

Darya Snihirova

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

2,870
citations

201575

27
h-index

345118

36
g-index

40
all docs

40
docs citations

40
times ranked

1611
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of self-healing ability in protective coatings modified with combinations of layered double hydroxides and cerium molybdate nanocontainers filled with corrosion inhibitors. <i>Electrochimica Acta</i> , 2012, 60, 31-40.	2.6	263
2	Zn-Al layered double hydroxides as chloride nanotraps in active protective coatings. <i>Corrosion Science</i> , 2012, 55, 1-4.	3.0	242
3	Mg-Ca binary alloys as anodes for primary Mg-air batteries. <i>Journal of Power Sources</i> , 2018, 396, 109-118.	4.0	193
4	Hydroxyapatite Microparticles as Feedback-Active Reservoirs of Corrosion Inhibitors. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3011-3022.	4.0	187
5	“SMART”-protective ability of water based epoxy coatings loaded with CaCO ₃ microbeads impregnated with corrosion inhibitors applied on AA2024 substrates. <i>Electrochimica Acta</i> , 2012, 83, 439-447.	2.6	177
6	Hybrid epoxy-silane coatings for improved corrosion protection of Mg alloy. <i>Corrosion Science</i> , 2013, 67, 82-90.	3.0	162
7	Complex anticorrosion coating for ZK30 magnesium alloy. <i>Electrochimica Acta</i> , 2009, 55, 131-141.	2.6	145
8	Self healing ability of inhibitor-containing nanocapsules loaded in epoxy coatings applied on aluminium 5083 and galvaneal substrates. <i>Electrochimica Acta</i> , 2014, 140, 282-293.	2.6	114
9	The combined use of scanning vibrating electrode technique and micro-potentiometry to assess the self-repair processes in defects on “smart”-coatings applied to galvanized steel. <i>Electrochimica Acta</i> , 2011, 56, 4475-4488.	2.6	111
10	Corrosion protection properties of inhibitor containing hybrid PEO-epoxy coating on magnesium. <i>Corrosion Science</i> , 2018, 140, 99-110.	3.0	103
11	Clarifying the decisive factors for utilization efficiency of Mg anodes for primary aqueous batteries. <i>Journal of Power Sources</i> , 2019, 441, 227201.	4.0	86
12	pH-sensitive polymeric particles with increased inhibitor-loading capacity as smart additives for corrosion protective coatings for AA2024. <i>Electrochimica Acta</i> , 2014, 145, 123-131.	2.6	85
13	Multifunctional epoxy coatings combining a mixture of traps and inhibitor loaded nanocontainers for corrosion protection of AA2024-T3. <i>Corrosion Science</i> , 2014, 85, 147-159.	3.0	82
14	Comparison of the synergistic effects of inhibitor mixtures tailored for enhanced corrosion protection of bare and coated AA2024-T3. <i>Surface and Coatings Technology</i> , 2016, 303, 342-351.	2.2	76
15	Ca/In micro alloying as a novel strategy to simultaneously enhance power and energy density of primary Mg-air batteries from anode aspect. <i>Journal of Power Sources</i> , 2020, 472, 228528.	4.0	76
16	Approaching “stainless magnesium” by Ca micro-alloying. <i>Materials Horizons</i> , 2021, 8, 589-596.	6.4	76
17	Insight into physical interpretation of high frequency time constant in electrochemical impedance spectra of Mg. <i>Corrosion Science</i> , 2021, 187, 109501.	3.0	64
18	Corrosion inhibition synergies on a model Al-Cu-Mg sample studied by localized scanning electrochemical techniques. <i>Corrosion Science</i> , 2016, 112, 408-417.	3.0	61

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19	High-energy and durable aqueous magnesium batteries: Recent advances and perspectives. <i>Energy Storage Materials</i> , 2021, 43, 238-247.	9.5	54
20	Corrosion and discharge properties of Ca/Ge micro-alloyed Mg anodes for primary aqueous Mg batteries. <i>Corrosion Science</i> , 2020, 177, 108958.	3.0	53
21	Galvanic corrosion of Ti6Al4V-AA2024 joints in aircraft environment: Modelling and experimental validation. <i>Corrosion Science</i> , 2019, 157, 70-78.	3.0	51
22	Improving the corrosion protection properties of organically modified silicate-epoxy coatings by incorporation of organic and inorganic inhibitors. <i>Progress in Organic Coatings</i> , 2011, 72, 653-662.	1.9	48
23	Electrochemical study of the corrosion inhibition ability of smart-coatings applied on AA2024. <i>Journal of Solid State Electrochemistry</i> , 2013, 17, 2183-2192.	1.2	44
24	Smart composite coatings for corrosion protection of aluminium alloys in aerospace applications. , 2016, , 85-121.		39
25	Tailoring electrolyte additives for controlled Mg-Ca anode activity in aqueous Mg-air batteries. <i>Journal of Power Sources</i> , 2020, 460, 228106.	4.0	37
26	Tailoring the Mg-air primary battery performance using strong complexing agents as electrolyte additives. <i>Journal of Power Sources</i> , 2020, 453, 227880.	4.0	36
27	Localised corrosion assesement of crambe-oil-based polyurethane coatings applied on the ASTM 1200 aluminum alloy. <i>Corrosion Science</i> , 2016, 111, 422-435.	3.0	31
28	Synergistic Mixture of Electrolyte Additives: A Route to a High-Efficiency Mg-Air Battery. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8790-8798.	2.1	29
29	H ⁺ -selective microelectrodes with optimized measuring range for corrosion studies. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 967-975.	4.0	26
30	Indium chloride as an electrolyte additive for primary aqueous Mg batteries. <i>Electrochimica Acta</i> , 2021, 373, 137916.	2.6	26
31	Revealing physical interpretation of time constants in electrochemical impedance spectra of Mg via Tribo-EIS measurements. <i>Electrochimica Acta</i> , 2022, 404, 139582.	2.6	23
32	Enhancement of discharge performance for aqueous Mg-air batteries in 2,6-dihydroxybenzoate-containing electrolyte. <i>Chemical Engineering Journal</i> , 2022, 429, 132369.	6.6	22
33	Influence of inhibitor adsorption on readings of microelectrode during SVET measurements. <i>Electrochimica Acta</i> , 2019, 322, 134761.	2.6	14
34	Exploring the effect of sodium salt of Ethylenediaminetetraacetic acid as an electrolyte additive on electrochemical behavior of a commercially pure Mg in primary Mg-air batteries. <i>Journal of Power Sources</i> , 2022, 527, 231176.	4.0	13
35	Low interfacial pH discloses the favorable biodegradability of several Mg alloys. <i>Corrosion Science</i> , 2022, 197, 110059.	3.0	9
36	CHAPTER 12. Aqueous Mg Batteries. <i>RSC Energy and Environment Series</i> , 2019, , 275-308.	0.2	6

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37	A mathematical model describing the surface evolution of Mg anode during discharge of aqueous Mg-air battery. Journal of Power Sources, 2022, 542, 231745.	4.0	6
38	Evaluation of the Self Healing Ability of Organic Coatings Modified with Smart Nanocontainers Loaded with Corrosion Inhibitors Applied on Metallic Substrates Used in the Transportation Industry. ECS Meeting Abstracts, 2011, , .	0.0	0
39	Exploring the Effect of Strong Complexing Agents As Electrolyte Additives on Anode Performance in Mg-Air Primary Batteries. ECS Meeting Abstracts, 2019, , .	0.0	0