

Fan Zhang

List of Publications by Year in descending order

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45
papers

1,476
citations

361413

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330143

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times ranked

1348
citing authors

#	ARTICLE	IF	CITATIONS
1	Layered double hydroxide (LDH) for multi-functionalized corrosion protection of metals: A review. <i>Journal of Materials Science and Technology</i> , 2022, 102, 232-263.	10.7	112
2	Hydrogen-Induced Micro-Strain Evolution in Super Duplex Stainless Steel—Correlative High-Energy X-Ray Diffraction, Electron Backscattered Diffraction, and Digital Image Correlation. <i>Frontiers in Materials</i> , 2022, 8, .	2.4	6
3	Solubility and thermodynamic properties of N-phenylanthranilic acid in Water+Methanol/Ethanol/tert-butanol binary solvents from 283.15K to 323.15K. <i>Journal of Chemical Thermodynamics</i> , 2022, 168, 106748.	2.0	4
4	Reply to Comment on “Corrosion-induced microstructure degradation of copper in sulfide-containing simulated anoxic groundwater studied by synchrotron high-energy X-ray diffraction and ab-initio density functional theory calculation” <i>Corrosion Science</i> , 2022, 199, 110183.	6.6	2
5	Temperature effect on mechanical strength and frictional properties of polytetrafluoroethylene-based core-shell nanocomposites. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49929.	2.6	5
6	Effects of surface micro-structures on capacitances of the dielectric layer in triboelectric nanogenerator: A numerical simulation study. <i>Nano Energy</i> , 2021, 79, 105432.	16.0	18
7	Corrosion-induced microstructure degradation of copper in sulfide-containing simulated anoxic groundwater studied by synchrotron high-energy X-ray diffraction and ab-initio density functional theory calculation. <i>Corrosion Science</i> , 2021, 184, 109390.	6.6	15
8	Real-Time and Online Lubricating Oil Condition Monitoring Enabled by Triboelectric Nanogenerator. <i>ACS Nano</i> , 2021, 15, 11869-11879.	14.6	56
9	Interactions in Composite Film Formation of Mefp-1/graphene on Carbon Steel. <i>Coatings</i> , 2021, 11, 1161.	2.6	2
10	Corrosion mechanism of CuAl-NiC abrasable seal coating system—The influence of porosity, multiphase, and multilayer structure on the corrosion failure. <i>Journal of Materials Science and Technology</i> , 2021, 88, 258-269.	10.7	18
11	Corrosion inhibition of pre-formed mussel adhesive protein (Mefp-1) film to magnesium alloy. <i>Corrosion Science</i> , 2020, 164, 108309.	6.6	15
12	Anodisation of aluminium alloy AA7075 — Influence of intermetallic particles on anodic oxide growth. <i>Corrosion Science</i> , 2020, 164, 108319.	6.6	31
13	Enhanced corrosion protection by Al surface immobilization of in-situ grown layered double hydroxide films co-intercalated with inhibitors and low surface energy species. <i>Corrosion Science</i> , 2020, 164, 108340.	6.6	48
14	Corrosion- and wear-resistant composite film of graphene and mussel adhesive proteins on carbon steel. <i>Corrosion Science</i> , 2020, 164, 108351.	6.6	22
15	Operando time- and space-resolved high-energy X-ray diffraction measurement to understand hydrogen-microstructure interactions in duplex stainless steel. <i>Corrosion Science</i> , 2020, 175, 108899.	6.6	10
16	Metastable precursor structures in hydrogen-infused super duplex stainless steel microstructure — An operando diffraction experiment. <i>Corrosion Science</i> , 2020, 176, 109021.	6.6	14
17	2-Cyanopyridine as a corrosion inhibitor for mild steel: An in silico study. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	0
18	Multidimensional insights into the corrosion inhibition of 3,3-dithiodipropionic acid on Q235 steel in H2SO4 medium: A combined experimental and in silico investigation. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 116-124.	9.4	193

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19	Lateral variation of the native passive film on super duplex stainless steel resolved by synchrotron hard X-ray photoelectron emission microscopy. <i>Corrosion Science</i> , 2020, 174, 108841.	6.6	22
20	Time-resolved grazing-incidence X-ray diffraction measurement to understand the effect of hydrogen on surface strain development in super duplex stainless steel. <i>Scripta Materialia</i> , 2020, 187, 63-67.	5.2	8
21	Electrochemical and Computational Studies on the Corrosion Inhibition of Mild Steel by 1-Hexadecyl-3-methylimidazolium Bromide in HCl Medium. <i>International Journal of Electrochemical Science</i> , 2020, 15, 1893-1903.	1.3	29
22	Synergistic effect of potassium iodide and sodium dodecyl sulfonate on the corrosion inhibition of carbon steel in HCl medium: a combined experimental and theoretical investigation. <i>RSC Advances</i> , 2020, 10, 15163-15170.	3.6	85
23	Mussel-Inspired Graphene Film with Enhanced Durability as a Macroscale Solid Lubricant. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31386-31392.	8.0	22
24	Gravity on Crystallization of Lysozyme: Slower or Faster?. <i>Crystal Growth and Design</i> , 2019, 19, 7402-7410.	3.0	6
25	Recent Development of Corrosion Protection Strategy Based on Mussel Adhesive Protein. <i>Frontiers in Materials</i> , 2019, 6, .	2.4	9
26	Characterization of Native Oxide and Passive Film on Austenite/Ferrite Phases of Duplex Stainless Steel Using Synchrotron HAXPEEM. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3336-C3340.	2.9	22
27	A Composite Corrosion Inhibitor of MgAl Layered Double Hydroxides Co-Intercalated with Hydroxide and Organic Anions for Carbon Steel in Simulated Carbonated Concrete Pore Solutions. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3106-C3113.	2.9	24
28	Investigation and application of mussel adhesive protein nanocomposite film-forming inhibitor for reinforced concrete engineering. <i>Corrosion Science</i> , 2019, 153, 333-340.	6.6	22
29	Insight into the Fabrication of ZnAl Layered Double Hydroxides Intercalated with Organic Anions and Their Corrosion Protection of Steel Reinforced Concrete. <i>Journal of the Electrochemical Society</i> , 2019, 166, C617-C623.	2.9	16
30	Influence of Cr doping on the oxygen evolution potential of SnO ₂ /Ti and Sb-SnO ₂ /Ti electrodes. <i>Journal of Electroanalytical Chemistry</i> , 2019, 832, 436-443.	3.8	37
31	Review on Life Cycle of Parabens: Synthesis, Degradation, Characterization and Safety Analysis. <i>Current Organic Chemistry</i> , 2018, 22, 769-779.	1.6	18
32	Tunable Adsorption and Film Formation of Mussel Adhesive Protein by Potential Control. <i>Langmuir</i> , 2017, 33, 8749-8756.	3.5	6
33	Heating-Induced Enhancement of Corrosion Protection of Carbon Steel by a Nanocomposite Film Containing Mussel Adhesive Protein. <i>Journal of the Electrochemical Society</i> , 2017, 164, C188-C193.	2.9	6
34	Integration of electrochemical and synchrotron-based X-ray techniques for in-situ investigation of aluminum anodization. <i>Electrochimica Acta</i> , 2017, 241, 299-308.	5.2	19
35	Corrosion Protection and Self-Healing of a Nanocomposite Film of Mussel Adhesive Protein and CeO ₂ Nanoparticles on Carbon Steel. <i>Journal of the Electrochemical Society</i> , 2016, 163, C545-C552.	2.9	20
36	In Situ and Operando AFM and EIS Studies of Anodization of Al 6060: Influence of Intermetallic Particles. <i>Journal of the Electrochemical Society</i> , 2016, 163, C609-C618.	2.9	48

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37	The thickness of native oxides on aluminum alloys and single crystals. Applied Surface Science, 2015, 349, 826-832.	6.1	174
38	Corrosion Inhibition of Two Brass Alloys by Octadecanethiol in Humidified Air with Formic Acid. Corrosion, 2015, 71, 908-917.	1.1	6
39	<i>In situ</i> anodization of aluminum surfaces studied by x-ray reflectivity and electrochemical impedance spectroscopy. Journal of Applied Physics, 2014, 116, .	2.5	17
40	In situ confocal Raman micro-spectroscopy and electrochemical studies of mussel adhesive protein and ceria composite film on carbon steel in salt solutions. Electrochimica Acta, 2013, 107, 276-291.	5.2	31
41	In situ investigations of Fe ³⁺ induced complexation of adsorbed Mefp-1 protein film on iron substrate. Journal of Colloid and Interface Science, 2013, 404, 62-71.	9.4	28
42	Electrochemical, atomic force microscopy and infrared reflection absorption spectroscopy studies of pre-formed mussel adhesive protein films on carbon steel for corrosion protection. Thin Solid Films, 2012, 520, 7136-7143.	1.8	18
43	Thin Composite Films of Mussel Adhesive Proteins and Ceria Nanoparticles on Carbon Steel for Corrosion Protection. Journal of the Electrochemical Society, 2012, 159, C364-C371.	2.9	23
44	Electrochemical and AFM studies of mussel adhesive protein (Mefp-1) as corrosion inhibitor for carbon steel. Electrochimica Acta, 2011, 56, 1636-1645.	5.2	87
45	Localized corrosion behaviour of reinforcement steel in simulated concrete pore solution. Corrosion Science, 2009, 51, 2130-2138.	6.6	102