

Manuele DabalÃ

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Growth of Cu ₂ ZnSnS ₄ thin film absorber layer on transparent conductive oxides and molybdenum substrates by electrodeposition for photovoltaic application. <i>Optik</i> , 2022, 250, 168320.	2.9	13
2	Investigation of hydroxyapatite (HAP) containing coating on grade 2 titanium alloy prepared by plasma electrolytic oxidation (PEO) at low voltage. <i>Surfaces and Interfaces</i> , 2022, 30, 101888.	3.0	23
3	On the exceptional stress corrosion cracking susceptibility of selective laser melted 316L stainless steel under the individual effect of surface residual stresses. <i>Engineering Failure Analysis</i> , 2022, 136, 106192.	4.0	17
4	Comparative study on the effect of (Cr, Mo, V)-alloying on transformation and mechanical behavior of 0.2 wt.% C TRIP-assisted steel. <i>Metallic Materials</i> , 2022, 60, .	0.3	1
5	Effects of Heat Treatment on the Surface Quality and Improvement in Formability of Deformation Machined Products of Al 6061. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2022, 144, .	2.2	2
6	Role of grinding induced surface residual stress on probability of stress corrosion cracks initiation in 316L austenitic stainless steel in 3.5% sodium chloride aqueous solution. <i>Corrosion Engineering Science and Technology</i> , 2021, 56, 81-92.	1.4	8
7	Effect of Different Austempering Heat Treatments on Corrosion Properties of High Silicon Steel. <i>Materials</i> , 2021, 14, 288.	2.9	20
8	Effect of Precipitation Hardening on Corrosion Resistance of Cu-4.5Åwt.%Ti. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1306-1317.	2.5	3
9	Stress Corrosion Cracking Probability of Selective Laser Melted 316L Austenitic Stainless Steel under the Effect of Grinding Induced Residual Stresses. <i>Metals</i> , 2021, 11, 327.	2.3	23
10	Development of Thermomechanical Processes as an Alternative to Grain Refiners in 18 Carat Gold Alloys. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 2680-2690.	2.5	0
11	Microstructural and Corrosion Properties of Hydroxyapatite Containing PEO Coating Produced on AZ31 Mg Alloy. <i>Materials</i> , 2021, 14, 1531.	2.9	32
12	Enabling Circular Economy: The Overlooked Role of Inorganic Materials Chemistry. <i>Chemistry - A European Journal</i> , 2021, 27, 6676-6695.	3.3	6
13	Microstructural and Corrosion Properties of Burnished 6060 Aluminum Alloy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4460.	2.5	3
14	Innovative recycling of end of life silicon PV panels: ReSiELP. <i>Detritus</i> , 2021, , 41-47.	0.9	9
15	Characterization of black coating on Fe360 steel obtained with immersion in aqueous solutions. <i>Surfaces and Interfaces</i> , 2021, 26, 101317.	3.0	3
16	Plasma-Activated Water Triggers Rapid and Sustained Cytosolic Ca ²⁺ Elevations in <i>Arabidopsis thaliana</i> . <i>Plants</i> , 2021, 10, 2516.	3.5	10
17	Effect of Multi-Step Austempering Treatment on the Microstructure and Mechanical Properties of a High Silicon Carbide-Free Bainitic Steel with Bimodal Bainite Distribution. <i>Metals</i> , 2021, 11, 2055.	2.3	17
18	Effect of microstructure and porosity of AlSi10Mg alloy produced by selective laser melting on the corrosion properties of plasma electrolytic oxidation coatings. <i>Surface and Coatings Technology</i> , 2020, 404, 126477.	4.8	55

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19	Effect of Intercritical Annealing and Austempering on the Microstructure and Mechanical Properties of a High Silicon Manganese Steel. <i>Metals</i> , 2020, 10, 1448.	2.3	18
20	Microstructural and Corrosion Properties of PEO Coated Zinc-Aluminized (ZA) Steel. <i>Coatings</i> , 2020, 10, 448.	2.6	13
21	Study of the Effect of Multiple Tempering on the Impact Toughness of Forged S690 Structural Steel. <i>Metals</i> , 2020, 10, 507.	2.3	13
22	Sealing of PEO coated AZ91magnesium alloy using solutions containing neodymium. <i>Corrosion Science</i> , 2020, 173, 108741.	6.6	46
23	PEO coating containing copper: A promising anticorrosive and antifouling coating for seawater application of AA 7075. <i>Surface and Coatings Technology</i> , 2020, 393, 125774.	4.8	41
24	Structural and Optical Annealing Route-Dependent Properties of CZTS Thin Films Grown by One-Step Electrodeposition with Free Annealing Sulfurization for Photovoltaic Application. <i>Journal of Electronic Materials</i> , 2019, 48, 8254-8260.	2.2	9
25	Influence of Solvent on the Proprieties of Cu ₂ ZnSnS ₄ Thin Film Fabricated by One-Step Electrodeposition. <i>Russian Journal of Electrochemistry</i> , 2019, 55, 796-801.	0.9	8
26	Corrosion and mechanical properties of plasma electrolytic oxidation-coated AZ80 magnesium alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2019, 70, 2103-2112.	1.5	31
27	Plasma Electrolytic Oxidation (PEO) as pre-treatment for sol-gel coating on aluminum and magnesium alloys. <i>Surface and Coatings Technology</i> , 2019, 366, 114-123.	4.8	79
28	Effect of Salt Bath Nitrocarburizing and Post-Oxidation on Static and Fatigue Behaviours of a Construction Steel. <i>Metals</i> , 2019, 9, 1306.	2.3	8
29	A green and low-cost synthetic approach based on deep eutectic choline-urea solvent toward synthesis of CZTS thin films. <i>Ionics</i> , 2019, 25, 2755-2761.	2.4	8
30	Plasma electrolytic oxidation coatings with fungicidal properties. <i>Surface Engineering</i> , 2019, 35, 325-333.	2.2	29
31	Tribological and corrosion behavior of PEO coatings with graphite nanoparticles on AZ91 and AZ80 magnesium alloys. <i>Transactions of Nonferrous Metals Society of China</i> , 2018, 28, 259-272.	4.2	53
32	Comparative Study on Cu ₂ ZnSnS ₄ (CZTS) Thin Film using Different Sulfur Precursor. , 2018, , .		3
33	Influence of defects on axial fatigue strength of maraging steel specimens produced by additive manufacturing. <i>MATEC Web of Conferences</i> , 2018, 165, 02005.	0.2	19
34	Large strain extrusion machining of magnesium alloys for biomedical applications. <i>Procedia CIRP</i> , 2018, 71, 105-110.	1.9	15
35	Surface Integrity Analysis of Ti6Al4V After Semi-finishing Turning Under Different Low-Temperature Cooling Strategies. <i>Journal of Materials Engineering and Performance</i> , 2018, 27, 4810-4818.	2.5	26
36	Tribocorrosion Properties of PEO Coatings Produced on AZ91 Magnesium Alloy with Silicate- or Phosphate-Based Electrolytes. <i>Coatings</i> , 2018, 8, 202.	2.6	28

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37	Fretting Corrosion Behavior of Additive Manufactured and Cryogenicâ€Machined Ti6Al4V for Biomedical Applications. <i>Advanced Engineering Materials</i> , 2017, 19, 1500629.	3.5	8
38	Antibacterial effect of PEO coating with silver on AA7075. <i>Materials Science and Engineering C</i> , 2017, 75, 554-564.	7.3	32
39	Sonochemistry production of ZnO and zero-valent Fe nanoparticles from solutions of electric arc furnace dust leaching. <i>Green Processing and Synthesis</i> , 2017, 6, 325-331.	3.4	2
40	Influence of the machining cooling strategies on the dental tribocorrosion behaviour of wrought and additive manufactured Ti6Al4V. <i>Biotribology</i> , 2017, 11, 60-68.	1.9	14
41	Green synthesis of copper nanoparticles with ultrasound assistance. <i>Green Processing and Synthesis</i> , 2017, 6, 311-316.	3.4	15
42	Effect of Prior Microstructure and Heating Rate on the Austenitization Kinetics of 39NiCrMo3 Steel. <i>Steel Research International</i> , 2017, 88, 1600267.	1.8	12
43	The Effect of Cooling Strategies and Machining Feed Rate on the Corrosion Behavior and Wettability of AZ31 Alloy for Biomedical Applications. <i>Procedia CIRP</i> , 2017, 65, 7-12.	1.9	23
44	Synthesis of SnO ₂ and Ag Nanoparticles from Electronic Wastes with the Assistance of Ultrasound and Microwaves. <i>Jom</i> , 2017, 69, 1583-1588.	1.9	8
45	Sealing of PEO Coated AZ91 Magnesium Alloy Using La-Based Solutions. <i>International Journal of Corrosion</i> , 2017, 2017, 1-13.	1.1	28
46	Microstructure and Mechanical Properties of a 18Kt 5N Gold Alloy After Different Heat Treatments. <i>Metallography, Microstructure, and Analysis</i> , 2016, 5, 116-123.	1.0	4
47	Plasma electrolytic oxidation coating produced on 39NiCrMo3 steel. <i>Surface and Coatings Technology</i> , 2016, 307, 73-80.	4.8	33
48	Gold Recovery from PCBs with Thiosulfate as Complexing Agent. <i>Materials Science Forum</i> , 2016, 879, 289-294.	0.3	3
49	Electric Arc Furnace Slag as Coarse Recycled Aggregate for Concrete Production. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 44-50.	2.3	65
50	Corrosion properties of plasma electrolytic oxidation coated AA7075 treated using an electrolyte containing lanthanumâ€Salts. <i>Surface and Interface Analysis</i> , 2016, 48, 729-738.	1.8	35
51	Grey Anodizing of a Grade 5 Titanium Alloy: Study of Process Parameters. <i>Materials Science Forum</i> , 2016, 844, 115-124.	0.3	1
52	Ultrasound effects on zinc recovery from EAF dust by sulfuric acid leaching. <i>International Journal of Minerals, Metallurgy and Materials</i> , 2015, 22, 353-362.	4.9	30
53	Effect of microstructure and residual stresses, generated from different annealing and deformation processes, on the corrosion and mechanical properties of gold welding alloy wires. <i>Gold Bulletin</i> , 2015, 48, 135-145.	2.4	9
54	Experimental analysis of bending fatigue strength of plain and notched case-hardened gear steels. <i>International Journal of Fatigue</i> , 2015, 80, 145-161.	5.7	35

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55	Surface properties of AZ91 magnesium alloy after PEO treatment using molybdate salts and low current densities. <i>Applied Surface Science</i> , 2015, 357, 1031-1039.	6.1	35
56	The effect of prolonged heat treatments on the microstructural evolution of Al/Ni intermetallic compounds in multi layered composites. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 350-358.	4.0	31
57	Characterization of Cu-Ni alloy electrodeposition and synthesis of nanoparticles by pulsed sonoelectrochemistry. <i>Materials Chemistry and Physics</i> , 2014, 144, 272-279.	4.0	22
58	Effects of atmospheric pressure plasma JET treatment on aluminium alloys. <i>Surface Engineering</i> , 2014, 30, 636-642.	2.2	9
59	Effect of process parameters of plasma electrolytic oxidation on microstructure and corrosion properties of magnesium alloys. <i>Journal of Applied Electrochemistry</i> , 2014, 44, 867-879.	2.9	28
60	Microstructural Evolution of a Continuously Cooled Air Hardening Steel. <i>Metallography, Microstructure, and Analysis</i> , 2013, 2, 56-66.	1.0	6
61	Method to improve corrosion resistance of AA 5083 by cerium based conversion coating and anodic polarisation in molybdate solution. <i>Corrosion Engineering Science and Technology</i> , 2012, 47, 223-232.	1.4	11
62	The effect of surface treatment with atmospheric pressure plasma jet, generated by air, on corrosion properties of AISI 304L stainless steel. <i>Materials Chemistry and Physics</i> , 2012, 136, 1073-1080.	4.0	9
63	Temperature dependent properties and aggregation behaviour of FeCo nanoparticles produced sonoelectrochemically. <i>Journal of Nanoparticle Research</i> , 2011, 13, 7253-7262.	1.9	4
64	Corrosion Properties of NdFeB Magnets Coated by a Ni/Cu/Ni Layer in Chloride and Sulfide Environments. <i>Journal of Materials Engineering and Performance</i> , 2010, 19, 970-975.	2.5	23
65	Iron-chromium alloy nanoparticles produced by pulsed sonoelectrochemistry: Synthesis and characterization. <i>Acta Materialia</i> , 2010, 58, 311-319.	7.9	15
66	Diffusion treatment of Ni-B coatings by induction heating to harden the surface of Ti-6Al-4V alloy. <i>Materials Chemistry and Physics</i> , 2009, 115, 467-472.	4.0	24
67	Effects of cathodic electrodeposition parameters of cerium oxide film on the corrosion resistance of the 2024 Al alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2009, 60, 514-520.	1.5	14
68	Sonoelectrochemical (20kHz) production of platinum nanoparticles from aqueous solutions. <i>Electrochimica Acta</i> , 2009, 54, 7201-7206.	5.2	60
69	Effect of diffusion of Ni and B on the microstructure and hardness of Ti Cp. <i>Journal of Alloys and Compounds</i> , 2009, 481, 246-253.	5.5	10
70	Sonoelectrochemical Synthesis of FeCo Nanoparticles: Study of the Effects of Baths Composition on Process Efficiency and Particles Features. <i>Current Nanoscience</i> , 2009, 5, 232-239.	1.2	6
71	Investigation of microstructure and properties of a Ni-Mo martensitic stainless steel. <i>Materials & Design</i> , 2008, 29, 246-250.	5.1	49
72	Sonoelectrochemical (20kHz) production of Co65Fe35 alloy nanoparticles from Aotani solutions. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 395-402.	2.9	27

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73	Surface Characterization of a Decarburized and Nitrided Steel. <i>Microscopy and Microanalysis</i> , 2006, 12, 335-339.	0.4	0
74	Microstructure of a Nitrided Steel Previously Decarburized. <i>Journal of Materials Engineering and Performance</i> , 2006, 15, 693-698.	2.5	11
75	Effect of HCl pre-treatment on corrosion resistance of cerium-based conversion coatings on magnesium and magnesium alloys. <i>Corrosion Science</i> , 2005, 47, 989-1000.	6.6	219
76	Corrosion Behavior of a Superduplex Stainless Steel in Chloride Aqueous Solution. <i>Journal of Materials Engineering and Performance</i> , 2004, 13, 237-240.	2.5	12
77	Characterization of Vacuum Brazed Joints for Superconducting Cavities. <i>Mikrochimica Acta</i> , 2004, 147, 141.	5.0	3
78	Corrosion resistance of cerium-based chemical conversion coatings on AA5083 aluminium alloy. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2004, 55, 381-386.	1.5	72
79	Hardening phases in some Ni-free 14 carat white gold alloys. <i>Intermetallics</i> , 2004, 12, 327-332.	3.9	3
80	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2003, 33, 995-1000.	2.9	11
81	Cerium-based chemical conversion coating on AZ63 magnesium alloy. <i>Surface and Coatings Technology</i> , 2003, 172, 227-232.	4.8	216
82	Study of long-term corrosion layers grown on high-tin leaded bronzes by means of the combined use of GDOES and SEM + EDS. <i>Surface and Interface Analysis</i> , 2002, 34, 337-342.	1.8	45
83	Combined use of GDOES and SEM + EDS for the microchemical study of oxide layers grown at high temperature on Nimonic 80 A nickel-based superalloy. <i>Surface and Interface Analysis</i> , 2002, 34, 507-513.	1.8	0
84	Cu-based amorphous alloy electrodes for fuel cells. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 145-148.	2.9	17
85	Nitric oxide reduction catalyzed by amorphous copper-zirconium and copper-titanium alloys. <i>Journal of Alloys and Compounds</i> , 2001, 317-318, 590-594.	5.5	2
86	Electrochemical behaviour of Cu-Zr and Cu-Ti glassy alloys. <i>Journal of Alloys and Compounds</i> , 2001, 317-318, 595-602.	5.5	23
87	Surface Hardening of Ti-6Al-4V Alloy Using Combined Electroless Ni-B Plating and Diffusion Treatments. <i>Surface Engineering</i> , 2001, 17, 393-396.	2.2	5
88	Cerium-based conversion layers on aluminum alloys. <i>Applied Surface Science</i> , 2001, 172, 312-322.	6.1	194
89	Microstructural Characterization of a Pt-Aluminide Coated IN738LC. <i>Journal of Materials Engineering and Performance</i> , 2001, 10, 258-262.	2.5	4
90	Microchemical study of the corrosion products on ancient bronzes by means of glow discharge optical emission spectrometry. <i>Surface and Interface Analysis</i> , 2000, 30, 264-268.	1.8	16

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91	New Lean Duplex Stainless Steels for Structural Applications. Materials Science Forum, 0, 604-605, 419-426.	0.3	5
92	Microstructure and Corrosion Properties of PEO Coatings Produced on AM-Aluminum Alloys. Key Engineering Materials, 0, 813, 298-303.	0.4	14