BoÅ¼ena Åosiewicz

List of Publications by Year
in descending order

84 papers	1,022 citations	566801 15 h-index	476904 29 g-index
84 all docs	84 docs citations	84 times ranked	1013 citing authors

#	Article	IF	Citations
1	The structure, morphology and electrochemical impedance study of the hydrogen evolution reaction on the modified nickel electrodes. International Journal of Hydrogen Energy, 2004, 29, 145-157.	3.8	231
2	Electrodeposition of composite Ni-based coatings with the addition of Ti or/and Al particles. Thin Solid Films, 2005, 474, 146-153.	0.8	84
3	Composite layers in Niâ€“P system containing TiO2 and PTFE. Thin Solid Films, 1999, 349, 43-50.	0.8	64
4	Kinetics of hydrogen underpotential deposition at polycrystalline platinum in acidic solutions. Electrochimica Acta, 2012, 80, 292-301.	2.6	60
5	Effect of Heat-Treatment on the Mechanism and Kinetics of the Hydrogen Evolution Reaction on Niâ€“P + TiO2+ Ti Electrodes. Journal of Applied Electrochemistry, 2004, 34, 507-516.	1.5	59
6	Kinetics of hydrogen underpotential deposition at iridium in sulfuric and perchloric acids. Electrochimica Acta, 2017, 225, 160-167.	2.6	35
7	Experimental design in the electrodeposition process of porous composite Niâ€“P+TiO2 coatings. Materials Chemistry and Physics, 2011, 128, 442-448.	2.0	31
8	Production, structure and biocompatible properties of oxide nanotubes on Ti13Nb13Zr alloy for medical applications. Materials Characterization, 2017, 132, 363-372.	1.9	29
9	Kinetics of hydrogen underpotential deposition at polycrystalline rhodium in acidic solutions. Electrochimica Acta, 2011, 56, 5746-5753.	2.6	27
10	Effect of alloying on corrosion resistance of B2 FeAl alloy in aqueous solution of sulfuric acid. Materials Chemistry and Physics, 2011, 126, 314-318.	2.0	22
11	A.c. impedance study on the interfacial properties of passivated Ti13Zr13Nb alloy in physiological saline solution. Surface and Interface Analysis, 2014, 46, 698-701.	0.8	19
12	Functionalization of the NiTi Shape Memory Alloy Surface by HAp/SiO2/Ag Hybrid Coatings Formed on SiO2-TiO2 Glass Interlayer. Materials, 2020, 13, 1648.	1.3	19
13	Structure of Low Temperature Nitrided/Oxidized Layer Formed on NiTi Shape Memory Alloy. Solid State Phenomena, 2010, 163, 127-130.	0.3	18
14	Effect of Autoclaving Time on Corrosion Resistance of Sandblasted Ti G4 in Artificial Saliva. Materials, 2020, 13, 4154.	1.3	18
15	Mechanical Properties, Corrosion Resistance and Bioactivity of Oxide Layers Formed by Isothermal Oxidation of Ti-6Al-7Nb Alloy. Coatings, 2021, 11, 505.	1.2	17
16	The Influence of Passivation Type on Corrosion Resistance of Ti15Mo Alloy in Simulated Body Fluids / WpÅ‚yw Rodzaju Pasywacji Powierzchni Stopu Ti15Mo Na Jego OdpornoÅ›Ä‡ KorozyjnÄ… W Åšrodowisku PÅ‚ynÃ³w Ustrojowych. Archives of Metallurgy and Materials, 2015, 60, 2687-2694.	0.6	14
17	Electrodeposition Mechanism of Composite Coatings. Solid State Phenomena, 0, 228, 65-78.	0.3	13
18	Electrophoretic deposition of chitosan coatings on the Ti15Mo biomedical alloy from a citric acid solution. RSC Advances, 2020, 10, 13386-13393.	1.7	13

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19	The Influence of the Gradient Infill of PLA Samples Produced with the FDM Technique on Their Mechanical Properties. Materials, 2022, 15, 1304.	1.3	13
20	Long-Term Assessment of the In Vitro Corrosion Resistance of Biomimetic ACP Coatings Electrodeposited from an Acetate Bath. Journal of Functional Biomaterials, 2021, 12, 12.	1.8	12
21	Application of the Scanning Kelvin Probe Technique for Characterization of Corrosion Interfaces. Solid State Phenomena, 0, 228, 369-382.	0.3	11
22	Localized Electrochemical Impedance Spectroscopy for Studying the Corrosion Processes in a Nanoscale. Solid State Phenomena, 2015, 228, 383-393.	0.3	11
23	Corrosion Resistance of the CpTi G2 Cellular Lattice with TPMS Architecture for Gas Diffusion Electrodes. Materials, 2021, 14, 81.	1.3	11
24	Kinetic and Thermodynamic Parameters of Hydrogen Sorption in Pd, Pd-Pt and on Pt. ECS Transactions, 2006, 2, 11-19.	0.3	10
25	Effect of Polarization Scan Rate on the Pitting Potential of the Self-Passivated NiTi Shape Memory Alloy in a Simulated Body Fluid. Solid State Phenomena, 0, 227, 443-446.	0.3	10
26	Effect of hydrogen electrosorption on corrosion resistance of Pd80Rh20 alloy in sulfuric acid: EIS andÂLEIS study. International Journal of Hydrogen Energy, 2018, 43, 20004-20010.	3.8	10
27	Study of the hydrogen absorption/diffusion in Pd80Rh20 alloy in acidic solution. Journal of Electroanalytical Chemistry, 2018, 822, 153-162.	1.9	10
28	EIS Study on Interfacial Properties of Passivated Nitinol Orthodontic Wire in Saliva Modified with EludrilÂ® Mouthwash. Protection of Metals and Physical Chemistry of Surfaces, 2018, 54, 680-688.	0.3	10
29	Photochemical, Electrochemical and Enzymatic Methods for Etherâ€Bond Cleavage. European Journal of Organic Chemistry, 2006, 2006, 2485-2497.	1.2	9
30	Electrochemical Formation of Self-Organized Nanotubular Oxide Layers on Niobium (Review). Current Nanoscience, 2018, 15, 42-48.	0.7	9
31	Influence of Sandblasting Process on Tribological Properties of Titanium Grade 4 in Artificial Saliva for Dentistry Applications. Materials, 2021, 14, 7536.	1.3	9
32	Evaluation of mechanical properties, in vitro corrosion resistance and biocompatibility of Gum Metal in the context of implant applications. Journal of the Mechanical Behavior of Biomedical Materials, 2021, 115, 104289.	1.5	8
33	Production, Characterization and Application of Oxide Nanotubes on Tiâ€“6Alâ€“7Nb Alloy as a Potential Drug Carrier. Materials, 2021, 14, 6142.	1.3	7
34	The Influence of Current Density of Electrodeposition on the Electrochemical Properties of Ni-Mo Alloy Coatings. Solid State Phenomena, 2015, 228, 269-272.	0.3	6
35	Real-Time Corrosion Monitoring of AISI 1010 Carbon Steel with Metal Surface Mapping in Sulfolane. Materials, 2019, 12, 3276.	1.3	6
36	Temperature-Related Corrosion Resistance of AISI 1010 Carbon Steel in Sulfolane. Materials, 2020, 13, 2563.	1.3	6

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37	Effect of Temperature on Electrochemically Assisted Deposition and Bioactivity of CaP Coatings on CpTi Grade 4. Materials, 2021, 14, 5081.	1.3	6
38	Intermetallic Compounds as Catalysts in the Reaction of Electroevolution/Absorption of Hydrogen. Solid State Phenomena, 2015, 228, 16-22.	0.3	5
39	Use of Scanning Vibrating Electrode Technique to Localized Corrosion Evaluation. Solid State Phenomena, 0, 228, 353-368.	0.3	5
40	Electrochemical synthesis of oxide nanotubes on biomedical Ti13Nb13Zr alloy with potential use as bone implant. AIP Conference Proceedings, 2019, , .	0.3	5
41	Water-Induced Corrosion Damage of Carbon Steel in Sulfolane. Energies, 2020, 13, 4580.	1.6	5
42	Effect of the Alloying Metal on the Corrosion Resistance of Pd-Rich Binary Alloys with Pt, Rh, and Ru in Sulfuric Acid. Materials, 2021, 14, 2923.	1.3	5
43	Effect of plastic working on hydrogen permeability in an FeAl-based alloy. Journal of Alloys and Compounds, 2009, 482, 371-375.	2.8	4
44	Structure and Electrochemical Corrosion Resistance of the Passivated Fe-40at.%Al Binary Alloy in Sulfuric Acid Solution. Solid State Phenomena, 2010, 163, 68-71.	0.3	4
45	Influence of Surface Development of Ni/W Coatings on the Kinetics of the Electrolytic Hydrogen Evolution. Solid State Phenomena, 2015, 228, 293-298.	0.3	4
46	Production and Characterization of the Third-Generation Oxide Nanotubes on Ti-13Zr-13Nb Alloy. Materials, 2022, 15, 2321.	1.3	4
47	Influence of thermal treatment on stress corrosion of Feâ€“40at.% Al alloy in water vapour environment. Journal of Alloys and Compounds, 2009, 478, 462-466.	2.8	3
48	Structure of Electrodeposited Zinc Oxide Films on NiTi Shape Memory Alloy for Biomedical Applications. Solid State Phenomena, 2013, 203-204, 236-239.	0.3	3
49	Structure and Resistance to Electrochemical Corrosion of NiTi Alloy. Solid State Phenomena, 0, 203-204, 335-338.	0.3	3
50	Characterization of Electrophoretically Deposited Chitosan Coatings on Ti13Zr13Nb Alloy for Biomedical Applications. Solid State Phenomena, 0, 203-204, 212-215.	0.3	2
51	On the Use of the Scanning Electrochemical Microscopy in Corrosion Research. Solid State Phenomena, 0, 228, 394-409.	0.3	2
52	A Coulometric Method by Local Anodic Dissolution for Measuring the Thickness of Ni/Cu Multi-Layer Electrocoatings. Solid State Phenomena, 0, 228, 319-324.	0.3	2
53	Effect of Phosphorus on the Structure of Nickel Electrocoatings. Solid State Phenomena, 0, 228, 141-147.	0.3	2
54	Electrodeposition of the Ni+MoS₂ Composite Electrocatalysts. Solid State Phenomena, 2015, 228, 125-131.	0.3	2

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55	Effect of Hydrogen Electrosorption on Mechanical and Electronic Properties of Pd80Rh20 Alloy. Materials, 2020, 13, 162.	1.3	2
56	Comparison of Electrochemical Properties of Ni+NiAl and Ni Coatings in an Alkaline Solution. Solid State Phenomena, 0, 228, 258-262.	0.3	1
57	Electrochemical Characterization of Nickel-Phosphorus Based Coatings Containing Cobalt. Solid State Phenomena, 2015, 228, 299-304.	0.3	1
58	Martensitic transformation and shape memory effect in NiTi alloy covered by chitosan/silver layer. MATEC Web of Conferences, 2015, 33, 03012.	0.1	1
59	Influence of Thermal Treatment on the Electrochemical Properties of Ni+Mo Composite Coatings in an Alkaline Solution. Solid State Phenomena, 0, 228, 231-236.	0.3	1
60	The Role of Ni(II) Ion Adsorption onto TiO₂ in the Electrodeposition of Composite Ni-P+TiO₂ Coatings. Solid State Phenomena, 0, 228, 89-100.	0.3	1
61	Effect of Molybdenum Powder Granulation on Electrochemical Properties of Ni+Mo Composite Coatings. Solid State Phenomena, 2015, 228, 288-292.	0.3	1
62	Production and Structure of Ni-W and Ni+W Coatings. Solid State Phenomena, 2015, 228, 153-157.	0.3	1
63	The Hydrogen Evolution Reaction on Fe Electrode Material in 1 M NaOH Solution. Solid State Phenomena, 2015, 228, 252-257.	0.3	1
64	Effect of Heat Treatment on the Structure of Ni-P Electrocoatings. Solid State Phenomena, 0, 228, 148-152.	0.3	1
65	Electrodeposition of the Ni-Mo+MoO₂ Composite Electrocoatings. Solid State Phenomena, 0, 228, 132-137.	0.3	1
66	DC Current Electrodeposition of High Mo Content Ni-Mo Alloy Coatings from Alkaline Solutions. Solid State Phenomena, 2015, 228, 116-124.	0.3	1
67	Effect of Phosphorus on the Corrosion Resistance of Nickel Electrocoatings. Solid State Phenomena, 2015, 228, 310-316.	0.3	1
68	New Ni-Me-P Electrode Materials. Solid State Phenomena, 2015, 228, 39-48.	0.3	1
69	Influence of Thermal Treatment on the Structure and the Corrosion Resistance of Zn-Ni Alloy Coatings. Solid State Phenomena, 2013, 203-204, 224-227.	0.3	0
70	Hydrogen Evolution Reaction on Nickel-Phosphorus+Titanium Oxides Composite Electrocoatings. Solid State Phenomena, 2015, 228, 187-199.	0.3	0
71	Influence of Thermal Treatment on the Electrochemical Properties of Ni+W+Mo+Si Composite Coatings in an Alkaline Solution. Solid State Phenomena, 0, 228, 305-309.	0.3	0
72	Electrode Materials. Solid State Phenomena, 2015, 228, 3-15.	0.3	0

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73	Characterization of Composite Coatings Obtained by Electrodeposition. Solid State Phenomena, 0, 228, 49-57.	0.3	0
74	Comparison of Electrocatalytic Activity of the Composite Ni-P+NiO and Ni-P+Ni(OH)₂ Coatings for Hydrogen Evolution. Solid State Phenomena, 2015, 228, 213-218.	0.3	0
75	Tailoring Structural and Electrochemical Properties of Composite Ni-Based Electrocoatings. Solid State Phenomena, 0, 228, 200-206.	0.3	0
76	In Situ Structure-Sensitive Studies of Metal-Hydrogen Interactions by Scanning Kelvin Probe. Solid State Phenomena, 2015, 228, 344-352.	0.3	0
77	The Hydrogen Evolution Reaction on Ni Electrode Material Modified with Molybdenum(IV) Oxide and Chromium(III) Oxide Powders. Solid State Phenomena, 2015, 228, 273-276.	0.3	0
78	Characteristics of the Galvanic Baths for Electrodeposition of Nickel Coatings Using the Hull Cell. Solid State Phenomena, 2015, 228, 79-88.	0.3	0
79	On Problems of Determination of the Kinetics of Hydrogen Electroevolution Reaction. Solid State Phenomena, 2015, 228, 333-343.	0.3	0
80	Comparison of Electrochemical Properties of Ni+MoS₂ and Ni Coatings in an Alkaline Solution. Solid State Phenomena, 2015, 228, 225-230.	0.3	0
81	Amorphous Ni-P Electrode Materials. Solid State Phenomena, 0, 228, 32-38.	0.3	0
82	Production and Electrochemical Characterization of Nickel Based Composite Coatings Containing Chromium Group Metal and Silicon Powders. Solid State Phenomena, 0, 228, 219-224.	0.3	0
83	The Influence of Temperature of Electrodeposition on the Electrochemical Properties of Ni Coatings. Solid State Phenomena, 2015, 228, 242-245.	0.3	0
84	Effect of sandblasting on the long-term corrosion resistance of Ti G4 in artificial saliva. Materials Proceedings, 2021, 6, .	0.2	0