Tom Hauffman

List of Publications by Citations

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	Influence of the Iron Oxide Acid−Base Properties on the Chemisorption of Model Epoxy Compounds Studied by XPS. *Journal of Physical Chemistry C*, **2007**, 111, 13177-13184	3.8	101
75	Study of the self-assembling of n-octylphosphonic acid layers on aluminum oxide. *Langmuir*, **2008**, 24, 13450-6	4	78
74	A comparison of the interfacial bonding properties of carboxylic acid functional groups on zinc and iron substrates. *Electrochimica Acta*, **2011**, 56, 1904-1911	6.7	56
73	Direct X-ray and electron-beam lithography of halogenated zeolitic imidazolate frameworks. *Nature Materials*, **2021**, 20, 93-99	27	46
72	Unravelling the Chemical Influence of Water on the PMMA/Aluminum Oxide Hybrid Interface In Situ. *Scientific Reports*, **2017**, 7, 13341	4.9	45
71	Water Adsorption and Dissociation on Polycrystalline Copper Oxides: Effects of Environmental Contamination and Experimental Protocol. *Journal of Physical Chemistry B*, **2018**, 122, 1000-1008	3.4	42
70	XPS Analysis of the Surface Chemistry and Interfacial Bonding of Barrier-Type Cr(VI)-Free Anodic Oxides. *Journal of Physical Chemistry C*, **2015**, 119, 19967-19975	3.8	37
69	Vapour-phase deposition of oriented copper dicarboxylate metal-organic framework thin films. *Chemical Communications*, **2019**, 55, 10056-10059	5.8	37
68	Effect of Anodic Aluminum Oxide Chemistry on Adhesive Bonding of Epoxy. *Journal of Physical Chemistry C*, **2016**, 120, 19670-19677	3.8	33
67	Molecular Interactions of Electroadsorbed Carboxylic Acid and Succinic Anhydride Monomers on Zinc Surfaces. *Journal of Physical Chemistry C*, **2011**, 115, 17054-17067	3.8	30
66	Integrated Cleanroom Process for the Vapor-Phase Deposition of Large-Area Zeolitic Imidazolate Framework Thin Films. *Chemistry of Materials*, **2019**, 31, 9462-9471	9.6	29
65	Probing the formation and degradation of chemical interactions from model molecule/metal oxide to buried polymer/metal oxide interfaces. *Npj Materials Degradation*, **2019**, 3,	5.7	27
64	A Review on Adhesively Bonded Aluminium Joints in the Automotive Industry. *Metals*, **2020**, 10, 730	2.3	26
63	In Situ Characterization of the Initial Effect of Water on Molecular Interactions at the Interface of Organic/Inorganic Hybrid Systems. *Scientific Reports*, **2017**, 7, 45123	4.9	25
62	Compositional study of a corrosion protective layer formed by leachable lithium salts in a coating defect on AA2024-T3 aluminium alloys. *Progress in Organic Coatings*, **2018**, 119, 65-75	4.8	23
61	Odd random phase multisine EIS as a detection method for the onset of corrosion of coated steel. *Electrochemistry Communications*, **2010**, 12, 2-5	5.1	21
60	A study of the electron transfer inhibition on a charged self-assembled monolayer modified gold electrode by odd random phase multisine electrochemical impedance spectroscopy. *Electrochimica Acta*, **2014**, 140, 266-274	6.7	18

59	In situ study of the deposition of (ultra)thin organic phosphonic acid layers on the oxide of aluminum. *Langmuir*, **2012**, 28, 3167-73	4	18
58	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. *Corrosion Science*, **2017**, 115, 118-128	6.8	16
57	Corrosion study on Al-rich metal-coated steel by odd random phase multisine electrochemical impedance spectroscopy. *Electrochimica Acta*, **2014**, 124, 165-175	6.7	16
56	Study of the catalyst evolution during annealing preceding the growth of carbon nanotubes by microwave plasma-enhanced chemical vapour deposition. *Nanotechnology*, **2007**, 18, 455602	3.4	16
55	The chemical throwing power of lithium-based inhibitors from organic coatings on AA2024-T3. *Corrosion Science*, **2019**, 150, 194-206	6.8	15
54	Electrochemical analysis of the adsorption and desorption behaviors of carboxylic acid and anhydride monomers onto zinc surfaces. *Electrochimica Acta*, **2011**, 56, 9317-9323	6.7	14
53	Chemisorption of polyester coatings on zirconium-based conversion coated multi-metal substrates and their stability in aqueous environment. *Applied Surface Science*, **2020**, 508, 144771	6.7	14
52	An in situ spectro-electrochemical monitoring of aqueous effects on polymer/metal oxide interfaces. *Journal of Electroanalytical Chemistry*, **2019**, 848, 113311	4.1	13
51	Dual Role of Lithium on the Structure and Self-Healing Ability of PMMA-Silica Coatings on AA7075 Alloy. *ACS Applied Materials & Interfaces*, **2019**, 11, 40629-40641	9.5	13
50	The role of acid-base properties in the interactions across the oxide-primer interface in aerospace applications. *Surface and Interface Analysis*, **2016**, 48, 712-720	1.5	13
49	Electrode-electrolyte interactions in choline chloride ethylene glycol based solvents and their effect on the electrodeposition of iron. *Electrochimica Acta*, **2019**, 312, 303-312	6.7	12
48	Comprehensive study of the macropore and mesopore size distributions in polymer monoliths using complementary physical characterization techniques and liquid chromatography. *Journal of Separation Science*, **2016**, 39, 4492-4501	3.4	12
47	Probing the Metal Oxide/Polymer Molecular Hybrid Interfaces with Nanoscale Resolution Using AFM-IR. *Journal of Physical Chemistry C*, **2019**, 123, 26178-26184	3.8	11
46	Study of the self-assembling of n-octylphosphonic acid layers on aluminum oxide from ethanolic solutions. *Surface and Interface Analysis*, **2013**, 45, 1435-1440	1.5	11
45	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. *Electrochimica Acta*, **2013**, 106, 342-350	6.7	11
44	Effect of different oxide and hybrid precursors on MOF-CVD of ZIF-8 films. *Dalton Transactions*, **2021**, 50, 6784-6788	4.3	10
43	Efficient long-range conduction in cable bacteria through nickel protein wires. *Nature Communications*, **2021**, 12, 3996	17.4	9
42	Adhesive Bonding and Corrosion Performance Investigated as a Function of Aluminum Oxide Chemistry and Adhesives. *Corrosion*, **2017**, 73, 903-914	1.8	8

41	Measuring the adsorption of ethanol on aluminium oxides using odd random phase multisine electrochemical impedance spectroscopy. *Electrochemistry Communications*, **2012**, 22, 124-127	5.1	8
40	TEM and AES investigations of the natural surface nano-oxide layer of an AISI 316L stainless steel microfibre. *Journal of Microscopy*, **2016**, 264, 207-214	1.9	8
39	Molecular Characterization of Multiple Bonding Interactions at the Steel Oxide-Aminopropyl triethoxysilane Interface by ToF-SIMS. *ACS Omega*, **2020**, 5, 692-700	3.9	7
38	Effect of zirconium-based conversion treatments of zinc, aluminium and magnesium on the chemisorption of ester-functionalized molecules. *Applied Surface Science*, **2020**, 508, 145199	6.7	7
37	A study of the interfacial chemistry between polymeric methylene diphenyl di-isocyanate and a Fe□r alloy. *Surface and Interface Analysis*, **2021**, 53, 340-349	1.5	7
36	Effect of Ce(III) and Ce(IV) ions on the structure and active protection of PMMA-silica coatings on AA7075 alloy. *Corrosion Science*, **2021**, 189, 109581	6.8	6
35	Acrylate-based coatings to protect lead substrates. *Electrochimica Acta*, **2017**, 229, 8-21	6.7	5
34	Incorporation of corrosion inhibitor in plasma polymerized allyl methacrylate coatings and evaluation of its corrosion performance. *Surface and Coatings Technology*, **2014**, 259, 714-724	4.4	5
33	The Influence of Superabsorbent Polymers and Nanosilica on the Hydration Process and Microstructure of Cementitious Mixtures. *Materials*, **2020**, 13,	3.5	5
32	The Type and Concentration of Inoculum and Substrate as Well as the Presence of Oxygen Impact the Water Kefir Fermentation Process. *Frontiers in Microbiology*, **2021**, 12, 628599	5.7	5
31	Fluoride-Induced Interfacial Adhesion Loss of Nanoporous Anodic Aluminum Oxide Templates in Aerospace Structures. *ACS Applied Nano Materials*, **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. *Journal of Physical Chemistry C*, **2018**, 122, 21963-21973	3.8	5
29	Mapping Composition-Selectivity Relationships of Supported Sub-10 nm Cu-Ag Nanocrystals for High-Rate CO Electroreduction. *ACS Nano*, **2021**, 15, 14858-14872	16.7	5
28	A combined XPS/ToF-SIMS approach for the 3D compositional characterization of Zr-based conversion of galvanized steel. *Applied Surface Science*, **2021**, 562, 150166	6.7	5
27	Templated Solvent-Free Powder Synthesis and MOF-CVD Films of the Ultramicroporous Metal□Organic Framework □Magnesium Formate. *Chemistry of Materials*, **2020**, 32, 10469-10475	9.6	4
26	Experimental and computational insights into the aminopropylphosphonic acid modification of mesoporous TiO2 powder: The role of the amine functionality on the surface interaction and coordination. *Applied Surface Science*, **2021**, 566, 150625	6.7	4
25	Modification of the magnetic properties of Co films grown on MgO (100) by treatment with NaOH solution. *Physical Review B*, **2014**, 90,	3.3	3
24	Exploration and mechanism analysis: The maximum ultraviolet luminescence limits of ZnO/few-layer graphene composite films. *Applied Surface Science*, **2020**, 503, 144169	6.7	3

23	Melamine-Formaldehyde Microcapsules: Micro- and Nanostructural Characterization with Electron Microscopy. *Microscopy and Microanalysis*, **2016**, 22, 1222-1232	0.5	3
22	Growth mechanism of novel scaly CNFs@ZnO nanofibers structure and its photoluminescence property. *Applied Surface Science*, **2019**, 491, 75-82	6.7	2
21	Synthesis properties correlation and the unexpected role of the titania support on the Grignard surface modification. *Applied Surface Science*, **2020**, 527, 146851	6.7	2
20	Molecular Characterization of Bonding Interactions at the Buried Steel Oxide Aminopropyl Triethoxysilane Interface Accessed by Ar Cluster Sputtering. *Journal of Physical Chemistry C*, **2020**, 124, 13150-13161	3.8	2
19	Effect of organic additives in fluoacid-based Ti and Zr-treatments for galvanized steel on the stability of a polymer coated interface. *Progress in Organic Coatings*, **2020**, 146, 105738	4.8	2
18	Towards a reliable characterisation of oxide layers on pure aluminium using high energy resolution FE-AES. *Surface and Interface Analysis*, **2010**, 42, 897-901	1.5	2
17	The mechanism of thermal oxide film formation on low Cr martensitic stainless steel and its behavior in fluoride-based pickling solution in conversion treatment. *Corrosion Science*, **2021**, 181, 109206	6.8	2
16	Effect of microstructural defects on passive layer properties of interstitial free (IF) ferritic steels in alkaline environment. *Corrosion Science*, **2021**, 182, 109271	6.8	2
15	Advanced (In Situ) Surface Analysis of Organic Coating/Metal Oxide Interactions for Corrosion Protection of Passivated Metals **2018**, 1-17		2
14	Monitoring initial contact of UV-cured organic coatings with aqueous solutions using odd random phase multisine electrochemical impedance spectroscopy. *Corrosion Science*, **2021**, 190, 109713	6.8	2
13	Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. *Angewandte Chemie - International Edition*, **2021**, 60, 25668-25673	16.4	2
12	Mechanism of the Polarized Absorption of CVD-Prepared Carbon Nanofibers to TE Waves in the Subterahertz Band. *Journal of Physical Chemistry C*, **2020**, 124, 24957-24969	3.8	1
11	tude de la formation de couches organiques auto assembl s l aide de la spectroscopie d mpdance lectrochimique "odd random phase multisine". *Materiaux Et Techniques*, **2007**, 95, 411-415	0.6	1
10	Ion yield enhancement at the organic/inorganic interface in SIMS analysis using Ar-GCIB. *Applied Surface Science*, **2021**, 536, 147716	6.7	1
9	Unraveling the mechanism of the conversion treatment on Advanced High Strength Stainless Steels (AHSSS). *Applied Surface Science*, **2022**, 572, 151418	6.7	1
8	Anti-infective DNase I coatings on polydopamine functionalized titanium surfaces by alternating current electrophoretic deposition. *Analytica Chimica Acta*, **2022**, 1218, 340022	6.6	1
7	Unravelling the chemisorption mechanism of epoxy-amine coatings on Zr-based converted galvanized steel by combined static XPS/ToF-SIMS approach. *Applied Surface Science*, **2022**, 153798	6.7	0
6	Unraveling the formation mechanism of hybrid Zr conversion coating on advanced high strength stainless steels (AHSSS). *Surface and Coatings Technology*, **2022**, 128567	4.4	0

5	Micro- and nanostructural characterization of melamine-formaldehyde microcapsule shells using electron microscopy **2016**, 718-719	
4	Passive Film Properties of Martensitic Steels in Alkaline Environment: Influence of the Prior Austenite Grain Size. *Metals*, **2022**, 12, 292	2.3
3	Effect of excess hydrogen bond donors on the electrode-electrolyte interface between choline chloride-ethylene glycol based solvents and copper. *Journal of Electroanalytical Chemistry*, **2020**, 857, 113732	4.1
2	Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. *Angewandte Chemie*, **2021**, 133, 25872	3.6
1	Simple and Scalable Chemical Surface Patterning via Direct Deposition from Immobilized Plasma Filaments in a Dielectric Barrier Discharge.. *Advanced Science*, **2022**, e2200237	13.6