

Tom Hauffman

List of Publications by Year in descending order

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80
papers

1,657
citations

331538

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all docs

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docs citations

82
times ranked

1872
citing authors

#	ARTICLE	IF	CITATIONS
1	Direct X-ray and electron-beam lithography of halogenated zeolitic imidazolate frameworks. <i>Nature Materials</i> , 2021, 20, 93-99.	13.3	112
2	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.	1.5	108
3	Study of the Self-Assembling of <i>n</i> -Octylphosphonic Acid Layers on Aluminum Oxide. <i>Langmuir</i> , 2008, 24, 13450-13456.	1.6	88
4	Unravelling the Chemical Influence of Water on the PMMA/Aluminum Oxide Hybrid Interface In Situ. <i>Scientific Reports</i> , 2017, 7, 13341.	1.6	76
5	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.	2.6	68
6	Vapour-phase deposition of oriented copper dicarboxylate metal-organic framework thin films. <i>Chemical Communications</i> , 2019, 55, 10056-10059.	2.2	64
7	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.	1.2	61
8	A Review on Adhesively Bonded Aluminium Joints in the Automotive Industry. <i>Metals</i> , 2020, 10, 730.	1.0	61
9	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.	3.2	52
10	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.	1.5	44
11	Effect of Anodic Aluminum Oxide Chemistry on Adhesive Bonding of Epoxy. <i>Journal of Physical Chemistry C</i> , 2016, 120, 19670-19677.	1.5	44
12	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, .	2.6	44
13	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.	1.9	37
14	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.	1.6	36
15	Molecular Interactions of Electroadsorbed Carboxylic Acid and Succinic Anhydride Monomers on Zinc Surfaces. <i>Journal of Physical Chemistry C</i> , 2011, 115, 17054-17067.	1.5	33
16	Efficient long-range conduction in cable bacteria through nickel protein wires. <i>Nature Communications</i> , 2021, 12, 3996.	5.8	32
17	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.	2.3	29
18	Mapping Composition-Selectivity Relationships of Supported Sub-10 nm Cu-Ag Nanocrystals for High-Rate CO ₂ Electroreduction. <i>ACS Nano</i> , 2021, 15, 14858-14872.	7.3	28

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19	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.	4.0	27
20	The chemical throwing power of lithium-based inhibitors from organic coatings on AA2024-T3. <i>Corrosion Science</i> , 2019, 150, 194-206.	3.0	27
21	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.	3.1	27
22	In Situ Study of the Deposition of (Ultra)thin Organic Phosphonic Acid Layers on the Oxide of Aluminum. <i>Langmuir</i> , 2012, 28, 3167-3173.	1.6	20
23	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.	3.0	20
24	An in situ spectro-electrochemical monitoring of aqueous effects on polymer/metal oxide interfaces. <i>Journal of Electroanalytical Chemistry</i> , 2019, 848, 113311.	1.9	20
25	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.	3.1	20
26	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.	2.6	19
27	Corrosion study on Al-rich metal-coated steel by odd random phase multisine electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , 2014, 124, 165-175.	2.6	19
28	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.	3.0	19
29	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.	2.6	18
30	The Influence of Superabsorbent Polymers and Nanosilica on the Hydration Process and Microstructure of Cementitious Mixtures. <i>Materials</i> , 2020, 13, 5194.	1.3	18
31	Effect of microstructural defects on passive layer properties of interstitial free (IF) ferritic steels in alkaline environment. <i>Corrosion Science</i> , 2021, 182, 109271.	3.0	18
32	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.	1.3	17
33	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.	1.5	17
34	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.	1.5	17
35	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.	1.3	16
36	Templated Solvent-Free Powder Synthesis and MOF-CVD Films of the Ultramicroporous Metal-Organic Framework Mg-Mg -Magnesium Formate. <i>Chemistry of Materials</i> , 2020, 32, 10469-10475.	3.2	16

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37	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.	3.1	16
38	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.	0.8	14
39	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.	2.6	14
40	Study of the self-assembly of n-octylphosphonic acid layers on aluminum oxide from ethanolic solutions. <i>Surface and Interface Analysis</i> , 2013, 45, 1435-1440.	0.8	13
41	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.	2.6	13
42	Adhesive Bonding and Corrosion Performance Investigated as a Function of Aluminum Oxide Chemistry and Adhesives. <i>Corrosion</i> , 2017, 73, 903-914.	0.5	13
43	Ion yield enhancement at the organic/inorganic interface in SIMS analysis using Ar-GCIB. <i>Applied Surface Science</i> , 2021, 536, 147716.	3.1	13
44	Effect of different oxide and hybrid precursors on MOF-CVD of ZIF-8 films. <i>Dalton Transactions</i> , 2021, 50, 6784-6788.	1.6	13
45	A study of the interfacial chemistry between polymeric methylene diphenyl diisocyanate and a Fe-Cr alloy. <i>Surface and Interface Analysis</i> , 2021, 53, 340-349.	0.8	12
46	Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 25668-25673.	7.2	12
47	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.	0.8	11
48	Molecular Characterization of Multiple Bonding Interactions at the Steel Oxide-Aminopropyl triethoxysilane Interface by ToF-SIMS. <i>ACS Omega</i> , 2020, 5, 692-700.	1.6	11
49	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.	3.0	10
50	Measuring the adsorption of ethanol on aluminium oxides using odd random phase multisine electrochemical impedance spectroscopy. <i>Electrochemistry Communications</i> , 2012, 22, 124-127.	2.3	8
51	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.	2.2	8
52	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.	3.1	8
53	Unraveling the formation mechanism of hybrid Zr conversion coating on advanced high strength stainless steels. <i>Surface and Coatings Technology</i> , 2022, 441, 128567.	2.2	8
54	Acrylate-based coatings to protect lead substrates. <i>Electrochimica Acta</i> , 2017, 229, 8-21.	2.6	6

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55	Fluoride-Induced Interfacial Adhesion Loss of Nanoporous Anodic Aluminum Oxide Templates in Aerospace Structures. <i>ACS Applied Nano Materials</i> , 2018, 1, 6139-6149.	2.4	6
56	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.	1.5	6
57	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.	3.0	6
58	Metal-organic framework ZIF-8 for exceptional HCl removal from Hydrogen gas by reaction. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20556-20560.	3.8	6
59	Exploration and mechanism analysis: The maximum ultraviolet luminescence limits of ZnO/few-layer graphene composite films. <i>Applied Surface Science</i> , 2020, 503, 144169.	3.1	5
60	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.	1.9	5
61	Modification of the magnetic properties of Co films grown on MgO (100) by treatment with NaOH solution. <i>Physical Review B</i> , 2014, 90, .	1.1	4
62	Synthesis & properties correlation and the unexpected role of the titania support on the Grignard surface modification. <i>Applied Surface Science</i> , 2020, 527, 146851.	3.1	4
63	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.	1.5	4
64	Unraveling the mechanism of the conversion treatment on Advanced High Strength Stainless Steels (AHSS). <i>Applied Surface Science</i> , 2022, 572, 151418.	3.1	4
65	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.	1.5	4
66	Simple and Scalable Chemical Surface Patterning via Direct Deposition from Immobilized Plasma Filaments in a Dielectric Barrier Discharge. <i>Advanced Science</i> , 2022, 9, e2200237.	5.6	4
67	Anti-infective DNase I coatings on polydopamine functionalized titanium surfaces by alternating current electrophoretic deposition. <i>Analytica Chimica Acta</i> , 2022, 1218, 340022.	2.6	4
68	Melamine&Formaldehyde Microcapsules: Micro- and Nanostructural Characterization with Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2016, 22, 1222-1232.	0.2	3
69	Growth mechanism of novel scaly CNFs@ZnO nanofibers structure and its photoluminescence property. <i>Applied Surface Science</i> , 2019, 491, 75-82.	3.1	3
70	Revisiting the surface characterization of plasma&modified polymers. <i>Plasma Processes and Polymers</i> , 2022, 19, .	1.6	3
71	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, 599, 153798.	3.1	3
72	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.	0.8	2

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73	Advanced (In Situ) Surface Analysis of Organic Coating/Metal Oxide Interactions for Corrosion Protection of Passivated Metals. , 2018, , 1-17.		2
74	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.	1.9	2
75	Étude de la formation de couches organiques auto assemblées à l'aide de la spectroscopie d'impédance électrochimique "odd random phase multisine". Materiaux Et Techniques, 2007, 95, 411-415.	0.3	1
76	Passive Film Properties of Martensitic Steels in Alkaline Environment: Influence of the Prior Austenite Grain Size. Metals, 2022, 12, 292.	1.0	1
77	Towards a Nano-Scale Electrochemical and Spectroscopic Characterization of Organic Layers on Oxide Surfaces. ECS Transactions, 2006, 3, 3-13.	0.3	0
78	Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. Angewandte Chemie, 2021, 133, 25872.	1.6	0
79	Frontispiece: Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. Angewandte Chemie - International Edition, 2021, 60, .	7.2	0
80	Frontispiz: Chemical Vapor Deposition of Ionic Liquids for the Fabrication of Ionogel Films and Patterns. Angewandte Chemie, 2021, 133, .	1.6	0