Mohamed El Mansori

List of Publications by Year
in descending order

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113	3,511	109321 35	182427 51
papers	citations	h-index	g-index

113	113	113	1939
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation of material removal mechanisms and ductile-brittle transition zone of zirconia ceramics sintered at various temperatures. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104944.	3.1	10
2	Smart tribo-peening process for surface functionalization through digital twin concept. International Journal of Advanced Manufacturing Technology, 2021, 114, 3695-3717.	3.0	2
3	A review on the progress and challenges of binder jet 3D printing of sand moulds for advanced casting. Additive Manufacturing, 2021, 40, 101889.	3.0	45
4	Wear behavior of special tools in the drilling of CFRP composite laminates. Wear, 2021, 476, 203738.	3.1	39
5	Wear under brittle removal regime of an under-expanded cryogenic nitrogen jet machining of bio-composites. Wear, 2021, 477, 203795.	3.1	7
6	On the role of capillary and viscous forces on wear and frictional performances of natural fiber composites under lubricated polishing. Wear, 2021, 477, 203858.	3.1	8
7	Nano-scale mechanical behaviors and material removal mechanisms of zirconia ceramics sintered at various temperatures. Ceramics International, 2021, 47, 32588-32598.	4.8	10
8	Influence of sintering temperatures on material properties and corresponding milling machinability of zirconia ceramics. Journal of Manufacturing Processes, 2021, 68, 646-656.	5.9	15
9	Toward the mechanisms of surface texturing on the wear behavior of dental zirconia ceramics under dry and saliva lubricated conditions. Wear, 2021, 484-485, 203845.	3.1	18
10	Enhanced hydrophilicity and tribological behavior of dental zirconia ceramics based on picosecond laser surface texturing. Ceramics International, 2020, 46, 7161-7169.	4.8	44
11	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.	5.8	61
12	Comparative study of minimum quantity lubrication and dry drilling of CFRP/titanium stacks using TiAlN and diamond coated drills. Composite Structures, 2020, 234, 111727.	5.8	64
13	Effect of flax fiber orientation on machining behavior and surface finish of natural fiber reinforced polymer composites. Journal of Manufacturing Processes, 2020, 54, 337-346.	5.9	42
14	Numerical modeling of micro-friction and fiber orientation effects on the machinability of green composites. Tribology International, 2020, 150, 106380.	5.9	8
15	On the interpretation of drilling CFRP/Ti6Al4V stacks using the orthogonal cutting method: Chip removal mode and subsurface damage formation. Journal of Manufacturing Processes, 2019, 44, 435-447.	5.9	37
16	Orthogonal cutting mechanisms of CFRP/Ti6Al4V stacks. International Journal of Advanced Manufacturing Technology, 2019, 103, 3831-3851.	3.0	24
17	An investigation of drilling high-strength CFRP composites using specialized drills. International Journal of Advanced Manufacturing Technology, 2019, 103, 3425-3442.	3.0	74
18	Tribo-functional effects of double-crossed helix on surface finish, cutting friction and tool wear mechanisms during the milling process of natural fiber composites. Wear, 2019, 426-427, 1507-1514.	3.1	22

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19	Tool wear processes in low frequency vibration assisted drilling of CFRP/Ti6Al4V stacks with forced air-cooling. Wear, 2019, 426-427, 1616-1623.	3.1	51
20	New Multiscale Approach for Machining Analysis of Natural Fiber ReinforcedBio-Composites. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	18
21	Multiscale tribo-mechanical analysis of natural fiber composites for manufacturing applications. Tribology International, 2018, 122, 143-150.	5.9	38
22	Mechanics of material removal when cutting natural fiber reinforced thermoplastic composites. Polymer Testing, 2018, 67, 275-283.	4.8	31
23	The effect of ageing process on three-point bending strength and permeability of 3D printed sand molds. International Journal of Advanced Manufacturing Technology, 2018, 97, 1241-1251.	3.0	33
24	Effect of waviness and roughness on cylinder liner friction. Tribology International, 2018, 120, 547-555.	5.9	50
25	Selective laser melting of tungsten carbide reinforced maraging steel composite. Additive Manufacturing, 2018, 22, 104-110.	3.0	48
26	Investigation of process parameter effect on anisotropic properties of 3D printed sand molds. International Journal of Advanced Manufacturing Technology, 2018, 94, 2175-2185.	3.0	50
27	Study on the Frictional Heat at Tool-Work Interface when Drilling CFRP Composites. Procedia Manufacturing, 2018, 26, 415-423.	1.9	26
28	A Study on Drilling High-Strength CFRP Laminates: Frictional Heat and Cutting Temperature. Materials, 2018, 11, 2366.	2.9	25
29	Friction scale effect in drilling natural fiber composites. Tribology International, 2018, 119, 622-630.	5.9	31
30	Effect of the surface texturing scale on the self-clean function: Correlation between mechanical response and wetting behavior. Tribology International, 2017, 111, 91-99.	5.9	13
31	Study of spindle power data with neural network for predicting real-time tool wear/breakage during inconel drilling. Journal of Manufacturing Systems, 2017, 43, 287-295.	13.9	91
32	Wear characteristics of polycrystalline diamond tools in orthogonal cutting of CFRP/Ti stacks. Wear, 2017, 376-377, 91-106.	3.1	42
33	Industrial fluxless laser weld-brazing process of steel to aluminium at high brazing speed. Journal of Manufacturing Processes, 2017, 25, 104-115.	5.9	24
34	Scale effect on tribo-mechanical behavior of vegetal fibers in reinforced bio-composite materials. Composites Science and Technology, 2017, 150, 87-94.	7.8	29
35	Effect of Si, Cu and processing parameters on Al-Si-Cu HPDC castings. Journal of Materials Processing Technology, 2017, 249, 559-569.	6.3	54
36	Correlation between mechanical scales and analysis scales of topographic signals under milling process of natural fibre composites. Journal of Composite Materials, 2017, 51, 2743-2756.	2.4	15

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37	Cutting Modeling of Hybrid CFRP/Ti Composite with Induced Damage Analysis. Materials, 2016, 9, 22.	2.9	28
38	Experimental Studies on the Cutting Characteristics of Hybrid CFRP/Ti Stacks. Procedia Manufacturing, 2016, 5, 270-281.	1.9	28
39	Evaluation of tribothermal effectiveness of TiAlN-based bilayer coatings in cutting fiber-reinforced polymers. Tribology International, 2016, 103, 176-186.	5.9	1
40	Experimental study on drilling mechanisms and strategies of hybrid CFRP/Ti stacks. Composite Structures, 2016, 157, 461-482.	5.8	125
41	Enhancing Spindle Power Data Application with Neural Network for Real-time Tool Wear/Breakage Prediction During Inconel Drilling. Procedia Manufacturing, 2016, 5, 1-14.	1.9	24
42	Cutting performance and wear mechanisms of PVD coated carbide tools during dry drilling of newly produced ADI. AIP Conference Proceedings, 2016, , .	0.4	2
43	Numerical studies of frictional responses when cutting hybrid CFRP/Ti composite. International Journal of Advanced Manufacturing Technology, 2016, 87, 657-675.	3.0	22
44	Numerical modeling of stacked composite CFRP/Ti machining under different cutting sequence strategies. International Journal of Precision Engineering and Manufacturing, 2016, 17, 99-107.	2.2	38
45	On the multiscale tribological signatures of the tool helix angle in profile milling of woven flax fiber composites. Tribology International, 2016, 100, 132-140.	5.9	30
46	Recent advances in drilling hybrid FRP/Ti composite: A state-of-the-art review. Composite Structures, 2016, 135, 316-338.	5.8	190
47	Evaluation of Tooth Surface Micro-Finishing on Gear Noise. Key Engineering Materials, 2015, 651-653, 498-503.	0.4	3
48	Cutting modeling using cohesive zone concept of titanium/CFRP composite stacks. International Journal of Precision Engineering and Manufacturing, 2015, 16, 2091-2100.	2.2	24
49	Experimental study of coated tools effects in dry cutting of natural fiber reinforced plastics. Surface and Coatings Technology, 2015, 284, 264-272.	4.8	38
50	Multiscale assessment of structured coated abrasive grits in belt finishing process. Wear, 2015, 332-333, 780-787.	3.1	20
51	Dependence of tooth flank finishing on powertrain gear noise. Journal of Manufacturing Systems, 2015, 37, 467-471.	13.9	16
52	Microstructure Induced Wear Mechanisms of PVD-Coated Carbide Tools during Dry Drilling of Newly Produced ADI. Key Engineering Materials, 2015, 651-653, 1271-1276.	0.4	1
53	Wear study of structured coated belts in advanced abrasive belt finishing. Surface and Coatings Technology, 2015, 284, 365-376.	4.8	21
54	Analytical modeling of residual stress and the induced deflection of a milled thin plate. International Journal of Advanced Manufacturing Technology, 2014, 75, 455-463.	3.0	48

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55	Rigorous treatment of dry cutting of FRP â€“ Interface consumption concept: A review. International Journal of Mechanical Sciences, 2014, 83, 1-29.	6.7	50
56	Performance impact of honing dynamics on surface finish of precoated cylinder bores. Surface and Coatings Technology, 2013, 215, 334-339.	4.8	13
57	Running-in wear modeling of honed surface for combustion engine cylinderliners. Wear, 2013, 302, 1360-1369.	3.1	50
58	Mutual influence of crosshatch angle and superficial roughness of honed surfaces on friction in ring-pack tribo-system. Tribology International, 2013, 66, 54-59.	5.9	41
59	Analytical modeling to predict the cutting behavior of ferromagnetic steels: A coupled magneticâ€“mechanical approach. International Journal of Solids and Structures, 2013, 50, 2078-2086.	2.7	8
60	Effect of coating type on dry cutting of glass/epoxy composite. Surface and Coatings Technology, 2013, 215, 413-420.	4.8	7
61	Tribo-functional design of double cone drill implications in tool wear during drilling of copper mesh/CFRP/woven ply. Wear, 2013, 302, 1560-1567.	3.1	69
62	Effect of roughness on vibration of human finger during a friction test. Wear, 2013, 301, 343-352.	3.1	27
63	Wear resistance of CVD and PVD multilayer coatings when dry cutting fiber reinforced polymers (FRP). Wear, 2013, 302, 946-954.	3.1	61
64	Experimental study of the brittleâ€“ductile transition in hot cutting of SG iron specimens. Journal of Materials Processing Technology, 2013, 213, 201-213.	6.3	2
65	Extension of the Slip Band Area under Magnetization during Steel Machining. Materials and Manufacturing Processes, 2012, 27, 1073-1077.	4.7	4
66	Correlative thermal methodology for castability simulation of ductile iron in ADI production. Journal of Materials Processing Technology, 2012, 212, 2484-2495.	6.3	1
67	Material Characterization of Austempered Ductile Iron (ADI) Produced by a Sustainable Continuous Castingâ€“Heat Treatment Process. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 4755-4766.	2.2	17
68	Macroscopic simulation of the liner honing process. CIRP Annals - Manufacturing Technology, 2012, 61, 319-322.	3.6	24
69	The effect of groove texture patterns on piston-ring pack friction. Precision Engineering, 2012, 36, 210-217.	3.4	114
70	Drilling performance of green austempered ductile iron (ADI) grade produced by novel manufacturing technology. International Journal of Advanced Manufacturing Technology, 2012, 59, 9-19.	3.0	24
71	Wear resistance and induced cutting damage of aeronautical FRP components obtained by machining. Wear, 2011, 271, 2542-2548.	3.1	19
72	Study of dry and minimum quantity lubrication drilling of novel austempered ductile iron (ADI) for automotive applications. Wear, 2011, 271, 2412-2416.	3.1	65

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73	Multiscale study of finish-honing process in mass production of cylinder liner. Wear, 2011, 271, 509-513.	3.1	41
74	A new friction law for sticking and sliding contacts in machining. Tribology International, 2011, 44, 764-771.	5.9	64
75	Machinability of Austempered Ductile Iron (ADI) Produced by Integrated Green Technology of Continuous Casting-Heat Treatment Processes. , 2011, , .		0
76	Interferometric And Microscopic Measurements Of Surface Finish Appearance Evaluations Of Ophthalmic Lens Edges. , 2011, , .		2
77	Optimisation fonctionnelle de production par rodage des surfaces des fÃ»ts de moteur. Mecanique Et Industries, 2010, 11, 365-377.	0.2	3
78	Recrystallisation of austenite grain when non-isotherm steel working: Effects of thermal kinetics and deformation-based mechanisms. Materials & Design, 2010, 31, 4808-4815.	5.1	6
79	Effects of abrasive tools on surface finishing under brittle-ductile grinding regimes when manufacturing glass. Journal of Materials Processing Technology, 2010, 210, 466-473.	6.3	23
80	An equivalent ellipse method to analyse the fatigue behaviour following â€˜multi-surface initiationsâ€™. International Journal of Mechanical Sciences, 2010, 52, 1125-1135.	6.7	1
81	A study on the influence of bond material on honing engine cylinder bores with coated diamond stones. Surface and Coatings Technology, 2010, 205, 1515-1519.	4.8	15
82	On concept of process signature in analysis of multistage surface formation. Surface Engineering, 2010, 26, 216-223.	2.2	38
83	Friction Model for an Intermediate Orientation and Density of Fibres in Dry Cutting of Composites. , 2010, , .		1
84	Process variability in honing of cylinder liner with vitrified bonded diamond tools. Surface and Coatings Technology, 2009, 204, 1046-1050.	4.8	40
85	Influence of thermal conductivity on wear when machining titanium alloys. Tribology International, 2009, 42, 359-372.	5.9	42
86	Tribo-energetic correlation of tool thermal properties to wear of WC-Co inserts in high speed dry machining of aeronautical grade titanium alloys. Wear, 2009, 266, 432-443.	3.1	38
87	Wear mechanism maps for the belt finishing of steel and cast iron. Wear, 2009, 267, 86-91.	3.1	24
88	On some tribological effects of graphite nodules in wear mechanism of SG cast iron: Finite element and experimental analysis. Wear, 2009, 267, 535-539.	3.1	23
89	Friction-induced work hardening of cobalt-base hardfacing deposits for hot forging tools. Journal of Materials Processing Technology, 2009, 209, 3366-3373.	6.3	27
90	Finite element analysis when machining UGF-reinforced PMCs plates: Chip formation, crack propagation and induced-damage. Materials & Design, 2009, 30, 3295-3302.	5.1	39

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91	Modelling of chip separation in machining unidirectional FRP composites by stiffness degradation concept. Composites Science and Technology, 2009, 69, 684-692.	7.8	121
92	New criterion of grain size choice for optimal surface texture and tolerance in belt finishing production. Wear, 2009, 266, 578-580.	3.1	28
93	Effect of machining parameters on high-cycle fatigue behaviour of aluminium matrix composites reinforced with silicon carbide particulates. International Journal of Computer Applications in Technology, 2009, 36, 38.	0.5	1
94	Abrasiveness properties assessment of coated abrasives for precision belt grinding. Surface and Coatings Technology, 2008, 203, 786-789.	4.8	35
95	Correlation between surface topography and tribological mechanisms of the belt-finishing process using multiscale finishing process signature. Comptes Rendus - Mecanique, 2008, 336, 794-799.	2.1	21
96	A microâ€“macro combined approach using FEM for modelling of machining of FRP composites: Cutting forces analysis. Composites Science and Technology, 2008, 68, 3123-3127.	7.8	82
97	Mechanical modelling of micro-scale abrasion in superfinish belt grinding. Tribology International, 2008, 41, 992-1001.	5.9	48
98	The Effect of Belt Finishing Process Variables on the Topography of Finished Surfaces. Tribology Transactions, 2008, 51, 413-421.	2.0	12
99	3D Multi-Scale Topography Analysis in Specifying Quality of Honed Surfaces. , 2008, , .		1
100	MACHINABILITY OF Al/SiC PARTICULATE METAL-MATRIX COMPOSITES UNDER DRY CONDITIONS WITH CVD DIAMOND-COATED CARBIDE TOOLS. Machining Science and Technology, 2008, 12, 214-233.	2.5	30
101	Working parameters effects on machining-induced damage of fibre-reinforced composites: numerical simulation analysis. International Journal of Materials and Product Technology, 2008, 32, 136.	0.2	8
102	AN ENERGY ANALYSIS OF BELT POLISHING PROCESS AND ITS APPLICATIONS TO TIME CYCLE AND TRACKING EFFECTS. Machining Science and Technology, 2007, 11, 217-234.	2.5	12
103	Analyse tribo-Ã©nergÃ©tique du dÃ©laminage des couches de revÃªtements des outils coupants lors d'un usinage Ã sec des alliages aÃ©ronautiques. Mecanique Et Industries, 2007, 8, 325-335.	0.2	0
104	ProcÃ©dÃ© de superfinition par toilage : analyse Ã©nergÃ©tique desÂvariables "process" â€“ temps de cycle et frÃ©quence d'oscillation. Mecanique Et Industries, 2007, 8, 551-558.	0.2	2
105	Role of welding process energy on the microstructural variations in a cobalt base superalloy hardfacing. Surface and Coatings Technology, 2007, 201, 6445-6451.	4.8	26
106	Surface plastic deformation in dry cutting at magnetically assisted machining. Surface and Coatings Technology, 2007, 202, 1118-1122.	4.8	15
107	Dry machinability of nickel-based weld-hardfacing layers for hot tooling. International Journal of Machine Tools and Manufacture, 2007, 47, 1715-1727.	13.4	22
108	Toward physical description of form and finish performance in dry belt finishing process by a tribo-energetic approach. Journal of Materials Processing Technology, 2007, 182, 498-511.	6.3	29

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109	Influence of specimen preparation by machining on the failure of polymer matrix off-axis tensile coupons. Composites Science and Technology, 2006, 66, 1857-1872.	7.8	49
110	Magnetic Field Effects in Machining Processes and on Manufactured Part Mechanical Characteristics. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 136-145.	2.2	9
111	Edge machining effects on the failure of polymer matrix composite coupons. Composites Part A: Applied Science and Manufacturing, 2004, 35, 989-999.	7.6	71
112	Third Body Effects on Graphite/XC48 Steel Magnetized Sliding Contact. Journal of Tribology, 1999, 121, 403-407.	1.9	8
113	Transferred Layers Properties in Dry Sliding Contact of Copper/Carbon-Carbon Composite Couple. Materials Science Forum, 1998, 287-288, 271-272.	0.3	0