Yasuhiro Egami

List of Publications by Year
in descending order

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82	862	516710 16	580821 25
papers	citations	h-index	g-index

87	87	87	380
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Pressure Sensitivity Prediction for Pressure-Sensitive Paint Development using Artificial Neural Network. , 2022, , .		0
2	Development of Differential PSP Technique for Detecting Small Pressure Fluctuations. , 2022, , .		0
3	Structured light illumination for pressure-sensitive paint measurement under ambient light. Review of Scientific Instruments, 2022, 93, 055101.	1.3	0
4	Investigation on Non-Uniformity of Luminescence Lifetime of Fast-Responding Pressure-Sensitive Paint. , 2021, , .		1
5	Physical Properties of Paints. Experimental Fluid Mechanics, 2021, , 31-72.	1.5	0
6	Lifetime-Based Methods. Experimental Fluid Mechanics, 2021, , 129-162.	1.5	0
7	Applications of TSP. Experimental Fluid Mechanics, 2021, , 345-398.	1.5	0
8	Image and Data Analysis Techniques. Experimental Fluid Mechanics, 2021, , 199-245.	1.5	0
9	Applications of PSP. Experimental Fluid Mechanics, 2021, , 247-344.	1.5	0
10	Luminescent intensity enhancement of pressure-sensitive paint by optimization of mole fraction of oxygen. Aerospace Science and Technology, 2021, 112, 106627.	4.8	1
11	Data-driven approach for noise reduction in pressure-sensitive paint data based on modal expansion and time-series data at optimally placed points. Physics of Fluids, 2021, 33, .	4.0	28
12	Noise Reduction in PSP Images Using Mathematical Optimization Method. Journal of the Japan Society for Precision Engineering, 2021, 87, 7_610-7_613.	0.1	0
13	Predicting Pressure Sensitivity to Luminophore Content and Paint Thickness of Pressure-Sensitive Paint Using Artificial Neural Network. Sensors, 2021, 21, 5188.	3.8	0
14	Investigation of Factors Causing Nonuniformity in Luminescence Lifetime of Fast-Responding Pressure-Sensitive Paints. Sensors, 2021, 21, 6076.	3.8	6
15	Mechanism of supersonic mixing enhancement by a wall-mounted three-dimensional cavity. Acta Astronautica, 2021, 188, 491-504.	3.2	12
16	Time Response. Experimental Fluid Mechanics, 2021, , 163-197.	1.5	0
17	Pressure and Temperature Sensitive Paints. Experimental Fluid Mechanics, 2021, , .	1.5	65
18	Ruthenium-based fast-responding pressure-sensitive paint for measuring small pressure fluctuation in low-speed flow field. Measurement Science and Technology, 2021, 32, 024003.	2.6	39

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19	Synthesis of an oxygen-permeable block copolymer with catechol groups and its application in polymer-ceramic pressure-sensitive paint. Polymer, 2020, 191, 122281.	3.8	6
20	Simultaneous measurement of gas-liquid interface motion and temperature distribution on heated surface using temperature-sensitive paint. International Journal of Heat and Mass Transfer, 2020, 153, 119567.	4.8	13
21	Peculiarities of low-Reynolds-number supersonic flows in long microchannel. Microfluidics and Nanofluidics, 2019, 23, 1.	2.2	3
22	Development of Sprayable Pressure-Sensitive Paint with a Response Time of Less Than 10â€‰â€‰Î¼s. AIAA Journal, 2019, 57, 2198-2203.	2.6	42
23	Effects of solvents for luminophore on dynamic and static characteristics of sprayable polymer/ceramic pressure-sensitive paint. Sensors and Actuators A: Physical, 2019, 286, 188-194.	4.1	23
24	Development of fast-responding Pressure-Sensitive Paint with low temperature sensitive using poly(trimethylsilyl)propyne. Transactions of the JSME (in Japanese), 2019, 85, 19-00266-19-00266.	0.2	1
25	Development of Polymer/Ceramic Pressure-Sensitive Paint with the same response time as Anodized-Aluminum PSP. , 2018, , .		8
26	Evaluation of the Characteristics and Coating Film Structure of Polymer/Ceramic Pressure-Sensitive Paint. Sensors, 2018, 18, 4041.	3.8	25
27	Investigation on choking behavior of gas flow in microducts. Microfluidics and Nanofluidics, 2018, 22, 1.	2.2	3
28	DISTRIBUTIONS OF TEMPERATURE AND HEAT FLUX AROUND BUBBLES OF FLOW BOILING IN NARROW CHANNEL. , 2018, , .		0
29	Fine printing of pressure- and temperature-sensitive paints using commercial inkjet printer. Sensors and Actuators B: Chemical, 2017, 250, 563-568.	7.8	16
30	Various Pressure-and Temperature-Sensitive Substances and Their Characteristics. Journal of the Visualization Society of Japan, 2017, 37, 11-16.	0.0	2
31	Polymer-Particle Pressure-Sensitive Paint with High Photostability. Sensors, 2016, 16, 550.	3.8	23
32	Phenomena peculiar to underexpanded flows in supersonic micronozzles. Microfluidics and Nanofluidics, 2016, 20, 1.	2.2	17
33	Development of fast response bi-luminophore pressure-sensitive paint by means of an inkjet printing technique. Measurement Science and Technology, 2015, 26, 064004.	2.6	20
34	Combined PSPï½¥TSP sensor fabricated with inkjet-printing technique. Journal of the Visualization Society of Japan, 2014, 34, 28-34.	0.0	0
35	Dual luminescent arrays sensor fabricated by inkjet-printing of pressure- and temperature-sensitive paints. Sensors and Actuators B: Chemical, 2014, 190, 70-77.	7.8	47
36	Property changes of temperature-sensitive paint immobilized in acrylic polymer matrices. Sensors and Actuators B: Chemical, 2014, 195, 677-681.	7.8	14

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37	Experimental Investigations of Flow Boiling Heat Transfer and Flow Behaviors in Microgap Channel. , 2014, , .		0
38	Reduction of Temperature Effects in Pressure-Sensitive Paint Measurements. AIAA Journal, 2013, 51, 1779-1783.	2.6	16
39	Unsteady pressure-sensitive paint measurement based on the heterodyne method using low frame rate camera. Review of Scientific Instruments, 2013, 84, 105110.	1.3	11
40	Development of Organic Electroluminescent Sensor for Pressure/Oxygen Measurement. , 2013, , .		0
41	Organic Electroluminescent Sensor for Pressure Measurement. Sensors, 2012, 12, 13899-13906.	3.8	17
42	A Discusion of Spatial Resolution of Pressure-Sensitive Paint. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2012, 78, 1260-1266.	0.2	3
43	Combined Pressure-/Temperature-Sensitive Paint Arranged in Dot Array. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2012, 78, 1327-1335.	0.2	4
44	Reduction of Temperature Effect in Pressure-Sensitive Paint Measurements by Model Materials and Coatings. , 2012, , .		1
45	Combined pressure and temperature sensor using pressure- and temperature-sensitive paints. , 2012, , .		5
46	Development of new two-component temperature-sensitive paint (TSP) for cryogenic testing. Measurement Science and Technology, 2012, 23, 115301.	2.6	16
47	Pressure-sensitive paint measurement on co-rotating disks in a hard disk drive. Optics and Lasers in Engineering, 2012, 50, 82-86.	3.8	15
48	J053011 Development of combined pressure and temperature sensor using PtTFPP and CdSe/ZnS. The Proceedings of Mechanical Engineering Congress Japan, 2012, 2012, _J053011-1-_J053011-4.	0.0	0
49	Complementary Numerical and Experimental Data Analysis of the ETW Telfona Pathfinder Wing Transition Tests. , 2011, , .		32
50	Error Analysis of Pressure-Sensitive Paint Measurement. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2011, 77, 1189-1200.	0.2	4
51	Unsteady 2D measurement of dissolved oxygen distribution using luminescent sensor film. Sensors and Actuators B: Chemical, 2011, 160, 1464-1467.	7.8	14
52	Experimental measurement on tangential momentum accommodation coefficient in a single microtube. Microfluidics and Nanofluidics, 2011, 11, 57-64.	2.2	63
53	Pressure-Sensitive Molecular Film for Experimental Analyses of Micro Gas-Flows. , 2011, , .		0
54	Experimental Study on Measurement of Tangential Momentum Accommodation Coefficient in Microtube. , 2010, , .		1

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55	Hysteresis of Pressure-Sensitive Paint in Cryogenic Wind Tunnels(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 254-258.	0.2	0
56	Pressure Distribution Measurement on a Rotating Disk Surface by Pressure-Sensitive Paint(Mechanical) Tj ETQq0 0 0 rgBT /Overlock 10 T Engineers, Part C, 2010, 76, 3002-3007.	0.2	1
57	Visualization of Supersonic Boundary-Layer Transition on a 10-Degree Cone Model Using Temperature-Sensitive Paint(Fluids Engineering). 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2010, 76, 259-265.	0.2	0
58	Application of Pressure-Sensitive Paint for Determination of Dynamic Surface Pressures on a 30 Hz Oscillating 2D Profile in Transonic Flow. Notes on Numerical Fluid Mechanics and Multidisciplinary Design, 2010, , 323-330.	0.3	6
59	Transonic High Reynolds Number Transition Experiments in the ETW Cryogenic Wind Tunnel. , 2010, , .		10
60	Advanced Measurement Techniques for High Reynolds Number Testing in Cryogenic Wind Tunnels. , 2010, , .		15
61	Pressure-Sensitive Paint Measurement on Co-Rotating Disks. , 2010, , .		0
62	Development of a Highly Sensitive Temperature-Sensitive Paint for Measurements under Ambient (0 - 60) Tj ETQq0 0 0 rgBT /Overlock 1 10		
63	Temperature-Sensitive Paint Application in Cryogenic Wind Tunnels: Transition Detection at High Reynolds Numbers and Influence of the Technique on Measured Aerodynamic Coefficients. , 2007, , .		6
64	Development of New Two-Component TSP for Cryogenic Testing. , 2007, , .		9
65	Application of Pressure-Sensitive Paint for Determination of Dynamic Surface Pressures on a Rotating 65Â° Delta Wing and an Oscillating 2D profile in Transonic Flow. , 2007, , .		12
66	Density-Based Techniques. , 2007, , 473-486.		3
67	Using CryoTSP as a Tool for Transition Detection and Instability Examination at High Reynolds Numbers. , 2007, , 227-234.		7
68	Appropriate Selection of Pressure-Sensitive Paint for Cryogenic Wind Tunnels. , 2006, , .		15
69	High Reynolds Number Transition Detection by Means of Temperature Sensitive Paint. , 2006, , .		25
70	Recent Developments of Image Based Measurement Methods for Application to Transonic Flows in Industrial Wind Tunnels. Chinese Journal of Aeronautics, 2006, 19, 114-125.	5.3	4
71	Application of Pressure-Sensitive Paints to Low-Pressure Range. Journal of Thermophysics and Heat Transfer, 2005, 19, 9-16.	1.6	48
72	A Study on Fundamental Properties of PSP in Low Pressure Region.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 2002, 68, 3360-3368.	0.2	2

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73	Effects of Antioxidants on Photodegradation of Porous Pressure-Sensitive Paint. , 2002, , .		7
74	Development of Lifetime Imaging System for Pressure-Sensitive Paint. , 2002, , .		25
75	Optimization of polymer-based PSP for cryogenic wind tunnels. , 2001, , .		11
76	Quantitative visualization of the leading-edge vortices on a delta wing by using pressure-sensitive paint. Journal of Visualization, 2001, 4, 139-150.	1.8	6
77	Effective laminar flow control by selective suction system on swept wing flow. , 1999, , .		0
78	Traveling Instabilities on a Crossflow Instability Dominant Boundary Layer.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1998, 64, 327-333.	0.2	0
79	Design and Control of Crossflow Instability Field.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1997, 63, 849-856.	0.2	2
80	Control of Crossflow Instability Field by Selective Suction System.. 880-02 Nihon Kikai Gakkai RonbunshÅ« Transactions of the Japan Society of Mechanical Engineers Series B B-hen, 1997, 63, 2963-2969.	0.2	0
81	Design and Control of Crossflow Instability Field. Fluid Mechanics and Its Applications, 1996, , 147-156.	0.2	17
82	Open-system pressure sensitive paint for surface pressure measurements in a cryogenic wind tunnel. , 0, , .		3