Zoltan Dombovari

List of Publications by Year
in descending order

55	1,710	361413	276875
papers	citations	20 h-index	41 g-index

55	55	55	785
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Bi-stability induced by motion limiting constraints on boring bar tuned mass dampers. Journal of Sound and Vibration, 2022, 517, 116538.	3.9	6
2	Optimal cutting condition selection for high quality receptance measurements by sweep milling force excitation. International Journal of Machine Tools and Manufacture, 2022, 176, 103873.	13.4	5
3	Bistability and delayed acceleration feedback control analytical study of collocated and non-collocated cases. Nonlinear Dynamics, 2022, 108, 2075-2096.	5.2	6
4	Improvement of boring operations by means of mode coupling effect. CIRP Journal of Manufacturing Science and Technology, 2022, 37, 633-644.	4.5	4
5	In-process impulse response of milling to identify stability properties by signal processing. Journal of Sound and Vibration, 2022, 527, 116849.	3.9	8
6	Damping in ram based vertical lathes and portal machines. CIRP Annals - Manufacturing Technology, 2022, 71, 369-372.	3.6	1
7	Self-Tuning Algorithm for Tuneable Clamping Table for Chatter Suppression in Blade Recontouring. Applied Sciences (Switzerland), 2021, 11, 2569.	2.5	6
8	Stability properties of regenerative cutting processes, based on impulse response functions expressed in the impulse dynamic subspace. International Journal of Machine Tools and Manufacture, 2021, 162, 103691.	13.4	7
9	Chatter formation during milling due to stochastic noise-induced resonance. Mechanical Systems and Signal Processing, 2021, 161, 107987.	8.0	6
10	The influence of radial engagement and milling direction for thin wall machining: a semi-analytical study. Procedia CIRP, 2021, 102, 180-185.	1.9	3
11	Application of machine drive oscillations for chip breaking in heavy duty turning operations. Procedia CIRP, 2021, 101, 110-113.	1.9	0
12	Prediction of the dynamic stiffness of boring bars. IOP Conference Series: Materials Science and Engineering, 2021, 1193, 012007.	0.6	2
13	Upgraded Kalman Filtering of Cutting Forces in Milling. Sensors, 2020, 20, 5397.	3.8	7
14	The Basics of Time-Domain-Based Milling Stability Prediction Using Frequency Response Function. Journal of Manufacturing and Materials Processing, 2020, 4, 72.	2.2	3
15	Tuneable clamping table for chatter avoidance in thin-walled part milling. CIRP Annals - Manufacturing Technology, 2020, 69, 313-316.	3.6	20
16	The Effect of Geometry on Harmonically Varied Helix Milling Tools. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	2.2	4
17	Experimental observations on unsafe zones in milling processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180125.	3.4	16
18	Monitoring the failure states of a metal matrix syntactic foam by modal analysis. Materials Letters, 2019, 257, 126733.	2.6	10

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19	Delayed feedback control for chatter suppression in turning machines. Mechatronics, 2019, 63, 102276.	3.3	23
20	Analysis of the beating frequencies in dressing and its effect in surface waviness. CIRP Annals - Manufacturing Technology, 2019, 68, 353-356.	3.6	8
21	Experimental Study on Free Vibratory Behavior of Nonlinear Structure. Periodica Polytechnica, Mechanical Engineering, 2019, 63, 91-99.	1.4	5
22	Optimum Selection of Variable Pitch for Chatter Suppression in Face Milling Operations. Materials, 2019, 12, 112.	2.9	20
23	Optimization of Edge Geometry of Cylindrical Milling Tools to Enhance Dynamic Stability. , 2019, , .		0
24	Modeling and Stability of Milling Processes With Active Damping. , 2019, , .		0
25	Bifurcation analysis of nonlinear timeâ€periodic timeâ€delay systems via semidiscretization. International Journal for Numerical Methods in Engineering, 2018, 115, 57-74.	2.8	12
26	On Basic Modeling of the Dynamics of Axles Rolling Process. IFAC-PapersOnLine, 2018, 51, 282-287.	0.9	1
27	Milling stability for slowly varying parameters. Procedia CIRP, 2018, 77, 110-113.	1.9	11
28	Ultimate capability of variable pitch milling cutters. CIRP Annals - Manufacturing Technology, 2018, 67, 373-376.	3.6	34
29	Dominant modal decomposition method. Journal of Sound and Vibration, 2017, 392, 56-69.	3.9	14
30	On the effective Young's modulus of metal matrix syntactic foams. Materials Science and Technology, 2017, 33, 2283-2289.	1.6	26
31	On the analysis of the double Hopf bifurcation in machining processes via centre manifold reduction. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170502.	2.1	20
32	Dynamics of Cutting Near Double Hopf Bifurcation. Procedia IUTAM, 2017, 22, 123-130.	1.2	4
33	Analytical expressions for chatter analysis in milling operations with one dominant mode. Journal of Sound and Vibration, 2016, 375, 403-421.	3.9	34
34	Chatter suppression techniques in metal cutting. CIRP Annals - Manufacturing Technology, 2016, 65, 785-808.	3.6	474
35	Design of self-tuneable mass damper for modular fixturing systems. CIRP Annals - Manufacturing Technology, 2016, 65, 389-392.	3.6	32
36	FRF Estimation through Sweep Milling Force Excitation (SMFE). Procedia CIRP, 2016, 46, 504-507.	1.9	19

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37	On the bistable zone of milling processes. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140409.	3.4	24
38	Implicit subspace iteration as an efficient method to compute milling stability lobe diagrams. International Journal of Advanced Manufacturing Technology, 2015, 77, 597-607.	3.0	6
39	Stability analysis of milling with irregular pitch tools by the implicit subspace iteration method. International Journal of Dynamics and Control, 2014, 2, 26-34.	2.5	27
40	Cylindrical milling tools: Comparative real case study for process stability. CIRP Annals - Manufacturing Technology, 2014, 63, 385-388.	3.6	48
41	Receptance coupling for tool point dynamic prediction by fixed boundaries approach. International Journal of Machine Tools and Manufacture, 2014, 78, 18-29.	13.4	38
42	Dynamics of Drill Bits With Cutting Edges of Varying Parameters. , 2013, , .		0
43	INTERACTION BETWEEN MULTIPLE MODES IN MILLING PROCESSES. Machining Science and Technology, 2013, 17, 165-180.	2.5	32
44	The Effect of Helix Angle Variation on Milling Stability. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	2.2	57
45	General Milling Stability Model for Cylindrical Tools. Procedia CIRP, 2012, 4, 90-97.	1.9	22
46	The Effect of Harmonic Helix Angle Variation on Milling Stability. , 2011, , .		3
47	Identification of cutting force characteristics based on chatter experiments. CIRP Annals - Manufacturing Technology, 2011, 60, 113-116.	3.6	42
48	Prediction of multiple dominant chatter frequencies in milling processes. International Journal of Machine Tools and Manufacture, 2011, 51, 457-464.	13.4	56
49	On the global dynamics of chatter in the orthogonal cuttingmodel. International Journal of Non-Linear Mechanics, 2011, 46, 330-338.	2.6	78
50	Fixed Boundaries Receptance Coupling Substructure Analysis for Tool Point Dynamics Prediction. Advanced Materials Research, 2011, 223, 622-631.	0.3	18
51	Experimental and Theoretical Study of Distributed Delay in Machining. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2010, 43, 109-113.	0.4	1
52	The effect of serration on mechanics and stability of milling cutters. International Journal of Machine Tools and Manufacture, 2010, 50, 511-520.	13.4	113
53	Chatter stability of milling in frequency and discrete time domain. CIRP Journal of Manufacturing Science and Technology, 2008, 1, 35-44.	4.5	243
54	Estimates of the bistable region in metal cutting. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 3255-3271.	2.1	49

#	Article	IF	Citations
55	On the robustness of stable turning processes. International Journal of Machining and Machinability of Materials, 2008, 4, 320.	0.1	2