

# Mahmoud Heydarzadeh Sohi

## List of Publications by Year in descending order

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25  
papers

614  
citations

623734

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642732

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docs citations

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times ranked

715  
citing authors

#	ARTICLE	IF	CITATIONS
1	Sandwich-structured graphene@NiFe <sub>2</sub> O <sub>4</sub> carbon nanocomposite anodes with exceptional electrochemical performance for Li ion batteries. <i>Journal of Materials Chemistry A</i> , 2014, 2, 8314.	10.3	79
2	Influence of friction stir processing conditions on corrosion behavior of AZ31B magnesium alloy. <i>Journal of Magnesium and Alloys</i> , 2019, 7, 605-616.	11.9	62
3	Microstructural stability of nanostructured YSZ@alumina composite TBC compared to conventional YSZ coatings by means of oxidation and hot corrosion tests. <i>Journal of Alloys and Compounds</i> , 2014, 600, 151-158.	5.5	48
4	Core-shell structured Ni <sub>3</sub> S <sub>2</sub> nanorods grown on interconnected Ni-graphene foam for symmetric supercapacitors. <i>Electrochimica Acta</i> , 2018, 271, 507-518.	5.2	42
5	Effect of high-pressure torsion on microstructure, mechanical properties and corrosion resistance of cast pure Mg. <i>Journal of Materials Science</i> , 2018, 53, 16585-16597.	3.7	40
6	NiFe <sub>2</sub> O <sub>4</sub> /graphene nanocomposites with tunable magnetic properties. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 379, 95-101.	2.3	36
7	Comparative tribological studies of duplex surface treated AISI 1045 steels fabricated by combinations of plasma nitriding and aluminizing. <i>Materials &amp; Design</i> , 2014, 60, 580-586.	5.1	35
8	Liquid phase surface alloying of AZ91D magnesium alloy with Al and Ni powders. <i>Applied Surface Science</i> , 2012, 258, 5876-5880.	6.1	30
9	Effect of treating atmosphere in plasma post-oxidation of nitrocarburized AISI 5115 steel. <i>Vacuum</i> , 2007, 82, 346-351.	3.5	29
10	Effect of segmented cracks on TGO growth and life of thick thermal barrier coating under isothermal oxidation conditions. <i>Ceramics International</i> , 2020, 46, 7475-7481.	4.8	29
11	Improving electrochemical properties of AISI 1045 steels by duplex surface treatment of plasma nitriding and aluminizing. <i>Applied Surface Science</i> , 2015, 329, 240-247.	6.1	26
12	Evaluation of niobium carbide coatings produced on AISI L2 steel via thermo-reactive diffusion technique. <i>Vacuum</i> , 2017, 146, 44-51.	3.5	24
13	Improving biocompatibility and corrosion resistance of anodized AZ31 Mg alloy by electrospun chitosan/mineralized bone allograft (MBA) nanocoatings. <i>Surface and Coatings Technology</i> , 2021, 405, 126627.	4.8	24
14	Duplex treatment of AISI 1045 steel by plasma nitriding and aluminizing. <i>Vacuum</i> , 2014, 107, 155-158.	3.5	20
15	Effect of pulsed Nd:YAG laser re-melting on chromium surface alloyed AA6061-T6 aluminum. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 83, 285-291.	3.0	13
16	Surface alloying of A2618 aluminum with silicon and iron by TIG process. <i>Surface and Coatings Technology</i> , 2017, 310, 87-92.	4.8	13
17	HOT CORROSION RESISTANCE AND MECHANICAL BEHAVIOR OF ATMOSPHERIC PLASMA SPRAYED CONVENTIONAL AND NANOSTRUCTURED ZIRCONIA COATINGS. <i>International Journal of Modern Physics Conference Series</i> , 2012, 05, 720-727.	0.7	12
18	Liquid phase cladding of Al <sub>x</sub> CoCrFeNi high entropy alloys on AISI 304L stainless steel. <i>Surface and Coatings Technology</i> , 2020, 402, 126331.	4.8	12

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19	Formation of vertical cracks in air plasma sprayed YSZ coatings using unpyrolyzed powder. <i>Ceramics International</i> , 2020, 46, 22383-22390.	4.8	12
20	Microstructural and Hardness Study of Pulsed Nd:YAG Laser Surface Alloyed Aluminum with Iron. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2016, 47, 1698-1704.	2.2	9
21	Liquid phase surface alloying of CP-titanium with aluminum in an atmosphere of argon and nitrogen. <i>Surface and Coatings Technology</i> , 2012, 206, 3788-3794.	4.8	8
22	Enhance corrosion behavior of AZ31 magnesium alloy by tailoring the anodic oxidation time followed by heat treatment in simulated body fluid. <i>Anti-Corrosion Methods and Materials</i> , 2021, 68, 276-283.	1.5	7
23	Liquid Phase Surface Treatment of Ti-6Al-4V Titanium Alloy by Pulsed Nd:YAG Laser. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3634-3642.	2.5	4
24	Feasibility study of formation of surface layer containing tungsten carbide on low carbon steel by TIG surface melting of pre placed layers of ferrotungsten and graphite powders. <i>International Journal of Surface Science and Engineering</i> , 2015, 9, 13.	0.4	0
25	Phase identification and fracture strength of plasma brazed joints of Ti-45Al-2Nb-2Mn-1B with Ti-Ni-Cu filler metals. <i>Materials Letters</i> , 2021, 286, 129249.	2.6	0