

J Paulo Davim

List of Publications by Year in descending order

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397
papers

17,842
citations

15001

68
h-index

23841

115
g-index

504
all docs

504
docs citations

504
times ranked

8543
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparative Assessment on Microstructure, Mechanical and Tribological Behaviour of Light Aluminium-Trialuminide Composites. <i>International Journal of Metalcasting</i> , 2023, 17, 813-828.	1.5	2
2	Effect of organoclays on mechanical properties of glass fiber-reinforced epoxy nanocomposite. <i>Polymer Bulletin</i> , 2022, 79, 5085-5103.	1.7	8
3	Machining of titanium alloys for medical application - a review. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2022, 236, 309-318.	1.5	21
4	An experimental investigation on milling features of fully-sintered zirconia ceramics using PCD tools. <i>Materials and Manufacturing Processes</i> , 2022, 37, 318-326.	2.7	7
5	SWOT analysis of Industry 4.0 variables using AHP methodology and structural equation modelling. <i>Benchmarking</i> , 2022, 29, 2147-2176.	2.9	17
6	Machining of Fibrous Composites: Recent Advances and Future Perspectives. <i>Materials Forming, Machining and Tribology</i> , 2022, , 161-177.	0.7	5
7	Design and Structural Simulations of a Custom Li-Po Accumulator for Low Range, Lightweight, Single-Seater, Open Cockpit, and Open-Wheeled Racecar. <i>Energies</i> , 2022, 15, 363.	1.6	1
8	The Combined Effect of Banana Fiber and Fly Ash Reinforcements on the Mechanical Behavior of Polyester Composites. <i>Journal of Natural Fibers</i> , 2022, 19, 11384-11403.	1.7	7
9	Comparative study of titanium alloys machinability used for medical applications. <i>Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering</i> , 2022, 236, 1845-1856.	1.4	4
10	On the Machining Temperature and Hole Quality of CFRP Laminates When Using Diamond-Coated Special Drills. <i>Journal of Composites Science</i> , 2022, 6, 45.	1.4	15
11	Numerical study of interface damage formation mechanisms in machining CFRP/Ti6Al4V stacks under different cutting sequence strategies. <i>Composite Structures</i> , 2022, 285, 115236.	3.1	25
12	Energy Conversion Strategies for Wind Energy System: Electrical, Mechanical and Material Aspects. <i>Materials</i> , 2022, 15, 1232.	1.3	26
13	Tool Wear Rate and Surface Integrity Studies in Wire Electric Discharge Machining of NiTiNOL Shape Memory Alloy Using Diffusion Annealed Coated Electrode Materials. <i>Machines</i> , 2022, 10, 138.	1.2	8
14	Tribological Performance Optimization of Mg-WC Nanocomposites in Dry Sliding: A Statistical Approach. <i>Frontiers in Materials</i> , 2022, 9, .	1.2	2
15	A critical review addressing drilling-induced damage of CFRP composites. <i>Composite Structures</i> , 2022, 294, 115594.	3.1	64
16	Higher Education for Sustainability: A Bibliometric Approach-What, Where and Who Is Doing Research in This Subject?. <i>Sustainability</i> , 2022, 14, 4482.	1.6	9
17	Characterization of Microstructure and High Temperature Compressive Strength of Austenitic Stainless Steel (21-4N) through Powder Metallurgy Route. <i>Crystals</i> , 2022, 12, 923.	1.0	2
18	Tribological Performance and Rheological Properties of Engine Oil with Graphene Nano-Additives. <i>Lubricants</i> , 2022, 10, 137.	1.2	15

#	ARTICLE	IF	CITATIONS
19	Structural and Mechanical Analysis of APCVD Deposited Diamond-Like Carbon Thin Films. Silicon, 2021, 13, 4453-4462.	1.8	11
20	A Study of the Effect of Conventional Drilling and Helical Milling in Surface Quality in Titanium Ti-6Al-4V and Ti-6Al-7Nb Alloys for Medical Applications. Arabian Journal for Science and Engineering, 2021, 46, 2361-2369.	1.7	18
21	Intelligent machining methods for Ti6Al4V: A review. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1188-1210.	1.4	5
22	Toolpath and machining parameters optimisation of the cavities of a knee prosthesis tibial insert. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2021, 235, 431-442.	1.5	0
23	Evaluation of desirability function approach and grey relation analysis for modeling circularity, perpendicularity and cylindricity in drilling magnesium AZ31. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 238-248.	1.4	9
24	Advanced materials and multi-materials applied in aeronautical and automotive fields: a systematic review approach. Procedia CIRP, 2021, 99, 196-201.	1.0	16
25	Material model assessment in Ti6Al4V machining simulations with FEM. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 5500-5510.	1.1	4
26	Surface topography in machining Ti alloys for biomedical applications: correlative microscopy approach for qualitative and quantitative analysis. International Journal of Advanced Manufacturing Technology, 2021, 114, 683-694.	1.5	10
27	Tribological characterisation of magnesium matrix nanocomposites: A review. Advances in Mechanical Engineering, 2021, 13, 168781402110090.	0.8	22
28	Wear behavior of special tools in the drilling of CFRP composite laminates. Wear, 2021, 476, 203738.	1.5	39
29	Experimental and Numerical Investigations in Mechanical Machining of Fibre-Reinforced Composite Materials. Advances in Materials Science and Engineering, 2021, 2021, 1-1.	1.0	0
30	A semi-analytical model for predicting tool wear progression in drilling CFRP. Wear, 2021, 486-487, 204119.	1.5	10
31	On Nanographene-Reinforced Polyvinylidene Fluoride Composite Matrix for 4D Applications. Journal of Materials Engineering and Performance, 2021, 30, 4860-4871.	1.2	21
32	Drilling of carbon fibre reinforced polymer (CFRP) composites: Difficulties, challenges and expectations. Procedia Manufacturing, 2021, 54, 284-289.	1.9	41
33	A review on micro-milling: recent advances and future trends. International Journal of Advanced Manufacturing Technology, 2021, 112, 655-684.	1.5	97
34	Machining responses of high-strength carbon/epoxy composites using diamond-coated brad spur drills. Materials and Manufacturing Processes, 2021, 36, 722-729.	2.7	15
35	Comparison between the machinability of different titanium alloys (Ti-6Al-4V and Ti-6Al-7Nb) employing the multi-objective optimization. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	5
36	Harmony Search Algorithm for Minimizing Assembly Variation in Non-linear Assembly. Applied Sciences (Switzerland), 2021, 11, 9213.	1.3	7

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37	A Novel Methodology for Simultaneous Minimization of Manufacturing Objectives in Tolerance Allocation of Complex Assembly. Applied Sciences (Switzerland), 2021, 11, 9164.	1.3	2
38	Optimization of Process Parameters for Turning Hastelloy X under Different Machining Environments Using Evolutionary Algorithms: A Comparative Study. Applied Sciences (Switzerland), 2021, 11, 9725.	1.3	11
39	On the effects of bio-based nanolubricants formulation for the turning of Inconel 718. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2021, 43, 1.	0.8	1
40	High-Temperature Corrosion Performance of FeAl-Based Alloys Containing Carbon in Molten Salt. Metals, 2021, 11, 2040.	1.0	0
41	Perspective on the mechanical response of pineapple leaf filler/toughened epoxy composites under diverse constraints. Polymer Bulletin, 2020, 77, 4105-4129.	1.7	11
42	Multivariate GR&R through factor analysis. Measurement: Journal of the International Measurement Confederation, 2020, 151, 107107.	2.5	11
43	Medical devices biomaterials <sc> â€“ A</sc> review. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2020, 234, 218-228.	0.7	42
44	On the analysis of temperatures, surface morphologies and tool wear in drilling CFRP/Ti6Al4V stacks under different cutting sequence strategies. Composite Structures, 2020, 234, 111708.	3.1	61
45	Comparative study of minimum quantity lubrication and dry drilling of CFRP/titanium stacks using TiAlN and diamond coated drills. Composite Structures, 2020, 234, 111727.	3.1	64
46	Drilling characteristics of carbon/epoxy and carbon/polyimide composites. Materials and Manufacturing Processes, 2020, 35, 1732-1740.	2.7	43
47	5. Digital tribology and the Industry 4.0 â€“ a note. , 2020, , 97-104.		1
48	Geometric Optimization of Drills Used to Repair Holes in Magnesium Aeronautical Components. Metals, 2020, 10, 1534.	1.0	4
49	Correlative microscopy analysis of surface topography in machining Ti-6Al-7Nb. Procedia CIRP, 2020, 88, 565-569.	1.0	5
50	Analysis of Forming Behavior in Cold Forging of AISI 1010 Steel Using Artificial Neural Network. Metals, 2020, 10, 1431.	1.0	6
51	Machinability Analysis and Optimization in Wire EDM of Medical Grade NiTiNOL Memory Alloy. Materials, 2020, 13, 2184.	1.3	29
52	On the machining behavior of carbon fiber reinforced polyimide and <sc>PEEK</sc> thermoplastic composites. Polymer Composites, 2020, 41, 3649-3663.	2.3	60
53	High speed machining of composite materials. , 2020, , 63-96.		0
54	Repairing Hybrid Mgâ€“Alâ€“Mg Components Using Sustainable Cooling Systems. Materials, 2020, 13, 393.	1.3	7

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55	Tribological characterization of particulate-reinforced aluminum metal matrix nanocomposites: A review. <i>Advanced Composites Letters</i> , 2020, 29, 2633366X2092140.	1.3	40
56	Sketch Entities. <i>Management and Industrial Engineering</i> , 2020, , 115-140.	0.3	0
57	Part Modeling Using Features. <i>Management and Industrial Engineering</i> , 2020, , 93-113.	0.3	0
58	Introduction to Sheet Metal. <i>Management and Industrial Engineering</i> , 2020, , 187-204.	0.3	0
59	Introduction to Sketching. <i>Management and Industrial Engineering</i> , 2020, , 31-66.	0.3	0
60	Assembly Continued. <i>Management and Industrial Engineering</i> , 2020, , 239-250.	0.3	0
61	Basics of Drawing. <i>Management and Industrial Engineering</i> , 2020, , 251-259.	0.3	0
62	Basic Sketch Relations and Dimensioning. <i>Management and Industrial Engineering</i> , 2020, , 67-91.	0.3	0
63	Features Including Cuts. <i>Management and Industrial Engineering</i> , 2020, , 141-169.	0.3	0
64	To Create a Foot Step Bearing. <i>Management and Industrial Engineering</i> , 2020, , 287-316.	0.3	0
65	Classification of Factors Associated with a Closed-Loop Supply Chain System, Their Modelling Methods and Strategies. <i>Management and Industrial Engineering</i> , 2020, , 19-35.	0.3	1
66	Computational Methods for Application in Industry 4.0. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , .	0.2	10
67	An assessment of thermosetting infiltrate in powder-based composites made by additive manufacturing. <i>Journal of Composite Materials</i> , 2019, 53, 873-882.	1.2	9
68	Swarm Intelligence-Based Methods. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 33-55.	0.2	2
69	Evolutionary-Based Methods. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 11-31.	0.2	3
70	Influence of the Gas Pressure of Plasma Nitriding on the Structural, Mechanical and Tribological Surface Properties of AISI 316L. <i>Materials Research</i> , 2019, 22, .	0.6	13
71	Feasibility Study of Hole Repair and Maintenance Operations by Dry Drilling of Magnesium Alloy UNS M11917 for Aeronautical Components. <i>Metals</i> , 2019, 9, 740.	1.0	5
72	Advanced cutting tools and technologies for drilling carbon fibre reinforced polymer (CFRP) composites: A review. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 125, 105552.	3.8	240

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73	Analysis of Secondary Adhesion Wear Mechanism on Hard Machining of Titanium Aerospace Alloy. <i>Materials</i> , 2019, 12, 2015.	1.3	13
74	Enhancing Productivity by Means of High Feed Rate in the Drilling of Al 2011 Aluminium Alloy. <i>Arabian Journal for Science and Engineering</i> , 2019, 44, 8035-8042.	1.7	3
75	Optimizing production in machining of hardened steels using response surface methodology. <i>Acta Scientiarum - Technology</i> , 2019, 41, 38091.	0.4	3
76	Modeling and optimization of Wire-EDM parameters for machining of Ni55.8Ti shape memory alloy using hybrid approach of Taguchi and NSGA-II. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 102, 1703-1717.	1.5	80
77	Multi-Response Optimization of Process Parameters in AWJ Machining of Hybrid GFRP Composite by Grey Relational Method. <i>Procedia Manufacturing</i> , 2019, 35, 1211-1221.	1.9	12
78	Modeling and Optimization of Fractal Dimension in Wire Electrical Discharge Machining of EN 31 Steel Using the ANN-GA Approach. <i>Materials</i> , 2019, 12, 454.	1.3	23
79	Tribology of materials for biomedical applications. , 2019, , 1-45.		12
80	Metallic biomaterials – A review. , 2019, , 83-99.		17
81	Machining of a biomaterial with dual negative tool geometry. , 2019, , 117-128.		0
82	Casting. <i>Materials Forming, Machining and Tribology</i> , 2019, , 37-52.	0.7	1
83	Introduction to Materials. <i>Materials Forming, Machining and Tribology</i> , 2019, , 3-20.	0.7	0
84	Mechanical Behaviour of Materials. <i>Materials Forming, Machining and Tribology</i> , 2019, , 21-34.	0.7	1
85	Forming. <i>Materials Forming, Machining and Tribology</i> , 2019, , 53-63.	0.7	1
86	Welding. <i>Materials Forming, Machining and Tribology</i> , 2019, , 65-81.	0.7	1
87	Requirements of Education and Qualification. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 27-33.	0.2	2
88	Risk Management Implementation. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 35-42.	0.2	1
89	Socio-technical Considerations. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 43-51.	0.2	3
90	Process Planning in Era 4.0. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2019, , 19-26.	0.2	3

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91	Intelligent Manufacturing. SpringerBriefs in Applied Sciences and Technology, 2019, , 1-17.	0.2	0
92	On wire spark erosion machining induced surface integrity of Ni55.8Ti shape memory alloys. Archives of Civil and Mechanical Engineering, 2019, 19, 680-693.	1.9	23
93	3-D reconstruction by extended depth-of-field in tribological analysis: Fractal approach of sliding surface in Polyamide66 with glass fiber reinforcement. Polymer Testing, 2019, 73, 178-185.	2.3	17
94	Fabrication and tribological study of AA6061 hybrid metal matrix composites reinforced with SiC/B ₄ C nanoparticles. Industrial Lubrication and Tribology, 2019, 71, 83-93.	0.6	34
95	Multi-objective robust design of helical milling hole quality on AISI H13 hardened steel by normalized normal constraint coupled with robust parameter design. Applied Soft Computing Journal, 2019, 75, 652-685.	4.1	17
96	Tool wear in dry helical milling for hole-making in AISI H13 hardened steel. International Journal of Advanced Manufacturing Technology, 2019, 101, 2425-2439.	1.5	14
97	Measurement and optimization of multi-response characteristics in plasma arc cutting of Monel 400, using RSM and TOPSIS. Measurement: Journal of the International Measurement Confederation, 2019, 135, 725-737.	2.5	53
98	History of Production and Industrial Engineering Through Contributions of Stalwarts. , 2019, , 1-29.		2
99	General Aspects of the Application of Computational Methods in Industry 4.0. SpringerBriefs in Applied Sciences and Technology, 2019, , 1-10.	0.2	0
100	Other Computational Methods for Optimization. SpringerBriefs in Applied Sciences and Technology, 2019, , 57-67.	0.2	1
101	Performance Study of LaPO ₄ -Y ₂ O ₃ Composite Fabricated by Sol-Gel Process Using Abrasive Waterjet Machining. Advances in Mechatronics and Mechanical Engineering, 2019, , 143-161.	1.0	0
102	Fuzzy Logic for Machining Applications. Advances in Mechatronics and Mechanical Engineering, 2019, , 341-361.	1.0	0
103	1. An insight into plant-based biodegradable composites. , 2019, , 3-12.		0
104	5. Additive manufacturing for patient-specific medical use. , 2019, , 199-228.		0
105	Heat treatment effects on tribological characteristics for AISI A8 tool steel and development of wear mechanism maps using K means clustering and neural networks. Tribology - Materials, Surfaces and Interfaces, 2018, 12, 44-56.	0.6	3
106	Influence of sliding velocity on the tribological behavior of PA66GF30 and PA66+MoS ₂ : an analysis of morphology of sliding surface by digital image processing. Polymer Bulletin, 2018, 75, 5113-5131.	1.7	19
107	Development of a comprehensive delamination assessment factor and its evaluation with high-speed drilling of composite laminates using a twist drill. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 2109-2121.	1.5	21
108	Elevator System Analysis in Deliberation of Dependability, Cost Under Coverage, and Copula Approaches. Management and Industrial Engineering, 2018, , 189-213.	0.3	0

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109	Multivariate robust modeling and optimization of cutting forces of the helical milling process of the aluminum alloy Al 7075. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 2691-2715.	1.5	12
110	Mechanical properties of bio compatible functional prototypes for joining applications in clinical dentistry. <i>International Journal of Production Research</i> , 2018, 56, 7330-7340.	4.9	18
111	Mechanical deburring and edge-finishing processes for aluminum parts—a review. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 95, 1101-1125.	1.5	33
112	3. A review on dry sliding wear behaviour of metal matrix composites. , 2018, , 47-64.		0
113	2. Effect of glass fiber reinforcement and the addition of MoS2 on the tribological behavior of PA66 under dry sliding conditions: A study of distribution of pixel intensity on the counterface. , 2018, , 31-46.		0
114	6. Analysis and optimization of hole quality parameters in cenosphere-multiwall carbon nanotube hybrid composites drilling using artificial neural network and gravitational search technique. , 2018, , 161-188.		0
115	4. Drilling of composite materials: methods and tools. , 2018, , 109-148.		0
116	Micro tool design and fabrication: A review. <i>Journal of Manufacturing Processes</i> , 2018, 36, 496-519.	2.8	50
117	Experimental investigation and optimization of PAC parameters on Monel 400â„¢ superalloy. <i>Materials and Manufacturing Processes</i> , 2018, 33, 1864-1873.	2.7	28
118	3D Progressive Damage Based Macro-Mechanical FE Simulation of Machining Unidirectional FRP Composite. <i>Chinese Journal of Mechanical Engineering (English Edition)</i> , 2018, 31, .	1.9	9
119	Behaviour of a biocompatible titanium alloy during orthogonal micro-cutting employing green machining techniques. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 98, 1573-1589.	1.5	9
120	Comparative Study of Tribological Behavior of Electroless Niâ€“B, Niâ€“Bâ€“Mo, and Niâ€“Bâ€“W Coatings at Room and High Temperatures. <i>Lubricants</i> , 2018, 6, 67.	1.2	20
121	Identification of Optimal Process Parameters in Electro-Discharge Machining Using ANN and PSO. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2018, , 72-90.	1.0	4
122	Wear of Composite Materials. , 2018, , .		8
123	Microstructure and wear characterization of rice husk ash reinforced copper matrix composites prepared using friction stir processing. <i>Journal of Alloys and Compounds</i> , 2017, 718, 150-160.	2.8	60
124	A review of helical milling process. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 120, 27-48.	6.2	117
125	Robust weighting applied to optimization of AISI H13 hardened-steel turning process with ceramic wiper tool: A diversity-based approach. <i>Precision Engineering</i> , 2017, 50, 235-247.	1.8	17
126	Multi-objective robust optimization of the sustainable helical milling process of the aluminum alloy Al 7075 using the augmented-enhanced normalized normal constraint method. <i>Journal of Cleaner Production</i> , 2017, 152, 474-496.	4.6	25

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127	Study Based on Sound Monitoring as a Means for Superficial Quality Control in Intermittent Turning of Magnesium Workpieces. <i>Procedia CIRP</i> , 2017, 62, 262-268.	1.0	10
128	Latest advances in the micro-milling of titanium alloys: a review. <i>Procedia Manufacturing</i> , 2017, 13, 275-282.	1.9	15
129	Carbon fiber reinforced metal matrix composites: Fabrication processes and properties. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 92, 70-96.	3.8	406
130	Laser-assisted bending by magnetic force. <i>Journal of Engineering</i> , 2017, 2017, 343-353.	0.6	10
131	Multiresponse optimization in wire electric discharge machining (WEDM) of HCHCr steel by integrating response surface methodology (RSM) with differential evolution (DE). , 2017, , 199-221.		16
132	3.3 Surface Finish Coatings. , 2017, , 38-55.		9
133	Optimization of Process Parameters Using Taguchi Coupled Genetic Algorithm. <i>Advances in Mechatronics and Mechanical Engineering</i> , 2017, , 67-93.	1.0	1
134	Optimization of Process Parameters Using Soft Computing Techniques. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2017, , 177-220.	0.4	2
135	Modeling and optimization in tribological parameters of polyether ether ketone matrix composites using D-optimal design. <i>Journal of Thermoplastic Composite Materials</i> , 2016, 29, 161-188.	2.6	16
136	The effect of minimum quantity lubrication in the intermittent turning of magnesium based on vibration signals. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 94, 338-343.	2.5	45
137	Analysis of behaviour biocompatible titanium alloy (Ti-6Al-7Nb) in the micro-cutting. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 93, 529-540.	2.5	46
138	Examination and modification of equivalent delamination factor for assessment of high speed drilling. <i>Journal of Mechanical Science and Technology</i> , 2016, 30, 5159-5165.	0.7	23
139	Influence of boron nitride nanoparticles on microstructure and wear behavior of AA6082/TiB 2 hybrid aluminum composites synthesized by friction stir processing. <i>Materials and Design</i> , 2016, 106, 195-204.	3.3	135
140	Assessment of delamination in composite materials: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016, 230, 1990-2003.	1.5	83
141	Analysis of the hard turning of AISI H13 steel with ceramic tools based on tool geometry: surface roughness, tool wear and their relation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 2413-2420.	0.8	36
142	Multi-objective Optimization of Engine Parameters While Bio-lubricant-Biofuel Combination of VCR Engine Using Taguchi-Grey Approach. <i>Materials Forming, Machining and Tribology</i> , 2016, , 105-123.	0.7	0
143	Parametric design optimization of hard turning of AISI 4340 steel (69 HRC). <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 451-462.	1.5	50
144	Recent developments in sustainable manufacturing of gears: a review. <i>Journal of Cleaner Production</i> , 2016, 112, 3320-3330.	4.6	159

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145	2D macro-mechanical FE simulations for machining unidirectional FRP composite: the influence of damage models. <i>Science and Engineering of Composite Materials</i> , 2016, 23, 659-670.	0.6	4
146	Surface Roughness Investigation in the Hard Turning of Steel Using Ceramic Tools. <i>Materials and Manufacturing Processes</i> , 2016, 31, 648-652.	2.7	49
147	Comparative study of the performance of diamond-coated drills on the delamination in drilling of carbon fiber reinforced plastics: Assessing the influence of the temperature of the drill. <i>Journal of Composite Materials</i> , 2016, 50, 179-189.	1.2	20
148	Design of Experimentsâ€™ Statistical and Artificial Intelligence Analysis for the Improvement of Machining Processes: A Review. <i>Management and Industrial Engineering</i> , 2016, , 89-107.	0.3	8
149	Computational Materials Design. <i>Advances in Chemical and Materials Engineering Book Series</i> , 2016, , 1-12.	0.2	1
150	Multiple performance optimization in drilling using Taguchi method with utility and modified utility concepts. , 2015, , 99-115.		4
151	5. Delamination in composite materials: measurement, assessment and prediction. , 2015, , 139-162.		6
152	7. A review on investigations in drilling of fiber reinforced plastics. , 2015, , 179-194.		14
153	A note on the use of the minimum quantity lubrication (MQL) system in turning. <i>Industrial Lubrication and Tribology</i> , 2015, 67, 256-261.	0.6	46
154	Analysis of ignition risk in intermittent turning of UNS M11917 magnesium alloy at low cutting speeds based on the chip morphology. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2015, 229, 365-371.	1.5	25
155	Gamification in engineering education and professional training. <i>International Journal of Mechanical Engineering Education</i> , 2015, 43, 118-131.	0.6	86
156	Finite Element Method in Machining Processes: A Review. <i>Materials Forming, Machining and Tribology</i> , 2015, , 65-97.	0.7	3
157	Machining and Machining Modeling of Metal Matrix Compositesâ€™ A Review. <i>Materials Forming, Machining and Tribology</i> , 2015, , 99-141.	0.7	8
158	Lubrication aspects during Single Point Incremental Forming for steel and aluminum materials. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 589-595.	1.1	75
159	Synthesis of Metal Matrix Composites. <i>SpringerBriefs in Applied Sciences and Technology</i> , 2015, , 21-34.	0.2	2
160	Specific cutting energy employed to study the influence of the grain size in the micro-milling of the hardened AISI H13 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 1591-1599.	1.5	15
161	Machinability of Magnesium and Its Alloys: A Review. <i>Materials Forming, Machining and Tribology</i> , 2015, , 133-152.	0.7	14
162	Design-of-experiments application in machining titanium alloys for aerospace structural components. Measurement: <i>Journal of the International Measurement Confederation</i> , 2015, 61, 280-290.	2.5	133

#	ARTICLE	IF	CITATIONS
163	Machining of Brittle Materials Using Nanostructured Diamond Tools. , 2015, , 129-153.		0
164	Fundamentals of Machining. , 2015, , 1-35.		1
165	Usinabilidade de materiais compósitos poliméricos para aplicações automotivas. Polimeros, 2014, 24, 711-719.	0.2	9
166	Experimental investigation on finish intermittent turning of UNS M11917 magnesium alloy under dry machining. International Journal of Advanced Manufacturing Technology, 2014, 75, 1417-1429.	1.5	39
167	Monitoring and processing signal applied in machining processes – A review. Measurement: Journal of the International Measurement Confederation, 2014, 58, 73-86.	2.5	219
168	Hot turning of a difficult-to-machine steel (sae xev-f) aided by infrared radiation. International Journal of Advanced Manufacturing Technology, 2014, 73, 887-898.	1.5	13
169	Experimental investigation on surface finish during intermittent turning of UNS M11917 magnesium alloy under dry and near dry machining conditions. Measurement: Journal of the International Measurement Confederation, 2014, 56, 136-154.	2.5	55
170	Experimental studies on hole quality and machinability characteristics in drilling of unreinforced and reinforced polyamides. Journal of Composite Materials, 2014, 48, 21-36.	1.2	27
171	Taylor's Model Based Analysis of Turning Inserts Tool-Life in the Dry Turning of UNS R56400 Alloy. , 2014, , .		1
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