

Kiryl A Yasakau

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8902465/publications.pdf>

Version: 2024-02-01

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	Layer-by-Layer Assembled Nanocontainers for Self-Healing Corrosion Protection. <i>Advanced Materials</i> , 2006, 18, 1672-1678.	21.0	653
2	Anticorrosion Coatings with Self-Healing Effect Based on Nanocontainers Impregnated with Corrosion Inhibitor. <i>Chemistry of Materials</i> , 2007, 19, 402-411.	6.7	556
3	Nanostructured sol-gel coatings doped with cerium nitrate as pre-treatments for AA2024-T3. <i>Electrochimica Acta</i> , 2005, 51, 208-217.	5.2	498
4	Active Anticorrosion Coatings with Halloysite Nanocontainers. <i>Journal of Physical Chemistry C</i> , 2008, 112, 958-964.	3.1	340
5	Triazole and thiazole derivatives as corrosion inhibitors for AA2024 aluminium alloy. <i>Corrosion Science</i> , 2005, 47, 3368-3383.	6.6	324
6	Mechanism of Corrosion Inhibition of AA2024 by Rare-Earth Compounds. <i>Journal of Physical Chemistry B</i> , 2006, 110, 5515-5528.	2.6	315
7	High effective organic corrosion inhibitors for 2024 aluminium alloy. <i>Electrochimica Acta</i> , 2007, 52, 7231-7247.	5.2	287
8	Nanoporous titania interlayer as reservoir of corrosion inhibitors for coatings with self-healing ability. <i>Progress in Organic Coatings</i> , 2007, 58, 127-135.	3.9	280
9	Role of intermetallic phases in localized corrosion of AA5083. <i>Electrochimica Acta</i> , 2007, 52, 7651-7659.	5.2	267
10	Influence of inhibitor addition on the corrosion protection performance of sol-gel coatings on AA2024. <i>Progress in Organic Coatings</i> , 2008, 63, 352-361.	3.9	181
11	On the application of electrochemical impedance spectroscopy to study the self-healing properties of protective coatings. <i>Electrochemistry Communications</i> , 2007, 9, 2622-2628.	4.7	123
12	The synergistic combination of bis-silane and CeO ₂ -ZrO ₂ nanoparticles on the electrochemical behaviour of galvanised steel in NaCl solutions. <i>Electrochimica Acta</i> , 2008, 53, 5913-5922.	5.2	120
13	TiO _x self-assembled networks prepared by templating approach as nanostructured reservoirs for self-healing anticorrosion pre-treatments. <i>Electrochemistry Communications</i> , 2006, 8, 421-428.	4.7	116
14	Corrosion protection of AA2024 by sol-gel coatings modified with MBT-loaded polyurea microcapsules. <i>Chemical Engineering Journal</i> , 2016, 283, 1108-1117.	12.7	103
15	Active corrosion protection coating for a ZE41 magnesium alloy created by combining PEO and sol-gel techniques. <i>RSC Advances</i> , 2016, 6, 12553-12560.	3.6	84
16	Active corrosion protection of AA2024 by sol-gel coatings with cerium molybdate nanowires. <i>Electrochimica Acta</i> , 2013, 112, 236-246.	5.2	78
17	A novel bilayer system comprising LDH conversion layer and sol-gel coating for active corrosion protection of AA2024. <i>Corrosion Science</i> , 2018, 143, 299-313.	6.6	76
18	Synergistic corrosion inhibition on galvanically coupled metallic materials. <i>Electrochemistry Communications</i> , 2012, 20, 101-104.	4.7	75

#	ARTICLE	IF	CITATIONS
19	Preparation and corrosion protective properties of nanostructured titania-containing hybrid sol-gel coatings on AA2024. <i>Progress in Organic Coatings</i> , 2008, 62, 226-235.	3.9	73
20	Corrosion inhibition of pure Mg containing a high level of iron impurity in pH neutral NaCl solution. <i>Corrosion Science</i> , 2018, 142, 222-237.	6.6	72
21	Effects of combined addition of Ca and Y on the corrosion behaviours of die-cast AZ91D magnesium alloy. <i>Corrosion Science</i> , 2020, 166, 108451.	6.6	56
22	Characterization and corrosion behavior of binary Mg-Ga alloys. <i>Materials Characterization</i> , 2017, 128, 85-99.	4.4	50
23	Lanthanide Salts as Corrosion Inhibitors for AA5083. Mechanism and Efficiency of Corrosion Inhibition. <i>Journal of the Electrochemical Society</i> , 2008, 155, C169.	2.9	48
24	Influence of sol-gel process parameters on the protection properties of sol-gel coatings applied on AA2024. <i>Surface and Coatings Technology</i> , 2014, 246, 6-16.	4.8	48
25	Surface evaluation and electrochemical behaviour of doped silane pre-treatments on galvanised steel substrates. <i>Progress in Organic Coatings</i> , 2007, 59, 214-223.	3.9	45
26	A critical review on the production and application of graphene and graphene-based materials in anti-corrosion coatings. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2022, 47, 309-355.	12.3	45
27	Cerium molybdate nanowires for active corrosion protection of aluminium alloys. <i>Corrosion Science</i> , 2012, 58, 41-51.	6.6	44
28	Localised Measurements of pH and Dissolved Oxygen as Complements to SVET in the Investigation of Corrosion at Defects in Coated Aluminum Alloy. <i>Electroanalysis</i> , 2010, 22, 2009-2016.	2.9	43
29	Role of intermetallics in corrosion of aluminum alloys. <i>Smart corrosion protection.</i> , 2018, , 425-462.		41
30	Zn-Al LDH growth on AA2024 and zinc and their intercalation with chloride: Comparison of crystal structure and kinetics. <i>Applied Surface Science</i> , 2020, 501, 144027.	6.1	41
31	One-step synthesis and growth mechanism of nitrate intercalated ZnAl LDH conversion coatings on zinc. <i>Chemical Communications</i> , 2019, 55, 6878-6881.	4.1	36
32	Initial stages of localized corrosion at cut-edges of adhesively bonded Zn and Zn-Al-Mg galvanized steel. <i>Electrochimica Acta</i> , 2016, 211, 126-141.	5.2	33
33	In situ surface film evolution during Mg aqueous corrosion in presence of selected carboxylates. <i>Corrosion Science</i> , 2020, 171, 108484.	6.6	32
34	Mechanisms of Localized Corrosion Inhibition of AA2024 by Cerium Molybdate Nanowires. <i>Journal of Physical Chemistry C</i> , 2013, 117, 5811-5823.	3.1	30
35	Volta Potential of Oxidized Aluminum Studied by Scanning Kelvin Probe Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2010, 114, 8474-8484.	3.1	27
36	Influence of stripping and cooling atmospheres on surface properties and corrosion of zinc galvanizing coatings. <i>Applied Surface Science</i> , 2016, 389, 144-156.	6.1	26

#	ARTICLE	IF	CITATIONS
37	The effect of carboxylate compounds on Volta potential and corrosion inhibition of Mg containing different levels of iron. <i>Corrosion Science</i> , 2022, 194, 109937.	6.6	25
38	Active Corrosion Protection by Nanoparticles and Conversion Films of Layered Double Hydroxides. <i>Corrosion</i> , 2014, 70, 436-445.	1.1	22
39	Application of AFM-Based Techniques in Studies of Corrosion and Corrosion Inhibition of Metallic Alloys. <i>Corrosion and Materials Degradation</i> , 2020, 1, 345-372.	2.4	22
40	Modification of carbon fibre reinforced polymer (CFRP) surface with sodium dodecyl sulphate for mitigation of cathodic activity. <i>Applied Surface Science</i> , 2019, 478, 924-936.	6.1	17
41	<i>In situ</i> kinetics studies of Zn-Al LDH intercalation with corrosion related species. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 17574-17586.	2.8	16
42	Mechanism of LDH Direct Growth on Aluminum Alloy Surface: A Kinetic and Morphological Approach. <i>Journal of Physical Chemistry C</i> , 2021, 125, 11687-11701.	3.1	15
43	Self-healing nanocoatings for corrosion control. , 2012, , 213-263.		13
44	Kelvin Microprobe Analytics on Iron-Enriched Corroded Magnesium Surface. <i>Corrosion</i> , 2017, 73, 583-595.	1.1	13
45	Smart self-healing coatings for corrosion protection of aluminium alloys. , 2014, , 224-274.		12
46	A critical look at interpretation of electrochemical impedance spectra of sol-gel coated aluminium. <i>Electrochimica Acta</i> , 2021, 378, 138091.	5.2	10
47	Influence of Oxygen Dissociation on the Oxidation of Iron. <i>Oxidation of Metals</i> , 2004, 62, 223-235.	2.1	9
48	Sacrificial protection of Mg-based resorbable implant alloy by magnetron sputtered Mg5Gd alloy coating: A short-term study. <i>Corrosion Science</i> , 2021, 189, 109590.	6.6	9
49	Study of the Corrosion Mechanism and Corrosion Inhibition of 2024 Aluminum Alloy by SKPFM Technique. <i>Materials Science Forum</i> , 2008, 587-588, 405-409.	0.3	7
50	Novel and self-healing anticorrosion coatings using rare earth compounds. , 2014, , 233-266.		7
51	Effect of the Anodic Titania Layer Thickness on Electrodeposition of Zinc on Ti/TiO ₂ from Deep Eutectic Solvent. <i>Journal of the Electrochemical Society</i> , 2017, 164, D88-D94.	2.9	7
52	Corrosion and Corrosion Protection of Aluminum Alloys. , 2018, , 115-127.		7
53	Anticorrosion thin film smart coatings for aluminum alloys. , 2020, , 429-454.		6
54	Corrosion behavior of AA2024-T6 and AA6065-T6 alloys in relene. <i>Electrochimica Acta</i> , 2020, 357, 136861.	5.2	6

#	ARTICLE	IF	CITATIONS
55	Sol-Gel Coatings with Nanocontainers of Corrosion Inhibitors for Active Corrosion Protection of Metallic Materials. , 2017, , 1-37.		3
56	AFM Study of the Corrosion of Pipeline Steel in Organic Compounds Extracted from Soil. ECS Transactions, 2007, 11, 107-119.	0.5	1
57	Sol-Gel Coatings with Nanocontainers of Corrosion Inhibitors for Active Corrosion Protection of Metallic Materials. , 2018, , 2435-2471.		1
58	Two Thermodynamics-Based Approaches to Atomic Oxygen Sensing. Journal of Spacecraft and Rockets, 2006, 43, 426-430.	1.9	0
59	Sol-Gel Coatings with Nanocontainers of Corrosion Inhibitors for Active Corrosion Protection of Metallic Materials. , 2016, , 1-37.		0