature ratio and thermal efficiency. Acoustical Science and Technology, 2015, 36, 149-154.	0.5	10
18	Effect of the relative installation position of two enlarged prime movers on the onset temperature in loop-tube-type multistage thermoacoustic system. Japanese Journal of Applied Physics, 2015, 54, 07HE11.	1.5	10

#	Article	IF	Citations
19	Relationship between Quality Value and Temperature Ratio for Step-Shape Thermoacoustic System. Japanese Journal of Applied Physics, 2013, 52, 07HE06.	1.5	9
20	Step-type thermoacoustic system saturated with water vapor: Study for stabilization of low-temperature driving. Japanese Journal of Applied Physics, 2017, 56, 07JE12.	1.5	9
21	Development and Themes of Diagnostic and Treatment Procedures for Secondary Leg Lymphedema in Patients with Gynecologic Cancers. Healthcare (Switzerland), 2019, 7, 101.	2.0	9
22	Relation between Acoustic Impedance and Sound Intensity Amplification in a Stack of Standing-Wave Thermoacoustic Prime Mover. Japanese Journal of Applied Physics, 2012, 51, 07GE02.	1.5	8
23	Study on the setting position of a prime mover in the coaxial-type thermoacoustic cooling system: Comparison with the straight-tube-type thermoacoustic system. Japanese Journal of Applied Physics, 2018, 57, 07LE14.	1.5	8
24	Effect of Copper Mesh at Interface between Stack and Heat Source in Thermoacoustic Cooling System. Japanese Journal of Applied Physics, 2008, 47, 4235-4238.	1.5	7
25	Study of the low-temperature driving of a thermoacoustic system: comparison of temperature distributions in the stack with and without water supply. Japanese Journal of Applied Physics, 2019, 58, SGGD13.	1.5	6
26	Fundamental study for a working mechanism of Phase Adjuster set on thermoacoustic cooling system. , 2012, , .		5
27	Measurement of heat flow caused by a standing-wave component generated by a thermoacoustic phenomenon. AIP Advances, 2019, 9, .	1.3	4
28	Energy conversion in the thermoacoustic system using a stack wetted with water. Japanese Journal of Applied Physics, 2021, 60, SDDD05.	1.5	4
29	Study on the thermoacoustic system using moisturized stackâ€"energy generation ratio of air and water vapor during system operation. Japanese Journal of Applied Physics, 2020, 59, 114501.	1.5	4
30	Relation between Acoustic Impedance and Sound Intensity Amplification in a Stack of Standing-Wave Thermoacoustic Prime Mover. Japanese Journal of Applied Physics, 2012, 51, 07GE02.	1.5	4
31	A Large-Size Thermoacoustic Cooling System for a Practical Use (Study on Effect of Cross-Section) Tj ETQq1 1 0.784314 rgBT /Overlo Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1021-1025.	0.2	3
32	Influence of acoustic impedance in a locally hot region on a thermoacoustic system. Japanese Journal of Applied Physics, 2019, 58, SGGD16.	1.5	3
33	Controlling of loop-tube type thermoacoustic system using heat phase adjuster examination of the control mechanism using a physical model of the heat phase adjuster. Japanese Journal of Applied Physics, 2020, 59, SKKD04.	1.5	3
34	Effect of temperature distribution of thermal buffer tube on onset temperature in a straight-tube-type thermoacoustic prime mover. Japanese Journal of Applied Physics, 2017, 56, 07JE09.	1.5	2
35	Influence of local inner diameter changes on the onset temperature and the energy conversion efficiency of a loop-tube-type thermoacoustic system. Japanese Journal of Applied Physics, 2018, 57, 07LE01.	1.5	2
36	Influence of internal heating of stack on the work flow generation in standing wave thermoacoustic system. Japanese Journal of Applied Physics, 2019, 58, SGGD06.	1.5	2

#	Article	IF	Citations
37	Resonance mode control by superposing external sound on the sound in standing-wave type thermoacoustic system. Japanese Journal of Applied Physics, 2020, 59, SKKD14.	1.5	2
38	Prototype 29 m long loop-tube-type thermoacoustic prime mover. Japanese Journal of Applied Physics, 2020, 59, SKKD05.	1.5	2
39	Detection of Swallowing Times Using a Commercial RGB-D Camera. , 2019, , .		1
40	Resonance control of coaxial-type thermoacoustic system by an additional stack. Japanese Journal of Applied Physics, 2020, 59, SKKD10.	1.5	1
41	Study on energy conversion in travelling wave type thermoacoustic system investigation on temperature distribution in the stack. Japanese Journal of Applied Physics, 2020, 59, SKKD06.	1.5	1
42	Resonance control by setting a phase adjuster or expanding phase adjuster for improving the performance of coaxial-type thermoacoustic system. Japanese Journal of Applied Physics, 2021, 60, SDDD02.	1.5	1
43	Study of the reduction of the onset temperature in a loop-tube-type thermoacoustic prime mover using Conical Phase Adjuster.- Based study on the installation position and onset temperature of Conical Phase Adjuster -. Japanese Journal of Applied Physics, 0, , .	1.5	1
44	A prototype of small-size and self-oscillate thermoacoustic system. , 2009, , .		0
45	New method to increase the energy conversion efficiency of thermoacoustic engine. AIP Conference Proceedings, 2015, , .	0.4	0
46	Fundamental study of a large-thermoacoustic system - Effect of cross-sectional-area changes in a loop tube upon onset temperature. Proceedings of Meetings on Acoustics, 2019, , .	0.3	0
47	Mechanism of the heat exchange promotion by superimposing the external sound wave in standing-wave thermoacoustic system. Japanese Journal of Applied Physics, 0, , .	1.5	0
48	Effect of an external sound superimposed on the self-excited oscillation in a loop-tube thermoacoustic system. Japanese Journal of Applied Physics, 2022, 61, SG1024.	1.5	0