Mihaela Buciumeanu

List of Publications by Year
in descending order

60	1,838	218592	276775
papers	citations	26 h-index	41 g-index

61	61	61	1859
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	316L stainless steel mechanical and tribological behaviorâ€"A comparison between selective laser melting, hot pressing and conventional casting. Additive Manufacturing, 2017, 16, 81-89.	1.7	203
2	Dry sliding and tribocorrosion behaviour of hot pressed CoCrMo biomedical alloy as compared with the cast CoCrMo and Ti6Al4V alloys. Materials & Design, 2013, 52, 47-57.	5.1	133
3	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
4	Tribocorrosion behavior of additive manufactured Ti-6Al-4V biomedical alloy. Tribology International, 2018, 119, 381-388.	3.0	66
5	Tribocorrosion behavior of veneering biomedical PEEK to Ti6Al4V structures. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 54, 123-130.	1.5	65
6	Effect of laser surface texturing on primary stability and surface properties of zirconia implants. Ceramics International, 2017, 43, 15227-15236.	2.3	61
7	Study of the tribocorrosion behaviour of Ti6Al4V â€“ HA biocomposites. Tribology International, 2017, 107, 77-84.	3.0	56
8	Abrasive and sliding wear of resin composites for dental restorations. Tribology International, 2016, 102, 154-160.	3.0	55
9	Dry sliding wear behaviour of AlSiâ€"CNTsâ€"SiCp hybrid composites. Tribology International, 2015, 90, 148-156.	3.0	54
10	Design of Ti6Al4V-HA composites produced by hot pressing for biomedical applications. Materials and Design, 2016, 108, 488-493.	3.3	53
11	Optimization of AlSiâ€"CNTs functionally graded material composites for engine piston rings. Materials & Design, 2015, 80, 163-173.	5.1	50
12	Tribocorrosion behavior of hot pressed CoCrMo alloys in artificial saliva. Tribology International, 2016, 97, 423-430.	3.0	46
13	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
14	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
15	Comparison between PEEK and Ti6Al4V concerning micro-scale abrasion wear on dental applications. Journal of the Mechanical Behavior of Biomedical Materials, 2016, 60, 212-219.	1.5	44
16	Hybrid composites â€“ Metallic and ceramic reinforcements influence on mechanical and wear behavior. Composites Part B: Engineering, 2015, 74, 153-165.	5.9	41
17	Laser surface structuring of Ti6Al4V substrates for adhesion enhancement in Ti6Al4V-PEEK joints. Materials Science and Engineering C, 2017, 79, 177-184.	3.8	36
18	The effect of surface treatment on the friction and wear behavior of dental Y-TZP ceramic against human enamel. Tribology International, 2017, 116, 192-198.	3.0	36

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19	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
20	Mechanical Strength and Wear of Dental Glass-Ionomer and Resin Composites Affected by Porosity and Chemical Composition. Journal of Bio- and Tribo-Corrosion, 2015, 1, 1.	1.2	32
21	Microstructure, Mechanical and Wear Behaviors of Hot-Pressed Copper-Nickel-Based Materials for Diamond Cutting Tools. Journal of Materials Engineering and Performance, 2017, 26, 4046-4055.	1.2	31
22	Tribological behavior of zirconia-reinforced glassâ€“ceramic composites in artificial saliva. Tribology International, 2016, 103, 379-387.	3.0	30
23	Ti6Al4V cellular structures impregnated with biomedical PEEK - New material design for improved tribological behavior. Tribology International, 2018, 119, 157-164.	3.0	30
24	Interface analysis and wear behavior of Ni particulate reinforced aluminumâ€“silicon composites produced by PM. Composites Part B: Engineering, 2015, 69, 101-110.	5.9	29
25	Novel laser textured surface designs for improved zirconia implants performance. Materials Science and Engineering C, 2020, 108, 110390.	3.8	29
26	Evaluation of CNT Dispersion Methodology Effect on Mechanical Properties of an AlSi Composite. Journal of Materials Engineering and Performance, 2015, 24, 2535-2545.	1.2	27
27	Fatigue life predictions including the Bauschinger effect. International Journal of Fatigue, 2011, 33, 145-152.	2.8	26
28	High temperature damping behavior and dynamic Youngâ€™s modulus of AlSiâ€“CNTâ€“SiCp hybrid composite. Composite Structures, 2016, 141, 155-162.	3.1	25
29	Effects of poly-ether-ether ketone (PEEK) veneer thickness on the reciprocating friction and wear behavior of PEEK/Ti6Al4V structures in artificial saliva. Wear, 2016, 368-369, 84-91.	1.5	24
30	Tribocorrosion Behavior of Ti6Al4V Coated with a Bio-absorbable Polymer for Biomedical Applications. Journal of Bio- and Tribo-Corrosion, 2015, 1, 1.	1.2	22
31	Development of a method to produce FGMs by controlling the reinforcement distribution. Materials and Design, 2016, 92, 233-239.	3.3	22
32	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
33	Mechanisms governing the tensile, fatigue, and wear behavior of carbon nanotube reinforced aluminum alloy. Mechanics of Advanced Materials and Structures, 2016, 23, 917-925.	1.5	21
34	Tribological behaviour of glass-ceramics reinforced by Yttria Stabilized Zirconia. Tribology International, 2016, 102, 361-370.	3.0	20
35	Mechanisms governing the mechanical behavior of an AlSiâ€“CNTsâ€“SiCp hybrid composite. Composites Part B: Engineering, 2016, 90, 443-449.	5.9	20
36	Interface analysis on an eutectic AlSi alloy reinforced with Ni coated MWCNT. Composites Part B: Engineering, 2016, 93, 229-235.	5.9	19

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37	Tribocorrosion behaviour of hot pressed CoCrMoâ˜HAP biocomposites. Tribology International, 2015, 91, 221-227.	3.0	17
38	Tribocorrosion behaviour of hot pressed CoCrMoâ˜Al₂O₃composites for biomedical applications. Tribology - Materials, Surfaces and Interfaces, 2014, 8, 201-208.	0.6	16
39	Copperâ€“nickel-based diamond cutting tools: stone cutting evaluation. International Journal of Advanced Manufacturing Technology, 2017, 92, 1339-1348.	1.5	16
40	Nickel-cobalt-based materials for diamond cutting tools. International Journal of Advanced Manufacturing Technology, 2018, 95, 1059-1067.	1.5	15
41	Improvement on Sliding Wear Behavior of Al/Cast Iron Tribopair by CNT's Reinforcement of an Al Alloy. Tribology Transactions, 2015, 58, 643-653.	1.1	13
42	Aunps and AgÎ¼ps-functionalized zirconia surfaces by hybrid laser technology for dental implants. Ceramics International, 2020, 46, 7109-7121.	2.3	13
43	Influence of wear damage on the fretting fatigue life prediction of an Al7175 alloy. International Journal of Fatigue, 2009, 31, 1278-1285.	2.8	12
44	Pressure and sintering temperature influence on the interface reaction of SiCp/410L stainless steel composites. Journal of Composite Materials, 2016, 50, 2005-2015.	1.2	11
45	Design improvement of an automotive-formed suspension component subjected to fretting fatigue. Engineering Failure Analysis, 2007, 14, 810-821.	1.8	10
46	Tribological characterization of bioactive zirconia composite layers on zirconia structures. Ceramics International, 2018, 44, 18663-18671.	2.3	9
47	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
48	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
49	Tribocorrosion Behavior of NiTi Biomedical Alloy Processed by an Additive Manufacturing Laser Beam Directed Energy Deposition Technique. Materials, 2022, 15, 691.	1.3	8
50	Metallic reinforcements role on aluminum silicon composites wear behavior. Journal of Composite Materials, 2017, 51, 2805-2812.	1.2	6
51	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
52	Influence of an additional elastic stress on dry wear behaviour in reciprocating tests. Tribology International, 2009, 42, 1101-1107.	3.0	4
53	Fatigue Behaviour of Naval Steel Under Seawater Environmental and Variable Loading Conditions. Journal of Iron and Steel Research International, 2011, 18, 64-69.	1.4	4
54	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

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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	Evolution of Relevant Parameters on Fretting Fatigue Tests. Key Engineering Materials, 0, 385-387, 565-568.	0.4	2
57	Mechanical and tribological performance of Niâ€“Co-based binders for cubic boron nitride cutting tools. Journal of Composite Materials, 2020, 54, 2753-2760.	1.2	1
58	Surface Integrity of Ti6Al4V Alloy under Dry Sliding Conditions. Applied Mechanics and Materials, 0, 371, 126-130.	0.2	0
59	A Simplified Method for Wear Loss Prediction in Corrosive Environment. Applied Mechanics and Materials, 0, 436, 121-126.	0.2	0
60	Validation of professional tooth brushing test device, test methodology and analysis. IOP Conference Series: Materials Science and Engineering, 2020, 724, 012056.	0.3	0