

Tom Hauffman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76
papers

1,032
citations

18
h-index

29
g-index

82
ext. papers

1,323
ext. citations

5.8
avg, IF

4.49
L-index

#	Paper	IF	Citations
76	Passive Film Properties of Martensitic Steels in Alkaline Environment: Influence of the Prior Austenite Grain Size. <i>Metals</i> , 2022 , 12, 292	2.3	
75	Unraveling the mechanism of the conversion treatment on Advanced High Strength Stainless Steels (AHSS). <i>Applied Surface Science</i> , 2022 , 572, 151418	6.7	1
74	Simple and Scalable Chemical Surface Patterning via Direct Deposition from Immobilized Plasma Filaments in a Dielectric Barrier Discharge.. <i>Advanced Science</i> , 2022 , e2200237	13.6	
73	Unravelling the chemisorption mechanism of epoxy-amine coatings on Zr-based converted galvanized steel by combined static XPS/ToF-SIMS approach. <i>Applied Surface Science</i> , 2022 , 153798	6.7	0
72	Unraveling the formation mechanism of hybrid Zr conversion coating on advanced high strength stainless steels (AHSS). <i>Surface and Coatings Technology</i> , 2022 , 128567	4.4	0
71	Anti-infective DNase I coatings on polydopamine functionalized titanium surfaces by alternating current electrophoretic deposition. <i>Analytica Chimica Acta</i> , 2022 , 1218, 340022	6.6	1
70	The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. <i>Corrosion Science</i> , 2021 , 181, 109206	6.8	2
69	Effect of microstructural defects on passive layer properties of interstitial free (IF) ferritic steels in alkaline environment. <i>Corrosion Science</i> , 2021 , 182, 109271	6.8	2
68	Efficient long-range conduction in cable bacteria through nickel protein wires. <i>Nature Communications</i> , 2021 , 12, 3996	17.4	9
67	Ion yield enhancement at the organic/inorganic interface in SIMS analysis using Ar-GCIB. <i>Applied Surface Science</i> , 2021 , 536, 147716	6.7	1
66	A study of the interfacial chemistry between polymeric methylene diphenyl di-isocyanate and a FeCr alloy. <i>Surface and Interface Analysis</i> , 2021 , 53, 340-349	1.5	7
65	Direct X-ray and electron-beam lithography of halogenated zeolitic imidazolate frameworks. <i>Nature Materials</i> , 2021 , 20, 93-99	27	46
64	The Type and Concentration of Inoculum and Substrate as Well as the Presence of Oxygen Impact the Water Kefir Fermentation Process. <i>Frontiers in Microbiology</i> , 2021 , 12, 628599	5.7	5
63	Effect of Ce(III) and Ce(IV) ions on the structure and active protection of PMMA-silica coatings on AA7075 alloy. <i>Corrosion Science</i> , 2021 , 189, 109581	6.8	6
62	Mapping Composition-Selectivity Relationships of Supported Sub-10 nm Cu-Ag Nanocrystals for High-Rate CO Electroreduction. <i>ACS Nano</i> , 2021 , 15, 14858-14872	16.7	5
61	Monitoring initial contact of UV-cured organic coatings with aqueous solutions using odd random phase multisine electrochemical impedance spectroscopy. <i>Corrosion Science</i> , 2021 , 190, 109713	6.8	2
60	Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. <i>Angewandte Chemie</i> , 2021 , 133, 25872	3.6	

59	Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 25668-25673	16.4	2
58	A combined XPS/ToF-SIMS approach for the 3D compositional characterization of Zr-based conversion of galvanized steel. <i>Applied Surface Science</i> , 2021 , 562, 150166	6.7	5
57	Experimental and computational insights into the aminopropylphosphonic acid modification of mesoporous TiO ₂ powder: The role of the amine functionality on the surface interaction and coordination. <i>Applied Surface Science</i> , 2021 , 566, 150625	6.7	4
56	Effect of different oxide and hybrid precursors on MOF-CVD of ZIF-8 films. <i>Dalton Transactions</i> , 2021 , 50, 6784-6788	4.3	10
55	Synthesis Properties correlation and the unexpected role of the titania support on the Grignard surface modification. <i>Applied Surface Science</i> , 2020 , 527, 146851	6.7	2
54	Molecular Characterization of Bonding Interactions at the Buried Steel Oxide-Aminopropyl Triethoxysilane Interface Accessed by Ar Cluster Sputtering. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13150-13161	3.8	2
53	A Review on Adhesively Bonded Aluminium Joints in the Automotive Industry. <i>Metals</i> , 2020 , 10, 730	2.3	26
52	Effect of organic additives in fluoacid-based Ti and Zr-treatments for galvanized steel on the stability of a polymer coated interface. <i>Progress in Organic Coatings</i> , 2020 , 146, 105738	4.8	2
51	Molecular Characterization of Multiple Bonding Interactions at the Steel Oxide-Aminopropyl triethoxysilane Interface by ToF-SIMS. <i>ACS Omega</i> , 2020 , 5, 692-700	3.9	7
50	Effect of zirconium-based conversion treatments of zinc, aluminium and magnesium on the chemisorption of ester-functionalized molecules. <i>Applied Surface Science</i> , 2020 , 508, 145199	6.7	7
49	Mechanism of the Polarized Absorption of CVD-Prepared Carbon Nanofibers to TE Waves in the Subterahertz Band. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 24957-24969	3.8	1
48	Exploration and mechanism analysis: The maximum ultraviolet luminescence limits of ZnO/few-layer graphene composite films. <i>Applied Surface Science</i> , 2020 , 503, 144169	6.7	3
47	Effect of excess hydrogen bond donors on the electrode-electrolyte interface between choline chloride-ethylene glycol based solvents and copper. <i>Journal of Electroanalytical Chemistry</i> , 2020 , 857, 113732	4.1	
46	Chemisorption of polyester coatings on zirconium-based conversion coated multi-metal substrates and their stability in aqueous environment. <i>Applied Surface Science</i> , 2020 , 508, 144771	6.7	14
45	The Influence of Superabsorbent Polymers and Nanosilica on the Hydration Process and Microstructure of Cementitious Mixtures. <i>Materials</i> , 2020 , 13,	3.5	5
44	Templated Solvent-Free Powder Synthesis and MOF-CVD Films of the Ultramicroporous Metal-Organic Framework Magnesium Formate. <i>Chemistry of Materials</i> , 2020 , 32, 10469-10475	9.6	4
43	Integrated Cleanroom Process for the Vapor-Phase Deposition of Large-Area Zeolitic Imidazolate Framework Thin Films. <i>Chemistry of Materials</i> , 2019 , 31, 9462-9471	9.6	29
42	Probing the formation and degradation of chemical interactions from model molecule/metal oxide to buried polymer/metal oxide interfaces. <i>Npj Materials Degradation</i> , 2019 , 3,	5.7	27

41	Growth mechanism of novel scaly CNFs@ZnO nanofibers structure and its photoluminescence property. <i>Applied Surface Science</i> , 2019 , 491, 75-82	6.7	2
40	Electrode-electrolyte interactions in choline chloride ethylene glycol based solvents and their effect on the electrodeposition of iron. <i>Electrochimica Acta</i> , 2019 , 312, 303-312	6.7	12
39	An in situ spectro-electrochemical monitoring of aqueous effects on polymer/metal oxide interfaces. <i>Journal of Electroanalytical Chemistry</i> , 2019 , 848, 113311	4.1	13
38	Vapour-phase deposition of oriented copper dicarboxylate metal-organic framework thin films. <i>Chemical Communications</i> , 2019 , 55, 10056-10059	5.8	37
37	Probing the Metal Oxide/Polymer Molecular Hybrid Interfaces with Nanoscale Resolution Using AFM-IR. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26178-26184	3.8	11
36	Dual Role of Lithium on the Structure and Self-Healing Ability of PMMA-Silica Coatings on AA7075 Alloy. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40629-40641	9.5	13
35	The chemical throwing power of lithium-based inhibitors from organic coatings on AA2024-T3. <i>Corrosion Science</i> , 2019 , 150, 194-206	6.8	15
34	Compositional study of a corrosion protective layer formed by leachable lithium salts in a coating defect on AA2024-T3 aluminium alloys. <i>Progress in Organic Coatings</i> , 2018 , 119, 65-75	4.8	23
33	Water Adsorption and Dissociation on Polycrystalline Copper Oxides: Effects of Environmental Contamination and Experimental Protocol. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 1000-1008	3.4	42
32	Advanced (In Situ) Surface Analysis of Organic Coating/Metal Oxide Interactions for Corrosion Protection of Passivated Metals 2018 , 1-17		2
31	Fluoride-Induced Interfacial Adhesion Loss of Nanoporous Anodic Aluminum Oxide Templates in Aerospace Structures. <i>ACS Applied Nano Materials</i> , 2018 , 1, 6139-6149	5.6	5
30	In Situ Methanol Adsorption on Aluminum Oxide Monitored by a Combined ORP-EIS and ATR-FTIR Kretschmann Setup. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 21963-21973	3.8	5
29	Acrylate-based coatings to protect lead substrates. <i>Electrochimica Acta</i> , 2017 , 229, 8-21	6.7	5
28	In Situ Characterization of the Initial Effect of Water on Molecular Interactions at the Interface of Organic/Inorganic Hybrid Systems. <i>Scientific Reports</i> , 2017 , 7, 45123	4.9	25
27	Adhesive Bonding and Corrosion Performance Investigated as a Function of Aluminum Oxide Chemistry and Adhesives. <i>Corrosion</i> , 2017 , 73, 903-914	1.8	8
26	Unravelling the Chemical Influence of Water on the PMMA/Aluminum Oxide Hybrid Interface In Situ. <i>Scientific Reports</i> , 2017 , 7, 13341	4.9	45
25	Protective performance of Zr and Cr based silico-oxynitrides used for dental applications by means of potentiodynamic polarization and odd random phase multisine electrochemical impedance spectroscopy. <i>Corrosion Science</i> , 2017 , 115, 118-128	6.8	16
24	Effect of Anodic Aluminum Oxide Chemistry on Adhesive Bonding of Epoxy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 19670-19677	3.8	33

23	Micro- and nanostructural characterization of melamine-formaldehyde microcapsule shells using electron microscopy 2016 , 718-719		
22	The role of acid-base properties in the interactions across the oxide-primer interface in aerospace applications. <i>Surface and Interface Analysis</i> , 2016 , 48, 712-720	1.5	13
21	TEM and AES investigations of the natural surface nano-oxide layer of an AISI 316L stainless steel microfibre. <i>Journal of Microscopy</i> , 2016 , 264, 207-214	1.9	8
20	Melamine-Formaldehyde Microcapsules: Micro- and Nanostructural Characterization with Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016 , 22, 1222-1232	0.5	3
19	Comprehensive study of the macropore and mesopore size distributions in polymer monoliths using complementary physical characterization techniques and liquid chromatography. <i>Journal of Separation Science</i> , 2016 , 39, 4492-4501	3.4	12
18	XPS Analysis of the Surface Chemistry and Interfacial Bonding of Barrier-Type Cr(VI)-Free Anodic Oxides. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19967-19975	3.8	37
17	Modification of the magnetic properties of Co films grown on MgO (100) by treatment with NaOH solution. <i>Physical Review B</i> , 2014 , 90,	3.3	3
16	Incorporation of corrosion inhibitor in plasma polymerized allyl methacrylate coatings and evaluation of its corrosion performance. <i>Surface and Coatings Technology</i> , 2014 , 259, 714-724	4.4	5
15	A study of the electron transfer inhibition on a charged self-assembled monolayer modified gold electrode by odd random phase multisine electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2014 , 140, 266-274	6.7	18
14	Corrosion study on Al-rich metal-coated steel by odd random phase multisine electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2014 , 124, 165-175	6.7	16
13	Study of the self-assembling of n-octylphosphonic acid layers on aluminum oxide from ethanolic solutions. <i>Surface and Interface Analysis</i> , 2013 , 45, 1435-1440	1.5	11
12	Dynamic, in situ study of self-assembling organic phosphonic acid monolayers from ethanolic solutions on aluminium oxides by means of odd random phase multisine electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2013 , 106, 342-350	6.7	11
11	In situ study of the deposition of (ultra)thin organic phosphonic acid layers on the oxide of aluminum. <i>Langmuir</i> , 2012 , 28, 3167-73	4	18
10	Measuring the adsorption of ethanol on aluminium oxides using odd random phase multisine electrochemical impedance spectroscopy. <i>Electrochemistry Communications</i> , 2012 , 22, 124-127	5.1	8
9	Electrochemical analysis of the adsorption and desorption behaviors of carboxylic acid and anhydride monomers onto zinc surfaces. <i>Electrochimica Acta</i> , 2011 , 56, 9317-9323	6.7	14
8	Molecular Interactions of Electroadsorbed Carboxylic Acid and Succinic Anhydride Monomers on Zinc Surfaces. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 17054-17067	3.8	30
7	A comparison of the interfacial bonding properties of carboxylic acid functional groups on zinc and iron substrates. <i>Electrochimica Acta</i> , 2011 , 56, 1904-1911	6.7	56
6	Odd random phase multisine EIS as a detection method for the onset of corrosion of coated steel. <i>Electrochemistry Communications</i> , 2010 , 12, 2-5	5.1	21

5	Towards a reliable characterisation of oxide layers on pure aluminium using high energy resolution FE-AES. <i>Surface and Interface Analysis</i> , 2010 , 42, 897-901	1.5	2
4	Study of the self-assembling of n-octylphosphonic acid layers on aluminum oxide. <i>Langmuir</i> , 2008 , 24, 13450-6	4	78
3	Influence of the Iron Oxide Acid-Base Properties on the Chemisorption of Model Epoxy Compounds Studied by XPS. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 13177-13184	3.8	101
2	Study of the catalyst evolution during annealing preceding the growth of carbon nanotubes by microwave plasma-enhanced chemical vapour deposition. <i>Nanotechnology</i> , 2007 , 18, 455602	3.4	16
1	Étude de la formation de couches organiques auto assemblées à l'aide de la spectroscopie d'impédance électrochimique "odd random phase multisine". <i>Materiaux Et Techniques</i> , 2007 , 95, 411-415	0.6	1