

Shuji Tanaka

List of Publications by Year in descending order

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36
papers

847
citations

623734

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552781

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all docs

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docs citations

36
times ranked

658
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | In vitro blood flow in a rectangular PDMS microchannel: experimental observations using a confocal micro-PIV system. <i>Biomedical Microdevices</i> , 2008, 10, 153-167. | 2.8 | 168 |
| 2 | Experimental verification of the feasibility of a 100 W class micro-scale gas turbine at an impeller diameter of 10 mm. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, S254-S261. | 2.6 | 75 |
| 3 | Test of B/Ti multilayer reactive igniters for a micro solid rocket array thruster. <i>Sensors and Actuators A: Physical</i> , 2008, 144, 361-366. | 4.1 | 64 |
| 4 | Wafer-level hermetic MEMS packaging by anodic bonding and its reliability issues. <i>Microelectronics Reliability</i> , 2014, 54, 875-881. | 1.7 | 64 |
| 5 | MEMS-Based Solid Propellant Rocket Array Thruster with Electrical Feedthroughs.. <i>Transactions of the Japan Society for Aeronautical and Space Sciences</i> , 2003, 46, 47-51. | 0.7 | 57 |
| 6 | A micro fuel reformer integrated with a combustor and a microchannel evaporator. <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, S191-S197. | 2.6 | 46 |
| 7 | MEMS-Based Polymer Electrolyte Fuel Cell. <i>Electrochemistry</i> , 2002, 70, 924-927. | 1.4 | 44 |
| 8 | Fabrication of novel MEMS-based polymer electrolyte fuel cell architectures with catalytic electrodes supported on porous SiO ₂ . <i>Journal of Micromechanics and Microengineering</i> , 2006, 16, 505-511. | 2.6 | 44 |
| 9 | Wafer-level hermetic thermo-compression bonding using electroplated gold sealing frame planarized by fly-cutting. <i>Journal of Micromechanics and Microengineering</i> , 2017, 27, 015029. | 2.6 | 41 |
| 10 | Axisymmetric polydimethylsiloxane microchannels for <i>in vitro</i> hemodynamic studies. <i>Biofabrication</i> , 2009, 1, 035005. | 7.1 | 38 |
| 11 | Development of high-speed micro-gas bearings for three-dimensional micro-turbo machines. <i>Journal of Micromechanics and Microengineering</i> , 2005, 15, S222-S227. | 2.6 | 37 |
| 12 | Turbo test rig with hydroinertia air bearings for a palmtop gas turbine. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1449-1454. | 2.6 | 27 |
| 13 | Wafer-level hermetic packaging technology for MEMS using anodically-bondable LTCC wafer. , 2011, , . | | 24 |
| 14 | Laterally vibrating MEMS resonant vacuum sensor based on cavity-SOI process for evaluation of wide range of sealed cavity pressure. <i>Microsystem Technologies</i> , 2019, 25, 487-497. | 2.0 | 21 |
| 15 | Fabrication and high-speed characterization of SU-8 shrouded two-dimensional microimpellers. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, S230-S236. | 2.6 | 20 |
| 16 | MEMS-Based Fuel Reformer with Suspended Membrane Structure. <i>IEEJ Transactions on Sensors and Micromachines</i> , 2003, 123, 346-350. | 0.1 | 12 |
| 17 | Hydroinertia Gas Bearing System to Achieve 470m/s Tip Speed of 10mm-Diameter Impellers. <i>Journal of Tribology</i> , 2007, 129, 655-659. | 1.9 | 11 |
| 18 | Vacuum test of a micro-solid propellant rocket array thruster. <i>IEICE Electronics Express</i> , 2004, 1, 222-227. | 0.8 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Versatile wafer-level hermetic packaging technology using anodically-bondable LTCC wafer with compliant porous gold bumps spontaneously formed in wet-etched cavities. , 2012, , . | | 9 |
| 20 | Wafer-level vacuum sealing using AgAg thermocompression bonding after fly-cut planarization. Sensors and Actuators A: Physical, 2017, 261, 210-218. | 4.1 | 8 |
| 21 | Comprehensive study on wafer-level vacuum packaging using anodically-bondable LTCC wafer and thin film getter. , 2015, , . | | 5 |
| 22 | Design of High Power Electrostatic Motor and Generator Using Electrets. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 331-339. | 0.1 | 4 |
| 23 | Fuel cells and their components based on microsystem technology. Wiley Interdisciplinary Reviews: Energy and Environment, 2013, 2, 350-362. | 4.1 | 4 |
| 24 | Bonding-Based Wafer-Level Vacuum Packaging Using Atomic Hydrogen Pre-Treated Cu Bonding Frames. Micromachines, 2018, 9, 181. | 2.9 | 4 |
| 25 | Wafer-level vacuum packaging for hetero-integration by thermo-compression bonding using planarized-electroplated gold bumps. , 2016, , . | | 2 |
| 26 | Metal bonding-based hermetic wafer-level MEMS packaging technology using in-plane feedthrough: Hermeticity and high frequency characteristics of thick gold film feedthrough. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2019, 206, 44-53. | 0.4 | 2 |
| 27 | Hydrogen Supply Using Borohydride and Prototyping of a Miniature Fuel Cell by Sand Blasting. IEEJ Transactions on Sensors and Micromachines, 2003, 123, 340-345. | 0.1 | 2 |
| 28 | Development of silicon wafer packaging technology for deep UV LED. Electrical Engineering in Japan (English Translation of Denki Gakkai Ronbunshi), 2021, 214, 62-68. | 0.4 | 2 |
| 29 | DUV-LED packaging using high density TSV in silicon cavity and laser-glass-frit-bonded UV transmitting glass cap. Sensors and Actuators A: Physical, 2022, 344, 113700. | 4.1 | 2 |
| 30 | Power MEMS. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2003, 54, 908-914. | 0.2 | 1 |
| 31 | MEMS-BASED FUEL CELL FOR PORTABLE MEDICAL APPLICATIONS. , 2006, , . | | 0 |
| 32 | Current Status of Miniature Gas Turbine Generators : Summary of Achievements and Problems(<Special Issue>The 1st Symposium on Micro-Nano Engineering). Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2010, 76, 1896-1898. | 0.2 | 0 |
| 33 | Silicon Carbide Micromachining And Micromachined Gas Turbines. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2000, 2000, 92-97. | 0.0 | 0 |
| 34 | F-1322 Miniature Thermoelectric Generator Using Catalytic Combustion. The Proceedings of the JSME Annual Meeting, 2001, IV.01.1, 269-270. | 0.0 | 0 |
| 35 | A5 Micromachining Technology and Power MEMS. The Proceedings of the Space Engineering Conference, 2002, 2002.10, 19-24. | 0.1 | 0 |
| 36 | Silicon Micro-Fuel Cells. The Proceedings of the Conference on Information Intelligence and Precision Equipment IIP, 2002, 2002, 153-156. | 0.0 | 0 |