LÃ¡szlÃ³ PÃ©ter

List of Publications by Year
in descending order

115 papers	2,111 citations	186209 28 h-index	276775 41 g-index
118 all docs	118 docs citations	118 times ranked	1401 citing authors

#	Article	IF	Citations
1	Electrodeposited multilayer films with giant magnetoresistance (GMR): Progress and problems. Progress in Materials Science, 2010, 55, 107-245.	16.0	205
2	Giant Magnetoresistance in Co-Cu/Cu Multilayers Prepared by Various Electrodeposition Control Modes. Journal of the Electrochemical Society, 2003, 150, C507.	1.3	77
3	Preparation and Magnetoresistance Characteristics of Electrodeposited Ni-Cu Alloys and Ni-Cu/Cu Multilayers. Journal of the Electrochemical Society, 2000, 147, 3311.	1.3	76
4	Microstructure and Giant Magnetoresistance of Electrodeposited Co-Cu/Cu Multilayers. Journal of the Electrochemical Society, 2001, 148, C168.	1.3	74
5	Decomposition of the magnetoresistance of multilayers into ferromagnetic and superparamagnetic contributions. Physical Review B, 2004, 70, .	1.1	70
6	Temperature dependence of the electrical resistivity and the anisotropic magnetoresistance (AMR) of electrodeposited Ni-Co alloys. European Physical Journal B, 2010, 75, 167-177.	0.6	58
7	Magnetothermopower and magnetoresistance of single Co-Ni/Cu multilayered nanowires. Physical Review B, 2014, 90, .	1.1	54
8	Relevance of the potentiodynamic method in parameter selection for pulse-plating of Coâ€“Cu/Cu multilayers. Electrochimica Acta, 2004, 49, 1513-1526.	2.6	49
9	Electrodeposition of Coâ€“Niâ€“Cu/Cu multilayers. Electrochimica Acta, 2007, 52, 3813-3821.	2.6	49
10	The role of nucleation in the evolution of giant magnetoresistance with layer thicknesses in electrodeposited Coâ€“Cu/Cu multilayers. Journal of Magnetism and Magnetic Materials, 2004, 280, 60-74.	1.0	47
11	Giant magnetoresistance in electrodeposited Co-Cu/Cu multilayers: Origin of the absence of oscillatory behavior. Physical Review B, 2009, 79, .	1.1	47
12	Anodic dissolution of aluminium in organic electrolytes containing perfluoroalkylsulfonyl imides. Journal of Applied Electrochemistry, 1999, 29, 1053-1061.	1.5	45
13	Hydrogen storage of nanocrystalline Mgâ€“Ni alloy processed by equal-channel angular pressing and cold rolling. International Journal of Hydrogen Energy, 2014, 39, 9911-9917.	3.8	44
14	Temperature dependence of giant magnetoresistance and magnetic properties in electrodepositedCoâˆ'Cuâˆ•Cumultilayers: The role of superparamagnetic regions. Physical Review B, 2006, 73, .	1.1	37
15	Characterization of Defect Structure in Electrodeposited Nanocrystalline Ni Films. Journal of the Electrochemical Society, 2016, 163, D107-D114.	1.3	37
16	Effect of Current and Potential Waveforms on Sublayer Thickness of Electrodeposited Copper-Nickel Multilayers. Journal of the Electrochemical Society, 2002, 149, C479.	1.3	36
17	Ferromagnetic and Superparamagnetic Contributions in the Magnetoresistance of Electrodeposited Co-Cu/Cu Multilayers. Journal of the Electrochemical Society, 2005, 152, C316.	1.3	35
18	Formation of microstructural defects in electrodeposited Co/Cu multilayers. Acta Materialia, 2009, 57, 3211-3222.	3.8	34

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19	Pulse electrodeposited RuO₂ electrodes for high-performance supercapacitor applications. Surface Engineering, 2019, 35, 102-108.	1.1	34
20	Origin of giant magnetoresistance contributions in electrodeposited Niâ€“Cu/Cu multilayers. Journal of Magnetism and Magnetic Materials, 2004, 269, 156-167.	1.0	33
21	Effect of electrodeposition modes on ruthenium oxide electrodes for supercapacitors. Current Applied Physics, 2018, 18, 1143-1148.	1.1	33
22	Preparation and Characterisation of Electrodeposited Niâ€“Cu/Cu Multilayers. Journal of Applied Electrochemistry, 2004, 34, 841-848.	1.5	31
23	On the composition depth profile of electrodeposited Feâ€“Coâ€“Ni alloys. Electrochimica Acta, 2010, 55, 4734-4741.	2.6	31
24	Additive Effects in Multilayer Electrodeposition:Â Properties of Coâˆ’Cu/Cu Multilayers Deposited with NaCl Additive. Journal of Physical Chemistry B, 2001, 105, 10867-10873.	1.2	30
25	Speciation without chromatography : Part I. Determination of tributyltin in aqueous samples by chloride generation, headspace solid-phase microextraction and inductively coupled plasma time of flight mass spectrometry. Journal of Analytical Atomic Spectrometry, 2001, 16, 1313.	1.6	30
26	Effect of Current and Potential Waveforms on GMR Characteristics of Electrodeposited Ni(Cu)/Cu Multilayers. Journal of the Electrochemical Society, 2004, 151, C256.	1.3	30
27	Electrodeposition of Niâ€“Coâ€“Cu/Cu multilayers. Electrochimica Acta, 2007, 53, 837-845.	2.6	30
28	Magnetoresistance and Structural Study of Electrodeposited Ni-Cu/Cu Multilayers. Journal of the Electrochemical Society, 2012, 159, D162-D171.	1.3	30
29	Influence of Cu deposition potential on the giant magnetoresistance and surface roughness of electrodeposited Niâ€“Co/Cu multilayers. Electrochimica Acta, 2013, 91, 122-129.	2.6	29
30	Effect of bath additives on the microstructure, lattice defect density and hardness of electrodeposited nanocrystalline Ni films. Surface and Coatings Technology, 2018, 349, 611-621.	2.2	29
31	Impedance of a reaction involving two adsorbed intermediates: aluminum dissolution in non-aqueous lithium imide solutions. Journal of Electroanalytical Chemistry, 2000, 482, 125-138.	1.9	27
32	Microstructure formation in electrodeposited Coâ€“Cu/Cu multilayers with GMR effect: Influence of current density during magnetic layer deposition. Acta Materialia, 2011, 59, 2992-3001.	3.8	27
33	Correlation between interface structure and giant magnetoresistance in electrodeposited Coâ€“Cu/Cu multilayers. Thin Solid Films, 2003, 433, 237-242.	0.8	25
34	Structure and Giant Magnetoresistance Behaviour of Coâ€“Cu/Cu Multilayers Electrodeposited Under Various Deposition Conditions. Journal of Nanoscience and Nanotechnology, 2006, 6, 2000-2012.	0.9	23
35	Magnetic and magnetoresistance studies of nanometric electrodeposited Co films and Co/Cu layered structures: Influence of magnetic layer thickness. Journal of Magnetism and Magnetic Materials, 2017, 421, 194-206.	1.0	22
36	Evolution of Structure with Spacer Layer Thickness in Electrodeposited Coâˆ•Cu Multilayers. Journal of the Electrochemical Society, 2008, 155, D688.	1.3	21

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37	Spontaneous near-substrate composition modulation in electrodeposited Feâ€“Coâ€“Ni alloys. Electrochemistry Communications, 2009, 11, 1289-1291.	2.3	21
38	Structural evolution during growth of electrodeposited Coâ€“Cu/Cu multilayers with giant magnetoresistance. Thin Solid Films, 2003, 424, 229-238.	0.8	20
39	Preparation and giant magnetoresistance of electrodeposited Coâ€“Ag/Ag multilayers. Thin Solid Films, 2009, 517, 6081-6090.	0.8	19
40	The influence of Mo addition on the microstructure and its thermal stability for electrodeposited Ni films. Materials Characterization, 2018, 145, 563-572.	1.9	19
41	Near-substrate composition depth profile of direct current-plated and pulse-plated Feâ€“Ni alloys. Electrochimica Acta, 2013, 103, 179-187.	2.6	18
42	Electrodeposition of Ni from Various Non-Aqueous Media: The Case of Alcoholic Solutions. Journal of the Electrochemical Society, 2015, 162, D256-D264.	1.3	18
43	Preparation, Structure and Giant Magnetoresistance of Electrodeposited Fe-Co/Cu Multilayers. Journal of the Electrochemical Society, 2014, 161, D154-D162.	1.3	17
44	Application of Surface Roughness Data for the Evaluation of Depth Profile Measurements of Nanoscale Multilayers. Journal of the Electrochemical Society, 2009, 156, D253.	1.3	16
45	Mechanochemical Reactions of Lithium Niobate Induced by High-Energy Ball-Milling. Crystals, 2019, 9, 334.	1.0	16
46	Influence of the preparation conditions on the microstructure of electrodeposited nanocrystalline Niâ€“Mo alloys. Electrochimica Acta, 2021, 382, 138352.	2.6	15
47	Depth profile analysis of electrodeposited nanoscale multilayers by SNMS. Vacuum, 2007, 82, 270-273.	1.6	14
48	Influence of superparamagnetic regions on the giant magnetoresistance of electrodeposited Coâ€“Cu/Cu multilayers. Journal of Magnetism and Magnetic Materials, 2007, 312, 258-265.	1.0	14
49	Magnetoresistance and Surface Roughness Study of the Initial Growth of Electrodeposited Coâˆ•Cu Multilayers. Journal of the Electrochemical Society, 2011, 158, D671.	1.3	14
50	Near-Field-Induced Femtosecond Breakdown of Plasmonic Nanoparticles. Plasmonics, 2020, 15, 335-340.	1.8	14
51	Electrodeposition of Coâ€“Cuâ€“Zn/Cu multilayers: influence of anomalous codeposition on the formation of ternary multilayers. Electrochimica Acta, 2004, 49, 3613-3621.	2.6	13
52	Structure and Giant Magnetoresistance of Electrodeposited Co/Cu Multilayers Prepared by Two-Pulse (G/P) and Three-Pulse (G/P/G) Plating. Journal of the Electrochemical Society, 2014, 161, D339-D348.	1.3	13
53	Giant Magnetoresistance and Structure of Electrodeposited Co/Cu Multilayers: The Influence of Layer Thicknesses and Cu Deposition Potential. Journal of the Electrochemical Society, 2015, 162, D204-D212.	1.3	13
54	Corrosion Resistance of Nanosized Silicon Carbide-Rich Composite Coatings Produced by Noble Gas Ion Mixing. ACS Applied Materials & Interfaces, 2017, 9, 44892-44899.	4.0	13

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55	Influence of Bath Additives on the Thermal Stability of the Nanostructure and Hardness of Ni Films Processed by Electrodeposition. Coatings, 2019, 9, 644.	1.2	13
56	Thermoelectric Power Factor Enhancement by Spinâ€Polarized Currentsâ€”A Nanowire Case Study. Advanced Electronic Materials, 2016, 2, 1600058.	2.6	12
57	Composition, morphology and electrical transport properties of Coâ€“Pb electrodeposits. Journal of Alloys and Compounds, 2012, 545, 111-121.	2.8	11
58	Magnetoresistance of electrodeposited NiFeCu alloys. Thin Solid Films, 2012, 520, 2190-2194.	0.8	11
59	Electron Microscopy Characterization of Electrodeposited Homogeneous and Multilayered Nanowires in the Ni-Co-Cu System. Journal of the Electrochemical Society, 2018, 165, D536-D542.	1.3	11
60	Stored energy in nanocrystalline Ni-Mo films processed by electrodeposition. Journal of Alloys and Compounds, 2019, 796, 307-313.	2.8	11
61	Magnetoresistance and Surface Roughness Study of Electrodeposited Ni50Co50/Cu Multilayers. Journal of the Electrochemical Society, 2013, 160, D307-D314.	1.3	10
62	Evaluation of different strategies for quantitative depth profile analysis of Cu/NiCu layers and multilayers via pulsed glow discharge â€“ Time of flight mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2017, 135, 34-41.	1.5	10
63	Magnetic Multilayers as a Way to Increase the Magnetic Field Responsiveness of Magnetocaloric Materials. Journal of Nanoscience and Nanotechnology, 2012, 12, 7432-7436.	0.9	9
64	Influence of Ag Additive to the Spacer Layer on the Structure and Giant Magnetoresistance of Electrodeposited Co/Cu Multilayers. Journal of the Electrochemical Society, 2015, 162, D331-D340.	1.3	8
65	Speciation without chromatography : Part 2. Determination of tributyltin by chloride generation flow injection atomic absorption spectrometry. Journal of Analytical Atomic Spectrometry, 2002, 17, 1511-1515.	1.6	7
66	Comparative study of the adsorption of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mrow><mml:msubsup><mml:mrow><mml:mtext>SO</mml:mtext></mml:mrow><mml:mrow><mml:mn>4</m and Clâˆ’ a. Journal of Electroanalytical Chemistry, 2014, 712, 151-160.	1.9	7
67	Structure and Giant Magnetoresistance of Co-Fe/Cu Multilayer Films Electrodeposited from Various Bath Formulations. Journal of the Electrochemical Society, 2019, 166, D923-D934.	1.3	7
68	Room-temperature magnetoresistance of nanocrystalline Ni metal with various grain sizes. European Physical Journal Plus, 2020, 135, 1.	1.2	7
69	Electrochemical Methods of Nanostructure Preparation. Monographs in Electrochemistry, 2021, , .	0.2	7
70	Resistivity changes during hydrogenation of Pd80Ag20 alloy in non-equilibrium circumstances. Journal of Alloys and Compounds, 2000, 312, 117-120.	2.8	6
71	Theoretical analysis of entrapment kinetics in hydrogen permeation experiments. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 339, 245-254.	2.6	6
72	Composition depth profile analysis of electrodeposited alloys and metal multilayers: the reverse approach. Journal of Solid State Electrochemistry, 2011, 15, 2523-2544.	1.2	6

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73	Anomalous codeposition of cobalt and ruthenium from chlorideâ€“sulfate baths. Journal of Solid State Electrochemistry, 2012, 16, 715-722.	1.2	6
74	Characterization of the ultrafine and fine particles formed during laser cladding with the Inconel 718 metal powder by means of X-ray spectroscopic techniques. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2021, 177, 106110.	1.5	6
75	Analysis of Co/Cu multilayers by SNMS reverse depth profiling. Vacuum, 2009, 84, 141-143.	1.6	5
76	On the evolution and application of the concept of electrochemical polarization. Journal of Solid State Electrochemistry, 2020, 24, 2595-2602.	1.2	5
77	Study of the Acid Pickling of Lowâ€Alloyed Steels by Using a Descaling Workstation Simulating the Production Line. Steel Research International, 2015, 86, 704-715.	1.0	4
78	Novel medium-throughput technique for investigating drug-cyclodextrin complexation by pH-metric titration using the partition coefficient method. International Journal of Pharmaceutics, 2018, 542, 100-107.	2.6	4
79	Improved Hardness and Thermal Stability of Nanocrystalline Nickel Electrodeposited with the Addition of Cysteine. Nanomaterials, 2020, 10, 2254.	1.9	4
80	In-depth component distribution in electrodeposited alloys and multilayers. Journal of Electrochemical Science and Engineering, 2018, 8, 49-71.	1.6	4
81	Peculiarities of the electrolytic hydrogenation of Pd as revealed by resistivity measurements. Journal of Alloys and Compounds, 2005, 387, 172-178.	2.8	3
82	A systematic approach to the impedance of surface layers with mixed conductivity forming on electrodes. Journal of Solid State Electrochemistry, 2013, 17, 3075-3081.	1.2	3
83	Development and application of the in situ radiotracer thin gap method for the investigation of corrosion processes. I. Adaptation of the thin gap method for the application of porous surfaces. Electrochimica Acta, 2013, 109, 468-474.	2.6	3
84	Structure and Composition of Electrodeposited Fe-Co-Ni Alloys Studied by Transmission Electron Microscopy. Journal of the Electrochemical Society, 2018, 165, D384-D392.	1.3	3
85	Lithium oxide loss of lithium niobate nanocrystals during high-energy ball-milling. Journal of Alloys and Compounds, 2022, 909, 164713.	2.8	3
86	Title is missing!. Journal of Applied Electrochemistry, 2003, 33, 613-617.	1.5	2
87	Analysis of the magnetoresistance contributions in a nanocrystallized Cr-doped FINEMET alloy. Journal of Magnetism and Magnetic Materials, 2011, 323, 699-707.	1.0	2
88	Microstructure and morphology of electrodeposited Niâ€“P alloys treated by high energy surface mechanical attrition. Current Applied Physics, 2012, 12, 109-114.	1.1	2
89	Development and application of the in situ radiotracer thin gap method for the investigation of corrosion processes II. Validation of the thin gap method adapted for the application of porous surfaces. Electrochimica Acta, 2013, 109, 790-797.	2.6	2
90	Influence of Pb Additive to the Spacer Layer on the Structure and Giant Magnetoresistance of Electrodeposited Co/Cu Multilayers. Journal of the Electrochemical Society, 2016, 163, D485-D492.	1.3	2

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91	Promotion of young European scientists in surface technology. Transactions of the Institute of Metal Finishing, 2016, 94, 173-174.	0.6	2
92	Characterization of luminescent monodisperse microparticles prepared by gamma radiation-initiated polymerization. Optical Materials, 2020, 108, 110209.	1.7	2
93	Electrodeposition of Tin Selenide from Oxalate-Based Aqueous Solution. Journal of the Electrochemical Society, 2020, 167, 162502.	1.3	2
94	Electrodeposition and Properties of Nanoscale Magnetic/Non-Magnetic Metallic Multilayer Films. , 0, , 242-260.		1
95	ELECTRODEPOSITION AS A FABRICATION METHOD OF MAGNETIC NANOSTRUCTURES. , 2010, , 89-120.		1
96	European training school for young scientists and EAST Forum 2017. Transactions of the Institute of Metal Finishing, 2017, 95, 237-238.	0.6	1
97	Defect structure in electrodeposited nanocrystalline Ni layers with different Mo concentrations. AIP Conference Proceedings, 2018, , .	0.3	1
98	Optical Properties of Oxidized, Hydrogenated, and Native Zirconium Surfaces for Wavelengths from 0.3 to 25â€‰Âµm âˆ' A Study by Ex Situ and In Situ Spectroscopic Ellipsometry. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800676.	0.8	1
99	Micropillar Compression Study on the Deformation Behavior of Electrodeposited Niâ€"Mo Films. Coatings, 2020, 10, 205.	1.2	1
100	Materials science aspects of the research directions of electrochemistry. Journal of Solid State Electrochemistry, 2020, 24, 2161-2162.	1.2	1
101	Theoretical Analysis of Hydrogen Permeation and Entrapment Kinetics. Materials Science Forum, 0, 414-415, 305-310.	0.3	0
102	Comment on â€œMagnetoresistance of CoNiCuâˆ•Cu Multilayers Electrodeposited from Electrolytes with Different Ni Ion Concentrationsâ€•[J. Electrochem. Soc., 157, D538 (2010)]. Journal of the Electrochemical Society, 2011, 158, S1.	1.3	0
103	Compositional, Structural and Magnetic Study of Layered Co-Mn-O-B Deposits Formed during Potentiostatic Electrodeposition Exhibiting Current Oscillations. Journal of the Electrochemical Society, 2017, 164, D908-D915.	1.3	0
104	Nanocrystalline Deposits. Monographs in Electrochemistry, 2021, , 183-216.	0.2	0
105	Electrochemical Manufacturing Methods Based on Surface Inhomogeneities at the Nanoscale. Monographs in Electrochemistry, 2021, , 323-359.	0.2	0
106	Templated Systems. Monographs in Electrochemistry, 2021, , 361-422.	0.2	0
107	Compositionally Modulated and Multilayered Deposits. Monographs in Electrochemistry, 2021, , 133-181.	0.2	0
108	Experimental Methods in Characterization of Nanosystems. Monographs in Electrochemistry, 2021, , 55-75.	0.2	0

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109	Preparation of Nanoporous Oxides from Metals by Electrochemical Anodization. Monographs in Electrochemistry, 2021, , 477-510.	0.2	0
110	Electrosynthesis of Nanostructures Without a Coating Formation on Electrodes. Monographs in Electrochemistry, 2021, , 303-319.	0.2	0
111	Nanostructures Obtained with Plasma Discharge Processes. Monographs in Electrochemistry, 2021, , 511-525.	0.2	0
112	Porous Nanostructured Materials. Monographs in Electrochemistry, 2021, , 259-302.	0.2	0
113	Localized or Spatially Selective Electrodeposition Methods. Monographs in Electrochemistry, 2021, , 423-473.	0.2	0
114	Ultrathin Layers. Monographs in Electrochemistry, 2021, , 79-131.	0.2	0
115	Nanogold-capped poly(DEGDMA) microparticles as surface-enhanced â€ŽRaman scattering substrates for DNA detection. Journal Physics D: Applied Physics, 0, , .	1.3	0