

# Mansour Soltanieh

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

728  
citations

471509

17  
h-index

552781

26  
g-index

32  
all docs

32  
docs citations

32  
times ranked

664  
citing authors

#	ARTICLE	IF	CITATIONS
1	On the kinetics of TiAl <sub>3</sub> intermetallic layer formation in the titanium and aluminum diffusion couple. <i>Intermetallics</i> , 2013, 32, 297-302.	3.9	117
2	A Study on the Formation of Intermetallics During the Heat Treatment of Explosively Welded Al-Ti Multilayers. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2014, 45, 1823-1832.	2.2	53
3	A new method for deposition of nano sized titanium nitride on steels. <i>Vacuum</i> , 2011, 86, 131-139.	3.5	40
4	Investigation of anodizing time and pulse voltage modes on the corrosion behavior of nanostructured anodic layer in commercial pure aluminum. <i>Surface and Coatings Technology</i> , 2019, 358, 741-752.	4.8	40
5	Effects of reduced surface grain structure and improved particle distribution on pitting corrosion of AA6063 aluminum alloy. <i>Journal of Alloys and Compounds</i> , 2020, 838, 155464.	5.5	37
6	Repairing the cracks network of hard chromium electroplated layers using plasma nitriding technique. <i>Vacuum</i> , 2016, 127, 1-9.	3.5	35
7	Investigation of chromium and vanadium carbide composite coatings on CK45 steel by Thermal Reactive Diffusion. <i>Surface and Coatings Technology</i> , 2016, 289, 1-10.	4.8	34
8	Applying the protective CuMn <sub>2</sub> O <sub>4</sub> spinel coating on AISI-430 ferritic stainless steel used as solid oxide fuel cell interconnects. <i>Surface and Coatings Technology</i> , 2018, 334, 365-372.	4.8	32
9	Oxide Inclusions at Different Steps of Steel Production. <i>Journal of Iron and Steel Research International</i> , 2007, 14, 39-46.	2.8	31
10	A new model for growth mechanism of nitride layers in plasma nitriding of AISI H11 hot work tool steel. <i>Vacuum</i> , 2017, 141, 97-102.	3.5	28
11	Investigation of the formation of Al, Fe, N intermetallic phases during Al pack cementation followed by plasma nitriding on plain carbon steel. <i>Materials &amp; Design</i> , 2013, 51, 43-50.	5.1	27
12	Rapid and clean amine functionalization of carbon nanotubes in a dielectric barrier discharge reactor for biosensor development. <i>Electrochimica Acta</i> , 2014, 115, 378-385.	5.2	27
13	Active screen plasma nitriding of Al using an iron cage: Characterization and evaluation. <i>Vacuum</i> , 2015, 122, 127-134.	3.5	27
14	Surface characterization of multiple coated H11 hot work tool steel by plasma nitriding and hard chromium electroplating processes. <i>Vacuum</i> , 2012, 86, 1470-1476.	3.5	25
15	Formation mechanism and synthesis of Fe-TiC/Al <sub>2</sub> O <sub>3</sub> composite by ilmenite, aluminum and graphite. <i>International Journal of Refractory Metals and Hard Materials</i> , 2014, 45, 53-57.	3.8	25
16	Structural and mechanical evaluation of deposited nano structured TiN coating using active screen plasma nitriding technique. <i>EPJ Applied Physics</i> , 2014, 65, 20801.	0.7	21
17	Characterization of the anodic oxide layer deposited on severely deformed and aged AA6063 aluminum alloy. <i>Journal of Materials Research and Technology</i> , 2021, 15, 68-85.	5.8	21
18	Growth kinetics and microstructure of composite coatings on H13 by thermal reactive diffusion. <i>Surface and Coatings Technology</i> , 2017, 325, 318-326.	4.8	19

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19	The Kinetics of TiAl <sub>3</sub> Formation in Explosively Welded Ti-Al Multilayers During Heat Treatment. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2016, 47, 2931-2937.	2.1	16
20	Deposition of Nano Sized Titanium Nitride on H11 Tool Steel Using Active Screen Plasma Nitriding Method. Journal of Nano Research, 0, 11, 79-84.	0.8	14
21	A Study on Formation and Growth Mechanism of Nitride Layers During Plasma Nitriding Process of Plastic Injection Mold Steel. Materials and Manufacturing Processes, 2016, 31, 1192-1200.	4.7	14
22	Diffusion mechanism in molten salt baths during the production of carbide coatings via thermal reactive diffusion. International Journal of Minerals, Metallurgy and Materials, 2017, 24, 1448-1458.	4.9	13
23	Effect of Salt Bath Composition on the Chromium Diffusion on Plain Carbon Steels by TRD Process. Defect and Diffusion Forum, 0, 326-328, 377-382.	0.4	7
24	TiAl <sub>3</sub> Formation in the Titanium-Aluminum Diffusion Couple. Defect and Diffusion Forum, 0, 322, 185-194.	0.4	7
25	The effect of Fe <sub>2</sub> Al <sub>5</sub> as reducing agent in intermediate steps of 'Al <sub>2</sub> O <sub>3</sub> /TiC-Fe composite production process. International Journal of Refractory Metals and Hard Materials, 2015, 52, 17-20.	3.8	5
26	Investigation on the reactions sequence between synthesized ilmenite and aluminum. Journal of Alloys and Compounds, 2015, 628, 113-120.	5.5	4
27	Thermodynamics of oxygen behaviour in cobalt-nickel alloys. Steel Research = Archiv für Das Eisenhüttenwesen, 1997, 68, 149-153.	0.3	3
28	Evaluation of the formation of compound coatings on aluminium by the new method of active screen plasma nitriding. Materials Research Express, 2019, 6, 076429.	1.6	3
29	Combined niobizing and plasma nitriding of AISI 430 stainless steel. Materials Research Express, 2019, 6, 126403.	1.6	2
30	Thermodynamics of Cobalt Aluminate Formation in Molten Cobalt. Steel Research International, 2005, 76, 372-376.	1.8	1
31	The metal saturation line and tie-lines in the nickel-cobalt-sulfur ternary system between 1273 and 1573 K. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 1998, 29, 1941-1945.	2.2	0
32	Thermodynamics of Aluminium in Molten Zinc with the use of Electrochemical Sensors. Steel Research International, 2006, 77, 934-939.	1.8	0