

Yasuhiro Egami

List of Publications by Year in descending order

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Version: 2024-02-01

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papers

862
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516710

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all docs

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docs citations

87
times ranked

380
citing authors

#	ARTICLE	IF	CITATIONS
1	Pressure and Temperature Sensitive Paints. <i>Experimental Fluid Mechanics</i> , 2021, , .	1.5	65
2	Experimental measurement on tangential momentum accommodation coefficient in a single microtube. <i>Microfluidics and Nanofluidics</i> , 2011, 11, 57-64.	2.2	63
3	Application of Pressure-Sensitive Paints to Low-Pressure Range. <i>Journal of Thermophysics and Heat Transfer</i> , 2005, 19, 9-16.	1.6	48
4	Dual luminescent arrays sensor fabricated by inkjet-printing of pressure- and temperature-sensitive paints. <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 70-77.	7.8	47
5	Development of Sprayable Pressure-Sensitive Paint with a Response Time of Less Than 10 ⁻⁴ s. <i>AIAA Journal</i> , 2019, 57, 2198-2203.	2.6	42
6	Ruthenium-based fast-responding pressure-sensitive paint for measuring small pressure fluctuation in low-speed flow field. <i>Measurement Science and Technology</i> , 2021, 32, 024003.	2.6	39
7	Complementary Numerical and Experimental Data Analysis of the ETW Telfona Pathfinder Wing Transition Tests. , 2011, , .		32
8	Data-driven approach for noise reduction in pressure-sensitive paint data based on modal expansion and time-series data at optimally placed points. <i>Physics of Fluids</i> , 2021, 33, .	4.0	28
9	Development of Lifetime Imaging System for Pressure-Sensitive Paint. , 2002, , .		25
10	High Reynolds Number Transition Detection by Means of Temperature Sensitive Paint. , 2006, , .		25
11	Evaluation of the Characteristics and Coating Film Structure of Polymer/Ceramic Pressure-Sensitive Paint. <i>Sensors</i> , 2018, 18, 4041.	3.8	25
12	Polymer-Particle Pressure-Sensitive Paint with High Photostability. <i>Sensors</i> , 2016, 16, 550.	3.8	23
13	Effects of solvents for luminophore on dynamic and static characteristics of sprayable polymer/ceramic pressure-sensitive paint. <i>Sensors and Actuators A: Physical</i> , 2019, 286, 188-194.	4.1	23
14	Development of fast response bi-luminophore pressure-sensitive paint by means of an inkjet printing technique. <i>Measurement Science and Technology</i> , 2015, 26, 064004.	2.6	20
15	Organic Electroluminescent Sensor for Pressure Measurement. <i>Sensors</i> , 2012, 12, 13899-13906.	3.8	17
16	Phenomena peculiar to underexpanded flows in supersonic micronozzles. <i>Microfluidics and Nanofluidics</i> , 2016, 20, 1.	2.2	17
17	Design and Control of Crossflow Instability Field. <i>Fluid Mechanics and Its Applications</i> , 1996, , 147-156.	0.2	17
18	Development of new two-component temperature-sensitive paint (TSP) for cryogenic testing. <i>Measurement Science and Technology</i> , 2012, 23, 115301.	2.6	16

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19	Reduction of Temperature Effects in Pressure-Sensitive Paint Measurements. AIAA Journal, 2013, 51, 1779-1783.	2.6	16
20	Fine printing of pressure- and temperature-sensitive paints using commercial inkjet printer. Sensors and Actuators B: Chemical, 2017, 250, 563-568.	7.8	16
21	Appropriate Selection of Pressure-Sensitive Paint for Cryogenic Wind Tunnels. , 2006, , .		15
22	Advanced Measurement Techniques for High Reynolds Number Testing in Cryogenic Wind Tunnels. , 2010, , .		15
23	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
24	Unsteady 2D measurement of dissolved oxygen distribution using luminescent sensor film. Sensors and Actuators B: Chemical, 2011, 160, 1464-1467.	7.8	14
25	Property changes of temperature-sensitive paint immobilized in acrylic polymer matrices. Sensors and Actuators B: Chemical, 2014, 195, 677-681.	7.8	14
26	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
27	Application of Pressure-Sensitive Paint for Determination of Dynamic Surface Pressures on a Rotating 65° Delta Wing and an Oscillating 2D profile in Transonic Flow. , 2007, , .		12
28	Mechanism of supersonic mixing enhancement by a wall-mounted three-dimensional cavity. Acta Astronautica, 2021, 188, 491-504.	3.2	12
29	Optimization of polymer-based PSP for cryogenic wind tunnels. , 2001, , .		11
30	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
31	Development of a Highly Sensitive Temperature-Sensitive Paint for Measurements under Ambient (0 - 60) Tj ETQq1 1 0.784314 rgBT / 10		11
32	Transonic High Reynolds Number Transition Experiments in the ETW Cryogenic Wind Tunnel. , 2010, , .		10
33	Development of New Two-Component TSP for Cryogenic Testing. , 2007, , .		9
34	Development of Polymer/Ceramic Pressure-Sensitive Paint with the same response time as Anodized-Aluminum PSP. , 2018, , .		8
35	Effects of Antioxidants on Photodegradation of Porous Pressure-Sensitive Paint. , 2002, , .		7
36	Using CryoTSP as a Tool for Transition Detection and Instability Examination at High Reynolds Numbers. , 2007, , 227-234.		7

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37	Quantitative visualization of the leading-edge vortices on a delta wing by using pressure-sensitive paint. <i>Journal of Visualization</i> , 2001, 4, 139-150.	1.8	6
38	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
39	Application of Pressure-Sensitive Paint for Determination of Dynamic Surface Pressures on a 30 Hz Oscillating 2D Profile in Transonic Flow. <i>Notes on Numerical Fluid Mechanics and Multidisciplinary Design</i> , 2010, , 323-330.	0.3	6
40	Synthesis of an oxygen-permeable block copolymer with catechol groups and its application in polymer-ceramic pressure-sensitive paint. <i>Polymer</i> , 2020, 191, 122281.	3.8	6
41	Investigation of Factors Causing Nonuniformity in Luminescence Lifetime of Fast-Responding Pressure-Sensitive Paints. <i>Sensors</i> , 2021, 21, 6076.	3.8	6
42	Combined pressure and temperature sensor using pressure- and temperature-sensitive paints. , 2012, , .		5
43	Recent Developments of Image Based Measurement Methods for Application to Transonic Flows in Industrial Wind Tunnels. <i>Chinese Journal of Aeronautics</i> , 2006, 19, 114-125.	5.3	4
44	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
45	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
46	Open-system pressure sensitive paint for surface pressure measurements in a cryogenic wind tunnel. , 0, , .		3
47	A Discussion 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
48	Investigation on choking behavior of gas flow in microducts. <i>Microfluidics and Nanofluidics</i> , 2018, 22, 1.	2.2	3
49	Peculiarities of low-Reynolds-number supersonic flows in long microchannel. <i>Microfluidics and Nanofluidics</i> , 2019, 23, 1.	2.2	3
50	Density-Based Techniques. , 2007, , 473-486.		3
51	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
52	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
53	Various Pressure-and Temperature-Sensitive Substances and Their Characteristics. <i>Journal of the Visualization Society of Japan</i> , 2017, 37, 11-16.	0.0	2
54	Experimental Study on Measurement of Tangential Momentum Accommodation Coefficient in Microtube. , 2010, , .		1

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55	Pressure Distribution Measurement on a Rotating Disk Surface by Pressure-Sensitive Paint(Mechanical) Tj ETQq1 1 0.784314 rgBT /Over Engineers, Part C, 2010, 76, 3002-3007.	0.2	1
56	Reduction of Temperature Effect in Pressure-Sensitive Paint Measurements by Model Materials and Coatings. , 2012, , .		1
57	Investigation on Non-Uniformity of Luminescence Lifetime of Fast-Responding Pressure-Sensitive Paint. , 2021, , .		1
58	Luminescent intensity enhancement of pressure-sensitive paint by optimization of mole fraction of oxygen. Aerospace Science and Technology, 2021, 112, 106627.	4.8	1
59	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
60	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
61	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
62	Effective laminar flow control by selective suction system on swept wing flow. , 1999, , .		0
63	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
64	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
65	Development of Organic Electroluminescent Sensor for Pressure/Oxygen Measurement. , 2013, , .		0
66	Combined PSP1/2¥TSP sensor fabricated with inkjet-printing technique. Journal of the Visualization Society of Japan, 2014, 34, 28-34.	0.0	0
67	Physical Properties of Paints. Experimental Fluid Mechanics, 2021, , 31-72.	1.5	0
68	Lifetime-Based Methods. Experimental Fluid Mechanics, 2021, , 129-162.	1.5	0
69	Applications of TSP. Experimental Fluid Mechanics, 2021, , 345-398.	1.5	0
70	Image and Data Analysis Techniques. Experimental Fluid Mechanics, 2021, , 199-245.	1.5	0
71	Applications of PSP. Experimental Fluid Mechanics, 2021, , 247-344.	1.5	0
72	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

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73	Predicting Pressure Sensitivity to Luminophore Content and Paint Thickness of Pressure-Sensitive Paint Using Artificial Neural Network. Sensors, 2021, 21, 5188.	3.8	0
74	Time Response. Experimental Fluid Mechanics, 2021, , 163-197.	1.5	0
75	Pressure-Sensitive Paint Measurement on Co-Rotating Disks. , 2010, , .		0
76	Pressure-Sensitive Molecular Film for Experimental Analyses of Micro Gas-Flows. , 2011, , .		0
77	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
78	Experimental Investigations of Flow Boiling Heat Transfer and Flow Behaviors in Microgap Channel. , 2014, , .		0
79	DISTRIBUTIONS OF TEMPERATURE AND HEAT FLUX AROUND BUBBLES OF FLOW BOILING IN NARROW CHANNEL. , 2018, , .		0
80	Pressure Sensitivity Prediction for Pressure-Sensitive Paint Development using Artificial Neural Network. , 2022, , .		0
81	Development of Differential PSP Technique for Detecting Small Pressure Fluctuations. , 2022, , .		0
82	Structured light illumination for pressure-sensitive paint measurement under ambient light. Review of Scientific Instruments, 2022, 93, 055101.	1.3	0