Yuji Suzuki

List of Publications by Year
in descending order

133	2,303	279701	233338
papers	citations	23 h-index	45 g-index

134	134	134	1807
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancing output power of rotational electret energy harvester by synchronized switch harvesting on inductor. Journal of Intelligent Material Systems and Structures, 2022, 33, 183-195.	1.4	2
2	High-temperature monolithic SiGe thermoelectric device directly heated by catalytic combustion. Applied Physics Letters, 2022, 120, .	1.5	6
3	A discrete dielectrophoresis device for the separation of malariaâ€infected cells. Electrophoresis, 2022, 43, 1347-1356.	1.3	4
4	A Spider-Web Design for Decreasing Eigen-Frequency With Increasing Amplitude in a PE/ME Composite Energy Convertor. IEEE Transactions on Industrial Electronics, 2021, 68, 5396-5404.	5.2	4
5	Quantitative evaluation of wall chemical effect in hydrogen flame using two-photon absorption LIF. Proceedings of the Combustion Institute, 2021, 38, 2361-2370.	2.4	7
6	Development of Combustor/Heat Exchanger-Integrated Thermoelectric Power Generation System for Autonomous Robots. Journal of the Robotics Society of Japan, 2021, 39, 120-124.	0.0	2
7	Discovery of polymer electret material via de novo molecule generation and functional group enrichment analysis. Applied Physics Letters, 2021, 118, .	1.5	12
8	Ignition characteristics of premixed cool flames on a heated wall. Combustion and Flame, 2021, 231, 111476.	2.8	7
9	Developing Self-powered High Performance Sensors: Part II - Preliminary Study On PE-ME Coupling In A Vibration Energy Convertor. , 2020, , .		2
10	Solid-State Electron Affinity Analysis of Amorphous Fluorinated Polymer Electret. Journal of Physical Chemistry B, 2020, 124, 10507-10513.	1.2	8
11	Study on the discrete dielectrophoresis for particleâ€“cell separation. Electrophoresis, 2020, 41, 991-1001.	1.3	17
12	Development of Synchronous Electric Charge Extraction Circuit for Rotational Electret Energy Harvester. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2020, 2020.11, 26A3-MN2-1.	0.0	0
13	Solid-state Analysis Based on Polarizable Continuum Model for Amorphous Fluorinated Polymer Electret. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2020, 2020.11, 26A3-MN1-5.	0.0	1
14	DME/Oxygen wall-stabilized premixed cool flame. Proceedings of the Combustion Institute, 2019, 37, 1749-1756.	2.4	11
15	Wall chemical effect of metal surfaces on DME/air cool flame in a micro flow reactor. Proceedings of the Combustion Institute, 2019, 37, 5655-5662.	2.4	15
16	Effects of the cell and triangular microwell size on the cell-trapping efficacy and specificity. Journal of Mechanical Science and Technology, 2019, 33, 5571-5580.	0.7	2
17	Development of Flexible Wireless Wall Temperature Sensor for Combustion Studies. , 2019, 3, 1-4.		2
18	Dual-Stage-Electrode-Enhanced Efficient SSHI for Rotational Electret Energy Harvester. , 2019, , .		4

#	Article	IF	Citations
19	Development of A High-performance Amorphous Fluorinated Polymer Electret Based on Quantum Chemical Analysis. Journal of Physics: Conference Series, 2019, 1407, 012031.	0.3	7
20	Deep Electrode and Parylene E-Based Capacitive VOC Detector for Micro Gas Chromatograph Application. , 2019, , .		0
21	Evaluation of H-atom adsorption on wall surfaces with a plasma molecular beam scattering technique. Proceedings of the Combustion Institute, 2019, 37, 5569-5576.	2.4	9
22	Electrowetting-Dominated Instability of Cassie Droplets on Superlyophobic Pillared Surfaces. Langmuir, 2019, 35, 2013-2022.	1.6	4
23	Improved Capacitance Model Involving Fringing Effects for Electret-Based Rotational Energy Harvesting Devices. IEEE Transactions on Electron Devices, 2018, 65, 1597-1603.	1.6	22
24	H-TALIF measurement for wall radical quenching modelling in microscale combustion. Journal of Physics: Conference Series, 2018, 1052, 012040.	0.3	3
25	Investigation of wall chemical effect using PLIF measurement of OH radical generated by pulsed electric discharge. Combustion and Flame, 2018, 196, 255-264.	2.8	9
26	Soft X-ray-charged multilayered piezoelectret with embedded electrode for push-button energy harvesting. , 2018, , .		0
27	Effect of end group of amorphous perfluoro-polymer electrets on electron trapping. Science and Technology of Advanced Materials, 2018, 19, 486-494.	2.8	25
28	Low-profile rotational electret generator using print circuit board for energy harvesting from arm swing. , 2018, , .		20
29	Design and analysis of micro thermal switch using the near-field effect for space applications. International Journal of Thermal Sciences, 2018, 132, 161-167.	2.6	7
30	MEMS electret energy harvester with embedded bistable electrostatic spring for broadband response. Journal of Micromechanics and Microengineering, 2018, 28, 104001.	1.5	26
31	Effect of vessel geometry on hemodynamics stress in pancreatic arcade aneurysms. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2018, 2018.30, 2F16.	0.0	0
32	Electrostatic cloaking of surface structure for dynamic wetting. Science Advances, 2017, 3, e1602202.	4.7	12
33	Cylinder Wall Temperature Measurement in the Optical Engine Using a Flexible Wireless Sensor. The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2017, 2017.9, A203.	0.1	1
34	MEMS comb-drive electret energy harvester charged after packaging. , 2016, , .		2
35	Liquid-crystal-enhanced electrostatic vibration generator. , 2016, , .		5
36	Electric instability of cassie droplets on super-lyophobic pillar surface: Pull-in versus electrowetting. , 2016, , .		1

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37	Study on the influences of reduction temperature on nickel-yttria-stabilized zirconia solid oxide fuel cell anode using nickel oxide-film electrode. Journal of Power Sources, 2016, 328, 377-384.	4.0	10
38	Adjoint-based shape optimization of fin geometry for heat transfer enhancement in solidification problem. Journal of Thermal Science and Technology, 2016, 11, JTST0040-JTST0040.	0.6	2
39	Surface structure determines dynamic wetting. Scientific Reports, 2015, 5, 8474.	1.6	54
40	Active control of coaxial jet mixing with manipulation of primary vortical structures by arrayed micro flap actuators. Journal of Turbulence, 2015, 16, 411-441.	0.5	2
41	Liquid-tolerant electret using super-lyophobic pillar surface. , 2015, , .		4
42	IN-plane gap-closing mems vibration electret energy harvester on thick box layer. , 2015, , .		8
43	Radical quenching of metal wall surface in a methane-air premixed flame. Combustion and Flame, 2015, 162, 4036-4045.	2.8	44
44	Parylene-based active micro space radiator with thermal contact switch. Applied Physics Letters, 2014, 104, .	1.5	6
45	MEMS vibration electret energy harvester with combined electrodes. , 2014, , .		18
46	Micropit surfaces designed for accelerating osteogenic differentiation of murine mesenchymal stem cells via enhancing focal adhesion and actin polymerization. Biomaterials, 2014, 35, 2245-2252.	5.7	67
47	All-polymer soft-X-ray-charged piezoelectret with embedded PEDOT electrode. , 2013, , .		1
48	Effect of wall surface reaction on a methane-air premixed flame in narrow channels with different wall materials. Proceedings of the Combustion Institute, 2013, 34, 3395-3402.	2.4	79
49	Facile and versatile replication of high-performance superlyophobic surfaces on curable substrates using elastomer molds. , 2013, , .		1
50	X-shaped-spring enhanced MEMS electret generator for energy harvesting. , 2013, , .		18
51	All-polymer high-aspect-ratio spring with embedded electrode. , 2013, , .		1
52	5AM2-C-3 Development of MEMS Vibration Energy Harvester with Soft-X-ray-charged Vertical Electrets. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2013, 2013.5, 5-6.	0.0	0
53	6PM3-PMN-010 Evaluation of RF Sensor Module with Vibration Electret Energy Harvester. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2013, 2013.5, 185-186.	0.0	0
54	Trench-filled cellular parylene electret for piezoelectric transducer. Applied Physics Letters, 2012, 100, .	1.5	57

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55	Electret charging method based on soft X-ray photoionization for MEMS transducers. IEEE Transactions on Dielectrics and Electrical Insulation, 2012, 19, 1291-1298.	1.8	57
56	Liquid Dielectrophoresis on Electret: A Novel Approach Towards CMOS-Driven Digital Microfludics. Journal of Adhesion Science and Technology, 2012, 26, 2025-2045.	1.4	7
57	P-OS4-3 Evaluation of Power Management Circuit for Electret Energy Harvester. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2012, 2012.4, 275-276.	0.0	0
58	OS4-1-6 Electret-based MEMS energy harvesting device with improved parasitic capacitance. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2012, 2012.4, 101-102.	0.0	0
59	F222007 Micro Power Generation for High-added-value Energy Source. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _F222007-1-_F222007-4.	0.0	0
60	OS4-1-3 Development of electret charging method based on soft X-ray photoionization and its application to MEMS electret power generator. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2012, 2012.4, 95-96.	0.0	0
61	High-speed electret charging using vacuum UV photoionization [Reprint]. IEEE Electrical Insulation Magazine, 2011, 27, 62-64.	1.1	1
62	High-speed electret charging using vacuum UV photoionization. Applied Physics Letters, 2011, 98, .	1.5	23
63	Electrostatically-driven active space radiator using near-field thermal radiation. , 2011, , .		0
64	Recent progress in MEMS electret generator for energy harvesting. IEEJ Transactions on Electrical and Electronic Engineering, 2011, 6, 101-111.	0.8	330
65	Active Control of Swirling Coaxial Jet Mixing with Manipulation of Large-Scale Vortical Structures. Flow, Turbulence and Combustion, 2011, 86, 399-418.	1.4	18
66	Macromol. Biosci. 7/2011. Macromolecular Bioscience, 2011, 11, .	2.1	0
67	Quenching mechanism study of oscillating flame in micro channels using phase-locked OH-PLIF. Proceedings of the Combustion Institute, 2011, 33, 3267-3273.	2.4	43
68	Nano-cluster-enhanced high-performance perfluoro-polymer electrets for energy harvesting. Journal of Micromechanics and Microengineering, 2011, 21, 125016.	1.5	80
69	D131 High-Speed Transient Temperature Control Using Adjoint-Based Optimal Control Scheme. The Proceedings of the Thermal Engineering Conference, 2011, 2011, 91-92.	0.0	0
70	3-3 Development of Battery-less Sensor-node Using Vibration-driven Electret Generator. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2011, 2011.3, 27-28.	0.0	1
71	MP-22 Development of Vibration-driven MEMS Energy Harvester with Vacuum UV-Charged Vertical Electrets. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2011, 2011.3, 111-112.	0.0	0
72	MP-21 Electret Charging Method Based on X-ray Photoionization for MEMS Power Generator. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2011, 2011.3, 109-110.	0.0	0

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73	Optimal Shape Design of Compact Heat Exchangers Based on Adjoint Analysis of Momentum and Heat Transfer. Journal of Thermal Science and Technology, 2010, 5, 24-35.	0.6	14
74	Development of Vibration-Driven MEMS Electret Power Generator for Energy Harvesting Application(<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, 1887-1889.	0.2	0
75	Conversion Efficiency of Micro-Plasma Actuator for Flow Control(<Special Issue>The 1st Symposium) Tj ETQq1 1 0.784314 rgBT /Ove of Mechanical Engineers, Part C, 2010, 76, 1914-1916.	0.2	1
76	High-density antibody-immobilized surface for adhesion-based cell separation. , 2010, , .		0
77	A silicon microcavity selective emitter with smooth surfaces for thermophotovoltaic power generation. Journal of Micromechanics and Microengineering, 2010, 20, 104006.	1.5	10
78	A MEMS electret generator with electrostatic levitation for vibration-driven energy-harvesting applications. Journal of Micromechanics and Microengineering, 2010, 20, 104002.	1.5	251
79	Large-amplitude MEMS electret generator with nonlinear spring. , 2010, , .		38
80	Secondary-flow-induced label-free continuous cell sorting using antibody-immobilized micro oblique grooves. , 2010, , .		1
81	MNM-P9-3 Label-Free Continuous Micro Cell Sorting Using Specific Wall Adhesion And Secondary Flow. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2010, 2010.2, 127-128.	0.0	0
82	F105 Efficiency Prediction of Thermophotovoltaic with Metal-coated Silicon Microcavity. The Proceedings of the National Symposium on Power and Energy Systems, 2010, 2010.15, 211-212.	0.0	0
83	MNM-5B-2 Development of MEMS Electret Generator with Nonlinear Spring for Broadband Environmental Vibration. The Proceedings of the Symposium on Micro-Nano Science and Technology, 2010, 2010.2, 209-210.	0.0	0
84	Effect of nonlinear external circuit on electrostatic damping force of micro electret generator. , 2009, , .		13
85	High-temperature micro catalytic combustor with Pd/nano-porous alumina. Proceedings of the Combustion Institute, 2009, 32, 3019-3026.	2.4	29
86	Experimental study of micro-scale premixed flame in quartz channels. Proceedings of the Combustion Institute, 2009, 32, 3083-3090.	2.4	66
87	Label-Free Continuous Micro Cell Sorter with Antibody-Immobilized Oblique Grooves. , 2009, , .		1
88	Microelectromechanical Systemsâ€“Based Feedback Control of Turbulence for Skin Friction Reduction. Annual Review of Fluid Mechanics, 2009, 41, 231-251.	10.8	147
89	Mechanical Response Evaluation of High-Thermally-Stable-Grade Parylene Spring. , 2009, , .		2
90	E113 Development of High-temperature-operated Micro Catalytic Combustor for Thermophotovoltaic Power Generation System. The Proceedings of the National Symposium on Power and Energy Systems, 2009, 2009.14, 151-152.	0.0	0

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91	The development of a high-performance perfluorinated polymer electret and its application to micro power generation. Journal of Micromechanics and Microengineering, 2008, 18, 104011.	1.5	221
92	Micro power generator with high-performace polymer electret. , 2008, , .		0
93	Electrostatic droplet manipulation using electret as a voltage source. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	1
94	Development of high-performance purfluorinated polymer electret. , 2008, , .		0
95	Non-contact electrostatic micro-bearing using polymer electret. Proceedings of the IEEE International Conference on Micro Electro Mechanical Systems (MEMS), 2008, , .	0.0	4
96	Adhesion-Based Cell Sorter With Antibody-Coated Amino-Functionalized-Parylene Surface. Journal of Microelectromechanical Systems, 2008, 17, 611-622.	1.7	26
97	High Performance Recuperator With Oblique Wavy Walls. Journal of Heat Transfer, 2008, 130, .	1.2	8
98	Energy Harvesting from Vibration Using Polymer Electret. , 2008, , .		3
99	Drag Reduction of Turbulence Air Channel Flow with Distributed Micro Sensors and Actuators. Journal of Fluid Science and Technology, 2008, 3, 137-148.	0.2	23
100	D208 Basic Study of Selective Emitter Using Surface Micro Cavities. The Proceedings of the National Symposium on Power and Energy Systems, 2008, 2008.13, 419-420.	0.0	0
101	335 Heat Transfer Characteristics of Two Phase Flow in a Micro Tube. The Proceedings of the JSME Annual Meeting, 2008, 2008.8, 69-70.	0.0	0
102	Microelectrostrictive Actuator With Large Out-of-Plane Deformation for Flow-Control Application. Journal of Microelectromechanical Systems, 2007, 16, 753-764.	1.7	46
103	Temperature Measurement with a Conditional Two-line OH-PLIF Technique in an Actively Controlled Coaxial Jet Flame. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 1678-1686.	0.2	4
104	Selective Emitter with Two-dimensional Surface Microstructures Revisited. AIP Conference Proceedings, 2007, , .	0.3	0
105	Optimal Shape Design of Compact Heat Exchanger Based on Adjoint Analysis of Momentum and Heat Transfer. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2007, 73, 1670-1677.	0.2	0
106	Adhesion-based cell sorter with antibody-immobilized functionalized-parylene surface. , 2007, , .		1
107	Electromechanical Modeling of Micro Electret Generator for Energy Harvesting. , 2007, , .		17
108	OS1-6 Evaluation of Micro Catalytic Combustor for Thermophotovoltaic Power Generation System. The Proceedings of the National Symposium on Power and Energy Systems, 2007, 2007.12, 49-50.	0.0	0

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109	Evaluation of Lamination Micro Mixer for Micro Immunomagnetic Cell Sorter. , 2006, , .		0
110	Evaluation of Feedback Control System for Wall Turbulence with Micro Sensors and Actuators. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2006, 72, 568-575.	0.2	0
111	Development of a micro catalytic combustor using high-precision ceramic tape casting. Journal of Micromechanics and Microengineering, 2006, 16, S198-S205.	1.5	36
112	OS1-2 Development of Micro-Electret Generator Using Amorphous Perfluoropolymer. The Proceedings of the National Symposium on Power and Energy Systems, 2006, 2006.11, 23-24.	0.0	0
113	A Lamination Micro Mixer for .MU.-Immunomagnetic Cell Sorter. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2005, 48, 425-435.	0.3	24
114	Active Control of Lifted Flames with Arrayed Micro Actuators. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2005, 71, 191-199.	0.2	4
115	Friction drag reduction achievable by near-wall turbulence manipulation at high Reynolds numbers. Physics of Fluids, 2005, 17, 011702-011702-4.	1.6	68
116	OS1-02 Study on Micro-scale Ceramic Catalytic Combustor with Embedded Heat Exchange Channels. The Proceedings of the National Symposium on Power and Energy Systems, 2005, 2005.10, 9-10.	0.0	0
117	3606 Development of Micro Ejector for Butane Catalytic Combustor. The Proceedings of the JSME Annual Meeting, 2005, 2005.3, 249-250.	0.0	0
118	F153 Performance Assessment of Oblique-Wave Heat Exchangers with Different Aspect Ratio. The Proceedings of the Thermal Engineering Conference, 2005, 2005, 249-250.	0.0	0
119	Development of Micro Catalytic Combustor with Pt/Al2O3 Thin Films. JSME International Journal Series B, 2004, 47, 522-527.	0.3	25
120	Active Control of Coaxial Jet Mixing with Arrayed Micro Actuators. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 1417-1424.	0.2	5
121	Heat Transfer and Fluid Flow Characteristics of Recuperators with Oblique Wavy Walls. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 2604-2611.	0.2	1
122	Optimal Thermal Design of Micro Hot-film Wall Shear Stress Sensor.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2004, 70, 38-45.	0.2	1
123	Evaluation of Micro Catalytic Combustor Using Tape-casting Ceramic Structure. The Proceedings of the National Symposium on Power and Energy Systems, 2004, 2004.9, 29-30.	0.0	0
124	Active Control of Coaxial Air Jet with Arrayed Micro Actuators. The Proceedings of the JSME Annual Meeting, 2003, 2003.2, 147-148.	0.0	0
125	Optimal Shape Design of Recuperators with Oblique Wavy Walls. The Proceedings of the Thermal Engineering Conference, 2003, 2003, 445-446.	0.0	0
126	Numerical Simulation of Flow Induced by a Micro-Jet Actuator. The Proceedings of the Thermal Engineering Conference, 2003, 2003, 443-444.	0.0	0

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127	Development of feedback control system based on genetic algorithm for wall turbulence. The Proceedings of the JSME Annual Meeting, 2002, 2002.7, 37-38.	0.0	1
128	E220 Optimal Design of Micro Bare-Tube Heat Exchanger for Electronic Equipment Cooling. Proceedings of Thermal Engineering Conference, 2001, 2001, 555-556.	0.0	0
129	C213 Active Control of Diffusion Flame with Arrayed Micro Actuators. Proceedings of Thermal Engineering Conference, 2001, 2001, 451-452.	0.0	0
130	G215 Development of Active Feedback Control System for Wall Turbulence Using Micro Devices. Proceedings of Thermal Engineering Conference, 2001, 2001, 633-634.	0.0	0
131	K-1309 Active Control of Rount Jet with Arrayed Actuators. The Proceedings of the JSME Annual Meeting, 2001, II.01.1, 127-130.	0.0	0
132	Title is missing!. Flow, Turbulence and Combustion, 2000, 63, 415-442.	1.4	12
133	Design and Evaluation of Micro Hot-film Shear Stress Sensor. The Proceedings of the JSME Annual Meeting, 2000, 2000.1, 723-724.	0.0	0