

Fabienne Delaunois

List of Publications by Year in descending order

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49
papers

1,429
citations

361045

20
h-index

344852

36
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all docs

49
docs citations

49
times ranked

616
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat treatments for electroless nickel–boron plating on aluminium alloys. <i>Surface and Coatings Technology</i> , 2002, 160, 239-248.	2.2	175
2	Autocatalytic electroless nickel-boron plating on light alloys. <i>Surface and Coatings Technology</i> , 2000, 124, 201-209.	2.2	155
3	Mechanical properties and scratch test resistance of nickel–boron coated aluminium alloy after heat treatments. <i>Surface and Coatings Technology</i> , 2008, 202, 3316-3324.	2.2	89
4	Structural state of electroless nickel–boron deposits (5wt.% B): Characterization by XRD and TEM. <i>Surface and Coatings Technology</i> , 2012, 206, 3444-3449.	2.2	87
5	Mechanical and wear characterization of electroless nickel-boron coatings. <i>Surface and Coatings Technology</i> , 2011, 206, 1879-1885.	2.2	70
6	Application of nitriding to electroless nickel–boron coatings: Chemical and structural effects; mechanical characterization; corrosion resistance. <i>Materials & Design</i> , 2012, 39, 269-278.	5.1	69
7	Wear and corrosion resistance of heat treated and as-plated Duplex NiP/NiB coatings on 2024 aluminum alloys. <i>Surface and Coatings Technology</i> , 2012, 206, 3421-3427.	2.2	67
8	Experimental study on the formation and growth of electroless nickel–boron coatings from borohydride-reduced bath on mild steel. <i>Applied Surface Science</i> , 2012, 263, 640-647.	3.1	63
9	Effect of thermochemical and heat treatments on electroless nickel–boron. <i>Materials Letters</i> , 2009, 63, 2662-2665.	1.3	53
10	Wear and corrosion resistance behaviours of autocatalytic electroless plating. <i>Journal of Alloys and Compounds</i> , 2009, 486, L21-L23.	2.8	48
11	Initiation and formation of electroless nickel–boron coatings on mild steel: Effect of substrate roughness. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 175, 266-273.	1.7	47
12	Nickel–boron electrochemical properties investigations. <i>Journal of Alloys and Compounds</i> , 2010, 505, 151-156.	2.8	44
13	Microstructure and mechanical characterization of NiCrBSi alloy and NiCrBSi-WC composite coatings produced by flame spraying. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2019, 241, 13-21.	1.7	38
14	Microstructure of two centrifugal cast high speed steels for hot strip mills applications. <i>Materials & Design</i> , 2012, 34, 372-378.	5.1	33
15	Tungsten carbide powder obtained by direct carburization of tungsten trioxide using mechanical alloying method. <i>Journal of Alloys and Compounds</i> , 2016, 659, 302-308.	2.8	32
16	Optimization of electroless NiB deposition without stabilizer, based on surface roughness and plating rate. <i>Journal of Alloys and Compounds</i> , 2018, 767, 276-284.	2.8	31
17	The tin stabilization effect on the microstructure, corrosion and wear resistance of electroless NiB coatings. <i>Surface and Coatings Technology</i> , 2019, 357, 353-363.	2.2	30
18	Corrosion behaviour of electroless high boron-mid phosphorous nickel duplex coatings in the as-plated and heat-treated states in NaCl, H ₂ SO ₄ , NaOH and Na ₂ SO ₄ media. <i>Materials Chemistry and Physics</i> , 2018, 208, 77-84.	2.0	29

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19	Comparison of Various Electroless Nickel Coatings on Steel: Structure, Hardness and Abrasion Resistance. <i>Materials Science Forum</i> , 0, 783-786, 1405-1413.	0.3	26
20	Corrosion behaviour and biocorrosion of galvanized steel water distribution systems. <i>Bioelectrochemistry</i> , 2014, 97, 110-119.	2.4	26
21	Monitoring of chloride stress corrosion cracking of austenitic stainless steel: identification of the phases of the corrosion process and use of a modified accelerated test. <i>Corrosion Science</i> , 2016, 110, 273-283.	3.0	25
22	Thermal cycle simulation of welding process in low carbon steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2011, 530, 191-195.	2.6	20
23	Evolution of Reactive Concentration during Borohydride-Reduced Electroless Nickel-Boron Plating and Design of a Replenishment Procedure. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 9227-9234.	1.8	19
24	Formation of borohydride-reduced nickel-boron coatings on various steel substrates. <i>Applied Surface Science</i> , 2015, 359, 692-703.	3.1	18
25	Replacement of Lead stabilizer in electroless Nickel-Boron baths: Synthesis and characterization of coatings from bismuth stabilized bath. <i>Sustainable Materials and Technologies</i> , 2020, 23, e00130.	1.7	16
26	Resistance to High-Temperature Oxidation and Wear of Various Ferrous Alloys Used in Rolling Mills. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2018, 49, 822-835.	1.1	12
27	Effectiveness of phased array focused ultrasound and active infrared thermography methods as a nondestructive testing of Ni-WC coating adhesion. <i>Nondestructive Testing and Evaluation</i> , 2019, 34, 205-220.	1.1	11
28	Influence of the anionic part of the stabilizer on electroless nickel-boron plating. <i>Materials and Manufacturing Processes</i> , 2018, 33, 227-231.	2.7	10
29	Wear and Corrosion Resistance of Electroless Nickel-Boron Coated Mild Steel. <i>Materials Science Forum</i> , 2010, 638-642, 846-851.	0.3	9
30	Nanostructured electroless nickel-boron coatings for wear resistance. , 2015, , 157-199.		9
31	Study of the Processing of a Recycled WC-Co Powder: Can It Compete with Conventional WC-Co Powders?. <i>Journal of Sustainable Metallurgy</i> , 2021, 7, 448-458.	1.1	9
32	Inorganic salts stabilizers effect in electroless nickel-boron plating: Stabilization mechanism and microstructure modification. <i>Surface and Coatings Technology</i> , 2020, 401, 126276.	2.2	8
33	Influence of the milling parameters on the sintering behaviour of WC-Co composites. <i>Materials and Manufacturing Processes</i> , 2020, 35, 811-816.	2.7	8
34	High-energy ball milling of WC-10Co: Effect of the milling medium and speed on the mechanical properties. <i>International Journal of Refractory Metals and Hard Materials</i> , 2022, 104, 105774.	1.7	8
35	Tribological Characterization of Electroless Nickel-Boron Coatings. <i>Advanced Materials Research</i> , 0, 409, 808-813.	0.3	5
36	Accelerated Aging and Portevin-Le Chatelier Effect in AA 2024. <i>Materials Science Forum</i> , 0, 879, 524-529.	0.3	5

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37	Study of the milling parameters optimization in the direct carburization of WO ₃ by mechanical alloying. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105160.	1.7	5
38	SIMULATED HEAT AFFECTED ZONE IN WELDED STAINLESS STEEL 304L. Acta Metallurgica Slovaca, 2019, 25, 142-149.	0.3	5
39	The Trivalent Chromium Pretreatment Applied to Aluminium 1050. Materials Science Forum, 1997, 242, 213-218.	0.3	3
40	Recovery of the microstructural changes of different duplex stainless steel alloys. Multidiscipline Modeling in Materials and Structures, 2021, 17, 668-680.	0.6	3
41	Oxidation and wear behavior of high-speed steel and semi-high-speed steel used in hot strip mill. International Journal of Advanced Manufacturing Technology, 2022, 119, 677-689.	1.5	3
42	Trends in heat treatment and surface engineering. Metallurgical Research and Technology, 2018, 115, 401.	0.4	2
43	Valorization and characterization of CCRs of the Jerada thermal power plant in the northeast of Morocco. International Journal of Engineering and Technology, 2017, 9, 3292-3309.	0.1	2
44	Direct Carburization of Tungsten Trioxide by Mechanical Alloying. Advanced Materials Research, 2015, 1128, 51-57.	0.3	1
45	Electroless Nickel-Boron Coatings. , 2016, , 1161-1178.		1
46	Minimization of Landau potentials invariant under O(3).II. Journal of Mathematical Physics, 1990, 31, 1300-1303.	0.5	0
47	Effect of Cutting Speed during Turning of Low Carbon Steel on Mechanical Properties and Surface Roughness². Advanced Materials Research, 0, 1096, 340-345.	0.3	0
48	Control, modeling and characterization of heat treatment and surface engineering. Materiaux Et Techniques, 2018, 106, 101.	0.3	0
49	Modeling Approach of the Experiment: Waste Reuse of the Jerada Thermal Power Plant (Morocco). Lecture Notes in Electrical Engineering, 2019, , 690-696.	0.3	0