Shigehiko Kaneko

List of Publications by Year
in descending order

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87	517	759055 12	752573 20
papers	citations	h-index	g-index

88	88	88	243
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Power Balance Simulator to Examine Business Continuity in Hospital Facilities Due to Power Outages in a Disaster. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	1
2	Extraction of apex beat waveform from acoustic pulse wave by sound sensing system using stochastic resonance. Scientific Reports, 2021, 11, 13711.	1.6	2
3	Recurrent probabilistic neural network-based short-term prediction for acute hypotension and ventricular fibrillation. Scientific Reports, 2020, 10, 11970.	1.6	9
4	Model-based Control of Premixed Diesel Combustion. Transactions of the Society of Instrument and Control Engineers, 2020, 56, 176-186.	0.1	0
5	Design of Combustion Control System Based on Adaptive Output Feedback for Premixed Diesel Combustion. IFAC-PapersOnLine, 2019, 52, 165-170.	0.5	3
6	Multi-objective optimization to determine installation capacity of distributed power generation equipment considering energy-resilience against disasters. Energy Procedia, 2019, 158, 6538-6543.	1.8	12
7	Model-based control system for advanced diesel combustion. IFAC-PapersOnLine, 2019, 52, 171-177.	0.5	11
8	Multiple-input multiple-output control of diesel combustion using a control-oriented model. International Journal of Engine Research, 2019, 20, 1005-1016.	1.4	12
9	Unconstrained Vital Sign Monitoring System Using an Aortic Pulse Wave Sensor. Scientific Reports, 2019, 9, 17475.	1.6	6
10	Simple combustion model for a diesel engine with multiple fuel injections. International Journal of Engine Research, 2019, 20, 167-180.	1.4	25
11	Combustion and emission characteristics of multiple fuel injections on a dual fuel engine. Transactions of the JSME (in Japanese), 2019, 85, 18-00363-18-00363.	0.1	1
12	Combination of multiple combustion modes in a gas engine system using dedicated EGR. Transactions of the JSME (in Japanese), 2019, 85, 18-00354-18-00354.	0.1	0
13	Model-based Control of Premixed Combustion in Diesel Engine with 4-stage Fuel Injections. Transactions of the Society of Instrument and Control Engineers, 2019, 55, 226-234.	0.1	0
14	System design to reduce disaster risks by installing distributed power resources. Multiscale and Multidisciplinary Modeling, Experiments and Design, 2018, 1, 49-56.	0.9	1
15	Control simulation of an HCCI engine with a discrete model. Transactions of the JSME (in Japanese), 2018, 84, 17-00325-17-00325.	0.1	2
16	Evaluation of damping effect of perforated plate on the first resonant wave height of liquid sloshing under pitching excitation utilized by CFD. Transactions of the JSME (in Japanese), 2018, 84, 17-00507-17-00507.	0.1	0
17	Examination of oscillation frequency for combustion oscillation considering acoustic boundary conditions. Transactions of the JSME (in Japanese), 2018, 84, 17-00514-17-00514.	0.1	0
18	Model-based control of diesel engines with multiple fuel injections. International Journal of Engine Research, 2018, 19, 257-265.	1.4	14

#	Article	IF	Citations
19	Study on Model-Based Control for HCCI Engine. IFAC-PapersOnLine, 2018, 51, 290-296.	0.5	6
20	Model-Based Control System for Air Path and Premixed Combustion of Diesel Engine. IFAC-PapersOnLine, 2018, 51, 522-528.	0.5	3
21	Modeling of a Cardiovascular System to Investigate Factors Affecting Hypertension. , 2018, , .		1
22	Effects of the multi diesel injection on natural-gas dual fuel engine. Transactions of the JSME (in) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	0.1	2
23	Development of the mathematical model for the prediction of friction loss in turbocharger bearing components. Transactions of the JSME (in Japanese), 2018, 84, 18-00127-18-00127.	0.1	0
24	Sloshing in a Horizontal Cylindrical Tank Subjected to Pitching Excitation and Damping Effects by Perforated Plates. Journal of Pressure Vessel Technology, Transactions of the ASME, 2017, 139, .	0.4	8
25	Proposal of a decision scheme for installing a cogeneration system considering disaster risks. Applied Thermal Engineering, 2017, 114, 1414-1423.	3.0	7
26	Influence of mock reformed gas by over-rich SI combustion on HCCI combustion fuelled by methane. Transactions of the JSME (in Japanese), 2017, 83, 16-00391-16-00391.	0.1	1
27	Study on a Control-Oriented Model of Boosted HCCI Engine and Control Simulation. The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2017, 2017.9, C111.	0.1	1
28	NOx Prediction Model for Diesel Engine Control. The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2017, 2017.9, C108.	0.1	0
29	Prediction Model of Mechanical Loss in Turbocharger. The Proceedings of the International Symposium on Diagnostics and Modeling of Combustion in Internal Combustion Engines, 2017, 2017.9, A109.	0.1	0
30	Diesel combustion model for on-board application. International Journal of Engine Research, 2016, 17, 748-765.	1.4	31
31	Tailoring of the bearing stiffness to enhance the performance of gas-lubricated bump-type foil thrust bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2016, 230, 541-560.	1.0	16
32	Control-oriented Model and Simulation of HCCI Engine with Exhaust Rebreathing System. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0710103.	0.0	1
33	Experiment of Model-Based Control of a Diesel Engine. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0710104.	0.0	1
34	Development of quasi-3-dimensional dynamic model for free standing spent fuel racks. The Proceedings of the Dynamics & Design Conference, 2016, 2016, 621.	0.0	0
35	Construction of Mathematical Model of a Flexible Structure for Human Dummy. The Proceedings of the Dynamics & Design Conference, 2016, 2016, 620.	0.0	0
36	Combustion instabilities under hydrogen-rich condition. The Proceedings of Mechanical Engineering Congress Japan, 2016, 2016, J0910402.	0.0	1

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37	Performance characteristics of gas-lubricated bump-type foil thrust bearing. Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology, 2015, 229, 746-762.	1.0	12
38	3B15 A study on introduction of gas engine to micro-grid with genetic algorithm(The 12th) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Tc the Motion and Vibration Control, 2014, 2014.12, _3B15-1_-_3B15-12_.	0.0	0
39	A Thermohydrodynamic Sparse Mesh Model of Bump-Type Foil Bearings. Journal of Engineering for Gas Turbines and Power, 2013, 135, .	0.5	18
40	S201041 Education Collaboration between Industry and Universities for PhJD. Course Students. The Proceedings of Mechanical Engineering Congress Japan, 2013, 2013, _S201041-1-_S201041-5.	0.0	0
41	G070021 Ignition and Combustion in Dual Fuel Engine using biomass resources. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _G070021-1-_G070021-4.	0.0	0
42	Prediction of Dynamic Coefficients of Bump-Type Foil Bearings with Bumps Considered as Link-Spring Structures. Tribology Online, 2011, 6, 10-18.	0.2	2
43	Development of Flexible Gas Fuel Engine System. Journal of System Design and Dynamics, 2011, 5, 125-138.	0.3	3
44	255 Axial Vibration of Rotating Shaft in the Turbopump Induced by Swirling Leakage Flow. The Proceedings of the Dynamics & Design Conference, 2011, 2011, _255-1_-_255-8_.	0.0	0
45	Parametric Studies on Static Performance and Nonlinear Instability of Bump-Type Foil Bearings. Journal of System Design and Dynamics, 2010, 4, 871-883.	0.3	6
46	Dynamic Characteristic of Gas Engine in Micro Grid(<Special Issue>The 14th National Symposium on) Tj ETQq0 0 0 rgBT /Overlock 10 Tf Mechanical Engineers Series B B-hen, 2010, 76, 403-405.	0.2	0
47	Parametric Studies on Static Performance and Nonlinear Stability of Bump-Type Foil Bearings(<Special) Tj ETQq1 1 0.784314 rgBT /Over Japan Society of Mechanical Engineers, Part C, 2010, 76, 1249-1257.	0.2	0
48	Influence of H_2 and CO of Biomass Gas Fuel on Ignition and Combustion in HCCI Engine(Thermal) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Engineers Series B B-hen, 2010, 76, 135-141.	0.2	2
49	Analytical Model of Bump-Type Foil Bearings Using a Link-Spring Structure and a Finite-Element Shell Model. Journal of Tribology, 2010, 132, .	1.0	111
50	Operation of Micro Gas Turbine System Employing Two Stages Combustion by Using Biomass Gas(Biomass and Systems Eco-Engine,<Special Issue>Power and Energy System Symposium). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 488-489.	0.2	0
51	Thermohydrodynamic Study of Multiwound Foil Bearing Using Lobatto Point Quadrature. Journal of Tribology, 2009, 131, .	1.0	25
52	Link-Spring Model of Bump-Type Foil Bearings. , 2009, , .		6
53	Noninvasive biological sensor system for detection of drunk driving. , 2009, , .		5
54	Combustion Characteristics of Low-Calorific-Value Gaseous Fuels in Small Gas Engine. Journal of Environment and Engineering, 2009, 4, 188-197.	0.2	6

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55	Calculation of Dynamic Coefficients for Multiwound Foil Bearings. Journal of System Design and Dynamics, 2009, 3, 841-852.	0.3	3
56	Development of a Biomass Gas Engine by Diverting an Automotive Engine(Biomass and Systems) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 7 Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 485-487.	0.2	0
57	Ignition and Combustion Characteristics of Biomass Gas in a HCCI Engine(Biomass and Systems) Tj ETQq1 1 0.784314 rgBT /Overlock 1 Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2009, 75, 482-484.	0.2	0
58	A34 Development of non-constraint monitoring technology to detect drink-driving. The Proceedings of the Symposium on the Motion and Vibration Control, 2009, 2009.11, 408-411.	0.0	0
59	A Study of Thermohydrodynamic Features of Multi Wound Foil Bearing Using Lobatto Point Quadrature. , 2008, , .		6
60	Operation Control of Biomass Gas Engine with the Real Time Analysis of In-Cylinder Gas Pressure. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2008, 74, 1246-1252.	0.2	1
61	Operation Control of a Biomass Gas Engine with Real-Time Analysis of In-Cylinder Gas Pressure. Journal of System Design and Dynamics, 2008, 2, 1284-1295.	0.3	5
62	2723 A Link-Spring Model of the Bump-Type Foil Bearing. The Proceedings of the JSME Annual Meeting, 2008, 2008.7, 127-128.	0.0	0
63	C106 Biomass Power Generation by Micro Gas Turbine Generator System Employing Two Stages Combustion. The Proceedings of the National Symposium on Power and Energy Systems, 2008, 2008.13, 121-122.	0.0	0
64	A Numerical Calculation Model of Multi Wound Foil Bearing with the Effect of Foil Local Deformation. Journal of System Design and Dynamics, 2007, 1, 648-659.	0.3	15
65	Development of a Small Size Gas Engine Using Biomass Gaseous Fuel (Combustion Characteristics of) Tj ETQq1 1 0.784314 rgBT /Over Mechanical Engineers Series B B-hen, 2007, 73, 1256-1262.	0.2	2
66	Aerodynamic characteristics of carriage arm equipped on hard magnetic disks. Microsystem Technologies, 2007, 13, 1297-1306.	1.2	6
67	20716 Wave Propagation and Reflection in Human Arteries with Branches. The Proceedings of Conference of Kanto Branch, 2007, 2007.13, 135-136.	0.0	0
68	Title is missing!. Ningen Kogaku = the Japanese Journal of Ergonomics, 2006, 42, 168-169.	0.0	0
69	A Study on the Sleep Predictor Signals Using the Noninvasive Biological Signal Sensing Seat. Ningen Kogaku = the Japanese Journal of Ergonomics, 2006, 42, 224-225.	0.0	1
70	Development of the measurement method of the prediction of sleep by finger plethysmogram data. Ningen Kogaku = the Japanese Journal of Ergonomics, 2005, 41, 203-212.	0.0	16
71	Application of Leakage Flow Theory to the Design of Foil Journal Bearing for Micro Gas Turbine Use. The Proceedings of the JSME Annual Meeting, 2004, 2004.7, 99-100.	0.0	0
72	The Development of Control System of Micro Gas Turbine for Low Calorific Value Gas Fuel. The Proceedings of the JSME Annual Meeting, 2004, 2004.3, 263-264.	0.0	1

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73	Nonlinear Analysis of Sheet Flutter Subjected to a Leakage Flow Based on Multibody Dynamics. JSME International Journal Series C-Mechanical Systems Machine Elements and Manufacturing, 2003, 46, 500-507.	0.3	3
74	Prototyping of Radial and Thrust Foil Bearing for Small Size Micro Gas Turbines. The Proceedings of the JSME Annual Meeting, 2003, 2003.6, 327-328.	0.0	2
75	Micro Cogeneration System Combined Thermal Efficiency Based on Measured Data. The Proceedings of the Symposium on Environmental Engineering, 2003, 2003.13, 444-447.	0.0	0
76	Pressure pulsations observed in gas supply pipelines for micro-gasturbine and its countermeasure. The Proceedings of the JSME Annual Meeting, 2003, 2003.7, 267-268.	0.0	0
77	629 Mechanism of temperature fluctuations observed in a micro cogeneration system. The Proceedings of the Dynamics & Design Conference, 2003, 2003, _629-1_-_629-6_.	0.0	0
78	Nonlinear Leakage Flow Induced Sheet Flutter Analysis using Discretized Beam Elements. The Proceedings of the JSME Annual Meeting, 2002, 2002.7, 155-156.	0.0	0
79	A STUDY ON COUNTERMEASURES AGAINST WIND-INDUCED CABLE VIBRATIONS IN A CABLE-STAYED BRIDGE BY CHANGING VIBRATION MODES : DESIGN METHOD AND APPLICATION TO AN ACTUAL CABLE. The Proceedings of the International Conference on Motion and Vibration Control, 2002, 6.1, 531-536.	0.0	0
80	F-5-4-2 Nonlinear Analysis of Sheet Flutter Based on Multibody Dynamics. The Proceedings of the Asian Conference on Multibody Dynamics, 2002, 2002, 486-493.	0.0	1
81	551 Sheet Flutter Analysis based on Multibody Dynamics. The Proceedings of the Computational Mechanics Conference, 2001, 2001.14, 635-636.	0.0	0
82	Self-Excited Sloshing due to the Fluid Discharge Over a Flexible Cylindrical Weir. Journal of Pressure Vessel Technology, Transactions of the ASME, 2000, 122, 33-39.	0.4	18
83	Dynamical Modeling of Deepwater-Type Cylindrical Tuned Liquid Damper With a Submerged Net. Journal of Pressure Vessel Technology, Transactions of the ASME, 2000, 122, 96-104.	0.4	18
84	Self-Excited Sloshing due to the Fluid Discharge Over a Flexible Plate Weir. Journal of Pressure Vessel Technology, Transactions of the ASME, 2000, 122, 192-197.	0.4	18
85	Prediction of Ignition and Combustion Development in an HCCI Engine Fueled by Syngas. , 0, , .		17
86	Development of Dynamic Models for an HCCI Engine with Exhaust Gas Rebreathing System. , 0, , .		7
87	Online Automatic Adaptation for Model-based Control of Diesel Engine. , 0, , .		3