

Pavel Procházka

List of Publications by Year in descending order

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45
all docs

45
docs citations

45
times ranked

110
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing probes positioning in Blade Tip Timing systems. Mechanical Systems and Signal Processing, 2022, 166, 108441.	8.0	14
2	Experimental validation of FEM-computed stress to tip deflection ratios of aero-engine compressor blade vibration modes and quantification of associated uncertainties. Mechanical Systems and Signal Processing, 2022, 178, 109257.	8.0	12
3	Dynamics of flow in a branching channel. Mechanics and Industry, 2021, 22, 25.	1.3	0
4	Construction of the Signal Profile for Use in Blade Tip-Timing Analysis. Journal of Engineering for Gas Turbines and Power, 2021, 143, .	1.1	5
5	On 3D flow pattern behind a wall-mounted circular cylinder of finite-length. AIP Conference Proceedings, 2021, , .	0.4	0
6	Deterministic and Statistical Methods for Evaluating Turbine Rotor Speed Instabilities. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1416-1425.	4.7	3
7	POD Spectrum of the Wake behind a Circular Cylinder. MATEC Web of Conferences, 2020, 328, 05006.	0.2	3
8	Dynamics of the Tip Vortices in the Wake Behind a Circular Cylinder of Finite Length. MATEC Web of Conferences, 2020, 328, 05008.	0.2	0
9	On the boundary layer structure on suction side of an airfoil. EPJ Web of Conferences, 2019, 213, 02088.	0.3	0
10	On the global flow-field dynamics around an airfoil. EPJ Web of Conferences, 2019, 213, 02089.	0.3	1
11	Streamwise and spanwise vortical structure merging inside the wake of an inclined flat plate. Mechanics and Industry, 2019, 20, 705.	1.3	2
12	The Reynolds number effect on dynamics of the wake behind a circular cylinder. AIP Conference Proceedings, 2019, , .	0.4	5
13	Impulse Exciter of Rotating Blades With an Increased Excitation Force. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 300-302.	4.7	1
14	Electromagnetic Simulator of Rotating Machine Blades for Noncontact Sensor Dynamic Testing. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1506-1508.	4.7	3
15	Erratum to Electromagnetic simulator of rotating machine blades for noncontact dynamic testing [Jun 18 1506-1508]. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2259-2259.	4.7	0
16	On 3D Flow Structure of the Boundary Layer on the Suction Side of a Plate. EPJ Web of Conferences, 2018, 180, 02112.	0.3	4
17	Flow Structure behind a Wing at High Reynolds Numbers. EPJ Web of Conferences, 2018, 180, 02111.	0.3	2
18	On 3D structure of wake behind an inclined plate. AIP Conference Proceedings, 2018, , .	0.4	0

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19	Semiparametric statistical analysis of the blade tip timing data for detection of turbine rotor speed instabilities. Quality and Reliability Engineering International, 2018, 34, 1308-1314.	2.3	2
20	Methods and Facilities for Calibration of Noncontact Blade Vibration Diagnostic Systems. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2345-2352.	4.7	7
21	Measurement and assessment of turbine rotor speed instabilities in applying the BTT method. , 2018, , .		3
22	Flow Structure behind a Wing at High Reynolds Numbers. EPJ Web of Conferences, 2018, 180, 02111.	0.3	2
23	On 3D Flow Structure of the Boundary Layer on the Suction Side of a Plate. EPJ Web of Conferences, 2018, 180, 02112.	0.3	2
24	Dynamics of flow in a branch of a branching channel. MATEC Web of Conferences, 2018, 168, 05001.	0.2	1
25	Evolution of vortical structures behind an inclined flat plate. MATEC Web of Conferences, 2018, 168, 05003.	0.2	6
26	On the effect of moving blade grid on the flow field characteristics. EPJ Web of Conferences, 2018, 180, 02086.	0.3	0
27	Numerical and experimental study of fluid flow in simplified blade cascade with prescribed harmonic motion. EPJ Web of Conferences, 2018, 180, 02116.	0.3	0
28	Methods and measuring systems for calibration of non-contact vibrodiagnostics systems. , 2017, , .		2
29	Coanda effect in valves. EPJ Web of Conferences, 2017, 143, 02136.	0.3	1
30	Design of adaptive constellations and error protection coding for wireless network coding in 5-node butterfly networks. Eurasip Journal on Wireless Communications and Networking, 2017, 2017, .	2.4	1
31	On 3D flow-structures behind an inclined plate. EPJ Web of Conferences, 2017, 143, 02137.	0.3	14
32	On the recirculation zone suppression behind HUMP profile using the DBD actuator. EPJ Web of Conferences, 2017, 143, 02095.	0.3	0
33	Stereoscopic PIV measurement of boundary layer affected by DBD actuator. EPJ Web of Conferences, 2016, 114, 02099.	0.3	1
34	Sensors for noncontact vibration diagnostics in rotating machinery. AIP Conference Proceedings, 2016, , .	0.4	5
35	Operational Measurement of Stationary Characteristics and Positions of Shrouded Steam Turbine Blades. IEEE Transactions on Instrumentation and Measurement, 2016, 65, 1079-1086.	4.7	3
36	Nonbinary Channel Coded Physical Layer Network Coding Over Modulo-Sum Algebraic Ring Structures. IEEE Communications Letters, 2016, 20, 538-541.	4.1	3

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37	Non-contact measurement of stationary characteristics of shrouded steam turbine blades under rotation. , 2015, , .		2
38	Relaying in Butterfly Networks: Superposition constellation design for Wireless Network Coding. , 2015, , .		2
39	New Methods of Noncontact Sensing of Blade Vibrations and Deflections in Turbomachinery. IEEE Transactions on Instrumentation and Measurement, 2014, 63, 1583-1592.	4.7	20
40	New methods of non-contact sensing of blade vibrations and deflections in turbomachinery. , 2013, , .		1
41	Contactless Diagnostics of Turbine Blade Vibration and Damage. Journal of Physics: Conference Series, 2011, 305, 012116.	0.4	19
42	Karhunen-Loève-Based Reduced-Complexity Representation of the Mixed-Density Messages in SPA on Factor Graph and Its Impact on BER. Eurasip Journal on Wireless Communications and Networking, 2011, 2010, .	2.4	0
43	NMR of ⁵⁷ Fe, ⁶⁹ Ga and ⁷¹ Ga in Ga substituted magnetite. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1018-1020.	2.3	7
44	<title>Sensor applications of two-mode fiber in the Michelson interferometer configuration</title>. , 1994, , .		3
45	Sensors and Methods for Blade Damage Operational Assessment in Low-Pressure Steam Turbine Stages. Key Engineering Materials, 0, 569-570, 726-733.	0.4	6