## List of Publications by Year in descending order

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|          |                | 57758        | 53230          |
|----------|----------------|--------------|----------------|
| 170      | 8,295          | 44           | 85             |
| papers   | citations      | h-index      | g-index        |
|          |                |              |                |
|          |                |              |                |
| 171      | 171            | 171          | 7512           |
| all docs | docs citations | times ranked | citing authors |
|          |                |              |                |

Νολμ Είμλα

| #  | Article                                                                                                                                                                                                                       | IF   | CITATIONS |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1  | Calcium Phosphate Bioceramics: A Review of Their History, Structure, Properties, Coating<br>Technologies and Biomedical Applications. Materials, 2017, 10, 334.                                                               | 2.9  | 703       |
| 2  | Hot corrosion in gas turbine components. Engineering Failure Analysis, 2002, 9, 31-43.                                                                                                                                        | 4.0  | 537       |
| 3  | Corrosion of Metallic Biomaterials: A Review. Materials, 2019, 12, 407.                                                                                                                                                       | 2.9  | 497       |
| 4  | Advances in Polyimideâ€Based Materials for Space Applications. Advanced Materials, 2019, 31, e1807738.                                                                                                                        | 21.0 | 375       |
| 5  | Directed energy deposition (DED) additive manufacturing: Physical characteristics, defects, challenges and applications. Materials Today, 2021, 49, 271-295.                                                                  | 14.2 | 351       |
| 6  | Synthesis of nanoparticles with femtosecond laser pulses. Physical Review B, 2004, 69, .                                                                                                                                      | 3.2  | 230       |
| 7  | Characteristics of hydrogen embrittlement, stress corrosion cracking and tempered martensite embrittlement in high-strength steels. Engineering Failure Analysis, 2002, 9, 167-184.                                           | 4.0  | 203       |
| 8  | Early bone apposition in vivo on plasma-sprayed and electrochemically deposited hydroxyapatite coatings on titanium alloy. Biomaterials, 2006, 27, 4192-4203.                                                                 | 11.4 | 193       |
| 9  | Synthesis and characterization of nickel tungsten alloys by electrodeposition. Electrochimica Acta, 2005, 50, 2893-2904.                                                                                                      | 5.2  | 184       |
| 10 | Fracture of Cementless Femoral Stems at the Mid-Stem Junction in Modular Revision Hip Arthroplasty<br>Systems. Journal of Bone and Joint Surgery - Series A, 2011, 93, 57-65.                                                 | 3.0  | 159       |
| 11 | Electrochemical processes of nucleation and growth of hydroxyapatite on titanium supported by<br>real-time electrochemical atomic force microscopy. Journal of Biomedical Materials Research - Part A,<br>2007, 80A, 621-634. | 4.0  | 146       |
| 12 | Electrochemical and electrophoretic deposition of hydroxyapatite for orthopaedic applications.<br>Surface Engineering, 2005, 21, 238-242.                                                                                     | 2.2  | 137       |
| 13 | Positive effects of hydrogen in metals. Materials Science & Engineering A: Structural Materials:<br>Properties, Microstructure and Processing, 2000, 280, 220-224.                                                            | 5.6  | 135       |
| 14 | Electroplating and characterization of Zn–Ni, Zn–Co and Zn–Ni–Co alloys. Surface and Coatings<br>Technology, 2010, 205, 1969-1978.                                                                                            | 4.8  | 133       |
| 15 | Electrodeposition of Zn–Ni, Zn–Fe and Zn–Ni–Fe alloys. Surface and Coatings Technology, 2010, 205, 2031-2041.                                                                                                                 | 4.8  | 132       |
| 16 | Electrocrystallization of Hydroxyapatite and Its Dependence on Solution Conditions. Crystal Growth and Design, 2008, 8, 3965-3977.                                                                                            | 3.0  | 120       |
| 17 | The effect of surface treatment on the surface texture and contact angle of electrochemically deposited hydroxyapatite coating and on its interaction with bone-forming cells. Acta Biomaterialia, 2009, 5, 3178-3191.        | 8.3  | 116       |
| 18 | An increase of the spall strength in aluminum, copper, and Metglas at strain rates larger than 107 sâ^'1.<br>Journal of Applied Physics, 1998, 83, 4004-4011.                                                                 | 2.5  | 112       |

| #  | Article                                                                                                                                                                                                                                      | IF   | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Erosion of POSS-polyimide films under hypervelocity impact and atomic oxygen: The role of mechanical properties at elevated temperatures. Acta Materialia, 2009, 57, 1112-1119.                                                              | 7.9  | 108       |
| 20 | Induced Codeposition of Alloys of Tungsten, Molybdenum and Rhenium with Transition Metals. , 2008, , 191-301.                                                                                                                                |      | 104       |
| 21 | Enhanced osseointegration of grit-blasted, NaOH-treated and electrochemically<br>hydroxyapatite-coated Ti–6Al–4V implants in rabbits. Acta Biomaterialia, 2009, 5, 2258-2269.                                                                | 8.3  | 100       |
| 22 | Alloy design via additive manufacturing: Advantages, challenges, applications and perspectives.<br>Materials Today, 2022, 52, 207-224.                                                                                                       | 14.2 | 88        |
| 23 | Synthesis, coating, and drug-release of hydroxyapatite nanoparticles loaded with antibiotics. Journal of Materials Chemistry B, 2017, 5, 7819-7830.                                                                                          | 5.8  | 87        |
| 24 | Hydrogen-assisted processing of materials. Materials Science & Engineering A: Structural<br>Materials: Properties, Microstructure and Processing, 2000, 289, 41-53.                                                                          | 5.6  | 86        |
| 25 | An Overview of Hydrogen Interaction with Amorphous Alloys. Materials Technology, 1999, 6, 5-31.                                                                                                                                              | 0.3  | 84        |
| 26 | Electrodeposition of rhenium–nickel alloys from aqueous solutions. Electrochimica Acta, 2009, 54,<br>6028-6035.                                                                                                                              | 5.2  | 83        |
| 27 | Laser-based directed energy deposition (DED-LB) of advanced materials. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 840, 142967.                                             | 5.6  | 82        |
| 28 | Corrosion Behavior of Nickel-Based Alloys in Supercritical Water Oxidation Systems. Industrial &<br>Engineering Chemistry Research, 2000, 39, 4689-4696.                                                                                     | 3.7  | 79        |
| 29 | Thin Film Oxide Barrier Layers: Protection of Kapton from Space Environment by Liquid Phase Deposition of Titanium Oxide. ACS Applied Materials & Interfaces, 2010, 2, 1835-1843.                                                            | 8.0  | 69        |
| 30 | TriSilanolPhenyl POSS–polyimide nanocomposites: Structure–properties relationship. Composites<br>Science and Technology, 2009, 69, 2178-2184.                                                                                                | 7.8  | 64        |
| 31 | The effect of surface treatments on the adhesion of electrochemically deposited hydroxyapatite coating to titanium and on its interaction with cells and bacteria. Journal of Materials Science: Materials in Medicine, 2011, 22, 1741-1752. | 3.6  | 57        |
| 32 | Wear rate evaluation of a novel polycarbonate-urethane cushion form bearing for artificial hip joints. Acta Biomaterialia, 2010, 6, 4698-4707.                                                                                               | 8.3  | 56        |
| 33 | Preparation and Characterization of Alkylphosphonic Acid Self-Assembled Monolayers on Titanium Alloy by Chemisorption and Electrochemical Deposition. Langmuir, 2014, 30, 6791-6799.                                                         | 3.5  | 56        |
| 34 | POSS-Polyimide Nanocomposite Films: Simulated Hypervelocity Space Debris and Atomic Oxygen<br>Effects. High Performance Polymers, 2008, 20, 475-491.                                                                                         | 1.8  | 55        |
| 35 | Corrosion behavior of advanced titanium-based alloys made by three-dimensional printing (3DPTM) for biomedical applications. Corrosion Science, 2001, 43, 1781-1791.                                                                         | 6.6  | 54        |
| 36 | Residual stress effect on degradation of polyimide under simulated hypervelocity space debris and atomic oxygen. Polymer, 2007, 48, 19-24.                                                                                                   | 3.8  | 54        |

| #  | Article                                                                                                                                                                                                                                                                           | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 37 | Assisted deposition of nano-hydroxyapatite onto exfoliated carbon nanotube oxide scaffolds.<br>Nanoscale, 2015, 7, 10218-10232.                                                                                                                                                   | 5.6  | 54        |
| 38 | Electrochemically Driven Hydroxyapatite Nanoparticles Coating of Medical Implants. Advanced<br>Functional Materials, 2016, 26, 8003-8010.                                                                                                                                         | 14.9 | 53        |
| 39 | Directed energy deposition of Al 5xxx alloy using Laser Engineered Net Shaping (LENS®). Materials and<br>Design, 2020, 192, 108763.                                                                                                                                               | 7.0  | 52        |
| 40 | Electrophoretic Deposition of Hydroxyapatite Coatings and Corrosion Aspects of Metallic Implants.<br>Corrosion Reviews, 2002, 20, 255-294.                                                                                                                                        | 2.0  | 48        |
| 41 | The relation between aging temperature, microstructure evolution and hardening of Custom 465® stainless steel. Materials Characterization, 2017, 127, 129-136.                                                                                                                    | 4.4  | 48        |
| 42 | Electrochemical processes of nucleation and growth of calcium phosphate on titanium supported by<br>realâ€time quartz crystal microbalance measurements and Xâ€ray photoelectron spectroscopy analysis.<br>Journal of Biomedical Materials Research - Part A, 2009, 89A, 270-280. | 4.0  | 47        |
| 43 | Electroplating of Ni[sub 4]W. Electrochemical and Solid-State Letters, 2005, 8, C58.                                                                                                                                                                                              | 2.2  | 46        |
| 44 | Hydrogenation of Zr-based metallic glasses and quasicrystals. Journal of Non-Crystalline Solids, 1999,<br>250-252, 893-897.                                                                                                                                                       | 3.1  | 45        |
| 45 | Electrodeposition of Alloys of Rhenium with Iron-Group Metals from Aqueous Solutions. Journal of the Electrochemical Society, 2010, 157, D422.                                                                                                                                    | 2.9  | 45        |
| 46 | The nanostructure of an electrochemically deposited hydroxyapatite coating. Materials Letters, 2011, 65, 2455-2457.                                                                                                                                                               | 2.6  | 45        |
| 47 | The effect of simulated hypervelocity space debris on polymers. Acta Materialia, 2004, 52, 5539-5549.                                                                                                                                                                             | 7.9  | 44        |
| 48 | Corrosion behavior of composition modulated multilayer Zn–Co electrodeposits produced using a single-bath technique. Journal of Applied Electrochemistry, 2009, 39, 339-345.                                                                                                      | 2.9  | 44        |
| 49 | Direct Experimental Support for the Catalytic Effect of Iron-Group Metals on Electrodeposition of Rhenium. Electrochemical and Solid-State Letters, 2010, 13, D91.                                                                                                                | 2.2  | 44        |
| 50 | Magnetic properties of carbon nano-particles produced by a pulsed arc submerged in ethanol. Carbon, 2008, 46, 215-219.                                                                                                                                                            | 10.3 | 43        |
| 51 | Hydrogen diffusivity measurement and microstructural characterization of Custom 465 stainless steel. Electrochimica Acta, 2015, 178, 494-503.                                                                                                                                     | 5.2  | 43        |
| 52 | Mercaptopropionic acid-modified oleic imidazoline as a highly efficient corrosion inhibitor for carbon steel in CO2-saturated formation water. Corrosion Science, 2022, 194, 109930.                                                                                              | 6.6  | 42        |
| 53 | Epoxy-based shape memory composite for space applications. Acta Astronautica, 2021, 178, 908-919.                                                                                                                                                                                 | 3.2  | 38        |
| 54 | A New Ti-5Ag Alloy for Customized Prostheses by Three-dimensional Printing (3DPâ,,¢). Journal of Dental Research, 2001, 80, 860-863.                                                                                                                                              | 5.2  | 37        |

| #  | Article                                                                                                                                                                                                         | IF   | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | Nanoparticle plasma ejected directly from solid copper by localized microwaves. Applied Physics<br>Letters, 2009, 95, .                                                                                         | 3.3  | 37        |
| 56 | Hydroxyapatite/Mesoporous Graphene/Singleâ€Walled Carbon Nanotubes Freestanding Flexible Hybrid<br>Membranes for Regenerative Medicine. Advanced Functional Materials, 2016, 26, 7965-7974.                     | 14.9 | 37        |
| 57 | Failures of Stainless Steel Orthopedic Devices - Causes and Remedies. Corrosion Reviews, 2003, 21, 231-268.                                                                                                     | 2.0  | 36        |
| 58 | Hydrogen effects on electrochemically charged additive manufactured by electron beam melting<br>(EBM) and wrought Ti–6Al–4V alloys. International Journal of Hydrogen Energy, 2020, 45, 25523-25540.            | 7.1  | 36        |
| 59 | Failure Analysis and Condition Monitoring of an Open-Loop Oil System Using Ferrography. Tribology<br>Letters, 2009, 36, 17-29.                                                                                  | 2.6  | 35        |
| 60 | The Effects of pH and Temperature on Electrodeposition of Re-Ir-Ni Coatings from Aqueous Solutions.<br>Journal of the Electrochemical Society, 2015, 162, D20-D26.                                              | 2.9  | 35        |
| 61 | Hydrogen evolution from Zr-based amorphous and quasicrystalline alloys. Journal of Alloys and Compounds, 2000, 305, 272-281.                                                                                    | 5.5  | 34        |
| 62 | Longâ€ŧerm evaluation of a compliant cushion form acetabular bearing for hip joint replacement: A 20<br>million cycles wear simulation. Journal of Orthopaedic Research, 2011, 29, 1859-1866.                   | 2.3  | 34        |
| 63 | The Mechanism of Induced Codeposition of Ni-W Alloys. ECS Transactions, 2006, 2, 337-349.                                                                                                                       | 0.5  | 33        |
| 64 | Innovative processes for electropolishing of medical devices made of stainless steels. Journal of<br>Biomedical Materials Research - Part A, 2007, 83A, 546-557.                                                | 4.0  | 33        |
| 65 | The effect of manufacturing processes on the fatigue lifetime of aeronautical bolts. Engineering<br>Failure Analysis, 2001, 8, 227-235.                                                                         | 4.0  | 30        |
| 66 | Electrocrystallization of Calcium Phosphates. Israel Journal of Chemistry, 2008, 48, 159-168.                                                                                                                   | 2.3  | 29        |
| 67 | Gravity orientation in social wasp comb cells (Vespinae) and the possible role of embedded minerals.<br>Die Naturwissenschaften, 2008, 95, 333-342.                                                             | 1.6  | 28        |
| 68 | The iron anchors from the Tantura F shipwreck: typological and metallurgical analyses. Journal of<br>Archaeological Science, 2011, 38, 233-245.                                                                 | 2.4  | 28        |
| 69 | Nanoparticles and nanotubes induced by femtosecond lasers. Laser and Particle Beams, 2005, 23, .                                                                                                                | 1.0  | 27        |
| 70 | Comparative Quality Control of Titanium Alloy Ti–6Al–4V, 17–4 PH Stainless Steel, and Aluminum Alloy<br>4047 Either Manufactured or Repaired by Laser Engineered Net Shaping (LENS). Materials, 2020, 13, 4171. | 2.9  | 27        |
| 71 | Electroless plating of rhenium–nickel alloys. Electrochimica Acta, 2011, 56, 9637-9643.                                                                                                                         | 5.2  | 26        |
| 72 | Incorporation of iridium into electrodeposited rhenium–nickel alloys. Electrochimica Acta, 2013, 88, 240-250.                                                                                                   | 5.2  | 26        |

| #  | Article                                                                                                                                                                                          | IF  | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Hydroxyapatite coatings electrodeposited at near-physiological conditions. Materials Letters, 2014, 119, 24-27.                                                                                  | 2.6 | 26        |
| 74 | Preventative Maintenance and Failure Analysis of Aircraft Components. Corrosion Reviews, 2007, 25, 107-144.                                                                                      | 2.0 | 25        |
| 75 | A new model for the diffusion behavior of hydrogen in metallic glasses. Acta Materialia, 1999, 47, 2981-2989.                                                                                    | 7.9 | 24        |
| 76 | Hydrogen effects on an amorphous Fe-Si-B alloy. Metallurgical and Materials Transactions A: Physical<br>Metallurgy and Materials Science, 2000, 31, 2517-2526.                                   | 2.2 | 24        |
| 77 | Modeling failure of metallic glasses due to hydrogen embrittlement in the absence of external loads.<br>Acta Materialia, 2004, 52, 93-105.                                                       | 7.9 | 24        |
| 78 | Interaction of liquid and solid gallium with thin silver films: Synchronized spreading and penetration. Acta Materialia, 2011, 59, 914-926.                                                      | 7.9 | 24        |
| 79 | Effect of the POSS–Polyimide nanostructure on its mechanical and electrical properties. Composites Science and Technology, 2012, 72, 1408-1415.                                                  | 7.8 | 24        |
| 80 | An Overview of the Current Understanding of Corrosion in SCWO Systems for the Destruction of Hazardous Waste Products. Materials Technology, 2001, 16, 44-53.                                    | 3.0 | 23        |
| 81 | Corrosion inhibition of copper in ferric chloride solutions with organic inhibitors. Npj Materials<br>Degradation, 2020, 4, .                                                                    | 5.8 | 22        |
| 82 | The effect of hyaluronan injections into human knees on the number of bone and cartilage wear particles captured by bio-ferrography. Acta Biomaterialia, 2011, 7, 848-857.                       | 8.3 | 21        |
| 83 | In Situ Potentiostatic Deposition of Calcium Phosphate with Gentamicin-Loaded Chitosan<br>Nanoparticles on Titanium Alloy Surfaces. Electrochimica Acta, 2016, 222, 355-360.                     | 5.2 | 21        |
| 84 | Electrodeposited Re-promoted Ni foams as a catalyst for the dry reforming of methane. Catalysis<br>Communications, 2016, 76, 23-28.                                                              | 3.3 | 21        |
| 85 | The influence of laser directed energy deposition (DED) processing parameters for Al5083 studied by central composite design. Journal of Materials Research and Technology, 2022, 17, 3157-3171. | 5.8 | 21        |
| 86 | Oxidation and hydrogenation of quasicrystals. Materials Science & Engineering A: Structural<br>Materials: Properties, Microstructure and Processing, 1997, 226-228, 1008-1011.                   | 5.6 | 20        |
| 87 | Failures of bolts in helicopter main rotor drive plate assembly due to improper application of<br>lubricant. Engineering Failure Analysis, 2003, 10, 443-451.                                    | 4.0 | 20        |
| 88 | The use of SIMS in quality control and failure analysis of electrodeposited items inspected for hydrogen effects. Corrosion Science, 2008, 50, 1481-1491.                                        | 6.6 | 20        |
| 89 | Growth study of nanoscale Re–Ni coatings on functionalized SiO2 using electroless plating. Applied<br>Surface Science, 2014, 313, 159-165.                                                       | 6.1 | 20        |
| 90 | Hydrogen Diffusivity and Trapping in Custom 465 Stainless Steel. Journal of the Electrochemical Society, 2018, 165, C107-C115.                                                                   | 2.9 | 20        |

| #   | Article                                                                                                                                                                                                                                     | IF  | CITATIONS |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91  | Atomic Force Microscopeâ€Based Meniscusâ€Confined Threeâ€Dimensional Electrodeposition. Advanced<br>Materials Technologies, 2020, 5, 1900827.                                                                                               | 5.8 | 20        |
| 92  | Electrodeposition of rhenium–tin nanowires. Electrochimica Acta, 2011, 56, 6361-6370.                                                                                                                                                       | 5.2 | 19        |
| 93  | Observations of Ball-Lightning-Like Plasmoids Ejected from Silicon by Localized Microwaves.<br>Materials, 2013, 6, 4011-4030.                                                                                                               | 2.9 | 19        |
| 94  | Electrodeposition of Re-Ni alloys from aqueous solutions with organic additives. Thin Solid Films, 2016, 616, 828-837.                                                                                                                      | 1.8 | 19        |
| 95  | Microbial Degradation of Epoxy. Materials, 2018, 11, 2123.                                                                                                                                                                                  | 2.9 | 19        |
| 96  | Measurement of the Anisotropic Dynamic Elastic Constants of Additive Manufactured and Wrought<br>Ti6Al4V Alloys. Materials, 2022, 15, 638.                                                                                                  | 2.9 | 19        |
| 97  | Magnetic isolation of particles suspended in synovial fluid for diagnostics of natural joint chondropathies. Acta Biomaterialia, 2010, 6, 4430-4438.                                                                                        | 8.3 | 18        |
| 98  | Mechanical characterization of aerogel materials with digital image correlation. Microporous and Mesoporous Materials, 2016, 226, 44-52.                                                                                                    | 4.4 | 18        |
| 99  | Influence of hydrogen on formation and stability of Zr-based quasicrystals. Materials Science &<br>Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 294-296, 112-115.                                  | 5.6 | 16        |
| 100 | Absorption/desorption behavior of hydrogen and deuterium in a Pd-coated Zr-based amorphous alloy.<br>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2003, 358, 219-225.             | 5.6 | 16        |
| 101 | The Initial Stages of Electrodeposition of Re-Ni Alloys. Journal of the Electrochemical Society, 2014, 161, D219-D226.                                                                                                                      | 2.9 | 16        |
| 102 | Templated and self-limiting calcite formation directed by coccolith organic macromolecules.<br>Chemical Communications, 2017, 53, 7740-7743.                                                                                                | 4.1 | 16        |
| 103 | Mechanical behavior of electrochemically hydrogenated electron beam melting (EBM) and wrought<br>Ti–6Al–4V using small punch test. International Journal of Hydrogen Energy, 2022, 47, 6388-6403.                                           | 7.1 | 16        |
| 104 | Hydrogen effects on the spall strength and fracture characteristics of amorphous Fe-Si-B alloy at<br>very high strain rates. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials<br>Science, 2000, 31, 1085-1093. | 2.2 | 15        |
| 105 | Atomic cale Structural and Chemical Study of Columnar and Multilayer Re–Ni Electrodeposited<br>Thermal Barrier Coating. Advanced Engineering Materials, 2016, 18, 1133-1144.                                                                | 3.5 | 15        |
| 106 | Effect of Decorating Titanium with Different Self-Assembled Monolayers on the Electrodeposition of Calcium Phosphate. Crystal Growth and Design, 2016, 16, 2756-2764.                                                                       | 3.0 | 15        |
| 107 | The Effect of Localized Vibration during Welding on the Microstructure and Mechanical Behavior of Steel Welds. Materials, 2019, 12, 2553.                                                                                                   | 2.9 | 15        |
| 108 | The Effect of Direct and Pulsed Current in the Presence of Surfactants on the Electrodeposition of Zn–SiC Nanocomposite Coatings. Coatings, 2019, 9, 93.                                                                                    | 2.6 | 15        |

| #   | Article                                                                                                                                                                                                                                                        | IF  | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Cracking in cargo aircraft main landing gear truck beams due to abusive grinding following chromium plating. Engineering Failure Analysis, 2005, 12, 337-347.                                                                                                  | 4.0 | 14        |
| 110 | Enhancement of Wetting and Mechanical Properties of UHMWPEâ€Based Composites through Alumina<br>Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800295.                                                                                      | 3.7 | 14        |
| 111 | Diffusion and trapping of hydrogen due to elastic interaction with ÎNi3Ti precipitates in Custom 465®<br>stainless steel. International Journal of Hydrogen Energy, 2019, 44, 31610-31620.                                                                     | 7.1 | 14        |
| 112 | Electroless plating of rhenium-based alloys with nickel, cobalt and iron. Electrochimica Acta, 2015, 174, 660-666.                                                                                                                                             | 5.2 | 13        |
| 113 | Thermal decomposition of titanium hydrides in electrochemically hydrogenated electron beam<br>melting (EBM) and wrought Ti–6Al–4V alloys using in situ high-temperature X-Ray diffraction.<br>International Journal of Hydrogen Energy, 2021, 46, 30423-30432. | 7.1 | 13        |
| 114 | Fundamentals of Tribology and the Use of Ferrography and Bio-Ferrography for Monitoring the Degradation of Natural and Artificial Joints. , 2012, , 253-302.                                                                                                   |     | 13        |
| 115 | Autosomal dominant isolated question mark ear. American Journal of Medical Genetics, Part A, 2008, 146A, 2280-2283.                                                                                                                                            | 1.2 | 12        |
| 116 | Microstructure and composition of pulse plated Re–Ni alloys on a rotating cylinder electrode.<br>Journal of Electroanalytical Chemistry, 2014, 731, 93-99.                                                                                                     | 3.8 | 12        |
| 117 | Electro-Assisted Deposition of Calcium Phosphate on Self-Assembled Monolayers. Electrochimica Acta, 2016, 206, 400-408.                                                                                                                                        | 5.2 | 12        |
| 118 | Microvoids in electrochemically hydrogenated titanium-based alloys. International Journal of<br>Hydrogen Energy, 2021, 46, 27234-27242.                                                                                                                        | 7.1 | 12        |
| 119 | Study of fracture evolution in copper sheets by in situ tensile test and EBSD analysis. Journal of Materials Science, 2010, 45, 6345-6352.                                                                                                                     | 3.7 | 11        |
| 120 | Electrodeposition and biomineralization of nano-β-tricalcium phosphate on graphenated carbon nanotubes. Surface and Coatings Technology, 2016, 297, 51-57.                                                                                                     | 4.8 | 11        |
| 121 | The Correlation Between Substrate Mass Loss and Electrochemical Impedance Spectroscopy Data for a Polymer-Coated Metal. Journal of the Electrochemical Society, 2002, 149, B265.                                                                               | 2.9 | 10        |
| 122 | Electrodeposition of Alloys of Rhenium with Iron-Group Metals from Aqueous Solutions. ECS<br>Transactions, 2010, 25, 137-149.                                                                                                                                  | 0.5 | 10        |
| 123 | Direct Current Electrodeposition of Zn-SiC Nanocomposite Coatings from Citrate Bath. Journal of the<br>Electrochemical Society, 2018, 165, D526-D535.                                                                                                          | 2.9 | 10        |
| 124 | Non-Arrhenius behavior of the diffusion coefficient of hydrogen in amorphous metals. Materials<br>Letters, 1999, 39, 255-259.                                                                                                                                  | 2.6 | 9         |
| 125 | In Situ Underfilm Corrosion Rate Measurements by Magnetic and Electrochemical Techniques.<br>Electrochemical and Solid-State Letters, 1999, 3, 275.                                                                                                            | 2.2 | 9         |
| 126 | The Influence of Weak Ionic Interactions on Electrode Reactions during Electrodeposition of Re-Ni<br>Alloys. Journal of the Electrochemical Society, 2014, 161, D632-D639.                                                                                     | 2.9 | 9         |

| #   | Article                                                                                                                                                                                                                                 | IF  | CITATIONS |
|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Optimization of <scp>EGFR</scp> high positive cell isolation procedure by design of experiments methodology. Cytometry Part B - Clinical Cytometry, 2015, 88, 338-347.                                                                  | 1.5 | 9         |
| 128 | Effect of Pulse On-Time and Peak Current Density on Pulse Plated Re-Ni Alloys. Journal of the Electrochemical Society, 2015, 162, D250-D255.                                                                                            | 2.9 | 9         |
| 129 | The Effect of POSS Type on the Shape Memory Properties of Epoxy-Based Nanocomposites. Molecules, 2020, 25, 4203.                                                                                                                        | 3.8 | 8         |
| 130 | Hydrogen effect on phase angle shift in electrochemical impedance spectroscopy during corrosion fatigue crack emanation. International Journal of Hydrogen Energy, 2021, 46, 40175-40184.                                               | 7.1 | 8         |
| 131 | Comparative study of deuterium desorption from Pd-coated Zr-based amorphous and quasicrystalline alloys. Scripta Materialia, 2005, 52, 777-783.                                                                                         | 5.2 | 7         |
| 132 | The Effect of SiC Nanoparticle Size on the Electrodeposition of Zn–SiC Nanocomposite Coatings from Citrate Bath. Journal of the Electrochemical Society, 2018, 165, D774-D782.                                                          | 2.9 | 7         |
| 133 | Mechanical properties of Bio-Ferrography isolated cancerous cells studied by atomic force microscopy. Journal of the Mechanical Behavior of Biomedical Materials, 2019, 91, 345-354.                                                    | 3.1 | 7         |
| 134 | The effect of friction welding on the mechanical properties and corrosion fatigue resistance of titanium alloy drill pipe. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 466-481.                             | 3.4 | 7         |
| 135 | Influence Of Hydrogen On The Thermal Stability Of Zr-Based Quasicrystals. Materials Research Society<br>Symposia Proceedings, 1998, 553, 49.                                                                                            | 0.1 | 6         |
| 136 | Hydrogenation and Crystallization of Zr-Cu-Ni-Al Glasses. Materials Research Society Symposia<br>Proceedings, 1998, 554, 287.                                                                                                           | 0.1 | 6         |
| 137 | Chemical Potential, Diffusion and Stress – Common Confusions in Nomenclature and Units.<br>Corrosion Reviews, 2008, 26, .                                                                                                               | 2.0 | 6         |
| 138 | Strain driven transport for bone modeling at the periosteal surface. Mathematical Biosciences, 2011, 230, 37-44.                                                                                                                        | 1.9 | 6         |
| 139 | Characterization of Re-Ni Films after the Initial Stages of Electrodeposition. Journal of the Electrochemical Society, 2016, 163, D295-D299.                                                                                            | 2.9 | 6         |
| 140 | Shedding Light on the Oxygen Reduction Reaction Mechanism in Ether-Based Electrolyte Solutions: A<br>Study Using Operando UV–Vis Spectroscopy. ACS Applied Materials & Interfaces, 2018, 10,<br>10860-10869.                            | 8.0 | 6         |
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