

Mihaela Buciumeanu

List of Publications by Year in descending order

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60
papers

1,838
citations

218592

26
h-index

276775

41
g-index

61
all docs

61
docs citations

61
times ranked

1859
citing authors

#	ARTICLE	IF	CITATIONS
1	Design and surface characterization of micropatterned silica coatings for zirconia dental implants. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 126, 105060.	1.5	8
2	Tribocorrosion Behavior of NiTi Biomedical Alloy Processed by an Additive Manufacturing Laser Beam Directed Energy Deposition Technique. Materials, 2022, 15, 691.	1.3	8
3	Influence of Fiber Orientation and Fillers on Low Velocity Impact Response of the Fabric Reinforced Epoxy Composites. Applied Composite Materials, 2021, 28, 1277-1290.	1.3	3
4	Novel laser textured surface designs for improved zirconia implants performance. Materials Science and Engineering C, 2020, 108, 110390.	3.8	29
5	Aunps and Ag ^{1/4} ps-functionalized zirconia surfaces by hybrid laser technology for dental implants. Ceramics International, 2020, 46, 7109-7121.	2.3	13
6	Validation of professional tooth brushing test device, test methodology and analysis. IOP Conference Series: Materials Science and Engineering, 2020, 724, 012056.	0.3	0
7	Mechanical and tribological performance of Ni-Co-based binders for cubic boron nitride cutting tools. Journal of Composite Materials, 2020, 54, 2753-2760.	1.2	1
8	Influence of sintering pressure on the microstructure and tribological properties of low temperature fast sintered hot-pressed Y-TZP. Ceramics International, 2019, 45, 5883-5893.	2.3	9
9	Novel laser surface texturing for improved primary stability of titanium implants. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 98, 26-39.	1.5	45
10	Multi-material Ti6Al4V & PEEK cellular structures produced by Selective Laser Melting and Hot Pressing: A tribocorrosion study targeting orthopedic applications. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 89, 54-64.	1.5	34
11	Low velocity impact response of fabric reinforced hybrid composites with stratified filled epoxy matrix. Composites Science and Technology, 2019, 169, 242-248.	3.8	45
12	Ti6Al4V laser surface preparation and functionalization using hydroxyapatite for biomedical applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 1534-1545.	1.6	22
13	Ti6Al4V cellular structures impregnated with biomedical PEEK - New material design for improved tribological behavior. Tribology International, 2018, 119, 157-164.	3.0	30
14	Tribocorrosion behavior of additive manufactured Ti-6Al-4V biomedical alloy. Tribology International, 2018, 119, 381-388.	3.0	66
15	Nickel-cobalt-based materials for diamond cutting tools. International Journal of Advanced Manufacturing Technology, 2018, 95, 1059-1067.	1.5	15
16	Tribological characterization of bioactive zirconia composite layers on zirconia structures. Ceramics International, 2018, 44, 18663-18671.	2.3	9
17	Copper-nickel-based diamond cutting tools: stone cutting evaluation. International Journal of Advanced Manufacturing Technology, 2017, 92, 1339-1348.	1.5	16
18	Wear behavior of Ti6Al4V biomedical alloys processed by selective laser melting, hot pressing and conventional casting. Transactions of Nonferrous Metals Society of China, 2017, 27, 829-838.	1.7	101

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19	Laser surface structuring of Ti6Al4V substrates for adhesion enhancement in Ti6Al4V-PEEK joints. <i>Materials Science and Engineering C</i> , 2017, 79, 177-184.	3.8	36
20	316L stainless steel mechanical and tribological behavior – A comparison between selective laser melting, hot pressing and conventional casting. <i>Additive Manufacturing</i> , 2017, 16, 81-89.	1.7	203
21	The effect of surface treatment on the friction and wear behavior of dental Y-TZP ceramic against human enamel. <i>Tribology International</i> , 2017, 116, 192-198.	3.0	36
22	Microstructure, Mechanical and Wear Behaviors of Hot-Pressed Copper-Nickel-Based Materials for Diamond Cutting Tools. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 4046-4055.	1.2	31
23	Effect of laser surface texturing on primary stability and surface properties of zirconia implants. <i>Ceramics International</i> , 2017, 43, 15227-15236.	2.3	61
24	Study of the tribocorrosion behaviour of Ti6Al4V – HA biocomposites. <i>Tribology International</i> , 2017, 107, 77-84.	3.0	56
25	Metallic reinforcements role on aluminum silicon composites wear behavior. <i>Journal of Composite Materials</i> , 2017, 51, 2805-2812.	1.2	6
26	Interface analysis on an eutectic AlSi alloy reinforced with Ni coated MWCNT. <i>Composites Part B: Engineering</i> , 2016, 93, 229-235.	5.9	19
27	Design of Ti6Al4V-HA composites produced by hot pressing for biomedical applications. <i>Materials and Design</i> , 2016, 108, 488-493.	3.3	53
28	Tribological behavior of zirconia-reinforced glass – ceramic composites in artificial saliva. <i>Tribology International</i> , 2016, 103, 379-387.	3.0	30
29	Effects of poly-ether-ether ketone (PEEK) veneer thickness on the reciprocating friction and wear behavior of PEEK/Ti6Al4V structures in artificial saliva. <i>Wear</i> , 2016, 368-369, 84-91.	1.5	24
30	Abrasive and sliding wear of resin composites for dental restorations. <i>Tribology International</i> , 2016, 102, 154-160.	3.0	55
31	Tribological behaviour of glass-ceramics reinforced by Yttria Stabilized Zirconia. <i>Tribology International</i> , 2016, 102, 361-370.	3.0	20
32	Comparison between PEEK and Ti6Al4V concerning micro-scale abrasion wear on dental applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 60, 212-219.	1.5	44
33	Pressure and sintering temperature influence on the interface reaction of SiCp/410L stainless steel composites. <i>Journal of Composite Materials</i> , 2016, 50, 2005-2015.	1.2	11
34	Tribocorrosion behavior of hot pressed CoCrMo alloys in artificial saliva. <i>Tribology International</i> , 2016, 97, 423-430.	3.0	46
35	Mechanisms governing the mechanical behavior of an AlSi – CNTs – SiCp hybrid composite. <i>Composites Part B: Engineering</i> , 2016, 90, 443-449.	5.9	20
36	High temperature damping behavior and dynamic Young's modulus of AlSi – CNT – SiCp hybrid composite. <i>Composite Structures</i> , 2016, 141, 155-162.	3.1	25

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37	Development of a method to produce FGMs by controlling the reinforcement distribution. <i>Materials and Design</i> , 2016, 92, 233-239.	3.3	22
38	Tribocorrosion behavior of veneering biomedical PEEK to Ti6Al4V structures. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016, 54, 123-130.	1.5	65
39	Mechanisms governing the tensile, fatigue, and wear behavior of carbon nanotube reinforced aluminum alloy. <i>Mechanics of Advanced Materials and Structures</i> , 2016, 23, 917-925.	1.5	21
40	Optimization of AlSi/CNTs functionally graded material composites for engine piston rings. <i>Materials & Design</i> , 2015, 80, 163-173.	5.1	50
41	Tribocorrosion Behavior of Ti6Al4V Coated with a Bio-absorbable Polymer for Biomedical Applications. <i>Journal of Bio- and Tribo-Corrosion</i> , 2015, 1, 1.	1.2	22
42	Improvement on Sliding Wear Behavior of Al/Cast Iron Tribopair by CNT's Reinforcement of an Al Alloy. <i>Tribology Transactions</i> , 2015, 58, 643-653.	1.1	13
43	Hybrid composites – Metallic and ceramic reinforcements influence on mechanical and wear behavior. <i>Composites Part B: Engineering</i> , 2015, 74, 153-165.	5.9	41
44	Dry sliding wear behaviour of AlSi/CNTs/SiCp hybrid composites. <i>Tribology International</i> , 2015, 90, 148-156.	3.0	54
45	Tribocorrosion behaviour of hot pressed CoCrMo~HAP biocomposites. <i>Tribology International</i> , 2015, 91, 221-227.	3.0	17
46	Evaluation of CNT Dispersion Methodology Effect on Mechanical Properties of an AlSi Composite. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 2535-2545.	1.2	27
47	Mechanical Strength and Wear of Dental Glass-Ionomer and Resin Composites Affected by Porosity and Chemical Composition. <i>Journal of Bio- and Tribo-Corrosion</i> , 2015, 1, 1.	1.2	32
48	Interface analysis and wear behavior of Ni particulate reinforced aluminum~silicon composites produced by PM. <i>Composites Part B: Engineering</i> , 2015, 69, 101-110.	5.9	29
49	Tribocorrosion behaviour of hot pressed CoCrMo~Al ₂ O ₃ composites for biomedical applications. <i>Tribology - Materials, Surfaces and Interfaces</i> , 2014, 8, 201-208.	0.6	16
50	Dry sliding and tribocorrosion behaviour of hot pressed CoCrMo biomedical alloy as compared with the cast CoCrMo and Ti6Al4V alloys. <i>Materials & Design</i> , 2013, 52, 47-57.	5.1	133
51	Fatigue Behaviour of Naval Steel Under Seawater Environmental and Variable Loading Conditions. <i>Journal of Iron and Steel Research International</i> , 2011, 18, 64-69.	1.4	4
52	Fatigue life predictions including the Bauschinger effect. <i>International Journal of Fatigue</i> , 2011, 33, 145-152.	2.8	26
53	Influence of wear damage on the fretting fatigue life prediction of an Al7175 alloy. <i>International Journal of Fatigue</i> , 2009, 31, 1278-1285.	2.8	12
54	Influence of an additional elastic stress on dry wear behaviour in reciprocating tests. <i>Tribology International</i> , 2009, 42, 1101-1107.	3.0	4

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55	Influence of Wear Properties on Fretting Fatigue Life of a CK45 Alloy and the Al7175 Alloy. Materials Science Forum, 2008, 587-588, 971-975.	0.3	2
56	Design improvement of an automotive-formed suspension component subjected to fretting fatigue. Engineering Failure Analysis, 2007, 14, 810-821.	1.8	10
57	Evolution of Relevant Parameters on Fretting Fatigue Tests. Key Engineering Materials, 0, 385-387, 565-568.	0.4	2
58	3D Roughness Parameters as Factors in Determining the Evolution of Effective Stress Concentration Factors in Fatigue Processes. Applied Mechanics and Materials, 0, 248, 504-510.	0.2	5
59	Surface Integrity of Ti6Al4V Alloy under Dry Sliding Conditions. Applied Mechanics and Materials, 0, 371, 126-130.	0.2	0
60	A Simplified Method for Wear Loss Prediction in Corrosive Environment. Applied Mechanics and Materials, 0, 436, 121-126.	0.2	0