

VÃ©ronique Vitry

List of Publications by Year in descending order

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51
papers

1,388
citations

304368

22
h-index

360668

35
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52
all docs

52
docs citations

52
times ranked

617
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	Increase of boron content in electroless nickel-boron coating by modification of plating conditions. <i>Surface and Coatings Technology</i> , 2017, 311, 164-171.	2.2	78
4	Mechanical and wear characterization of electroless nickel-boron coatings. <i>Surface and Coatings Technology</i> , 2011, 206, 1879-1885.	2.2	70
5	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
6	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
7	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
8	Effect of thermochemical and heat treatments on electroless nickel-boron. <i>Materials Letters</i> , 2009, 63, 2662-2665.	1.3	53
9	Recent advances in electroless nickel-boron coatings. <i>Surface and Coatings Technology</i> , 2022, 429, 127937.	2.2	50
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	Mechanical and wear characterization of electroless nickel mono and bilayers and high boron-mid phosphorus electroless nickel duplex coatings. <i>Surface and Coatings Technology</i> , 2016, 307, 957-962.	2.2	44
14	Formation and characterization of multilayers borohydride and hypophosphite reduced electroless nickel deposits. <i>Electrochimica Acta</i> , 2017, 243, 7-17.	2.6	42
15	Microstructure of two centrifugal cast high speed steels for hot strip mills applications. <i>Materials & Design</i> , 2012, 34, 372-378.	5.1	33
16	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
17	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
18	Electroless deposition of nickel-boron coatings using low frequency ultrasonic agitation: Effect of ultrasonic frequency on the coatings. <i>Ultrasonics</i> , 2017, 77, 61-68.	2.1	30

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19	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
20	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
21	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
22	Corrosion behaviour and biocorrosion of galvanized steel water distribution systems. <i>Bioelectrochemistry</i> , 2014, 97, 110-119.	2.4	26
23	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
24	Effect of temperature on ultrasound-assisted electroless nickel-boron plating. <i>Ultrasonics Sonochemistry</i> , 2019, 56, 327-336.	3.8	23
25	Chemical, morphological and structural characterisation of electroless duplex NiP/NiB coatings on steel. <i>Surface Engineering</i> , 2018, 34, 475-484.	1.1	20
26	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
27	Preparation and characterization of gasochromic thin films. <i>Thin Solid Films</i> , 2006, 502, 265-269.	0.8	18
28	Formation of borohydride-reduced nickel-boron coatings on various steel substrates. <i>Applied Surface Science</i> , 2015, 359, 692-703.	3.1	18
29	Improvement of the corrosion performance of AA2024 alloy by a duplex PEO/clay modified sol-gel nanocomposite coating. <i>Surface and Coatings Technology</i> , 2022, 434, 128168.	2.2	18
30	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
31	Covid-19: effect of disinfection on corrosion of surfaces. <i>Corrosion Engineering Science and Technology</i> , 2020, 55, 693-695.	0.7	15
32	Characterization of Electroless Nickel-Boron Deposit from Optimized Stabilizer-Free Bath. <i>Coatings</i> , 2021, 11, 576.	1.2	15
33	Wear Performance of Thermally Sprayed NiCrBSi and NiCrBSi-WC Coatings Under Two Different Wear Modes. <i>Journal of Materials and Environmental Science</i> , 2017, 8, 4550-4559.	0.5	14
34	Mechanical properties of heat-treated duplex electroless nickel coatings. <i>Surface Engineering</i> , 2019, 35, 158-166.	1.1	13
35	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
36	Wear and Corrosion Resistance of Electroless Nickel-Boron Coated Mild Steel. <i>Materials Science Forum</i> , 2010, 638-642, 846-851.	0.3	9

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37	Nanostructured electroless nickel-boron coatings for wear resistance. , 2015, , 157-199.		9
38	Study of the Processing of a Recycled WCâ€“Co Powder: Can It Compete with Conventional WCâ€“Co Powders?. Journal of Sustainable Metallurgy, 2021, 7, 448-458.	1.1	9
39	Inorganic salts stabilizers effect in electroless nickel-boron plating: Stabilization mechanism and microstructure modification. Surface and Coatings Technology, 2020, 401, 126276.	2.2	8
40	Influence of the milling parameters on the sintering behaviour of WC-Co composites. Materials and Manufacturing Processes, 2020, 35, 811-816.	2.7	8
41	High-energy ball milling of WC-10Co: Effect of the milling medium and speed on the mechanical properties. International Journal of Refractory Metals and Hard Materials, 2022, 104, 105774.	1.7	8
42	Tribological Characterization of Electroless Nickel-Boron Coatings. Advanced Materials Research, 0, 409, 808-813.	0.3	5
43	Accelerated Aging and Portevin-Le Chatelier Effect in AA 2024. Materials Science Forum, 0, 879, 524-529.	0.3	5
44	Study of the milling parameters optimization in the direct carburization of WO3 by mechanical alloying. International Journal of Refractory Metals and Hard Materials, 2020, 87, 105160.	1.7	5
45	Recovery of the microstructural changes of different duplex stainless steel alloys. Multidiscipline Modeling in Materials and Structures, 2021, 17, 668-680.	0.6	3
46	Trends in heat treatment and surface engineering. Metallurgical Research and Technology, 2018, 115, 401.	0.4	2
47	Indentationâ€™: techniques expÃ©rimentales et modÃ©lisation multiÃ©chelle. Materiaux Et Techniques, 2019, 107, 204.	0.3	2
48	Direct Carburization of Tungsten Trioxide by Mechanical Alloying. Advanced Materials Research, 2015, 1128, 51-57.	0.3	1
49	Electroless Nickel-Boron Coatings. , 2016, , 1161-1178.		1
50	Contraintes rÃ©siduelles et comportement mÃ©canique de revÃªtements nickel-bore. Materiaux Et Techniques, 2019, 107, 205.	0.3	1
51	Control, modeling and characterization of heat treatment and surface engineering. Materiaux Et Techniques, 2018, 106, 101.	0.3	0