Darya Snihirova

List of Publications by Year
in descending order

39	2,870	201674	345221
papers	citations	27 h-index	36 g-index

40	40	40	1611
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Enhancement of discharge performance for aqueous Mg-air batteries in 2,6-dihydroxybenzoate-containing electrolyte. Chemical Engineering Journal, 2022, 429, 132369.	12.7	22
2	Revealing physical interpretation of time constants in electrochemical impedance spectra of Mg via Tribo-EIS measurements. Electrochimica Acta, 2022, 404, 139582.	5.2	23
3	Low interfacial pH discloses the favorable biodegradability of several Mg alloys. Corrosion Science, 2022, 197, 110059.	6.6	9
4	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. Journal of Power Sources, 2022, 527, 231176.	7.8	13
5	A mathematical model describing the surface evolution of Mg anode during discharge of aqueous Mg-air battery. Journal of Power Sources, 2022, 542, 231745.	7.8	6
6	Approaching â€œstainless magnesiumâ€•by Ca micro-alloying. Materials Horizons, 2021, 8, 589-596.	12.2	76
7	Indium chloride as an electrolyte additive for primary aqueous Mg batteries. Electrochimica Acta, 2021, 373, 137916.	5.2	26
8	Insight into physical interpretation of high frequency time constant in electrochemical impedance spectra of Mg. Corrosion Science, 2021, 187, 109501.	6.6	64
9	High-energy and durable aqueous magnesium batteries: Recent advances and perspectives. Energy Storage Materials, 2021, 43, 238-247.	18.0	54
10	Synergistic Mixture of Electrolyte Additives: A Route to a High-Efficiency Mgâ€“Air Battery. Journal of Physical Chemistry Letters, 2020, 11, 8790-8798.	4.6	29
11	Corrosion and discharge properties of Ca/Ge micro-alloyed Mg anodes for primary aqueous Mg batteries. Corrosion Science, 2020, 177, 108958.	6.6	53
12	Tailoring the Mg-air primary battery performance using strong complexing agents as electrolyte additives. Journal of Power Sources, 2020, 453, 227880.	7.8	36
13	Ca/In micro alloying as a novel strategy to simultaneously enhance power and energy density of primary Mg-air batteries from anode aspect. Journal of Power Sources, 2020, 472, 228528.	7.8	76
14	Tailoring electrolyte additives for controlled Mg-Ca anode activity in aqueous Mg-air batteries. Journal of Power Sources, 2020, 460, 228106.	7.8	37
15	Clarifying the decisive factors for utilization efficiency of Mg anodes for primary aqueous batteries. Journal of Power Sources, 2019, 441, 227201.	7.8	86
16	Influence of inhibitor adsorption on readings of microelectrode during SVET measurements. Electrochimica Acta, 2019, 322, 134761.	5.2	14
17	Galvanic corrosion of Ti6Al4V -AA2024 joints in aircraft environment: Modelling and experimental validation. Corrosion Science, 2019, 157, 70-78.	6.6	51
18	CHAPTER 12. Aqueous Mg Batteries. RSC Energy and Environment Series, 2019, , 275-308.	0.5	6

#	Article	IF	Citations
19	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
20	Mg-Ca binary alloys as anodes for primary Mg-air batteries. Journal of Power Sources, 2018, 396, 109-118.	7.8	193
21	Corrosion protection properties of inhibitor containing hybrid PEO-epoxy coating on magnesium. Corrosion Science, 2018, 140, 99-110.	6.6	103
22	Localised corrosion assessement of crambe-oil-based polyurethane coatings applied on the ASTM 1200 aluminum alloy. Corrosion Science, 2016, 111, 422-435.	6.6	31
23	Corrosion inhibition synergies on a model Al-Cu-Mg sample studied by localized scanning electrochemical techniques. Corrosion Science, 2016, 112, 408-417.	6.6	61
24	Smart composite coatings for corrosion protection of aluminium alloys in aerospace applications. , 2016, , 85-121.		39
25	Comparison of the synergistic effects of inhibitor mixtures tailored for enhanced corrosion protection of bare and coated AA2024-T3. Surface and Coatings Technology, 2016, 303, 342-351.	4.8	76
26	H+-selective microelectrodes with optimized measuring range for corrosion studies. Sensors and Actuators B: Chemical, 2015, 207, 967-975.	7.8	26
27	Multifunctional epoxy coatings combining a mixture of traps and inhibitor loaded nanocontainers for corrosion protection of AA2024-T3. Corrosion Science, 2014, 85, 147-159.	6.6	82
28	pH-sensitive polymeric particles with increased inhibitor-loading capacity as smart additives for corrosion protective coatings for AA2024. Electrochimica Acta, 2014, 145, 123-131.	5.2	85
29	Self healing ability of inhibitor-containing nanocapsules loaded in epoxy coatings applied on aluminium 5083 and galvanneal substrates. Electrochimica Acta, 2014, 140, 282-293.	5.2	114
30	Electrochemical study of the corrosion inhibition ability of â€œsmartâ€•coatings applied on AA2024. Journal of Solid State Electrochemistry, 2013, 17, 2183-2192.	2.5	44
31	Hybrid epoxyâ€“silane coatings for improved corrosion protection of Mg alloy. Corrosion Science, 2013, 67, 82-90.	6.6	162
32	Znâ€“Al layered double hydroxides as chloride nanotraps in active protective coatings. Corrosion Science, 2012, 55, 1-4.	6.6	242
33	â€œSMARTâ€•protective ability of water based epoxy coatings loaded with CaCO3 microbeads impregnated with corrosion inhibitors applied on AA2024 substrates. Electrochimica Acta, 2012, 83, 439-447.	5.2	177
34	Evaluation of self-healing ability in protective coatings modified with combinations of layered double hydroxides and cerium molibdate nanocontainers filled with corrosion inhibitors. Electrochimica Acta, 2012, 60, 31-40.	5.2	263
35	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
36	Improving the corrosion protection properties of organically modified silicateâ€“epoxy coatings by incorporation of organic and inorganic inhibitors. Progress in Organic Coatings, 2011, 72, 653-662.	3.9	48

#	Article	IF	Citations
37	The combined use of scanning vibrating electrode technique and micro-potentiometry to assess the self-repair processes in defects on â€œsmartâ€•coatings applied to galvanized steel. Electrochimica Acta, 2011, 56, 4475-4488.	5.2	111
38	Hydroxyapatite Microparticles as Feedback-Active Reservoirs of Corrosion Inhibitors. ACS Applied Materials & Interfaces, 2010, 2, 3011-3022.	8.0	187
39	Complex anticorrosion coating for ZK30 magnesium alloy. Electrochimica Acta, 2009, 55, 131-141.	5.2	145