

Khaled Elleuch

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,273
citations

361296

20
h-index

414303

32
g-index

70
all docs

70
docs citations

70
times ranked

1244
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of UV-aging of thermoplastic polyurethane material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2010, 527, 1649-1654.	2.6	119
2	Thermoelectric behaviour of melt processed carbon nanotube/graphite/poly(lactic acid) conductive biopolymer nanocomposites (CPC). <i>Materials Letters</i> , 2012, 67, 210-214.	1.3	88
3	Prediction of crack nucleation under partial slip fretting conditions. <i>Journal of Strain Analysis for Engineering Design</i> , 2002, 37, 549-564.	1.0	57
4	Tribological response of an epoxy matrix filled with graphite and/or carbon nanotubes. <i>Friction</i> , 2017, 5, 171-182.	3.4	57
5	Wear analysis of A357 aluminium alloy under fretting. <i>Wear</i> , 2002, 253, 662-672.	1.5	56
6	Tribological behavior of thermoplastic polyurethane elastomers. <i>Materials & Design</i> , 2007, 28, 824-830.	5.1	55
7	Optimization of anodic layer properties on aluminium in mixed oxalic/sulphuric acid bath using statistical experimental methods. <i>Surface and Coatings Technology</i> , 2007, 201, 7855-7864.	2.2	44
8	Experimental and modelling aspects of abrasive wear of a A357 aluminium alloy under gross slip fretting conditions. <i>Wear</i> , 2005, 258, 40-49.	1.5	41
9	Sliding wear transition for the CW614 brass alloy. <i>Tribology International</i> , 2006, 39, 290-296.	3.0	39
10	Aging effect on thermal, mechanical and tribological behaviour of polymeric coatings used for pipeline application. <i>Journal of Materials Processing Technology</i> , 2008, 203, 404-410.	3.1	39
11	Surface roughness effect on friction behaviour of elastomeric material. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007, 465, 8-12.	2.6	38
12	Modeling and computation of the three-roller bending process of steel sheets. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 123-128.	0.7	35
13	Tribological performance of TiN coatings deposited on 304L stainless steel used for olive-oil extraction. <i>Wear</i> , 2015, 342-343, 77-84.	1.5	34
14	Effect of filler addition and weathering conditions on the performance of PVC/CaCO ₃ composites. <i>Polymer Composites</i> , 2016, 37, 2171-2183.	2.3	31
15	Friction coefficient and microhardness of anodized aluminum alloys under different elaboration conditions. <i>Transactions of Nonferrous Metals Society of China</i> , 2015, 25, 1950-1960.	1.7	30
16	Comparison of elastic and tactile behavior of human skin and elastomeric materials through tribological tests. <i>Polymer Engineering and Science</i> , 2006, 46, 1715-1720.	1.5	28
17	Wear protection potential of TiN coatings for 304 stainless steels used in rotating parts during olive oil extraction. <i>Surface and Coatings Technology</i> , 2016, 304, 560-566.	2.2	27
18	The effect of nanocrystallized surface on the tribocorrosion behavior of 304L stainless steel. <i>Wear</i> , 2018, 394-395, 71-79.	1.5	26

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19	Hammer premature wear in mineral crushing process. Tribology International, 2017, 115, 493-505.	3.0	24
20	Finite element modeling of superelastic nickel-titanium orthodontic wires. Journal of Biomechanics, 2014, 47, 3630-3638.	0.9	22
21	On the erosive wear of 304 L stainless steel caused by olive seed particles impact: Modeling and experiments. Tribology International, 2016, 102, 608-619.	3.0	20
22	Fretting maps for anodised aluminium alloys. Thin Solid Films, 2003, 426, 271-280.	0.8	19
23	Ductile fracture of AISI 304L stainless steel sheet in stretching. International Journal of Mechanical Sciences, 2020, 172, 105404.	3.6	18
24	The effect of sulphuric anodisation of aluminium alloys on contact problems. Surface and Coatings Technology, 2006, 200, 2852-2856.	2.2	17
25	Thermophysical and Radiative Properties of Conductive Biopolymer Composite. Materials Science Forum, 0, 714, 115-122.	0.3	17
26	On the tribocorrosion behavior of 304L stainless steel in olive pomace/tap water filtrate. Wear, 2015, 328-329, 509-517.	1.5	16
27	Abrasive wear of aluminium alloys rubbed against sand. Wear, 2006, 261, 1316-1321.	1.5	14
28	Optimization of mechanical and chemical properties of sulphuric anodized aluminium using statistical experimental methods. Materials Chemistry and Physics, 2008, 108, 296-305.	2.0	14
29	On the behaviour of obsidian under scratch test. Wear, 2009, 266, 621-626.	1.5	13
30	Failure analysis of a cold work tool material slides against carbon steel in sheet metal forming process - A case study of hinges production. International Journal of Advanced Manufacturing Technology, 2017, 88, 3151-3161.	1.5	13
31	The effects of TiO ₂ sol concentration on single- and multiple-scratch damage in electroplated Ni-B-TiO ₂ sol composite coating. Ceramics International, 2020, 46, 3767-3776.	2.3	13
32	On the mechanical behaviour of industrial PVC pipes under pressure loading: experimental and numerical studies. Journal of Polymer Research, 2020, 27, 1.	1.2	13
33	Eco-plastics: Morphological and mechanical properties of recycled poly(carbonate)-crushed rubber (rPC-rCR) blends. Polymer Engineering and Science, 2007, 47, 1768-1776.	1.5	11
34	Susceptibility to scratch damage of high density polyethylene coating. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 492, 400-406.	2.6	11
35	Optimization of tartaric/sulphuric acid anodizing process using Doehlert design. Surface and Coatings Technology, 2012, 207, 123-129.	2.2	10
36	Low Cycle Fatigue behavior of SMAW welded Alloy28 superaustenitic stainless steel at room temperature. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 651, 556-566.	2.6	10

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37	Electrophoretic impregnation of porous anodizing layer by synthesized TiO ₂ nanoparticles. Surface Engineering and Applied Electrochemistry, 2017, 53, 467-474.	0.3	10
38	Mechanical and tribological properties of tricalcium phosphate reinforced with fluorapatite as coating for orthopedic implant. Materials Letters, 2018, 215, 53-57.	1.3	10
39	Optimization of mechanical and tribological properties of anodized 5754 aluminium alloy. Surface Engineering and Applied Electrochemistry, 2017, 53, 371-382.	0.3	9
40	Tribological properties of Niâ€“Bâ€“TiO ₂ sol composite coating elaborated by sol-enhanced process: abrasive wear and impact wear. Journal of Materials Research and Technology, 2021, 13, 857-871.	2.6	9
41	Damage of Stainless Steel Components by Olive Paste. Tribology Transactions, 2016, 59, 856-864.	1.1	8
42	Brinell indentation behavior of the stainless steel X2CrNi18-9: Modeling and experiments. International Journal of Mechanical Sciences, 2019, 163, 105142.	3.6	8
43	Comparative investigation of scratch resistance and tribological performance of Niâ€“Bâ€“TiO ₂ composite coatings prepared by conventional and novel processing methods. Ceramics International, 2021, 47, 14438-14454.	2.3	8
44	Friction damage of aluminium alloys. Industrial Lubrication and Tribology, 2003, 55, 279-286.	0.6	7
45	On the Tribocorrosion Responses of Two Stainless Steels. Tribology Transactions, 2018, 61, 53-60.	1.1	7
46	Development of a contact compliance method to detect the crack propagation under fretting. Tribology International, 2006, 39, 1262-1270.	3.0	6
47	Effect of surface topography with different groove angles on tribological behavior of the wheel/rail contact using alternative machine. Friction, 2016, 4, 238-248.	3.4	6
48	Estimation of the elastic modulus of the alumina coated AA1050 aluminum: Modeling and experiments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 670, 188-195.	2.6	6
49	Tribological properties of deflected NiTi superelastic archwire using a new experimental set-up: Stress-induced martensitic transformation effect. Tribology International, 2020, 146, 106033.	3.0	6
50	On the peel behavior of polymer coatingâ€“steel system: Effect of hygrothermal aging. Advances in Polymer Technology, 2010, 29, 185-196.	0.8	5
51	Sheet metal forming in the case of hinge manufacturing process. Part 1: Experimental study. International Journal of Advanced Manufacturing Technology, 2018, 94, 2635-2643.	1.5	5
52	AISI D2 punch head damage: Fatigue and wear mechanism. Engineering Failure Analysis, 2021, 129, 105676.	1.8	5
53	Magnetic Carbon Nanofiber Mats for Prospective Single Photon Avalanche Diode (SPAD) Sensing Applications. Sensors, 2021, 21, 7873.	2.1	5
54	Sheet metal forming in the case of hinge manufacturing process. Part 2: Numerical study. International Journal of Advanced Manufacturing Technology, 2018, 95, 367-374.	1.5	4

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55	Failure mode analysis of SMAW welded UNS N08028 (Alloy28) superaustenitic stainless steel under crack growth tests. Engineering Failure Analysis, 2019, 97, 804-819.	1.8	4
56	Innovative biocomposite development based on the incorporation of <i>Salvadora persica</i> in acrylic resin for dental material. Journal of Thermoplastic Composite Materials, 2022, 35, 1815-1831.	2.6	4
57	Tribological behavior of virgin and aged polymeric pipes under dry sliding conditions against steel. Tribology International, 2021, 154, 106727.	3.0	4
58	On the Wind Energy Conversion Systems. , 2018, , .		3
59	Adaptive neural control of a greenhouse. , 2019, , .		3
60	On the failure of punching process. Engineering Failure Analysis, 2021, 120, 105035.	1.8	3
61	Tribological behavior of 304 L stainless steel used for olive oil extraction. Mechanics and Industry, 2017, 18, 207.	0.5	2
62	Thermal Wear Sensing System: Proof of the Concept. Journal of Materials Engineering and Performance, 2018, 27, 4635-4644.	1.2	2
63	Reverse deep drawing process: Material anisotropy and work-hardening effects. Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications, 2019, 233, 699-713.	0.7	2
64	Susceptibility to corrosion damage of pipeline steels under coating disbondments. Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 43-50.	0.8	1
65	Effects of saliva addition on the wear resistance of deflected NiTi archwire for biomedical application. Materials Letters, 2020, 268, 127550.	1.3	1
66	Investigation on the Wear Resistance of Ni-B-TiO ₂ Composite Coatings for Dry Crushing Application. Advances in Chemical and Materials Engineering Book Series, 2022, , 218-244.	0.2	1
67	Conductive eco-polymer composites: wear behaviour of recycled polycarbonate/crushed rubber microparticles. Plastics, Rubber and Composites, 2011, 40, 139-145.	0.9	0
68	Effects of 316SS addition on the properties of the coatings based on Al ₂ O ₃ applied by plasma spraying. Journal of Composite Materials, 2018, 52, 2597-2608.	1.2	0
69	Wear behavior of new biomaterial composite for dental application. Polymers and Polymer Composites, 2020, 28, 654-662.	1.0	0
70	Effect of Changing Temperature and Wire Cross Section on the Tribological Behavior of the NiTi Alloy. Lecture Notes in Mechanical Engineering, 2020, , 221-230.	0.3	0