

Zoheir N Farhat

List of Publications by Year in descending order

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77
papers

2,206
citations

185998

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44
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all docs

79
docs citations

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times ranked

1610
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of grain size on friction and wear of nanocrystalline aluminum. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 1996, 206, 302-313.	2.6	232
2	Effect of impact angle and velocity on erosion of API X42 pipeline steel under high abrasive feed rate. <i>Wear</i> , 2014, 311, 180-190.	1.5	126
3	Early Failure of a Modular Femoral Neck Total Hip Arthroplasty Component. <i>Journal of Bone and Joint Surgery - Series A</i> , 2010, 92, 1514-1517.	1.4	91
4	Recent advances in electroless-plated Ni-P and its composites for erosion and corrosion applications: a review. <i>Emergent Materials</i> , 2018, 1, 3-24.	3.2	87
5	Erosion enhanced corrosion and corrosion enhanced erosion of API X-70 pipeline steel. <i>Wear</i> , 2013, 302, 1592-1601.	1.5	86
6	Sliding wear of superelastic TiNi alloy. <i>Wear</i> , 2009, 267, 394-400.	1.5	68
7	Erosion-corrosion mechanism and comparison of erosion-corrosion performance of API steels. <i>Wear</i> , 2017, 376-377, 533-541.	1.5	67
8	Indentation and erosion behavior of electroless Ni-P coating on pipeline steel. <i>Wear</i> , 2017, 376-377, 1630-1639.	1.5	57
9	Nanoindentation and friction studies on Ti-based nanolaminated films. <i>Surface and Coatings Technology</i> , 1997, 89, 24-30.	2.2	53
10	Effect of microstructure on the erosion behavior of carbon steel. <i>Wear</i> , 2015, 332-333, 1080-1089.	1.5	53
11	Wear mechanism of CBN cutting tool during high-speed machining of mold steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003, 361, 100-110.	2.6	51
12	The synergistic effect between erosion and corrosion of API pipeline in CO ₂ and saline medium. <i>Tribology International</i> , 2013, 68, 26-34.	3.0	51
13	Reciprocating wear behaviour of TiC-stainless steel cermets. <i>Tribology International</i> , 2017, 105, 250-263.	3.0	49
14	Effect of porosity on dry sliding wear of Al-Si alloys. <i>Tribology International</i> , 2011, 44, 498-504.	3.0	45
15	Contribution of crystallographic texturing to the sliding friction behaviour of fcc and hcp metals. <i>Wear</i> , 2001, 250, 401-408.	1.5	43
16	The reciprocating wear behaviour of Ti-304L stainless steel composites prepared by melt infiltration. <i>Wear</i> , 2013, 303, 321-333.	1.5	43
17	Fabrication and investigation of the scratch and indentation behaviour of new generation Ni-P-nano-NiTi composite coating for oil and gas pipelines. <i>Wear</i> , 2019, 426-427, 265-276.	1.5	41
18	Modeling of catalyst layer microstructural refinement and catalyst utilization in a PEM fuel cell. <i>Journal of Power Sources</i> , 2004, 138, 68-78.	4.0	40

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19	Wear and dent resistance of superelastic TiNi alloy. <i>Wear</i> , 2013, 301, 682-687.	1.5	40
20	The effects of TiC grain size and steel binder content on the reciprocating wear behaviour of TiC-316L stainless steel cermets. <i>Wear</i> , 2016, 350-351, 116-129.	1.5	37
21	Slurry Erosion of Pipeline Steel: Effect of Velocity and Microstructure. <i>Journal of Tribology</i> , 2016, 138, .	1.0	37
22	Slurry erosion surface damage under normal impact for pipeline steels. <i>Engineering Failure Analysis</i> , 2018, 90, 116-128.	1.8	35
23	Novel electroless deposited corrosion resistant and anti-bacterial Ni-P-TiNi nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2019, 369, 323-333.	2.2	35
24	The Role of Reversible Martensitic Transformation in the Wear Process of TiNi Shape Memory Alloy. <i>Tribology Transactions</i> , 2010, 53, 917-926.	1.1	34
25	The reciprocating wear behaviour of TiC-Ni3Al cermets. <i>International Journal of Refractory Metals and Hard Materials</i> , 2012, 33, 44-52.	1.7	34
26	The influence of porosity and hot isostatic pressing treatment on wear characteristics of cast and P/M aluminum alloys. <i>Wear</i> , 2011, 271, 1594-1601.	1.5	33
27	Mechanical damage of hard chromium coatings on 416 stainless steel. <i>Engineering Failure Analysis</i> , 2016, 66, 130-140.	1.8	33
28	Wear mechanisms of nitinol under reciprocating sliding contact. <i>Wear</i> , 2014, 315, 25-30.	1.5	32
29	Effect of electroless bath composition on the mechanical, chemical, and electrochemical properties of new Ni-P-C3N4 nanocomposite coatings. <i>Surface and Coatings Technology</i> , 2019, 362, 239-251.	2.2	31
30	Indentation and bending behavior of electroless Ni-P-Ti composite coatings on pipeline steel. <i>Surface and Coatings Technology</i> , 2018, 334, 243-252.	2.2	28
31	Synthesis, Characterization, and Application of Novel Ni-P-Carbon Nitride Nanocomposites. <i>Coatings</i> , 2018, 8, 37.	1.2	28
32	Preparation and tribological characterization of graphene incorporated electroless Ni-P composite coatings. <i>Surface and Coatings Technology</i> , 2019, 369, 334-346.	2.2	27
33	Effect of a moving automated shot peening and peening parameters on surface integrity of Low carbon steel. <i>Journal of Materials Processing Technology</i> , 2020, 277, 116399.	3.1	26
34	The effects of metal binder content and carbide grain size on the aqueous corrosion behaviour of TiC-316L stainless steel cermets. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 44, 129-141.	1.7	25
35	Investigation of fracture behavior of annealed electroless Ni-P coating on pipeline steel using acoustic emission methodology. <i>Surface and Coatings Technology</i> , 2017, 326, 336-342.	2.2	25
36	Dent Resistance and Effect of Indentation Loading Rate on Superelastic TiNi Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2013, 44, 3544-3551.	1.1	24

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37	Synthesis and Characterization of Scratch-Resistant Ni-P-Ti-Based Composite Coating. Tribology Transactions, 2019, 62, 880-896.	1.1	24
38	Fabrication Using High-Energy Ball-Milling Technique and Characterization of Pt-Co Electrocatalysts for Oxygen Reduction in Polymer Electrolyte Fuel Cells. Journal of Fuel Cell Science and Technology, 2005, 2, 171-178.	0.8	21
39	Construction of erosion mechanism maps for pipeline steels. Tribology International, 2016, 102, 161-173.	3.0	21
40	Characterization of the Corrosion Layer on Pipeline Steel in Sweet Environment. Journal of Materials Engineering and Performance, 2015, 24, 3142-3158.	1.2	19
41	Microstructural damage following reciprocating wear of TiC-stainless steel cermets. Tribology International, 2017, 105, 201-218.	3.0	18
42	On the Deformation of Superelastic TiNi Alloy. Tribology Letters, 2010, 37, 169-173.	1.2	16
43	Effects of temperature and loading rate on the deformation characteristics of superelastic TiNi shape memory alloys under localized compressive loads. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2011, 530, 628-632.	2.6	16
44	Mechanical and Electrochemical Synergism of API X42 Pipeline Steel During Erosion-Corrosion. Journal of Bio- and Tribo-Corrosion, 2015, 1, 1.	1.2	15
45	Hertzian Indentation Behavior of Electroless Ni-P-Ti Composite Coatings. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2020, 51, 3674-3691.	1.1	12
46	The effects of graphene nano-platelet additions on the sliding wear of TiC-Ni ₃ Al cermets. Tribology International, 2019, 130, 119-132.	3.0	11
47	The processing and testing of new and advanced materials for wear resistant surface coatings. Journal of Materials Processing Technology, 1997, 63, 859-864.	3.1	10
48	Reciprocating wear response of Ti(C,N)-Ni ₃ Al cermets. Canadian Metallurgical Quarterly, 2013, 52, 69-80.	0.4	10
49	Microbiologically-influenced corrosion of the electroless-deposited NiP-TiNi Coating. Arabian Journal of Chemistry, 2021, 14, 103445.	2.3	10
50	Aqueous corrosion behaviour of TiC-304L stainless steel cermets in a 3.5 wt% NaCl solution. International Journal of Refractory Metals and Hard Materials, 2017, 66, 234-243.	1.7	9
51	Thermal damage of conventional hard chromium coatings on 416 stainless steel. Engineering Failure Analysis, 2019, 105, 1118-1130.	1.8	9
52	Microstructural characterization of WC-TiC-Co cutting tools during high-speed machining of P20 mold steel. Materials Characterization, 2003, 51, 117-130.	1.9	8
53	Wear resistant composite coatings. Materials Characterization, 2009, 60, 337-345.	1.9	8
54	Effect of Graphene Nanoplatelets (GNPs) Addition on Erosion-Corrosion Resistance of Electroless Ni-P Coatings. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	1.2	8

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55	Wear of A380M Aluminum Alloy Under Reciprocating Load. Journal of Materials Engineering and Performance, 2010, 19, 1208-1213.	1.2	7
56	Prediction of Indentation Behavior of Superelastic TiNi. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 4350-4360.	1.1	7
57	Investigation into the Wear and Dent Resistance of Ni/Ti Nanolaminates and Superelastic NiTi Coating. Journal of Materials Engineering and Performance, 2019, 28, 6033-6041.	1.2	7
58	Investigation of Erosion-Corrosion Resistance of Electroless Ni-P-Ti Composite Coatings. Journal of Bio- and Tribo-Corrosion, 2020, 6, 1.	1.2	7
59	Effects of Ti Content and Annealing on Corrosion Resistance of Electroless Ni-P-Ti Composite Coatings. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	1.2	7
60	The Aqueous Electrochemical Response of Ti-Coated Stainless Steel Cermets. Metals, 2018, 8, 398.	1.0	6
61	Investigation of Single-Particle Erosion Behavior of Electroless Ni-P-Ti Composite Coatings. Journal of Materials Engineering and Performance, 2020, 29, 1671-1685.	1.2	6
62	The Benefit of Superelastic NiTi Addition on Corrosion Performance of Electroless Ni-P Coating During an Accidental Scratch Event. Journal of Bio- and Tribo-Corrosion, 2021, 7, 1.	1.2	6
63	Precipitation hardenable TiC-Steel cermets. Wear, 2021, 477, 203804.	1.5	6
64	Mechanical anisotropy and construction of flow stress diagrams during the annealing of Zr-1% Sn alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 474, 96-103.	2.6	5
65	The influence of Mo 2 C additions on the microstructural development and sintering response of TiN-Ni 3 Al cermets. International Journal of Refractory Metals and Hard Materials, 2018, 71, 262-272.	1.7	5
66	High Pressure Water-Jet Technology for the Surface Treatment of Al-Si Alloys and Repercussion on Tribological Properties. Journal of Surface Engineered Materials and Advanced Technology, 2011, 01, 112-120.	0.2	5
67	High surface area mechanically alloyed Pt-based catalyst. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2008, 476, 169-173.	2.6	4
68	Effects of superelastic nano-NiTi additions on electroless Ni-P coating properties under bending. Surface and Coatings Technology, 2019, 378, 125064.	2.2	4
69	Single Particle Erosion Behavior of NiTi-Based Nanolaminates and Superelastic NiTi Monolayer Coatings. Coatings, 2019, 9, 617.	1.2	3
70	Effects of Ti Content and Annealing on Fracture Toughness and Scratch Resistance of Electroless Ni-P-Ti Coatings. Journal of Materials Engineering and Performance, 2020, 29, 5807-5821.	1.2	3
71	Microstructure development and nanoindentation behaviour of annealed Ni-P-Ti coatings. Surface Engineering, 2021, 37, 527-535.	1.1	3
72	Investigation of the Mechanical Behavior of Electroless Ni-P-Ti Composite Coatings. Journal of Engineering Materials and Technology, Transactions of the ASME, 2020, 142, .	0.8	3

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73	The effects of Ni ₃ Al binder content on the electrochemical response of melt-infiltration processed TiCâ€“Ni ₃ Al cermets. Canadian Metallurgical Quarterly, 2016, 55, 138-146.	0.4	2
74	Fabrication, Characterization, and Evaluation of Monolithic NiTi Nanolaminate Coatings. Tribology Transactions, 2019, 62, 1007-1018.	1.1	2
75	The Effect of the Formation of Superelastic NiTi Phase on Static and Dynamic Corrosion Performance of Ni-P Coating. Solids, 2021, 2, 278-292.	1.1	2
76	Enhanced Erosionâ€“Corrosion Resistance of Nickelâ€“Phosphorusâ€“Nitinol Coating. Journal of Bio- and Tribo-Corrosion, 2022, 8, 1.	1.2	1
77	Effect of Graphene Enrichment on Solid Particle Erosion Performance of Electroless Ni-P Composite Coatings. Materials Performance and Characterization, 2021, 10, 594-606.	0.2	0