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List of Publications by Year in descending order

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45
papers

439
citations

933447

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752698

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47
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docs citations

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times ranked

439
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparing immersive virtual reality and powerpoint as methods for delivering safety training: Impacts on risk perception, learning, and decision making. <i>Safety Science</i> , 2019, 111, 271-286.	4.9	110
2	CAD to VR – A Methodology for the Automated Conversion of Kinematic CAD Models to Virtual Reality. <i>Procedia CIRP</i> , 2016, 41, 358-363.	1.9	46
3	Mobile Augmented Reality Based Monitoring of Assembly Lines. <i>Procedia CIRP</i> , 2014, 23, 246-251.	1.9	44
4	Smart metal sheets by direct functional integration of piezoceramic fibers in microformed structures. <i>Microsystem Technologies</i> , 2014, 20, 1131-1140.	2.0	20
5	Adaptive spindle support for improving machining operations. <i>CIRP Annals - Manufacturing Technology</i> , 2008, 57, 395-398.	3.6	18
6	Thermal deformations of cutting tools: measurement and numerical simulation. <i>Production Engineering</i> , 2014, 8, 543-550.	2.3	17
7	VR tools for the development of energy-efficient products. <i>CIRP Journal of Manufacturing Science and Technology</i> , 2011, 4, 208-215.	4.5	16
8	Energy Visualization Techniques for Machine Tools in Virtual Reality. <i>Procedia CIRP</i> , 2016, 41, 329-333.	1.9	16
9	Numerical modelling and analysis of the influence of an air cooling system on a milling machine in virtual environment. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 1853-1864.	3.0	16
10	Identification of modal parameters of machine tools during cutting by operational modal analysis. <i>Procedia CIRP</i> , 2018, 77, 473-476.	1.9	14
11	Joining by forming of piezoceramic macro-fiber arrays within micro-structured surfaces of aluminum sheets. <i>Production Engineering</i> , 2014, 8, 195-205.	2.3	11
12	Structural Integration of PZT Fibers in Deep Drawn Sheet Metal for Material-integrated Sensing and Actuation. <i>Procedia Technology</i> , 2014, 15, 658-667.	1.1	9
13	Control concept for piezo-based actuator-sensor-units for uniaxial vibration damping in machine tools. <i>Production Engineering</i> , 2010, 4, 413-419.	2.3	8
14	A Framework for User Tests in a Virtual Environment. <i>Lecture Notes in Computer Science</i> , 2012, , 358-367.	1.3	8
15	Real NC Control Unit and Virtual Machine to Improve Operator Training. <i>Procedia Computer Science</i> , 2013, 25, 98-107.	2.0	7
16	Risk Analysis (Assessment) Using Virtual Reality Technology - Effects of Subjective Experience: An Experimental Study. <i>Procedia CIRP</i> , 2016, 50, 490-495.	1.9	7
17	Methodology for Process-independent Energetic Assessment of Machine Tools. <i>Procedia Manufacturing</i> , 2017, 8, 254-261.	1.9	7
18	BROADBAND EXCITATION OF MACHINE TOOLS BY CUTTING FORCES FOR PERFORMING OPERATIONAL MODAL ANALYSIS. <i>MM Science Journal</i> , 2016, 2016, 1473-1481.	0.4	7

#	ARTICLE	IF	CITATIONS
19	Investigation of the Time-invariance and Causality of a Machine Tool for Performing Operational Modal Analysis. <i>Procedia CIRP</i> , 2016, 46, 400-403.	1.9	6
20	Evaluation of thermo-energetic behavior for demand-oriented operating of machine tool cooling systems. <i>Procedia Manufacturing</i> , 2018, 21, 213-220.	1.9	6
21	Virtual-Reality-Based Simulation of NC Programs for Milling Machines. , 2011, , 697-703.		6
22	SIMULATION FOR INSTABLE FLOATING OF HYDRODYNAMIC GUIDES DURING ACCELERATION AND AT CONSTANT VELOCITY. <i>Journal of Machine Engineering</i> , 2018, 18, 5-15.	1.8	5
23	In-Process Monitoring of Joining Operations for Piezoceramic Elements. <i>Key Engineering Materials</i> , 0, 742, 800-806.	0.4	4
24	ECR plasma deposited a-SiCN:H as insulating layer in piezoceramic modules. <i>Vacuum</i> , 2018, 155, 118-126.	3.5	4
25	Fields of Application of Coupling a Real NC Control Unit With Virtual Reality Technology. , 2012, , .		3
26	Simulation-based thermal investigation of the cutting tool in the environment of single-phase fluxes. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 117-122.	3.0	2
27	Evaluation of Measures for Thermo-sensitive Design and Operating of Machine Tool Structures. <i>Procedia CIRP</i> , 2017, 60, 14-19.	1.9	2
28	Influence of Electrode Layers on the Fracture Strength of PZT Ceramics. <i>Solid State Phenomena</i> , 0, 260, 187-193.	0.3	2
29	Advanced Micro Structuring and Joining Technologies for Direct Integration of Piezo Fibers into Metallic Materials. <i>Advanced Engineering Materials</i> , 2018, 20, 1800472.	3.5	2
30	High Volume Production of PZT Fiber Arrays for Direct Functional Integration into Metal Structures. <i>Advanced Engineering Materials</i> , 2018, 20, 1800410.	3.5	2
31	Intuitivere Produkt-FMEA mittels Virtual Reality. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2013, 108, 215-219.	0.3	2
32	Untersuchungen zur thermisch bedingten Werkstoffverformung. <i>ZWF Zeitschrift Fuer Wirtschaftlichen Fabrikbetrieb</i> , 2014, 109, 521-525.	0.3	2
33	Applications of a Modular Interaction Framework for Virtual Reality Testing in a Smart Environment. <i>Procedia CIRP</i> , 2013, 9, 35-39.	1.9	1
34	Variance-Based Sensitivity Analysis for the Design of Thermal Systems. <i>Applied Mechanics and Materials</i> , 2015, 794, 371-378.	0.2	1
35	Condition Monitoring of Piezoceramic Fibers During Joining by Forming. <i>Procedia Technology</i> , 2016, 26, 144-151.	1.1	1
36	Extended bisection method for parameter identification of the transient heat conduction equation for thermo-elastic deformations during drilling. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 1279-1288.	3.0	1

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37	Simulation Method for the Floating of Hydrodynamic Guides. Procedia CIRP, 2017, 62, 346-350.	1.9	1
38	Monitoring concept for structural integration of PZT-fiber arrays in metal sheets: a numerical and experimental study. International Journal of Smart and Nano Materials, 2018, 9, 56-67.	4.2	1
39	Modellierung des Aufschwimmverhaltens hydrodynamischer Linearfhrungen bei konstanter Geschwindigkeit. Forschung im Ingenieurwesen/Engineering Research, 2019, 83, 267-272.	1.6	1
40	Immersive Presentations: Enabling Engaging Virtual Reality Based Training and Teaching by Merging Slide-Based and VR-Based Elements. , 2014, , 125-130.		1
41	VIRTUAL REALITY BASED DESIGN AND CALCULATION TOOL FOR IMPROVING DYNAMICS OF MACHINE TOOLS. MM Science Journal, 2015, 2015, 654-658.	0.4	1
42	Weak Point Analysis of Human Machine Interactions at Clamping of Turning Workpieces on Milling Machines. , 2019, , .		1
43	Influence of surface processing on the fracture strength of structurally integrated PZT fibers in shaped sheet metal parts. Proceedings of SPIE, 2015, , .	0.8	0
44	Mehrmaschinensysteme. , 2012, , 253-287.		0
45	Modelling and Numerical Analysis of Workpiece Clamping for Vertical Turning Regarding to the Clamping Safety. , 2019, , 208-217.		0