

Peter RodiÄ•

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1755679/publications.pdf>

Version: 2024-02-01

29
papers

662
citations

516710

16
h-index

580821

25
g-index

29
all docs

29
docs citations

29
times ranked

460
citing authors

#	ARTICLE	IF	CITATIONS
1	Corrosion Inhibition of Pure Aluminium and Alloys AA2024-T3 and AA7075-T6 by Cerium(III) and Cerium(IV) Salts. <i>Journal of the Electrochemical Society</i> , 2016, 163, C85-C93.	2.9	77
2	A hybrid organic-inorganic sol-gel coating for protecting aluminium alloy 7075-T6 against corrosion in Harrison's solution. <i>Journal of Sol-Gel Science and Technology</i> , 2014, 70, 90-103.	2.4	60
3	Hybrid sol-gel coating agents based on zirconium(IV) propoxide and epoxysilane. <i>Journal of Sol-Gel Science and Technology</i> , 2015, 74, 447-459.	2.4	40
4	Electrochemical, Surface-Analytical, and Computational DFT Study of Alkaline Etched Aluminum Modified by Carboxylic Acids for Corrosion Protection and Hydrophobicity. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3131-C3146.	2.9	37
5	The influence of additional salts on corrosion inhibition by cerium(III) acetate in the protection of AA7075-T6 in chloride solution. <i>Corrosion Science</i> , 2019, 149, 108-122.	6.6	37
6	Study of a sol-gel process in the preparation of hybrid coatings for corrosion protection using FTIR and ¹ H NMR methods. <i>Journal of Non-Crystalline Solids</i> , 2014, 396-397, 25-35.	3.1	35
7	Corrosion behaviour and chemical stability of transparent hybrid sol-gel coatings deposited on aluminium in acidic and alkaline solutions. <i>Progress in Organic Coatings</i> , 2018, 124, 286-295.	3.9	33
8	Study of the synergistic effect of cerium acetate and sodium sulphate on the corrosion inhibition of AA2024-T3. <i>Electrochimica Acta</i> , 2019, 308, 337-349.	5.2	31
9	Composition, structure and morphology of hybrid acrylate-based sol-gel coatings containing Si and Zr composed for protective applications. <i>Surface and Coatings Technology</i> , 2016, 286, 388-396.	4.8	30
10	Corrosion Properties of UV Cured Hybrid Sol-Gel Coatings on AA7075-T6 Determined under Simulated Aircraft Conditions. <i>Journal of the Electrochemical Society</i> , 2014, 161, C412-C420.	2.9	25
11	Electrochemical and Salt Spray Testing of Hybrid Coatings Based on Si and Zr Deposited on Aluminum and Its Alloys. <i>Journal of the Electrochemical Society</i> , 2015, 162, C592-C600.	2.9	25
12	One-step ultrasound fabrication of corrosion resistant, self-cleaning and anti-icing coatings on aluminium. <i>Surface and Coatings Technology</i> , 2019, 369, 175-185.	4.8	24
13	Easy and Fast Fabrication of Self-Cleaning and Anti-Icing Perfluoroalkyl Silane Film on Aluminium. <i>Coatings</i> , 2020, 10, 234.	2.6	23
14	Acrylate-Based Hybrid Sol-Gel Coating for Corrosion Protection of AA7075-T6 in Aircraft Applications: The Effect of Copolymerization Time. <i>Polymers</i> , 2020, 12, 948.	4.5	22
15	The Effect of the Methyl and Ethyl Group of the Acrylate Precursor in Hybrid Silane Coatings Used for Corrosion Protection of Aluminium Alloy 7075-T6. <i>Coatings</i> , 2020, 10, 172.	2.6	21
16	The synergistic effect of cerium acetate and sodium sulphate on corrosion inhibition of AA2024-T3 at various temperatures. <i>Electrochimica Acta</i> , 2021, 370, 137664.	5.2	20
17	Siloxane polyacrylic sol-gel coatings with alkyl and perfluoroalkyl chains: Synthesis, composition, thermal properties and long-term corrosion protection. <i>Applied Surface Science</i> , 2022, 574, 151578.	6.1	17
18	The Effect of Cerium Ions on the Structure, Porosity and Electrochemical Properties of Si/Zr-Based Hybrid Sol-Gel Coatings Deposited on Aluminum. <i>Metals</i> , 2018, 8, 248.	2.3	16

#	ARTICLE	IF	CITATIONS
19	The effect of copolymerisation on the performance of acrylate-based hybrid sol-gel coating for corrosion protection of AA2024-T3. <i>Progress in Organic Coatings</i> , 2020, 147, 105701.	3.9	12
20	The influence of length of alkyl chain on the chemical structure and corrosion resistance of silica-polyacrylic hybrid coatings on structural steel. <i>Progress in Organic Coatings</i> , 2021, 150, 105982.	3.9	12
21	Superhydrophobic Aluminium Surface to Enhance Corrosion Resistance and Obtain Self-Cleaning and Anti-Icing Ability. <i>Molecules</i> , 2022, 27, 1099.	3.8	12
22	The effect of surface preparation on the protective properties of Al ₂ O ₃ and HfO ₂ thin films deposited on cp-titanium by atomic layer deposition. <i>Electrochimica Acta</i> , 2021, 366, 137431.	5.2	10
23	Influence of the hydrophobic groups and the nature of counterions on ion-binding in aliphatic ionene solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 424, 18-25.	4.7	9
24	The Effect of Surface Pretreatment of Aluminum Alloy 7075-T6 on the Subsequent Inhibition by Cerium(III) Acetate in Chloride-Containing Solution. <i>Journal of the Electrochemical Society</i> , 2022, 169, 011504.	2.9	8
25	Cerium chloride and acetate salts as corrosion inhibitors for aluminium alloy AA7075-T6 in sodium chloride solution. <i>Corrosion</i> , 0, , .	1.1	7
26	Degradation of Sol-Gel Acrylic Coatings Based on Si and Zr Investigated Using Electrochemical Impedance, Infrared and X-Ray Photoelectron Spectroscopies. <i>Frontiers in Materials</i> , 2021, 8, .	2.4	6
27	Corrosion resistance of cerium-conversion coatings formed from cerium(III) salts on aluminium alloy 7075-T6. <i>Studia Universitatis Babes-Bolyai Chemia</i> , 2020, 65, 227-244.	0.2	5
28	Investigations of the Thermal Parameters of Hybrid Sol-Gel Coatings Using Nondestructive Photothermal Techniques. <i>Energies</i> , 2022, 15, 4122.	3.1	5
29	Removal of 18 bisphenols co-present in aqueous media by effectively immobilized titania photocatalyst. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 106814.	6.7	3