

# Pavel Procházka

## List of Publications by Year in descending order

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45  
papers

168  
citations

1307594

7  
h-index

1281871

11  
g-index

45  
all docs

45  
docs citations

45  
times ranked

110  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Contactless Diagnostics of Turbine Blade Vibration and Damage. Journal of Physics: Conference Series, 2011, 305, 012116.	0.4	19
3	On 3D flow-structures behind an inclined plate. EPJ Web of Conferences, 2017, 143, 02137.	0.3	14
4	Optimizing probes positioning in Blade Tip Timing systems. Mechanical Systems and Signal Processing, 2022, 166, 108441.	8.0	14
5	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
6	NMR of <sup>57</sup> Fe, <sup>69</sup> Ga and <sup>71</sup> Ga in Ga substituted magnetite. Journal of Magnetism and Magnetic Materials, 2005, 290-291, 1018-1020.	2.3	7
7	Methods and Facilities for Calibration of Noncontact Blade Vibration Diagnostic Systems. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 2345-2352.	4.7	7
8	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
9	Evolution of vortical structures behind an inclined flat plate. MATEC Web of Conferences, 2018, 168, 05003.	0.2	6
10	Sensors for noncontact vibration diagnostics in rotating machinery. AIP Conference Proceedings, 2016, , .	0.4	5
11	The Reynolds number effect on dynamics of the wake behind a circular cylinder. AIP Conference Proceedings, 2019, , .	0.4	5
12	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
13	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
14	<title>Sensor applications of two-mode fiber in the Michelson interferometer configuration</title>. , 1994, , .		3
15	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
16	Nonbinary Channel Coded Physical Layer Network Coding Over Modulo-Sum Algebraic Ring Structures. IEEE Communications Letters, 2016, 20, 538-541.	4.1	3
17	Electromagnetic Simulator of Rotating Machine Blades for Noncontact Sensor Dynamic Testing. IEEE Transactions on Instrumentation and Measurement, 2018, 67, 1506-1508.	4.7	3
18	Measurement and assessment of turbine rotor speed instabilities in applying the BTT method. , 2018, , .		3

#	ARTICLE	IF	CITATIONS
19	Deterministic and Statistical Methods for Evaluating Turbine Rotor Speed Instabilities. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1416-1425.	4.7	3
20	POD Spectrum of the Wake behind a Circular Cylinder. MATEC Web of Conferences, 2020, 328, 05006.	0.2	3
21	Non-contact measurement of stationary characteristics of shrouded steam turbine blades under rotation. , 2015, , .		2
22	Relaying in Butterfly Networks: Superposition constellation design for Wireless Network Coding. , 2015, , .		2
23	Methods and measuring systems for calibration of non-contact vibrodiagnostics systems. , 2017, , .		2
24	Flow Structure behind a Wing at High Reynolds Numbers. EPJ Web of Conferences, 2018, 180, 02111.	0.3	2
25	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
26	Streamwise and spanwise vortical structure merging inside the wake of an inclined flat plate. Mechanics and Industry, 2019, 20, 705.	1.3	2
27	Flow Structure behind a Wing at High Reynolds Numbers. EPJ Web of Conferences, 2018, 180, 02111.	0.3	2
28	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
29	New methods of non-contact sensing of blade vibrations and deflections in turbomachinery. , 2013, , .		1
30	Stereoscopic PIV measurement of boundary layer affected by DBD actuator. EPJ Web of Conferences, 2016, 114, 02099.	0.3	1
31	Coanda effect in valves. EPJ Web of Conferences, 2017, 143, 02136.	0.3	1
32	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
33	On the global flow-field dynamics around an airfoil. EPJ Web of Conferences, 2019, 213, 02089.	0.3	1
34	Impulse Exciter of Rotating Blades With an Increased Excitation Force. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 300-302.	4.7	1
35	Dynamics of flow in a branch of a branching channel. MATEC Web of Conferences, 2018, 168, 05001.	0.2	1
36	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

#	ARTICLE	IF	CITATIONS
37	On the recirculation zone suppression behind HUMP profile using the DBD actuator. EPJ Web of Conferences, 2017, 143, 02095.	0.3	0
38	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
39	On 3D structure of wake behind an inclined plate. AIP Conference Proceedings, 2018, , .	0.4	0
40	On the boundary layer structure on suction side of an airfoil. EPJ Web of Conferences, 2019, 213, 02088.	0.3	0
41	Dynamics of flow in a branching channel. Mechanics and Industry, 2021, 22, 25.	1.3	0
42	On 3D flow pattern behind a wall-mounted circular cylinder of finite-length. AIP Conference Proceedings, 2021, , .	0.4	0
43	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
44	On the effect of moving blade grid on the flow field characteristics. EPJ Web of Conferences, 2018, 180, 02086.	0.3	0
45	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