

Manuele DabalÃ

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2942386/publications.pdf>

Version: 2024-02-01

92
papers

2,304
citations

201674

27
h-index

243625

44
g-index

92
all docs

92
docs citations

92
times ranked

1861
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Cerium-based chemical conversion coating on AZ63 magnesium alloy. <i>Surface and Coatings Technology</i> , 2003, 172, 227-232.	4.8	216
3	Cerium-based conversion layers on aluminum alloys. <i>Applied Surface Science</i> , 2001, 172, 312-322.	6.1	194
4	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
5	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
6	Electric Arc Furnace Slag as Coarse Recycled Aggregate for Concrete Production. <i>Journal of Sustainable Metallurgy</i> , 2016, 2, 44-50.	2.3	65
7	Sonoelectrochemical (20kHz) production of platinum nanoparticles from aqueous solutions. <i>Electrochimica Acta</i> , 2009, 54, 7201-7206.	5.2	60
8	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
9	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
10	Investigation of microstructure and properties of a Ni-Mo martensitic stainless steel. <i>Materials & Design</i> , 2008, 29, 246-250.	5.1	49
11	Sealing of PEO coated AZ91 magnesium alloy using solutions containing neodymium. <i>Corrosion Science</i> , 2020, 173, 108741.	6.6	46
12	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
13	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
14	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
15	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
16	Corrosion properties of plasma electrolytic oxidation coated AA7075 treated using an electrolyte containing lanthanum salts. <i>Surface and Interface Analysis</i> , 2016, 48, 729-738.	1.8	35
17	Plasma electrolytic oxidation coating produced on 39NiCrMo3 steel. <i>Surface and Coatings Technology</i> , 2016, 307, 73-80.	4.8	33
18	Antibacterial effect of PEO coating with silver on AA7075. <i>Materials Science and Engineering C</i> , 2017, 75, 554-564.	7.3	32

#	ARTICLE	IF	CITATIONS
19	Microstructural and Corrosion Properties of Hydroxyapatite Containing PEO Coating Produced on AZ31 Mg Alloy. <i>Materials</i> , 2021, 14, 1531.	2.9	32
20	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
21	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
22	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
23	Plasma electrolytic oxidation coatings with fungicidal properties. <i>Surface Engineering</i> , 2019, 35, 325-333.	2.2	29
24	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
25	Sealing of PEO Coated AZ91 Magnesium Alloy Using La-Based Solutions. <i>International Journal of Corrosion</i> , 2017, 2017, 1-13.	1.1	28
26	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
27	Sonoelectrochemical (20kHz) production of Co ₆₅ Fe ₃₅ alloy nanoparticles from Aotani solutions. <i>Journal of Applied Electrochemistry</i> , 2008, 38, 395-402.	2.9	27
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	Effect of Different Austempering Heat Treatments on Corrosion Properties of High Silicon Steel. <i>Materials</i> , 2021, 14, 288.	2.9	20

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Cu-based amorphous alloy electrodes for fuel cells. <i>Journal of Applied Electrochemistry</i> , 2002, 32, 145-148.	2.9	17
40	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
41	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
42	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
43	Iron-chromium alloy nanoparticles produced by pulsed sonoelectrochemistry: Synthesis and characterization. <i>Acta Materialia</i> , 2010, 58, 311-319.	7.9	15
44	Green synthesis of copper nanoparticles with ultrasound assistance. <i>Green Processing and Synthesis</i> , 2017, 6, 311-316.	3.4	15
45	Large strain extrusion machining of magnesium alloys for biomedical applications. <i>Procedia CIRP</i> , 2018, 71, 105-110.	1.9	15
46	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
47	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
48	Microstructure and Corrosion Properties of PEO Coatings Produced on AM-Aluminum Alloys. <i>Key Engineering Materials</i> , 0, 813, 298-303.	0.4	14
49	Microstructural and Corrosion Properties of PEO Coated Zinc-Aluminized (ZA) Steel. <i>Coatings</i> , 2020, 10, 448.	2.6	13
50	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
51	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
52	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
53	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
54	Title is missing!. <i>Journal of Applied Electrochemistry</i> , 2003, 33, 995-1000.	2.9	11

#	ARTICLE	IF	CITATIONS
55	Microstructure of a Nitrided Steel Previously Decarburized. Journal of Materials Engineering and Performance, 2006, 15, 693-698.	2.5	11
56	Method to improve corrosion resistance of AA 5083 by cerium based conversion coating and anodic polarisation in molybdate solution. Corrosion Engineering Science and Technology, 2012, 47, 223-232.	1.4	11
57	Effect of diffusion of Ni and B on the microstructure and hardness of Ti Cp. Journal of Alloys and Compounds, 2009, 481, 246-253.	5.5	10
58	Plasma-Activated Water Triggers Rapid and Sustained Cytosolic Ca ²⁺ Elevations in Arabidopsis thaliana. Plants, 2021, 10, 2516.	3.5	10
59	The effect of surface treatment with atmospheric pressure plasma jet, generated by air, on corrosion properties of AISI 304L stainless steel. Materials Chemistry and Physics, 2012, 136, 1073-1080.	4.0	9
60	Effects of atmospheric pressure plasma JET treatment on aluminium alloys. Surface Engineering, 2014, 30, 636-642.	2.2	9
61	Effect of microstructure and residual stresses, generated from different annealing and deformation processes, on the corrosion and mechanical properties of gold welding alloy wires. Gold Bulletin, 2015, 48, 135-145.	2.4	9
62	Structural and Optical Annealing Route-Dependent Properties of CZTS Thin Films Grown by One-Step Electrodeposition with Free Annealing Sulfurization for Photovoltaic Application. Journal of Electronic Materials, 2019, 48, 8254-8260.	2.2	9
63	Innovative recycling of end of life silicon PV panels: ReSiELP. Detritus, 2021, , 41-47.	0.9	9
64	Fretting Corrosion Behavior of Additive Manufactured and Cryogenicâ€Machined Ti6Al4V for Biomedical Applications. Advanced Engineering Materials, 2017, 19, 1500629.	3.5	8
65	Synthesis of SnO ₂ and Ag Nanoparticles from Electronic Wastes with the Assistance of Ultrasound and Microwaves. Jom, 2017, 69, 1583-1588.	1.9	8
66	Influence of Solvent on the Proprieties of Cu ₂ ZnSnS ₄ Thin Film Fabricated by One-Step Electrodeposition. Russian Journal of Electrochemistry, 2019, 55, 796-801.	0.9	8
67	Effect of Salt Bath Nitrocarburizing and Post-Oxidation on Static and Fatigue Behaviours of a Construction Steel. Metals, 2019, 9, 1306.	2.3	8
68	A green and low-cost synthetic approach based on deep eutectic choline-urea solvent toward synthesis of CZTS thin films. Ionics, 2019, 25, 2755-2761.	2.4	8
69	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. Corrosion Engineering Science and Technology, 2021, 56, 81-92.	1.4	8
70	Microstructural Evolution of a Continuously Cooled Air Hardening Steel. Metallography, Microstructure, and Analysis, 2013, 2, 56-66.	1.0	6
71	Enabling Circular Economy: The Overlooked Role of Inorganic Materials Chemistry. Chemistry - A European Journal, 2021, 27, 6676-6695.	3.3	6
72	Sonoelectrochemical Synthesis of FeCo Nanoparticles: Study of the Effects of Baths Composition on Process Efficiency and Particles Features. Current Nanoscience, 2009, 5, 232-239.	1.2	6

#	ARTICLE	IF	CITATIONS
73	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
74	New Lean Duplex Stainless Steels for Structural Applications. <i>Materials Science Forum</i> , 0, 604-605, 419-426.	0.3	5
75	Microstructural Characterization of a Pt-Aluminide Coated IN738LC. <i>Journal of Materials Engineering and Performance</i> , 2001, 10, 258-262.	2.5	4
76	Temperature dependent properties and aggregation behaviour of FeCo nanoparticles produced sonoelectrochemically. <i>Journal of Nanoparticle Research</i> , 2011, 13, 7253-7262.	1.9	4
77	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
78	Characterization of Vacuum Brazed Joints for Superconducting Cavities. <i>Mikrochimica Acta</i> , 2004, 147, 141.	5.0	3
79	Hardening phases in some Ni-free 14 carat white gold alloys. <i>Intermetallics</i> , 2004, 12, 327-332.	3.9	3
80	Gold Recovery from PCBs with Thiosulfate as Complexing Agent. <i>Materials Science Forum</i> , 2016, 879, 289-294.	0.3	3
81	Comparative Study on Cu ₂ ZnSnS ₄ (CZTS) Thin Film using Different Sulfur Precursor. , 2018, , .		3
82	Effect of Precipitation Hardening on Corrosion Resistance of Cu-4.5wt.%Ti. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 1306-1317.	2.5	3
83	Microstructural and Corrosion Properties of Burnished 6060 Aluminum Alloy. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4460.	2.5	3
84	Characterization of black coating on Fe360 steel obtained with immersion in aqueous solutions. <i>Surfaces and Interfaces</i> , 2021, 26, 101317.	3.0	3
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	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
87	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
88	Grey Anodizing of a Grade 5 Titanium Alloy: Study of Process Parameters. <i>Materials Science Forum</i> , 2016, 844, 115-124.	0.3	1
89	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
90	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

#	ARTICLE	IF	CITATIONS
91	Surface Characterization of a Decarburized and Nitrided Steel. Microscopy and Microanalysis, 2006, 12, 335-339.	0.4	0
92	Development of Thermomechanical Processes as an Alternative to Grain Refiners in 18 Carat Gold Alloys. Journal of Materials Engineering and Performance, 2021, 30, 2680-2690.	2.5	0