

Achim Walter Hassel

List of Publications by Year in descending order

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225
papers

5,590
citations

109137

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docs citations

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times ranked

5603
citing authors

#	ARTICLE	IF	CITATIONS
1	Mixed anodic oxides for forming-free memristors revealed by combinatorial screening of hafnium-tantalum system. <i>Applied Materials Today</i> , 2022, 26, 101270.	2.3	9
2	Comparative Behavior of Viscose-Based Supercapacitor Electrodes Activated by KOH, H ₂ O, and CO ₂ . <i>Nanomaterials</i> , 2022, 12, 677.	1.9	5
3	Impact of Electrolyte Incorporation in Anodized Niobium on Its Resistive Switching. <i>Nanomaterials</i> , 2022, 12, 813.	1.9	8
4	Growth of mixed anodic films on combinatorial Al-Gd alloys and their superimposed potential-pH diagrams. <i>Journal of Electroanalytical Chemistry</i> , 2022, 911, 116227.	1.9	1
5	Hydrogen Insertion into Complex-Phase High-Strength Steel during Atmospheric Corrosion at Low Relative Humidity. <i>Metals</i> , 2022, 12, 624.	1.0	3
6	Incremental lines in human acellular tooth cementum – New insights by SEM analysis. <i>Annals of Anatomy</i> , 2022, 243, 151933.	1.0	2
7	Memristive Characteristics of Composite Hafnium/Tantalum Anodic Oxides. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2022, 219, .	0.8	2
8	State of the Art of Chemosensors in a Biomedical Context. <i>Chemosensors</i> , 2022, 10, 199.	1.8	3
9	A theoretical and experimental framework for the formation of mixed anodic films on combinatorial aluminium-cerium alloys. <i>Electrochimica Acta</i> , 2021, 367, 137173.	2.6	2
10	Combinatorial Passivation Study in the Aluminium-Samarium System for Basic Property Mapping and Identification of Secondary Phase Influence. <i>Journal of the Electrochemical Society</i> , 2021, 168, 011503.	1.3	1
11	Viscose-based porous carbon fibers: improving yield and porosity through optimization of the carbonization process by design of experiment. <i>Journal of Porous Materials</i> , 2021, 28, 727-739.	1.3	17
12	Electrolyte-Dependent Modification of Resistive Switching in Anodic Hafnia. <i>Nanomaterials</i> , 2021, 11, 666.	1.9	13
13	Femtosecond Laser-Processing of Pre-Anodized Ti-Based Bone Implants for Cell-Repellent Functionalization. <i>Nanomaterials</i> , 2021, 11, 1342.	1.9	9
14	Influence of Fuel and Shroud Gas on the Corrosion Resistance of High-Velocity Oxy-Fuel Nickel Coatings. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000024.	0.8	1
15	Phosphate incorporation in anodic hafnium oxide memristors. <i>Applied Surface Science</i> , 2021, 548, 149093.	3.1	13
16	Biomass-Derived Carbons as Versatile Materials for Energy-Related Applications: Capacitive Properties vs. Oxygen Reduction Reaction Catalysis. <i>Journal of Carbon Research</i> , 2021, 7, 55.	1.4	6
17	Passivity of Holmium Studied Theoretically by Potential-pH Diagrams for Selection of Electrolytes and Experimental Proof of the Formation of Ultra-Thin Anodic Films. <i>Journal of the Electrochemical Society</i> , 2021, 168, 081509.	1.3	0
18	Overcoming intra-molecular repulsions in PEDTT by sulphate counter-ion. <i>Science and Technology of Advanced Materials</i> , 2021, 22, 985-997.	2.8	5

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19	Composite Memristors by Nanoscale Modification of Hf/Ta Anodic Oxides. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 8917-8923.	2.1	7
20	Influence of electrolyte selection on performance of tantalum anodic oxide memristors. <i>Applied Surface Science</i> , 2021, 565, 150608.	3.1	14
21	Gallium-Enhanced Aluminum and Copper Electromigration Performance for Flexible Electronics. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 6960-6974.	4.0	8
22	Development of dispersion layers for dental drills with reduced nickel release. <i>Physics in Medicine</i> , 2021, , 100045.	0.6	0
23	Electrochemical Screening of Tungsten Trioxideâ€“Nickel Oxide Thin Film Combinatorial Library at Low Nickel Concentrations. <i>ACS Combinatorial Science</i> , 2020, 22, 61-69.	3.8	2
24	Combinatorial surface nanostructuring in aluminium-niobium system. <i>Applied Surface Science</i> , 2020, 499, 143943.	3.1	3
25	A Thermodynamic Approach for Selection of Anodizing Electrolytes in Aluminiumâ€“Holmium System. <i>ChemElectroChem</i> , 2020, 7, 1342-1357.	1.7	1
26	Combinatorial screening of dysprosium-magnesium-zinc alloys for bioresorptive implants. <i>Electrochimica Acta</i> , 2020, 363, 137106.	2.6	3
27	Loss of Olfactory Functionâ€”Early Indicator for Covid-19, Other Viral Infections and Neurodegenerative Disorders. <i>Frontiers in Neurology</i> , 2020, 11, 569333.	1.1	42
28	Pervasive electrochemistry. <i>Journal of Solid State Electrochemistry</i> , 2020, 24, 2083-2085.	1.2	2
29	Metalâ€“Free Hydrogenâ€“Bonded Polymers Mimic Noble Metal Electrocatalysts. <i>Advanced Materials</i> , 2020, 32, e1902177.	11.1	24
30	Supercapacitor Electrodes from Viscose-Based Activated Carbon Fibers: Significant Yield and Performance Improvement Using Diammonium Hydrogen Phosphate as Impregnating Agent. <i>Journal of Carbon Research</i> , 2020, 6, 17.	1.4	14
31	Samarium influence on current induced atomic displacement in Aluminium and Copper combinatorial thin film alloys. <i>Thin Solid Films</i> , 2020, 702, 137949.	0.8	4
32	Impact of Femtosecond Laser Treatment Accompanied with Anodization of Titanium Alloy on Fibroblast Cell Growth. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900838.	0.8	10
33	Corrosion and Structural Properties of Erbiumâ€“Zinc Thin Films at Lowâ€“toâ€“Medium Erbium Concentrations. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900841.	0.8	0
34	Electrocatalytic glucose oxidation on a combinatorially electrodeposited cobalt-copper-nickel thin film material library. <i>Electrochimica Acta</i> , 2020, 341, 135744.	2.6	4
35	Electrochemical Impedance Spectroscopy on UVâ€“Aged Polyester Coatings: Possibilities and Limits of Modeling Water Diffusion. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1901038.	0.8	4
36	Repellent rings at titanium cylinders against overgrowth by fibroblasts. <i>Advanced Optical Technologies</i> , 2020, 9, 113-120.	0.9	8

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37	Binary Aluminium-Lanthanoid Material Libraries Studied in a Combinatorial Approach. ECS Meeting Abstracts, 2020, MA2020-02, 1250-1250.	0.0	0
38	(Invited) High Precision Corrosion Measurements from Flow Type Scanning Droplet Microscopy with Downstream Analysis By Inductively Coupled Optical Emission Spectroscopy or Inductively Coupled Mass Spectrometry. ECS Meeting Abstracts, 2020, MA2020-02, 1277-1277.	0.0	0
39	Customized 2D Structures for High Throughput Electromigration Measurements. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800869.	0.8	2
40	Annealing Conditions™ Influence on the Oxidation of Silicon-Aluminium-Alloys in Combinatorial Thin-Film Libraries. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1801009.	0.8	1
41	Structural, Electrical, and Optical Effects of Metal Doping on ZnO Thin Films. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800942.	0.8	4
42	Review on the Versatility of Tungsten Oxide Coatings. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900047.	0.8	84
43	Insight into Antimicrobial Properties via Self-Acidification of Compounds from the Molybdenum-Tungsten-Oxygen System. ACS Applied Bio Materials, 2019, 2, 1477-1489.	2.3	3
44	Strong Volta potential change in doped zinc oxide as a photoresponse to UV irradiation. RSC Advances, 2019, 9, 35579-35587.	1.7	5
45	Testosterone- and vitamin-grafted cellulose ethers for sustained release of camptothecin. Carbohydrate Polymers, 2019, 206, 641-652.	5.1	9
46	Enhanced Bio-Electrochemical Reduction of Carbon Dioxide by Using Neutral Red as a Redox Mediator. ChemBioChem, 2019, 20, 1196-1205.	1.3	35
47	Formation of nano-scale composite anodic films on aluminium-holmium alloys. Electrochimica Acta, 2019, 297, 888-904.	2.6	8
48	Localized-Plasmon Voltammetry to Detect pH Dependent Gold Oxidation. Journal of Physical Chemistry C, 2018, 122, 4565-4571.	1.5	12
49	Nanofibrous cobalt oxide for electrocatalysis of CO2 reduction to carbon monoxide and formate in an acetonitrile-water electrolyte solution. Applied Catalysis B: Environmental, 2018, 229, 163-170.	10.8	63
50	Downstream analytics quantification of ion release during high-voltage anodisation of niobium. Journal of Solid State Electrochemistry, 2018, 22, 2457-2464.	1.2	4
51	Influence of atmospheric oxygen on hydrogen detection on Pd using Kelvin probe technique. Journal of Solid State Electrochemistry, 2018, 22, 495-504.	1.2	10
52	Anodization behaviour and basic property mapping in the aluminium-erbium system. Journal of Solid State Electrochemistry, 2018, 22, 869-876.	1.2	5
53	Optimum Copper-Palladium Catalyst from a Combinatorial Library for Sensitive Non-Enzymatic Glucose Sensors. Electrocatalysis, 2018, 9, 359-369.	1.5	8
54	Direct writing of anodic oxides for plastic electronics. Npj Flexible Electronics, 2018, 2, .	5.1	16

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55	In Situ Mass Spectrometric Reaction Monitoring of Atmospheric Corrosion Processes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700860.	0.8	3
56	Suitability of Various Materials for Probes in Scanning Kelvin Probe Measurements. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700952.	0.8	9
57	On the Electropolishing Mechanism of Nickel Titanium in Methanolic Sulfuric acid – An Electrochemical Impedance Study. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1800011.	0.8	7
58	Basic properties mapping of anodic oxides in the hafnium–niobium–tantalum ternary system. <i>Science and Technology of Advanced Materials</i> , 2018, 19, 554-568.	2.8	4
59	Electrocatalysis on copper–palladium alloys for amperometric formaldehyde sensing. <i>RSC Advances</i> , 2017, 7, 6031-6039.	1.7	10
60	Solar water splitting on porous-alumina-assisted TiO ₂ -doped WO _x nanorod photoanodes: Paradoxes and challenges. <i>Nano Energy</i> , 2017, 33, 72-87.	8.2	33
61	Self-assembled cellulose particles for agrochemical applications. <i>European Polymer Journal</i> , 2017, 93, 706-716.	2.6	18
62	Preparation and investigation of combinatorially electrodeposited zinc-nickel, zinc-cobalt, and zinc-nickel-cobalt material libraries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600706.	0.8	2
63	Manganese / zinc ratio influence on the thermal oxide nanostructure in the Mn-Zn-O system. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600809.	0.8	2
64	In situ monitoring of the electrochemical dissolution of tungsten. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600803.	0.8	10
65	Anderson–Localization and the Mott–Ioffe–Regel Limit in Glassy–Metallic PEDOT. <i>Advanced Electronic Materials</i> , 2017, 3, 1700050.	2.6	34
66	Non-enzymatic glucose sensing on copper-nickel thin film alloy. <i>Applied Surface Science</i> , 2017, 417, 48-53.	3.1	22
67	Compositionally Dependent Nonlinear Optical Bandgap Behavior of Mixed Anodic Oxides in Niobium–Titanium System. <i>ACS Combinatorial Science</i> , 2017, 19, 121-129.	3.8	9
68	{110}–Terminated Square–Shaped Gold Nanoplates and Their Electrochemical Surface Reactivity. <i>ChemElectroChem</i> , 2017, 4, 557-564.	1.7	9
69	Copper-nickel combinatorial library screening for electrocatalytic formaldehyde oxidation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2017, 214, 1600552.	0.8	4
70	Biofunctionalized conductive polymers enable efficient CO ₂ electroreduction. <i>Science Advances</i> , 2017, 3, e1700686.	4.7	89
71	In Situ Monitoring of Ionic Metal Dissolution During Anodization of Titanium and Quantification of Parallel Electronic Oxygen Evolution. <i>ChemElectroChem</i> , 2017, 4, 1846-1848.	1.7	12
72	Evolution and interaction of corrosive species during the initial NaCl particle induced corrosion on zinc coated skin-passed steel. <i>Corrosion Science</i> , 2017, 127, 222-229.	3.0	10

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73	In-Situ Monitoring of Metal Dissolution during Anodization of Tantalum. Journal of the Electrochemical Society, 2017, 164, C598-C601.	1.3	7
74	Silver-, calcium-, and copper molybdate compounds: Preparation, antibacterial activity, and mechanisms. Biointerphases, 2017, 12, 05G607.	0.6	26
75	Challenges in hydrogen quantification using Kelvin probe technique at different levels of relative humidity. Journal of Solid State Electrochemistry, 2017, 21, 1785-1796.	1.2	16
76	Direct observation of metal dissolution during anodization of niobium. Electrochemistry Communications, 2017, 74, 5-8.	2.3	15
77	Rolling Direction Dependent Diffusion Coefficients of Hydrogen in Ferritic Steel by SDCM Charging and SKP Probing. ISIJ International, 2016, 56, 487-491.	0.6	7
78	Maximum electrocatalytic oxidation performance for formaldehyde in a combinatorial copper-palladium thin film library. Applied Catalysis A: General, 2016, 525, 110-118.	2.2	16
79	Growth inhibition of <i>Escherichia coli</i> by zinc molybdate with different crystalline structures. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1471-1478.	0.8	21
80	Cobalt-nickel material libraries obtained from electrodeposition using citrate or glycine as additives. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1417-1426.	0.8	12
81	Anodic oxide formation on aluminium-terbium alloys. Journal of Solid State Electrochemistry, 2016, 20, 1673-1681.	1.2	14
82	Heterogeneous Ziegler-Natta catalysts with various sizes of MgCl ₂ crystallites: synthesis and characterization. Iranian Polymer Journal (English Edition), 2016, 25, 321-337.	1.3	24
83	Spectroscopic ellipsometry for compositionally induced bandgap tuning of combinatorial niobium-tantalum anodic oxides. RSC Advances, 2016, 6, 79934-79942.	1.7	5
84	3D printed double flow cell for local through-thickness anodisation in aluminium. Electrochemistry Communications, 2016, 69, 84-88.	2.3	4
85	Gold Nanoparticle@Polyhedral Oligomeric Silsesquioxane Hybrid Scaffolds in Microfluidic Format - Highly Efficient and Green Catalytic Platforms. European Journal of Inorganic Chemistry, 2016, 2016, 951-955.	1.0	9
86	Combinatorial Electrodeposition of Cobalt-Copper Material Libraries. Journal of the Electrochemical Society, 2016, 163, D3069-D3075.	1.3	8
87	Film dissolution kinetics of aluminium at precisely adjusted pH-values. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1410-1416.	0.8	0
88	Hydrogel-based flexible micro-reference electrodes for use in alkaline and neutral pH solutions. Journal of Solid State Electrochemistry, 2016, 20, 2749-2757.	1.2	8
89	Electrocatalytic oxidation of glucose by screening combinatorial copper-nickel alloys. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1434-1440.	0.8	9
90	Lateral resolution in scanning Kelvin probe microscopy. Corrosion Science, 2016, 104, 1-8.	3.0	23

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91	Compositional dependent high temperature crystalline phase formation on manganese-silicon thin film combinatorial libraries in controlled oxidizing atmospheres. <i>Journal of Alloys and Compounds</i> , 2016, 664, 351-362.	2.8	4
92	In situ quantification of electrochemical dissolution of hafnium-tantalum alloys in acidic media. <i>Electrochemistry Communications</i> , 2015, 59, 5-8.	2.3	7
93	Electrodeposition of cobalt-nickel material libraries. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1216-1222.	0.8	15
94	Analysis of main failure pattern using discrete Fourier transform on metal-epoxy-based adherent laminates. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1242-1248.	0.8	2
95	Screening of catalytic effects on copper-zinc thin film combinatorial libraries for formaldehyde oxidation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1184-1190.	0.8	10
96	Palladium thin films for hydrogen sensing in aqueous electrolytes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1273-1280.	0.8	6
97	Downsizing of single crystalline high aspect ratio tungsten nanowires. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1223-1228.	0.8	0
98	Highly customisable scanning droplet cell microscopes using 3D-printing. <i>Journal of Electroanalytical Chemistry</i> , 2015, 740, 53-60.	1.9	57
99	Effect of Different Cobalt Concentrations on Tungsten Trioxide Photoelectrodes for Use in Solar Water Oxidation. <i>Journal of the Electrochemical Society</i> , 2015, 162, H187-H193.	1.3	9
100	Interfacial Oxide Formation during Anodization of Hafnium/Aluminium Superimposed Layers. <i>Electrochimica Acta</i> , 2015, 178, 344-352.	2.6	6
101	Aluminium-copper-nickel thin film compositional spread: Nickel influence on fundamental alloy properties and chemical stability of copper. <i>Thin Solid Films</i> , 2015, 580, 36-44.	0.8	13
102	Water content and high temperature influence on the oxidation behavior of manganese and silicon thin films on iron matrix. <i>Surface and Coatings Technology</i> , 2015, 265, 145-153.	2.2	3
103	Morphology and size effects on the reduction of silver oxide by hydrogen. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2015, 212, 1202-1209.	0.8	8
104	Anodization Behavior of Glassy Metallic Hafnium Thin Films. <i>Journal of the Electrochemical Society</i> , 2015, 162, E30-E36.	1.3	11
105	Localised electrochemical impedance spectroscopy using a scanning droplet cell microscope. <i>Journal of Electroanalytical Chemistry</i> , 2015, 737, 93-99.	1.9	9
106	Potentiodynamic hydrogen permeation on Palladium-Kelvin probe compared to 3D printed microelectrochemical cell. <i>Electrochemistry Communications</i> , 2015, 60, 208-211.	2.3	16
107	Multi-Scanning Droplet Cell Microscopy (multi-SDCM) for truly parallel high throughput electrochemical experimentation. <i>Electrochimica Acta</i> , 2015, 179, 32-37.	2.6	25
108	EIS study of blister formation on coated galvanised steel in oxidising alkaline solutions. <i>Corrosion Science</i> , 2015, 96, 6-13.	3.0	21

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109	Mechanistic approaches on the antibacterial activity of poly(acrylic acid) copolymers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015, 126, 98-105.	2.5	28
110	Corrosion of high-level radioactive waste iron-canisters in contact with bentonite. <i>Journal of Hazardous Materials</i> , 2015, 285, 464-473.	6.5	35
111	Microvials with tungsten nanowire arrays. <i>Journal of Solid State Electrochemistry</i> , 2014, 18, 2955-2961.	1.2	2
112	Properties of anodic oxides grown on a hafnium-tantalum-titanium thin film library. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 015006.	2.8	21
113	Raman imaging for surface characterisation of annealed electrical steel surfaces. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1429-1438.	0.8	8
114	Copper-nickel oxide thin film library reactively co-sputtered from a metallic sectioned cathode. <i>Journal of Materials Research</i> , 2014, 29, 148-157.	1.2	12
115	Localized photovoltaic investigations on organic semiconductors and bulk heterojunction solar cells. <i>Science and Technology of Advanced Materials</i> , 2014, 15, 054201.	2.8	1
116	Coating substrate relationship after initial electrolyte contact in the electrodeposition of zinc on steel. <i>Surface and Coatings Technology</i> , 2014, 253, 8-13.	2.2	4
117	On the pH-sensing properties of differently prepared tungsten oxide films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 1340-1345.	0.8	16
118	Combined chemical and EIS study of the reaction of zinc coatings under alkaline conditions. <i>Electrochimica Acta</i> , 2014, 131, 130-136.	2.6	31
119	Photoelectrochemical scanning droplet cell microscopy for localized photovoltaic investigations on organic semiconductors. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 3739.	1.3	11
120	Investigations on Bactericidal Properties of Molybdenum-Tungsten Oxides Combinatorial Thin Film Material Libraries. <i>ACS Combinatorial Science</i> , 2014, 16, 631-639.	3.8	29
121	Rhodium-Coordinated Poly(arylene-ethynylene)-Poly(arylene-vinylene) Copolymer Acting as Photocatalyst for Visible-Light-Powered NAD ⁺ /NADH Reduction. <i>Journal of the American Chemical Society</i> , 2014, 136, 12721-12729.	6.6	70
122	Photoelectrochemical and Electrochemical Characterization of Sub-Micro-Gram Amounts of Organic Semiconductors Using Scanning Droplet Cell Microscopy. <i>Journal of Physical Chemistry C</i> , 2014, 118, 16919-16926.	1.5	12
123	Photoelectrochemical water splitting in a tungsten oxide - nickel oxide thin film material library. <i>Electrochimica Acta</i> , 2014, 140, 275-281.	2.6	17
124	Electrochemistry on binary valve metal combinatorial libraries: niobium-tantalum thin films. <i>Electrochimica Acta</i> , 2014, 140, 366-375.	2.6	12
125	An electrochemical calibration unit for hydrogen analysers. <i>Talanta</i> , 2014, 125, 257-264.	2.9	5
126	Synthesis and characterization of Al _M G _Z n thin film alloys co-deposited from vapour phase. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1000-1005.	0.8	6

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127	Vapour phase co-deposition of Al-Cu thin film alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1006-1012.	0.8	18
128	A combinatorial properties study of thin film Al _{1-x} Fe alloys. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 1025-1029.	0.8	4
129	Surface patterned dielectrics by direct writing of anodic oxides using scanning droplet cell microscopy. <i>Electrochimica Acta</i> , 2013, 113, 755-761.	2.6	12
130	Electrochemical characterization of sub-micro-gram amounts of organic semiconductors using scanning droplet cell microscopy. <i>Journal of Electroanalytical Chemistry</i> , 2013, 691, 77-82.	1.9	22
131	Scanning droplet cell microscopy on a wide range hafnium-niobium thin film combinatorial library. <i>Electrochimica Acta</i> , 2013, 110, 539-549.	2.6	25
132	Characterization of local electrochemical doping of high performance conjugated polymer for photovoltaics using scanning droplet cell microscopy. <i>Electrochimica Acta</i> , 2013, 113, 834-839.	2.6	13
133	Epitaxial growth of zinc on ferritic steel under high current density electroplating conditions. <i>Electrochimica Acta</i> , 2013, 113, 797-802.	2.6	7
134	Tuning the Magnetic Properties of Metal Oxide Nanocrystal Heterostructures by Cation Exchange. <i>Nano Letters</i> , 2013, 13, 586-593.	4.5	91
135	Copper-zinc thin films reactively sputtered from a two-component sectioned cathode. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013, 210, 994-999.	0.8	4
136	Photoelectrochemical Scanning Droplet Cell Microscopy (PE-SDCM). <i>ChemPhysChem</i> , 2013, 14, 560-567.	1.0	27
137	Accelerated cathodic reaction in microbial corrosion of iron due to direct electron uptake by sulfate-reducing bacteria. <i>Corrosion Science</i> , 2013, 66, 88-96.	3.0	403
138	Localized Photoelectrochemistry on a Tungsten Oxide-Iron Oxide Thin Film Material Library. <i>ACS Combinatorial Science</i> , 2013, 15, 601-608.	3.8	26
139	Effects of thickness and field strength of anodic oxide film on aluminum on its compressive rupture. <i>Corrosion Reviews</i> , 2012, 30, .	1.0	2
140	In situ identification and quantification in a flow cell with AAS downstream analytics. <i>Journal of Solid State Electrochemistry</i> , 2012, 16, 3473-3478.	1.2	9
141	Surface and Coating Analysis of Press-Hardened Hot-Dip Galvanized Steel Sheet. <i>Steel Research International</i> , 2012, 83, 1005-1011.	1.0	26
142	Thermal stability of {110} facet terminated gold nanobelts. <i>Applied Surface Science</i> , 2012, 258, 6224-6231.	3.1	6
143	Corrosion of press-hardened galvanized steel. <i>Corrosion Science</i> , 2012, 63, 12-19.	3.0	73
144	Characterization of thin anodic oxides of Ti-Nb alloys by electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2012, 82, 324-332.	2.6	63

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145	Ultra-thin anodic alumina capacitor films for plastic electronics. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 813-818.	0.8	59
146	Biaxially textured copper-iron alloys for coated conductors. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 875-879.	0.8	14
147	Selective dissolution in AlFeNb alloys. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 854-858.	0.8	7
148	Back Cover: Ultra-thin anodic alumina capacitor films for plastic electronics (Phys. Status Solidi A) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	0
149	Marine sulfate-reducing bacteria cause serious corrosion of iron under electroconductive biogenic mineral crust. Environmental Microbiology, 2012, 14, 1772-1787.	1.8	324
150	Electrochemical texturing of Al-doped ZnO thin films for photovoltaic applications. Journal of Solid State Electrochemistry, 2012, 16, 283-290.	1.2	22
151	Combinatorial corrosion study of the passivation of aluminium copper alloys. Corrosion Science, 2011, 53, 1-6.	3.0	29
152	High throughput electrochemical screening and dissolution monitoring of Mg-Zn material libraries. Electrochimica Acta, 2011, 56, 9627-9636.	2.6	38
153	Enhancement of the Electrocatalytic Activity of Gold Nanoparticles Towards Methanol Oxidation. Electrocatalysis, 2011, 2, 106-113.	1.5	8
154	A novel concept for the preparation of alloy nanowires. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1259-1264.	0.8	5
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