

Wolfram FÃ¼rbeth

List of Publications by Year in descending order

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50
papers

1,165
citations

430874

18
h-index

395702

33
g-index

55
all docs

55
docs citations

55
times ranked

904
citing authors

#	ARTICLE	IF	CITATIONS
1	The delamination of polymeric coatings from electrogalvanized steel â€“ a mechanistic approach.. Corrosion Science, 2001, 43, 207-227.	6.6	172
2	The scanning Kelvin probe; a new technique for the in situ analysis of the delamination of organic coatings. Progress in Organic Coatings, 1996, 27, 261-267.	3.9	112
3	Scanning Kelvinprobe investigations on the delamination of polymeric coatings from metallic surfaces. Progress in Organic Coatings, 2000, 39, 23-29.	3.9	90
4	The delamination of polymeric coatings from electrogalvanized steel â€“ a mechanistic approach.. Corrosion Science, 2001, 43, 229-241.	6.6	87
5	First evaluation of the applicability of microbial extracellular polymeric substances for corrosion protection of metal substrates. Electrochimica Acta, 2008, 54, 91-99.	5.2	69
6	The delamination of polymeric coatings from electrogalvanized steel â€“ a mechanistic approach.. Corrosion Science, 2001, 43, 243-254.	6.6	59
7	Ultrasound enhanced friction stir welding of aluminum and steel: Process and properties of EN AW 6061/DC04-Joints. Journal of Materials Science and Technology, 2018, 34, 163-172.	10.7	52
8	Protection of galvanized steel from corrosion in NaCl solution by coverage with phytic acid SAM modified with some cations and thiols. Corrosion Science, 2012, 55, 339-350.	6.6	47
9	Influence of bacterial exopolymers on cell adhesion of <i>Desulfovibrio vulgaris</i> on high alloyed steel: Corrosion inhibition by extracellular polymeric substances (EPS). Materials and Corrosion - Werkstoffe Und Korrosion, 2010, 61, 1008-1016.	1.5	46
10	Investigation of the delamination of polymer films from galvanized steel with the Scanning Kelvinprobe. Fresenius' Journal of Analytical Chemistry, 1995, 353, 337-341.	1.5	39
11	Surface modification of Ti 13Nb 13Zr by plasma electrolytic oxidation. Surface and Coatings Technology, 2018, 335, 62-71.	4.8	35
12	Realization of Al/Mg-Hybrid-Joints by Ultrasound Supported Friction Stir Welding - Mechanical Properties, Microstructure and Corrosion Behavior. Advanced Materials Research, 0, 966-967, 521-535.	0.3	34
13	Formation of bioactive hydroxyapatite-containing titania coatings on CP-Ti 4+ alloy generated by plasma electrolytic oxidation. Surface and Coatings Technology, 2019, 363, 66-74.	4.8	28
14	Manufacturing and corrosion properties of ultrasound supported friction stir welded Al/Mgâ€“hybrid joints. Surface and Interface Analysis, 2016, 48, 843-852.	1.8	27
15	Formation and stability of organic acid monolayers on magnesium alloy AZ31: The role of alkyl chain length and head group chemistry. Applied Surface Science, 2013, 283, 339-347.	6.1	26
16	Progress in corrosion protection as a requirement for technical progress. Materials and Corrosion - Werkstoffe Und Korrosion, 2009, 60, 481-494.	1.5	23
17	Purely inorganic coatings based on nanoparticles for magnesium alloys. Electrochimica Acta, 2009, 54, 2478-2486.	5.2	23
18	Study of initial stages of Alâ€“Mg alloy corrosion in water, chloride and Cu(II) environment by a scanning Kelvin probe and XPS. Electrochemistry Communications, 2003, 5, 154-158.	4.7	20

#	ARTICLE	IF	CITATIONS
19	Title is missing!. Macromolecular Symposia, 2002, 187, 65-76.	0.7	18
20	Nanoparticle based inorganic coatings for corrosion protection of magnesium alloys. Surface Engineering, 2008, 24, 198-203.	2.2	17
21	Novel Steel Corrosion Protection by Microbial Extracellular Polymeric Substances (EPS) â€“ Biofilm-Induced Corrosion Inhibition. Advanced Materials Research, 2007, 20-21, 375-378.	0.3	16
22	Study of initial stages of Alâ€“Mg alloy corrosion in water, chloride and Cu(II) environment by a scanning Kelvin probe. Corrosion Science, 2003, 45, 1939-1950.	6.6	13
23	Adsorption and characterization of molecular adhesion promoter monolayers on iron surfaces under UHV conditions. Fresenius' Journal of Analytical Chemistry, 1995, 353, 657-660.	1.5	12
24	Interplay between parameter variation and oxide structure of a modified PAA process. Surface and Interface Analysis, 2013, 45, 1503-1509.	1.8	11
25	Electrochemical Behaviour of Iron in a Thirdâ€“Generation Ionic Liquid: Cyclic Voltammetry and Micromachining Investigations. ChemPhysChem, 2009, 10, 3090-3096.	2.1	9
26	Application of the hybrid process ultrasound enhanced friction stir welding on dissimilar aluminum/dualâ€“phase steel and aluminum/magnesium joints. Materialwissenschaft Und Werkstofftechnik, 2019, 50, 893-912.	0.9	9
27	Particle reinforced open porous anodizing layers on AA5005. Materials and Corrosion - Werkstoffe Und Korrosion, 2017, 68, 1090-1098.	1.5	7
28	Nanoâ€“sized zeolite particles as inhibitor carrier in plasma electrolytic oxide layers on AZ31. Materials and Corrosion - Werkstoffe Und Korrosion, 2018, 69, 971-977.	1.5	7
29	Influence of Process Parameters on the Tribological Behavior of PEO Coatings on CP-Titanium 4+ Alloys for Biomedical Applications. Materials, 2021, 14, 5364.	2.9	7
30	Recent Developments for Ultrasonic-Assisted Friction Stir Welding: Joining, Testing, Corrosion - an Overview. IOP Conference Series: Materials Science and Engineering, 2016, 118, 012014.	0.6	6
31	Hybrid joints of die-casted aluminum/magnesium by ultrasound enhanced friction stir welding (USE-FSW). Welding in the World, Le Soudage Dans Le Monde, 2019, 63, 1173-1186.	2.5	6
32	The Influence of Ultrasound Enhancement during Friction Stir Welding of Aluminum to Steel. Key Engineering Materials, 0, 767, 351-359.	0.4	4
33	Novel corrosion protective coatings for aluminium alloys and steels based on oxidic nanoparticles. International Journal of Materials Research, 2007, 98, 589-596.	0.3	3
34	Biofilm Formation and Stainless Steel Corrosion Analysis of <i>Leptothrix discophora </i>. Advanced Materials Research, 2015, 1130, 79-82.	0.3	3
35	Nanoparticle-based impregnation of chromate-free anodizing layers for corrosion protection and adhesive bonding. Surface and Coatings Technology, 2018, 348, 121-129.	4.8	3
36	Effect of AC interference on the corrosion behavior of cathodically protected mild steel in an artificial soil solution. Part I: Investigation on formed corrosion product layer. Materials and Corrosion - Werkstoffe Und Korrosion, 2022, 73, 45-54.	1.5	3

#	ARTICLE	IF	CITATIONS
37	Novel repair method for technical enamels based on sol-gel and sol-dispersion coatings. Materials and Corrosion - Werkstoffe Und Korrosion, 2008, 59, 167-174.	1.5	2
38	Effect of nano-particulate sol-gel coatings on the oxidation resistance of high-strength steel alloys during the press-hardening process. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, 940-947.	1.5	2
39	Oxidation of neodymium precipitates in a Ti6Al4V2Nd alloy in sodium chloride solution. Materials and Corrosion - Werkstoffe Und Korrosion, 2016, 67, 277-285.	1.5	2
40	Hybrid Al/steel-joints manufactured by ultrasound enhanced friction stir welding (USE-FSW): Process comparison, nondestructive testing and microscopic analysis. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012003.	0.6	2
41	Influence of La-Content and Microstructure on the Corrosion Properties of a New Free Machining Titanium Alloy. ECS Transactions, 2009, 25, 3-15.	0.5	1
42	Oxidation of surface lanthanum precipitates in a free-machining titanium alloy investigated by in situ AFM and cyclic voltammetry. Materials and Corrosion - Werkstoffe Und Korrosion, 2014, 65, 425-430.	1.5	1
43	Hybrid joints manufactured by ultrasound enhanced friction stir welding (USE-FSW) - corrosion properties. IOP Conference Series: Materials Science and Engineering, 2017, 181, 012004.	0.6	1
44	Korrosionsbeständige mikroverfahrenstechnische Apparate durch CVD-Beschichtung mit Tantal. Chemie-Ingenieur-Technik, 2018, 90, 1037-1046.	0.8	1
45	Ultrasound Enhanced Friction Stir Welding (USE-FSW) of Hybrid Aluminum/Steel Joints. Minerals, Metals and Materials Series, 2019, , 23-32.	0.4	1
46	Investigations on Corrosion Properties of Ultrasound-Enhanced Friction-Stir-Welded Aluminum/Dual-Phase Steel Joints. Steel Research International, 2021, 92, 2100249.	1.8	1
47	Influence of La-Content and Microstructure on the Corrosion Properties of a New Free Machining Titanium Alloy. ECS Meeting Abstracts, 2009, , .	0.0	0
48	Thin, Nanoparticulate Coatings for the Improvement of the Corrosion and Passivation Behavior of AZ Magnesium Alloys. Advanced Materials Research, 2010, 138, 47-53.	0.3	0
49	A tribute to Professor Dr.-Ing. Michael Schä¼tze on the occasion of his 60th birthday. Materials and Corrosion - Werkstoffe Und Korrosion, 2012, 63, 855-856.	1.5	0
50	Modification of Anodic Layers On Aluminum Alloys To Improve Corrosion Resistance And Adhesion Properties. ECS Meeting Abstracts, 2009, , .	0.0	0