

# Noam Eliaz

## List of Publications by Year in descending order

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170  
papers

8,295  
citations

66250

44  
h-index

60403

85  
g-index

171  
all docs

171  
docs citations

171  
times ranked

8243  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of friction welding on the mechanical properties and corrosion fatigue resistance of titanium alloy drill pipe. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2022, 45, 466-481.	1.7	7
2	Mercaptopropionic acid-modified oleic imidazoline as a highly efficient corrosion inhibitor for carbon steel in CO <sub>2</sub> -saturated formation water. <i>Corrosion Science</i> , 2022, 194, 109930.	3.0	42
3	Influence of POSS Type on the Space Environment Durability of Epoxy-POSS Nanocomposites. <i>Nanomaterials</i> , 2022, 12, 257.	1.9	3
4	Measurement of the Anisotropic Dynamic Elastic Constants of Additive Manufactured and Wrought Ti6Al4V Alloys. <i>Materials</i> , 2022, 15, 638.	1.3	19
5	Alloy design via additive manufacturing: Advantages, challenges, applications and perspectives. <i>Materials Today</i> , 2022, 52, 207-224.	8.3	88
6	Mechanical behavior of electrochemically hydrogenated electron beam melting (EBM) and wrought Ti6Al4V using small punch test. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 6388-6403.	3.8	16
7	The influence of laser directed energy deposition (DED) processing parameters for Al5083 studied by central composite design. <i>Journal of Materials Research and Technology</i> , 2022, 17, 3157-3171.	2.6	21
8	Laser-based directed energy deposition (DED-LB) of advanced materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 840, 142967.	2.6	82
9	The effect of the elastic energy on the shape and orientation relations of $\beta$ -Ni <sub>3</sub> Ti precipitates in lath martensite. <i>Journal of Alloys and Compounds</i> , 2022, , 165935.	2.8	1
10	Epoxy-based shape memory composite for space applications. <i>Acta Astronautica</i> , 2021, 178, 908-919.	1.7	38
11	Electrochemical Processing and Thermal Properties of Functional Core/Multi-Shell ZnAl/Ni/NiP Microparticles. <i>Materials</i> , 2021, 14, 834.	1.3	5
12	Hydrogel-integrated 3D-printed poly(lactic acid) scaffolds for bone tissue engineering. <i>Journal of Materials Research</i> , 2021, 36, 3833-3842.	1.2	5
13	Direct Writing of High-Resolution, High-Quality Pure Metal Patterns on Smooth Transparent Substrates by Laser-Induced Forward Transfer Followed by a Novel Laser Treatment. <i>Advanced Engineering Materials</i> , 2021, 23, 2100245.	1.6	6
14	Directed energy deposition (DED) additive manufacturing: Physical characteristics, defects, challenges and applications. <i>Materials Today</i> , 2021, 49, 271-295.	8.3	351
15	Design of a high-throughput bio-ferrograph for isolation of cancer cells from whole blood. <i>Review of Scientific Instruments</i> , 2021, 92, 074103.	0.6	0
16	Thermal decomposition of titanium hydrides in electrochemically hydrogenated electron beam melting (EBM) and wrought Ti6Al4V alloys using in situ high-temperature X-Ray diffraction. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 30423-30432.	3.8	13
17	Microvoids in electrochemically hydrogenated titanium-based alloys. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 27234-27242.	3.8	12
18	Hydrogen effect on phase angle shift in electrochemical impedance spectroscopy during corrosion fatigue crack emanation. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 40175-40184.	3.8	8

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19	Solâ€“Gel Encapsulation of ZnAl Alloy Powder with Alumina Shell. <i>Coatings</i> , 2021, 11, 1389.	1.2	3
20	Electroplating of Pure Aluminum from [HMIIm][TFSI]â€“AlCl <sub>3</sub> Room-Temperature Ionic Liquid. <i>Coatings</i> , 2021, 11, 1414.	1.2	5
21	(Electrodeposition Division Research Award Address) Electrodeposition in the Era of Additive Manufacturing. <i>ECS Meeting Abstracts</i> , 2021, MA2021-02, 691-691.	0.0	0
22	Atomic Force Microscopeâ€“Based Meniscusâ€“Confined Threeâ€“Dimensional Electrodeposition. <i>Advanced Materials Technologies</i> , 2020, 5, 1900827.	3.0	20
23	Hydrogen effects on electrochemically charged additive manufactured by electron beam melting (EBM) and wrought Tiâ€“6Alâ€“4V alloys. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 25523-25540.	3.8	36
24	Comparative Quality Control of Titanium Alloy Tiâ€“6Alâ€“4V, 17â€“4 PH Stainless Steel, and Aluminum Alloy 4047 Either Manufactured or Repaired by Laser Engineered Net Shaping (LENS). <i>Materials</i> , 2020, 13, 4171.	1.3	27
25	Corrosion inhibition of copper in ferric chloride solutions with organic inhibitors. <i>Npj Materials Degradation</i> , 2020, 4, .	2.6	22
26	The Effect of POSS Type on the Shape Memory Properties of Epoxy-Based Nanocomposites. <i>Molecules</i> , 2020, 25, 4203.	1.7	8
27	Directed energy deposition of Al 5xxx alloy using Laser Engineered Net Shaping (LENS <sup>Â®</sup> ). <i>Materials and Design</i> , 2020, 192, 108763.	3.3	52
28	The Effect of Localized Vibration during Welding on the Microstructure and Mechanical Behavior of Steel Welds. <i>Materials</i> , 2019, 12, 2553.	1.3	15
29	Diffusion and trapping of hydrogen due to elastic interaction with Î–Ni <sub>3</sub> Ti precipitates in Custom 465 <sup>Â®</sup> stainless steel. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 31610-31620.	3.8	14
30	Corrosion of Metallic Biomaterials: A Review. <i>Materials</i> , 2019, 12, 407.	1.3	497
31	Advances in Polyimideâ€“Based Materials for Space Applications. <i>Advanced Materials</i> , 2019, 31, e1807738.	11.1	375
32	The Effect of Direct and Pulsed Current in the Presence of Surfactants on the Electrodeposition of Znâ€“SiC Nanocomposite Coatings. <i>Coatings</i> , 2019, 9, 93.	1.2	15
33	Mechanical properties of Bio-Ferrogrophy isolated cancerous cells studied by atomic force microscopy. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 91, 345-354.	1.5	7
34	Shedding Light on the Oxygen Reduction Reaction Mechanism in Ether-Based Electrolyte Solutions: A Study Using Operando UVâ€“Vis Spectroscopy. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 10860-10869.	4.0	6
35	Hydrogen Diffusivity and Trapping in Custom 465 Stainless Steel. <i>Journal of the Electrochemical Society</i> , 2018, 165, C107-C115.	1.3	20
36	Atomically resolved calcium phosphate coating on a gold substrate. <i>Nanoscale</i> , 2018, 10, 8451-8458.	2.8	5

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37	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.	1.3	7
38	Microbial Degradation of Epoxy. Materials, 2018, 11, 2123.	1.3	19
39	Enhancement of Wetting and Mechanical Properties of UHMWPE-Based Composites through Alumina Atomic Layer Deposition. Advanced Materials Interfaces, 2018, 5, 1800295.	1.9	14
40	Direct Current Electrodeposition of Zn-SiC Nanocomposite Coatings from Citrate Bath. Journal of the Electrochemical Society, 2018, 165, D526-D535.	1.3	10
41	Quickly Manufactured, Drug Eluting, Calcium Phosphate Composite Coating. ChemistrySelect, 2017, 2, 753-758.	0.7	5
42	The relation between aging temperature, microstructure evolution and hardening of Custom 465® stainless steel. Materials Characterization, 2017, 127, 129-136.	1.9	48
43	Templated and self-limiting calcite formation directed by coccolith organic macromolecules. Chemical Communications, 2017, 53, 7740-7743.	2.2	16
44	Synthesis, coating, and drug-release of hydroxyapatite nanoparticles loaded with antibiotics. Journal of Materials Chemistry B, 2017, 5, 7819-7830.	2.9	87
45	Calcium Phosphate Bioceramics: A Review of Their History, Structure, Properties, Coating Technologies and Biomedical Applications. Materials, 2017, 10, 334.	1.3	703
46	Wear Particle Analysis. , 2017, , 1010-1031.		0
47	Atomic-Scale Structural and Chemical Study of Columnar and Multilayer Re-Ni Electrodeposited Thermal Barrier Coating. Advanced Engineering Materials, 2016, 18, 1133-1144.	1.6	15
48	Electrodeposition and biomineralization of nano- $\beta$ -tricalcium phosphate on graphenated carbon nanotubes. Surface and Coatings Technology, 2016, 297, 51-57.	2.2	11
49	Hydroxyapatite/Mesoporous Graphene/Single-Walled Carbon Nanotubes Freestanding Flexible Hybrid Membranes for Regenerative Medicine. Advanced Functional Materials, 2016, 26, 7965-7974.	7.8	37
50	Electrochemically Driven Hydroxyapatite Nanoparticles Coating of Medical Implants. Advanced Functional Materials, 2016, 26, 8003-8010.	7.8	53
51	Electrodeposition of Re-Ni alloys from aqueous solutions with organic additives. Thin Solid Films, 2016, 616, 828-837.	0.8	19
52	Cycling-Stable Cathodes: Hydroxyapatite/Mesoporous Graphene/Single-Walled Carbon Nanotubes Freestanding Flexible Hybrid Membranes for Regenerative Medicine (Adv. Funct. Mater. 44/2016). Advanced Functional Materials, 2016, 26, 7946-7946.	7.8	1
53	In Situ Potentiostatic Deposition of Calcium Phosphate with Gentamicin-Loaded Chitosan Nanoparticles on Titanium Alloy Surfaces. Electrochimica Acta, 2016, 222, 355-360.	2.6	21
54	Electro-Assisted Deposition of Calcium Phosphate on Self-Assembled Monolayers. Electrochimica Acta, 2016, 206, 400-408.	2.6	12

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55	Effect of Decorating Titanium with Different Self-Assembled Monolayers on the Electrodeposition of Calcium Phosphate. <i>Crystal Growth and Design</i> , 2016, 16, 2756-2764.	1.4	15
56	Characterization of Re-Ni Films after the Initial Stages of Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2016, 163, D295-D299.	1.3	6
57	Mechanical characterization of aerogel materials with digital image correlation. <i>Microporous and Mesoporous Materials</i> , 2016, 226, 44-52.	2.2	18
58	Electrodeposited Re-promoted Ni foams as a catalyst for the dry reforming of methane. <i>Catalysis Communications</i> , 2016, 76, 23-28.	1.6	21
59	Optimization of <sc>EGFR</sc> high positive cell isolation procedure by design of experiments methodology. <i>Cytometry Part B - Clinical Cytometry</i> , 2015, 88, 338-347.	0.7	9
60	The Use of Polyurethanes in Joint Replacement. , 2015, , 259-298.		0
61	Electroless plating of rhenium-based alloys with nickel, cobalt and iron. <i>Electrochimica Acta</i> , 2015, 174, 660-666.	2.6	13
62	Effect of Pulse On-Time and Peak Current Density on Pulse Plated Re-Ni Alloys. <i>Journal of the Electrochemical Society</i> , 2015, 162, D250-D255.	1.3	9
63	Assisted deposition of nano-hydroxyapatite onto exfoliated carbon nanotube oxide scaffolds. <i>Nanoscale</i> , 2015, 7, 10218-10232.	2.8	54
64	Isolating epidermal growth factor receptor overexpressing carcinoma cells from human whole blood by bio-ferrography. , 2015, 88, 136-144.		5
65	Hydrogen diffusivity measurement and microstructural characterization of Custom 465 stainless steel. <i>Electrochimica Acta</i> , 2015, 178, 494-503.	2.6	43
66	The Effects of pH and Temperature on Electrodeposition of Re-Ir-Ni Coatings from Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 2015, 162, D20-D26.	1.3	35
67	The Initial Stages of Electrodeposition of Re-Ni Alloys. <i>Journal of the Electrochemical Society</i> , 2014, 161, D219-D226.	1.3	16
68	Microstructure and composition of pulse plated Re-Ni alloys on a rotating cylinder electrode. <i>Journal of Electroanalytical Chemistry</i> , 2014, 731, 93-99.	1.9	12
69	The Influence of Weak Ionic Interactions on Electrode Reactions during Electrodeposition of Re-Ni Alloys. <i>Journal of the Electrochemical Society</i> , 2014, 161, D632-D639.	1.3	9
70	Isolating EGFR Overexpressing Carcinoma Cells from Human Whole Blood by Bio-Ferrography. , 2014, , n/a-n/a.		5
71	Hydroxyapatite coatings electrodeposited at near-physiological conditions. <i>Materials Letters</i> , 2014, 119, 24-27.	1.3	26
72	Preparation and Characterization of Alkylphosphonic Acid Self-Assembled Monolayers on Titanium Alloy by Chemisorption and Electrochemical Deposition. <i>Langmuir</i> , 2014, 30, 6791-6799.	1.6	56

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73	Growth study of nanoscale Re-Ni coatings on functionalized SiO <sub>2</sub> using electroless plating. Applied Surface Science, 2014, 313, 159-165.	3.1	20
74	Incorporation of iridium into electrodeposited rhenium-nickel alloys. Electrochimica Acta, 2013, 88, 240-250.	2.6	26
75	Observations of Ball-Lightning-Like Plasmoids Ejected from Silicon by Localized Microwaves. Materials, 2013, 6, 4011-4030.	1.3	19
76	Effect of the POSS-Polyimide nanostructure on its mechanical and electrical properties. Composites Science and Technology, 2012, 72, 1408-1415.	3.8	24
77	Fundamentals of Tribology and the Use of Ferrography and Bio-Ferrography for Monitoring the Degradation of Natural and Artificial Joints. , 2012, , 253-302.		13
78	The iron anchors from the Tantara F shipwreck: typological and metallurgical analyses. Journal of Archaeological Science, 2011, 38, 233-245.	1.2	28
79	Strain driven transport for bone modeling at the periosteal surface. Mathematical Biosciences, 2011, 230, 37-44.	0.9	6
80	The nanostructure of an electrochemically deposited hydroxyapatite coating. Materials Letters, 2011, 65, 2455-2457.	1.3	45
81	Electroless plating of rhenium-nickel alloys. Electrochimica Acta, 2011, 56, 9637-9643.	2.6	26
82	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.	1.7	57
83	Interaction of liquid and solid gallium with thin silver films: Synchronized spreading and penetration. Acta Materialia, 2011, 59, 914-926.	3.8	24
84	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.	4.1	21
85	Long-term evaluation of a compliant cushion form acetabular bearing for hip joint replacement: A 20 million cycles wear simulation. Journal of Orthopaedic Research, 2011, 29, 1859-1866.	1.2	34
86	Electrodeposition of rhenium-tin nanowires. Electrochimica Acta, 2011, 56, 6361-6370.	2.6	19
87	Corrosion Reviews: a renewal. Corrosion Reviews, 2011, 29, .	1.0	1
88	Fracture of Cementless Femoral Stems at the Mid-Stem Junction in Modular Revision Hip Arthroplasty Systems. Journal of Bone and Joint Surgery - Series A, 2011, 93, 57-65.	1.4	159
89	Electrodeposition of Alloys of Rhenium with Iron-Group Metals from Aqueous Solutions. ECS Transactions, 2010, 25, 137-149.	0.3	10
90	Magnetic isolation of particles suspended in synovial fluid for diagnostics of natural joint chondropathies. Acta Biomaterialia, 2010, 6, 4430-4438.	4.1	18

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91	Electroplating and characterization of Zn-Ni, Zn-Co and Zn-Ni-Co alloys. Surface and Coatings Technology, 2010, 205, 1969-1978.	2.2	133
92	Study of fracture evolution in copper sheets by in situ tensile test and EBSD analysis. Journal of Materials Science, 2010, 45, 6345-6352.	1.7	11
93	P-2 Electrocrystallization of Calcium Phosphates for Orthopaedic Implants. Journal of Biomechanics, 2010, 43, S3-S4.	0.9	1
94	Electrodeposition of Zn-Ni, Zn-Fe and Zn-Ni-Fe alloys. Surface and Coatings Technology, 2010, 205, 2031-2041.	2.2	132
95	Wear rate evaluation of a novel polycarbonate-urethane cushion form bearing for artificial hip joints. Acta Biomaterialia, 2010, 6, 4698-4707.	4.1	56
96	A Novel Method for Magnetic Isolation and Characterization of Polycarbonate-Urethane Wear Particles. , 2010, , .		0
97	Electrodeposition of Alloys of Rhenium with Iron-Group Metals from Aqueous Solutions. Journal of the Electrochemical Society, 2010, 157, D422.	1.3	45
98	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
99	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.	4.0	69
100	Electrodeposition of Calcium Phosphates for Orthopaedic and Dental Implants. ECS Meeting Abstracts, 2009, , .	0.0	0
101	Electrochemical processes of nucleation and growth of calcium phosphate on titanium supported by real-time quartz crystal microbalance measurements and X-ray photoelectron spectroscopy analysis. Journal of Biomedical Materials Research - Part A, 2009, 89A, 270-280.	2.1	47
102	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.	4.1	116
103	Corrosion behavior of composition modulated multilayer Zn-Co electrodeposits produced using a single-bath technique. Journal of Applied Electrochemistry, 2009, 39, 339-345.	1.5	44
104	Failure Analysis and Condition Monitoring of an Open-Loop Oil System Using Ferrography. Tribology Letters, 2009, 36, 17-29.	1.2	35
105	TriSilanolPhenyl POSS-polyimide nanocomposites: Structure-properties relationship. Composites Science and Technology, 2009, 69, 2178-2184.	3.8	64
106	Electrodeposition of rhenium-nickel alloys from aqueous solutions. Electrochimica Acta, 2009, 54, 6028-6035.	2.6	83
107	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.	3.8	108
108	Enhanced osseointegration of grit-blasted, NaOH-treated and electrochemically hydroxyapatite-coated Ti-Al-4V implants in rabbits. Acta Biomaterialia, 2009, 5, 2258-2269.	4.1	100

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109	Nanoparticle plasma ejected directly from solid copper by localized microwaves. Applied Physics Letters, 2009, 95, .	1.5	37
110	Novel Approach to Space-survivable Polyimides: Liquid Phase Deposition of Titania Coating on Kapton. , 2009, , .		3
111	Gravity orientation in social wasp comb cells (Vespinæ) and the possible role of embedded minerals. Die Naturwissenschaften, 2008, 95, 333-342.	0.6	28
112	Autosomal dominant isolated question mark ear. American Journal of Medical Genetics, Part A, 2008, 146A, 2280-2283.	0.7	12
113	Magnetic properties of carbon nano-particles produced by a pulsed arc submerged in ethanol. Carbon, 2008, 46, 215-219.	5.4	43
114	Electrocrystallization of Calcium Phosphates. Israel Journal of Chemistry, 2008, 48, 159-168.	1.0	29
115	Induced Codeposition of Alloys of Tungsten, Molybdenum and Rhenium with Transition Metals. , 2008, , 191-301.		104
116	Chemical Potential, Diffusion and Stress â€“ Common Confusions in Nomenclature and Units. Corrosion Reviews, 2008, 26, .	1.0	6
117	The use of SIMS in quality control and failure analysis of electrodeposited items inspected for hydrogen effects. Corrosion Science, 2008, 50, 1481-1491.	3.0	20
118	Electrocrystallization of Hydroxyapatite and Its Dependence on Solution Conditions. Crystal Growth and Design, 2008, 8, 3965-3977.	1.4	120
119	POSS-Polyimide Nanocomposite Films: Simulated Hypervelocity Space Debris and Atomic Oxygen Effects. High Performance Polymers, 2008, 20, 475-491.	0.8	55
120	Hydrogen-assisted cracking of iron-based amorphous alloys. , 2008, , 201-211.		0
121	Preventative Maintenance and Failure Analysis of Aircraft Components. Corrosion Reviews, 2007, 25, 107-144.	1.0	25
122	Electrochemical processes of nucleation and growth of hydroxyapatite on titanium supported by real-time electrochemical atomic force microscopy. Journal of Biomedical Materials Research - Part A, 2007, 80A, 621-634.	2.1	146
123	Innovative processes for electropolishing of medical devices made of stainless steels. Journal of Biomedical Materials Research - Part A, 2007, 83A, 546-557.	2.1	33
124	Residual stress effect on degradation of polyimide under simulated hypervelocity space debris and atomic oxygen. Polymer, 2007, 48, 19-24.	1.8	54
125	Early bone apposition in vivo on plasma-sprayed and electrochemically deposited hydroxyapatite coatings on titanium alloy. Biomaterials, 2006, 27, 4192-4203.	5.7	193
126	Surface Spreading and Penetration of Liquid and Solid Ga in Thin Polycrystalline Ag Films. Defect and Diffusion Forum, 2006, 249, 219-226.	0.4	0



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127	The Mechanism of Induced Codeposition of Ni-W Alloys. ECS Transactions, 2006, 2, 337-349.	0.3	33
128	GROUND SIMULATION OF HYPERVELOCITY SPACE DEBRIS IMPACTS ON POLYMERS. , 2006, , 153-165.		0
129	Synthesis and characterization of nickel tungsten alloys by electrodeposition. Electrochimica Acta, 2005, 50, 2893-2904.	2.6	184
130	Comparative study of deuterium desorption from Pd-coated Zr-based amorphous and quasicrystalline alloys. Scripta Materialia, 2005, 52, 777-783.	2.6	7
131	Cracking in cargo aircraft main landing gear truck beams due to abusive grinding following chromium plating. Engineering Failure Analysis, 2005, 12, 337-347.	1.8	14
132	Electrochemical and electrophoretic deposition of hydroxyapatite for orthopaedic applications. Surface Engineering, 2005, 21, 238-242.	1.1	137
133	Electroplating of Ni <sub>4</sub> W. Electrochemical and Solid-State Letters, 2005, 8, C58.	2.2	46
134	Nanoparticles and nanotubes induced by femtosecond lasers. Laser and Particle Beams, 2005, 23, .	0.4	27
135	Synthesis of nanoparticles with femtosecond laser pulses. Physical Review B, 2004, 69, .	1.1	230
136	Modeling failure of metallic glasses due to hydrogen embrittlement in the absence of external loads. Acta Materialia, 2004, 52, 93-105.	3.8	24
137	The effect of simulated hypervelocity space debris on polymers. Acta Materialia, 2004, 52, 5539-5549.	3.8	44
138	Failures of bolts in helicopter main rotor drive plate assembly due to improper application of lubricant. Engineering Failure Analysis, 2003, 10, 443-451.	1.8	20
139	Absorption/desorption behavior of hydrogen and deuterium in a Pd-coated Zr-based amorphous alloy. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2003, 358, 219-225.	2.6	16
140	Failures of Stainless Steel Orthopedic Devices - Causes and Remedies. Corrosion Reviews, 2003, 21, 231-268.	1.0	36
141	The Correlation Between Substrate Mass Loss and Electrochemical Impedance Spectroscopy Data for a Polymer-Coated Metal. Journal of the Electrochemical Society, 2002, 149, B265.	1.3	10
142	High Efficiency Aeronautical Hard Chromium Platings. Materials Technology, 2002, 17, 81-86.	1.5	2
143	Electrophoretic Deposition of Hydroxyapatite Coatings and Corrosion Aspects of Metallic Implants. Corrosion Reviews, 2002, 20, 255-294.	1.0	48
144	Hot corrosion in gas turbine components. Engineering Failure Analysis, 2002, 9, 31-43.	1.8	537

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145	Characteristics of hydrogen embrittlement, stress corrosion cracking and tempered martensite embrittlement in high-strength steels. <i>Engineering Failure Analysis</i> , 2002, 9, 167-184.	1.8	203
146	Corrosion behavior of advanced titanium-based alloys made by three-dimensional printing (3DPTM) for biomedical applications. <i>Corrosion Science</i> , 2001, 43, 1781-1791.	3.0	54
147	The Use Of Electrochemical Impedance Spectroscopy (EIS) And Vibrating Sample Magnetometer (VSM) For Measuring The Corrosion Rate Of Polymer-Coated Ferromagnetic Metals.. <i>Materials Technology</i> , 2001, 16, 90-97.	1.5	3
148	An Overview of the Current Understanding of Corrosion in SCWO Systems for the Destruction of Hazardous Waste Products. <i>Materials Technology</i> , 2001, 16, 44-53.	1.5	23
149	The effect of manufacturing processes on the fatigue lifetime of aeronautical bolts. <i>Engineering Failure Analysis</i> , 2001, 8, 227-235.	1.8	30
150	A New Ti-5Ag Alloy for Customized Prostheses by Three-dimensional Printing (3DPâ,,ç). <i>Journal of Dental Research</i> , 2001, 80, 860-863.	2.5	37
151	Design and Characterization of New Ti-Ag and Ti-Ag-Sn Alloys for Cranio-Maxillo-Facial Prostheses Made by Three-Dimensional Printing. <i>Materials Research Society Symposia Proceedings</i> , 2000, 662, 1.	0.1	5
152	Hydrogen-assisted processing of materials. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 289, 41-53.	2.6	86
153	Influence of hydrogen on formation and stability of Zr-based quasicrystals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 294-296, 112-115.	2.6	16
154	Positive effects of hydrogen in metals. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2000, 280, 220-224.	2.6	135
155	Hydrogen effects on the spall strength and fracture characteristics of amorphous Fe-Si-B alloy at very high strain rates. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000, 31, 1085-1093.	1.1	15
156	Hydrogen effects on an amorphous Fe-Si-B alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2000, 31, 2517-2526.	1.1	24
157	Hydrogen evolution from Zr-based amorphous and quasicrystalline alloys. <i>Journal of Alloys and Compounds</i> , 2000, 305, 272-281.	2.8	34
158	Corrosion Behavior of Nickel-Based Alloys in Supercritical Water Oxidation Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , 2000, 39, 4689-4696.	1.8	79
159	A new model for the diffusion behavior of hydrogen in metallic glasses. <i>Acta Materialia</i> , 1999, 47, 2981-2989.	3.8	24
160	An Overview of Hydrogen Interaction with Amorphous Alloys. <i>Materials Technology</i> , 1999, 6, 5-31.	0.3	84
161	Non-Arrhenius behavior of the diffusion coefficient of hydrogen in amorphous metals. <i>Materials Letters</i> , 1999, 39, 255-259.	1.3	9
162	Hydrogenation of Zr-based metallic glasses and quasicrystals. <i>Journal of Non-Crystalline Solids</i> , 1999, 250-252, 893-897.	1.5	45

#	ARTICLE	IF	CITATIONS
163	In Situ Underfilm Corrosion Rate Measurements by Magnetic and Electrochemical Techniques. Electrochemical and Solid-State Letters, 1999, 3, 275.	2.2	9
164	An increase of the spall strength in aluminum, copper, and Metglas at strain rates larger than $10^7 \text{ s}^{-1}$ . Journal of Applied Physics, 1998, 83, 4004-4011.	1.1	112
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166	Hydrogenation and Crystallization of Zr-Cu-Ni-Al Glasses. Materials Research Society Symposia Proceedings, 1998, 554, 287.	0.1	6
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