Halim KovacÄ±

List of Publications by Year in descending order

29 papers	686 citations	430874 18 h-index	552781 26 g-index
29 all docs	29 docs citations	29 times ranked	632 citing authors

#	Article	IF	Citations
1	The effect of surface plastic deformation produced by shot peening on corrosion behavior of a low-alloy steel. Surface and Coatings Technology, 2019, 360, 78-86.	4.8	82
2	Effects of shot peening pre-treatment and plasma nitriding parameters on the structural, mechanical and tribological properties of AISI 4140 low-alloy steel. Surface and Coatings Technology, 2019, 358, 256-265.	4.8	55
3	The friction and wear performance of DLC coatings deposited on plasma nitrided AISI 4140 steel by magnetron sputtering under air and vacuum conditions. Surface and Coatings Technology, 2018, 349, 969-979.	4.8	47
4	Influences of Ti, Al and V metal doping on the structural, mechanical and tribological properties of DLC films. Diamond and Related Materials, 2021, 120, 108639.	3.9	46
5	Tribological behavior of DLC films and duplex ceramic coatings under different sliding conditions. Ceramics International, 2018, 44, 7151-7158.	4.8	43
6	The effect of magnetic field on the wear properties of a ferromagnetic steel. Wear, 2013, 301, 636-640.	3.1	38
7	Improved tribological performance of AISI 316L stainless steel by a combined surface treatment: Surface texturing by selective laser melting and plasma nitriding. Surface and Coatings Technology, 2020, 400, 126178.	4.8	34
8	Structural, mechanical and tribological properties of Ti and TiN coatings on 316L stainless steel. Ceramics International, 2018, 44, 14195-14201.	4.8	30
9	New interlocking intramedullary radius and ulna nails for treating forearm diaphyseal fractures in adults: A retrospective study. Injury, 2014, 45, S16-S23.	1.7	28
10	Improving structural, tribological and electrochemical properties of Ti6Al4V alloy with B-doped TiO2 thin films. Tribology International, 2020, 146, 106210.	5.9	28
11	Corrosion and tribocorrosion properties of duplex surface treatments consisting of plasma nitriding and DLC coating. Tribology International, 2021, 156, 106823.	5.9	27
12	Tribological and electrochemical properties of TiO2 films produced on Cp-Ti by sol-gel and SILAR in bio-simulated environment. Surface and Coatings Technology, 2018, 352, 513-521.	4.8	25
13	Comparison of the microstructural, mechanical and wear properties of plasma oxidized Cp-Ti prepared by laser powder bed fusion additive manufacturing and forging processes. Surface and Coatings Technology, 2019, 374, 987-996.	4.8	24
14	Fatigue crack growth analysis of plasma nitrided AISI 4140 low-alloy steel: Part 1-constant amplitude loading. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 672, 257-264.	5.6	22
15	Influence of plasma nitriding treatment on the adhesion of DLC films deposited on AISI 4140 steel by PVD magnetron sputtering. Journal of Adhesion Science and Technology, 2017, 31, 2015-2027.	2.6	22
16	Synthesis and characterization of wear and corrosion resistant Ni-doped Al2O3 nanocomposite ceramic coatings by sol-gel method. Surface and Coatings Technology, 2022, 444, 128659.	4.8	22
17	Effect of Plasma Nitriding Parameters on the Wear Resistance of Alloy Inconel 718. Metal Science and Heat Treatment, 2016, 58, 470-474.	0.6	20
18	Treatment with Î±-lipoic acid enhances the bone healing after femoral fracture model of rats. Naunyn-Schmiedeberg's Archives of Pharmacology, 2014, 387, 1025-1036.	3.0	18

#	Article	IF	Citations
19	Fatigue crack growth analysis of plasma nitrided AISI 4140 low-alloy steel: Part 2-Variable amplitude loading and load interactions. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2016, 672, 265-275.	5.6	16
20	Fatigue crack growth behavior of DLC coated AISI 4140 steel under constant and variable amplitude loading conditions. Surface and Coatings Technology, 2016, 304, 316-324.	4.8	15
21	Investigation of the usage possibility of CuO and CuS thin films produced by successive ionic layer adsorption and reaction (SILAR) as solid lubricant. Surface and Coatings Technology, 2018, 344, 522-527.	4.8	15
22	Numerical investigation of mechanical effects caused by various fixation positions on a new radius intramedullary nail. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 316-324.	1.6	9
23	Effect of boronizing on the structural, mechanical and tribological properties of CoCrW dental alloy produced by selective laser melting. Industrial Lubrication and Tribology, 2019, 71, 348-356.	1.3	7
24	Dry Sliding Wear Characteristics of Plasma-Nitrocarburized Co â€“ Cr â€“ Mo Alloy. Metal Science and Heat Treatment, 2017, 58, 742-747.	0.6	4
25	A NOVEL METHOD FOR IMPROVING PLASMA NITRIDING EFFICIENCY: PRE-MAGNETIZATION BY DC MAGNETIC FIELD. Surface Review and Letters, 2017, 24, 1750005.	1.1	3
26	Biomechanical analysis of spinal implants with different rod diameters under static and fatigue loads: an experimental study. Biomedizinische Technik, 2019, 64, 339-346.	0.8	3
27	The effects of boriding on metal-ceramic bond strength of Coâ€“Cr alloy fabricated by selective laser melting. Journal of Adhesion Science and Technology, 2021, 35, 1576-1591.	2.6	2
28	Designing and in vitro testing of a novel patient-specific total knee prosthesis using the probabilistic approach. Biomedizinische Technik, 2022, 67, 295-305.	0.8	1
29	Theoretical Investigation Of Plate Fixation And Intramedullary Nailing Methods On Radius Fractures. Sakarya University Journal of Science, 2012, 16, 330-336.	0.7	0