Kiryl A Yasakau

List of Publications by Year
in descending order

59 papers	5,494 citations	147801 31 h-index	197818 49 g-index
59 all docs	59 docs citations	59 times ranked	3393 citing authors

#	Article	IF	Citations
1	A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings. Critical Reviews in Solid State and Materials Sciences, 2022, 47, 309-355.	12.3	45
2	The effect of carboxylate compounds on Volta potential and corrosion inhibition of Mg containing different levels of iron. Corrosion Science, 2022, 194, 109937.	6.6	25
3	Mechanism of LDH Direct Growth on Aluminum Alloy Surface: A Kinetic and Morphological Approach. Journal of Physical Chemistry C, 2021, 125, 11687-11701.	3.1	15
4	A critical look at interpretation of electrochemical impedance spectra of sol-gel coated aluminium. Electrochimica Acta, 2021, 378, 138091.	5.2	10
5	Sacrificial protection of Mg-based resorbable implant alloy by magnetron sputtered Mg5Gd alloy coating: A short-term study. Corrosion Science, 2021, 189, 109590.	6.6	9
6	Zn-Al LDH growth on AA2024 and zinc and their intercalation with chloride: Comparison of crystal structure and kinetics. Applied Surface Science, 2020, 501, 144027.	6.1	41
7	Anticorrosion thin film smart coatings for aluminum alloys. , 2020, , 429-454.		6
8	Application of AFM-Based Techniques in Studies of Corrosion and Corrosion Inhibition of Metallic Alloys. Corrosion and Materials Degradation, 2020, 1, 345-372.	2.4	22
9	In situ kinetics studies of Znâ€“Al LDH intercalation with corrosion related species. Physical Chemistry Chemical Physics, 2020, 22, 17574-17586.	2.8	16
10	Corrosion behavior of AA2024-T6 and AA6065-T6 alloys in reline. Electrochimica Acta, 2020, 357, 136861.	5.2	6
11	In situ surface film evolution during Mg aqueous corrosion in presence of selected carboxylates. Corrosion Science, 2020, 171, 108484.	6.6	32
12	Effects of combined addition of Ca and Y on the corrosion behaviours of die-cast AZ91D magnesium alloy. Corrosion Science, 2020, 166, 108451.	6.6	56
13	One-step synthesis and growth mechanism of nitrate intercalated ZnAl LDH conversion coatings on zinc. Chemical Communications, 2019, 55, 6878-6881.	4.1	36
14	Modification of carbon fibre reinforced polymer (CFRP) surface with sodium dodecyl sulphate for mitigation of cathodic activity. Applied Surface Science, 2019, 478, 924-936.	6.1	17
15	Role of intermetallics in corrosion of aluminum alloys. Smart corrosion protection. , 2018, , 425-462.		41
16	Corrosion inhibition of pure Mg containing a high level of iron impurity in pH neutral NaCl solution. Corrosion Science, 2018, 142, 222-237.	6.6	72
17	Corrosion and Corrosion Protection of Aluminum Alloys. , 2018, , 115-127.		7
18	A novel bilayer system comprising LDH conversion layer and sol-gel coating for active corrosion protection of AA2024. Corrosion Science, 2018, 143, 299-313.	6.6	76

#	Article	IF	Citations
19	Sol-Gel Coatings with Nanocontainers of Corrosion Inhibitors for Active Corrosion Protection of Metallic Materials. , 2018, , 2435-2471.		1
20	Effect of the Anodic Titania Layer Thickness on Electrodeposition of Zinc on Ti/TiO₂from Deep Eutectic Solvent. Journal of the Electrochemical Society, 2017, 164, D88-D94.	2.9	7
21	Characterization and corrosion behavior of binary Mg-Ga alloys. Materials Characterization, 2017, 128, 85-99.	4.4	50
22	Kelvin Microprobe Analytics on Iron-Enriched Corroded Magnesium Surface. Corrosion, 2017, 73, 583-595.	1.1	13
23	Sol-Gel Coatings with Nanocontainers of Corrosion Inhibitors for Active Corrosion Protection of Metallic Materials. , 2017, , 1-37.		3
24	Influence of stripping and cooling atmospheres on surface properties and corrosion of zinc galvanizing coatings. Applied Surface Science, 2016, 389, 144-156.	6.1	26
25	Initial stages of localized corrosion at cut-edges of adhesively bonded Zn and Zn-Al-Mg galvanized steel. Electrochimica Acta, 2016, 211, 126-141.	5.2	33
26	Active corrosion protection coating for a ZE41 magnesium alloy created by combining PEO and solâ€“gel techniques. RSC Advances, 2016, 6, 12553-12560.	3.6	84
27	Corrosion protection of AA2024 by solâ€“gel coatings modified with MBT-loaded polyurea microcapsules. Chemical Engineering Journal, 2016, 283, 1108-1117.	12.7	103
28	Sol-Gel Coatings with Nanocontainers of Corrosion Inhibitors for Active Corrosion Protection of Metallic Materials. , 2016, , 1-37.		0
29	Influence of sol-gel process parameters on the protection properties of solâ€“gel coatings applied on AA2024. Surface and Coatings Technology, 2014, 246, 6-16.	4.8	48
30	Active Corrosion Protection by Nanoparticles and Conversion Films of Layered Double Hydroxides. Corrosion, 2014, 70, 436-445.	1.1	22
31	Smart self-healing coatings for corrosion protection of aluminium alloys. , 2014, , 224-274.		12
32	Novel and self-healing anticorrosion coatings using rare earth compounds. , 2014, , 233-266.		7
33	Active corrosion protection of AA2024 by solâ€“gel coatings with cerium molybdate nanowires. Electrochimica Acta, 2013, 112, 236-246.	5.2	78
34	Mechanisms of Localized Corrosion Inhibition of AA2024 by Cerium Molybdate Nanowires. Journal of Physical Chemistry C, 2013, 117, 5811-5823.	3.1	30
35	Self-healing nanocoatings for corrosion control. , 2012, , 213-263.		13
36	Cerium molybdate nanowires for active corrosion protection of aluminium alloys. Corrosion Science, 2012, 58, 41-51.	6.6	44

#	Article	IF	Citations
37	Synergistic corrosion inhibition on galvanically coupled metallic materials. Electrochemistry Communications, 2012, 20, 101-104.	4.7	75
38	Localised Measurements of pH and Dissolved Oxygen as Complements to SVET in the Investigation of Corrosion at Defects in Coated Aluminum Alloy. Electroanalysis, 2010, 22, 2009-2016.	2.9	43
39	Volta Potential of Oxidized Aluminum Studied by Scanning Kelvin Probe Force Microscopy. Journal of Physical Chemistry C, 2010, 114, 8474-8484.	3.1	27
40	The synergistic combination of bis-silane and CeO2Â·ZrO2 nanoparticles on the electrochemical behaviour of galvanised steel in NaCl solutions. Electrochimica Acta, 2008, 53, 5913-5922.	5.2	120
41	Influence of inhibitor addition on the corrosion protection performance of solâ€“gel coatings on AA2024. Progress in Organic Coatings, 2008, 63, 352-361.	3.9	181
42	Preparation and corrosion protective properties of nanostructured titania-containing hybrid solâ€“gel coatings on AA2024. Progress in Organic Coatings, 2008, 62, 226-235.	3.9	73
43	Active Anticorrosion Coatings with Halloysite Nanocontainers. Journal of Physical Chemistry C, 2008, 112, 958-964.	3.1	340
44	Lanthanide Salts as Corrosion Inhibitors for AA5083. Mechanism and Efficiency of Corrosion Inhibition. Journal of the Electrochemical Society, 2008, 155, C169.	2.9	48
45	Study of the Corrosion Mechanism and Corrosion Inhibition of 2024 Aluminum Alloy by SKPFM Technique. Materials Science Forum, 2008, 587-588, 405-409.	0.3	7
46	Anticorrosion Coatings with Self-Healing Effect Based on Nanocontainers Impregnated with Corrosion Inhibitor. Chemistry of Materials, 2007, 19, 402-411.	6.7	556
47	AFM Study of the Corrosion of Pipeline Steel in Organic Compounds Extracted from Soil. ECS Transactions, 2007, 11, 107-119.	0.5	1
48	High effective organic corrosion inhibitors for 2024 aluminium alloy. Electrochimica Acta, 2007, 52, 7231-7247.	5.2	287
49	On the application of electrochemical impedance spectroscopy to study the self-healing properties of protective coatings. Electrochemistry Communications, 2007, 9, 2622-2628.	4.7	123
50	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. Progress in Organic Coatings, 2007, 58, 127-135.	3.9	280
51	Surface evaluation and electrochemical behaviour of doped silane pre-treatments on galvanised steel substrates. Progress in Organic Coatings, 2007, 59, 214-223.	3.9	45
52	Role of intermetallic phases in localized corrosion of AA5083. Electrochimica Acta, 2007, 52, 7651-7659.	5.2	267
53	Mechanism of Corrosion Inhibition of AA2024 by Rare-Earth Compounds. Journal of Physical Chemistry B, 2006, 110, 5515-5528.	2.6	315
54	TiOx self-assembled networks prepared by templating approach as nanostructured reservoirs for self-healing anticorrosion pre-treatments. Electrochemistry Communications, 2006, 8, 421-428.	4.7	116

#	Article	IF	Citations
55	Layer-by-Layer Assembled Nanocontainers for Self-Healing Corrosion Protection. Advanced Materials, 2006, 18, 1672-1678.	21.0	653
56	Two Thermodynamics-Based Approaches to Atomic Oxygen Sensing. Journal of Spacecraft and Rockets, 2006, 43, 426-430.	1.9	0
57	Nanostructured solâ€“gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. Electrochimica Acta, 2005, 51, 208-217.	5.2	498
58	Triazole and thiazole derivatives as corrosion inhibitors for AA2024 aluminium alloy. Corrosion Science, 2005, 47, 3368-3383.	6.6	324
59	Influence of Oxygen Dissociation on the Oxidation of Iron. Oxidation of Metals, 2004, 62, 223-235.	2.1	9