

Morteza Abedini

List of Publications by Year in descending order

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28
papers

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452
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#	ARTICLE	IF	CITATIONS
1	Tribological behavior of NiTi alloy in martensitic and austenitic states. <i>Materials & Design</i> , 2009, 30, 4493-4497.	5.1	58
2	Synergistic erosion-corrosion behavior of Al-brass alloy at various impingement angles. <i>Wear</i> , 2014, 319, 49-55.	3.1	56
3	The effects of friction stir processing and friction stir vibration processing on mechanical, wear and corrosion characteristics of Al6061/SiO ₂ surface composite. <i>Journal of Manufacturing Processes</i> , 2019, 45, 491-497.	5.9	55
4	Effect of long time service exposure on microstructure and mechanical properties of gas turbine vanes made of IN939 alloy. <i>Materials & Design</i> , 2014, 64, 588-600.	5.1	45
5	Synergistic erosion-corrosion behavior of commercially pure titanium at various impingement angles. <i>Wear</i> , 2017, 380-381, 154-162.	3.1	34
6	Tribological behavior of NiTi alloy against 52100 steel and WC at elevated temperatures. <i>Materials Characterization</i> , 2010, 61, 689-695.	4.4	33
7	Effect of Normal Load and Sliding Distance on the Wear Behavior of NiTi Alloy. <i>Tribology Transactions</i> , 2012, 55, 677-684.	2.0	26
8	Oxygen Diffusion Layer on Ti-6Al-4V Alloy: Scratch and Dry Wear Resistance. <i>Tribology Letters</i> , 2019, 67, 1.	2.6	24
9	Erosion and erosion-corrosion of Al-brass alloy: Effects of jet velocity, sand concentration and impingement angle on surface roughness. <i>Transactions of Nonferrous Metals Society of China</i> , 2017, 27, 2371-2380.	4.2	21
10	Influence of prior cold working on the tribological behavior of Cu-0.65wt.%Cr alloy. <i>Journal of Alloys and Compounds</i> , 2009, 480, 505-509.	5.5	20
11	Contributions of corrosion and erosion in the erosion-corrosion of Sanicro28. <i>Materials Chemistry and Physics</i> , 2019, 233, 366-377.	4.0	19
12	Mechanism of tribofilm formation on Ti6Al4V oxygen diffusion layer in a simulated body fluid. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 77, 660-670.	3.1	15
13	Corrosion and material alterations of a CuZn38Pb3 brass under acoustic cavitation. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104628.	8.2	15
14	Effects of Aging Treatments on the High-Temperature Wear Behavior of 60Nitinol Alloy. <i>Tribology Transactions</i> , 2016, 59, 286-291.	2.0	14
15	Interplay between mechanical wear and electrochemical corrosion during tribocorrosion of oxygen diffusion layer on Ti-6Al-4V in PBS solution. <i>Applied Surface Science</i> , 2020, 518, 146048.	6.1	14
16	Corrosion behavior of Al-brass alloy during erosion-corrosion process: Effects of jet velocity and sand concentration. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2016, 67, 513-521.	1.5	12
17	The Effect of Vibration during Friction Stir Welding on Corrosion Behavior, Mechanical Properties, and Machining Characteristics of Stir Zone. <i>Metals</i> , 2017, 7, 421.	2.3	12
18	Tribocorrosion behaviour of Ti6Al4V under various normal loads in phosphate buffered saline solution. <i>Transactions of Nonferrous Metals Society of China</i> , 2020, 30, 1300-1314.	4.2	11

#	ARTICLE	IF	CITATIONS
19	Rejuvenation of the microstructure and mechanical properties of a service-exposed IN939 superalloy by heat treatments. <i>Materials at High Temperatures</i> , 2019, 36, 19-26.	1.0	9
20	Self-healing effect on worn surface of NiTi shape memory alloy. <i>Materials Science and Technology</i> , 2010, 26, 285-288.	1.6	8
21	Effect of Impact Angle on the Erosion-Corrosion Behavior of AISI 420 Stainless Steel in 3.5 wt.% NaCl Solution. <i>Journal of Tribology</i> , 2015, 137, .	1.9	8
22	Oxidation and Hot Corrosion Behaviors of Service-Exposed and Heat-Treated Gas Turbine Vanes Made of IN939 Alloy. <i>Oxidation of Metals</i> , 2018, 90, 469-484.	2.1	8
23	Effect of Phase Transformation on the Wear Behavior of NiTi Alloy. <i>Journal of Engineering Materials and Technology</i> , Transactions of the ASME, 2010, 132, .	1.4	7
24	Tribological Behavior of Heat Treated Ni-rich NiTi Alloys. <i>Journal of Tribology</i> , 2011, 133, .	1.9	7
25	A functionalized duplex coating on CP-titanium for biomedical applications. <i>Surface and Coatings Technology</i> , 2020, 399, 126117.	4.8	7
26	Study of Erosion-Corrosion and Corrosion Behavior of Commercially Pure-Ti During Slurry Erosion. <i>Journal of Tribology</i> , 2018, 140, .	1.9	4
27	Recent Developments of Oil and Gas Transmission Pipeline Steels: Microstructure, Mechanical Properties and Sour Gas Resistance. , 2008, , .		1
28	Electrochemical Noise and Polarization Analyses on Corrosion of Al-Brass Alloy During Erosion-Corrosion. <i>Journal of Bio- and Tribo-Corrosion</i> , 2021, 7, 1.	2.6	0