

# Shin-ichi Sakamoto

## List of Publications by Year in descending order

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48  
papers

462  
citations

840776

11  
h-index

794594

19  
g-index

48  
all docs

48  
docs citations

48  
times ranked

128  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | 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         |
| 2  | Energy conversion in the thermoacoustic system using a stack wetted with water. Japanese Journal of Applied Physics, 2021, 60, SDDD05.   | 1.5 | 4         |
| 3  | 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         |
| 4  | Resonance control of coaxial-type thermoacoustic system by an additional stack. Japanese Journal of Applied Physics, 2020, 59, SKKD10.   | 1.5 | 1         |
| 5  | 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         |
| 6  | 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         |
| 7  | 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         |
| 8  | Prototype 29 m long loop-tube-type thermoacoustic prime mover. Japanese Journal of Applied Physics, 2020, 59, SKKD05.  | 1.5 | 2         |
| 9  | Classifying Dysphagic Swallowing Sounds with Support Vector Machines. Healthcare (Switzerland), 2020, 8, 103.  | 2.0 | 12        |
| 10 | Study on the thermoacoustic system using moisturized stack energy generation ratio of air and water vapor during system operation. Japanese Journal of Applied Physics, 2020, 59, 114501.                                    | 1.5 | 4         |
| 11 | Influence of acoustic impedance in a locally hot region on a thermoacoustic system. Japanese Journal of Applied Physics, 2019, 58, SGGD16.   | 1.5 | 3         |
| 12 | 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         |
| 13 | 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         |
| 14 | 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         |
| 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 | Detection of Swallowing Times Using a Commercial RGB-D Camera. , 2019, , .   |     | 1         |
| 17 | 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         |
| 18 | Measurement of heat flow caused by a standing-wave component generated by a thermoacoustic phenomenon. AIP Advances, 2019, 9, .  | 1.3 | 4         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | 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         |
| 20 | 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         |
| 21 | 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         |
| 22 | 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         |
| 23 | Control of self-excitation mode in thermoacoustic system using heat phase adjuster. Japanese Journal of Applied Physics, 2016, 55, 07KE14.   | 1.5 | 11        |
| 24 | New method to increase the energy conversion efficiency of thermoacoustic engine. AIP Conference Proceedings, 2015, , .  | 0.4 | 0         |
| 25 | Development of parallel thermoacoustic engine: Evaluations of onset temperature ratio and thermal efficiency. Acoustical Science and Technology, 2015, 36, 149-154.  | 0.5 | 10        |
| 26 | 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        |
| 27 | Fabrication and characterization of Cu <sub>2</sub> O, 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        |
| 28 | 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        |
| 29 | Relationship between Quality Value and Temperature Ratio for Step-Shape Thermoacoustic System. Japanese Journal of Applied Physics, 2013, 52, 07HE06.  | 1.5 | 9         |
| 30 | 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        |
| 31 | 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         |
| 32 | Fundamental study for a working mechanism of Phase Adjuster set on thermoacoustic cooling system. , 2012, , .  |     | 5         |
| 33 | 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        |
| 34 | 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         |
| 35 | A Large-Size Thermoacoustic Cooling System for a Practical Use (Study on Effect of Cross-Section) Tj ETQq1 1 0.784314 rgBT /Overlook<br>Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1021-1025.         | 0.2 | 3         |
| 36 | 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        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | A prototype of small-size and self-oscillate thermoacoustic system. , 2009, , .   |     | 0         |
| 38 | 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        |
| 39 | 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        |
| 40 | 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         |
| 41 | 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        |
| 42 | 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        |
| 43 | 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        |
| 44 | Experimental study on resonance frequency of loop-tube-type thermoacoustic cooling system. Acoustical Science and Technology, 2006, 27, 361-365.  | 0.5 | 28        |
| 45 | 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        |
| 46 | The experimental studies of thermoacoustic cooler. Ultrasonics, 2004, 42, 53-56.  | 3.9 | 46        |
| 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 | 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         |