

Kevin Ogle

List of Publications by Year in descending order

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96
papers

4,290
citations

81889

39
h-index

118840

62
g-index

96
all docs

96
docs citations

96
times ranked

2435
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Mn Content on the Passivation and Corrosion of Al _{0.3} Cr _{0.5} Fe ₂ Mn _x Mo _{0.15} Ni _{1.5} Ti _{0.3} Compositionally Complex Face-Centered Cubic Alloys. <i>Corrosion</i> , 2022, 78, 32-48.	1.1	11
2	Spontaneous passivation of the CoCrFeMnNi high entropy alloy in sulfuric acid solution: The effects of alloyed nitrogen and dissolved oxygen. <i>Corrosion Science</i> , 2022, 196, 110016.	6.6	15
3	A Tribological and Ion Released Research of Ti-Materials for Medical Devices. <i>Materials</i> , 2022, 15, 131.	2.9	4
4	Recent insights in corrosion science from atomic spectroelectrochemistry. <i>Electrochemical Science Advances</i> , 2022, 2, .	2.8	7
5	Investigating the Role of Mo and Cr during the Activation and Passivation of Ni-Based Alloys in Acidic Chloride Solution. <i>Journal of the Electrochemical Society</i> , 2021, 168, 021509.	2.9	22
6	Potential Dependent Mn Oxidation and Its Role in Passivation of Ni ₃₈ Fe ₂₀ Cr ₂₂ Mn ₁₀ Co ₁₀ Multi-Principal Element Alloy Using Multi-Element Resolved Atomic Emission Spectroelectrochemistry. <i>Journal of the Electrochemical Society</i> , 2021, 168, 051508.	2.9	15
7	Transient stainless-steel dissolution and its consequences on ex-situ bipolar plate testing procedures. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 984-995.	7.1	16
8	Aqueous passivation of multi-principal element alloy Ni ₃₈ Fe ₂₀ Cr ₂₂ Mn ₁₀ Co ₁₀ : Unexpected high Cr enrichment within the passive film. <i>Acta Materialia</i> , 2020, 198, 121-133.	7.9	64
9	Zr-based conversion coating on Zn and Zn-Al-Mg alloy coating: Understanding the accelerating effect of Cu(II) and NO ₃ ⁻ . <i>Surface and Coatings Technology</i> , 2020, 402, 126236.	4.8	17
10	The contribution of Cr and Mo to the passivation of Ni ₂₂ Cr and Ni ₂₂ Cr ₁₀ Mo alloys in sulfuric acid. <i>Corrosion Science</i> , 2020, 176, 109015.	6.6	39
11	Refining anodic and cathodic dissolution mechanisms: combined AESEC-EIS applied to Al-Zn pure phase in alkaline solution. <i>Npj Materials Degradation</i> , 2020, 4, .	5.8	5
12	Communicationâ€”Dissolution and Passivation of a Ni-Cr-Fe-Ru-Mo-W High Entropy Alloy by Elementally Resolved Electrochemistry. <i>Journal of the Electrochemical Society</i> , 2020, 167, 061505.	2.9	18
13	Effect of added porosity on a novel porous Ti-Nb-Ta-Fe-Mn alloy exposed to simulated body fluid. <i>Materials Science and Engineering C</i> , 2020, 111, 110758.	7.3	13
14	Atomic Emission Spectroelectrochemistry: Real-Time Rate Measurements of Dissolution, Corrosion, and Passivation. <i>Corrosion</i> , 2019, 75, 1398-1419.	1.1	55
15	Silicon enrichment of an austenitic stainless steel â€” Impact on electrochemical behavior in concentrated nitric acid with oxidizing ions. <i>Electrochimica Acta</i> , 2019, 322, 134703.	5.2	14
16	Investigating ion release using inline ICP during in situ scratch testing of an Mg-Li(-Al-Y-Zr) alloy. <i>Electrochemistry Communications</i> , 2019, 99, 46-50.	4.7	24
17	The Passivation of Ni-Cr-Mo Alloys: Time Resolved Enrichment and Dissolution of Cr and Mo during Passive-Active Cycles. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3179-C3185.	2.9	34
18	Communicationâ€”Hydrogen Evolution and Elemental Dissolution by Combined Gravimetric Method and Atomic Emission Spectroelectrochemistry. <i>Journal of the Electrochemical Society</i> , 2019, 166, C3068-C3070.	2.9	10

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19	Molybdenum surface enrichment and release during transpassive dissolution of Ni-based alloys. <i>Corrosion Science</i> , 2019, 147, 32-40.	6.6	55
20	Temperature Dependence of the Passivation and Dissolution of Al, Zn, and δ -Phase Zn-68Al. <i>Corrosion</i> , 2019, 75, 69-79.	1.1	5
21	The anodic and cathodic dissolution of δ -phase Zn-68Al in alkaline media. <i>Corrosion Science</i> , 2019, 148, 1-11.	6.6	12
22	Cathodic Dealloying of δ -Phase Al-Zn in Slightly Alkaline Chloride Electrolyte and Its Consequence for Corrosion Resistance. <i>Journal of the Electrochemical Society</i> , 2018, 165, C334-C342.	2.9	13
23	The kinetics of transpassive dissolution chemistry of stainless steels in nitric acid: The impact of Si. <i>Electrochimica Acta</i> , 2017, 258, 653-661.	5.2	26
24	Dissolution and Passivation of a Silicon-Rich Austenitic Stainless Steel during Active-Passive Cycles in Sulfuric and Nitric Acid. <i>Journal of the Electrochemical Society</i> , 2017, 164, C892-C900.	2.9	21
25	The effect of absorbed hydrogen on the dissolution of steel. <i>Heliyon</i> , 2016, 2, e00209.	3.2	33
26	On the effect of Fe concentration on Mg dissolution and activation studied using atomic emission spectroelectrochemistry and scanning electrochemical microscopy. <i>Electrochimica Acta</i> , 2016, 210, 271-284.	5.2	40
27	Amino Acid Interleaved Layered Double Hydroxides as Promising Hybrid Materials for AA2024 Corrosion Inhibition. <i>European Journal of Inorganic Chemistry</i> , 2016, 2016, 2006-2016.	2.0	33
28	The anodic dissolution of copper alloys: Pure copper in synthetic tap water. <i>Electrochimica Acta</i> , 2016, 191, 548-557.	5.2	27
29	Factors Affecting MoO_4^{2-} Inhibitor Release from Zn_2Al Based Layered Double Hydroxide and Their Implication in Protecting Hot Dip Galvanized Steel by Means of Organic Coatings. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 25180-25192.	8.0	83
30	Observation of L-cysteine enhanced zinc dissolution during cathodic polarization and its consequences for corrosion rate measurements. <i>Electrochimica Acta</i> , 2015, 184, 203-213.	5.2	15
31	Influence of magnesium content on the corrosion resistance of the cut-edges of Zn-Mg-coated steel. <i>Corrosion Science</i> , 2015, 97, 100-106.	6.6	29
32	MoO_4^{2-} as a soluble inhibitor for Zn in neutral and alkaline solutions. <i>Corrosion Science</i> , 2015, 99, 31-41.	6.6	32
33	A novel coupling of electrochemical impedance spectroscopy with atomic emission spectroelectrochemistry: Application to the open circuit dissolution of zinc. <i>Electrochimica Acta</i> , 2015, 168, 167-172.	5.2	14
34	The effects of L-cysteine on the inhibition and accelerated dissolution processes of zinc metal. <i>Corrosion Science</i> , 2015, 100, 101-112.	6.6	24
35	Revisiting the Electrochemical Impedance Spectroscopy of Magnesium with Online Inductively Coupled Plasma Atomic Emission Spectroscopy. <i>ChemPhysChem</i> , 2015, 16, 536-539.	2.1	78
36	Corrosion mechanisms of Zn(Mg,Al) coated steel: 2. The effect of Mg and Al alloying on the formation and properties of corrosion products in different electrolytes. <i>Corrosion Science</i> , 2015, 90, 482-490.	6.6	94

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37	Mg Dissolution in Phosphate and Chloride Electrolytes: Insight into the Mechanism of the Negative Difference Effect. <i>Corrosion</i> , 2015, 71, 234-241.	1.1	57
38	Corrosion mechanisms of Zn(Mg, Al) coated steel in accelerated tests and natural exposure: 1. The role of electrolyte composition in the nature of corrosion products and relative corrosion rate. <i>Corrosion Science</i> , 2015, 90, 472-481.	6.6	89
39	Corrosion mechanisms of Zn(Mg,Al) coated steel: The effect of HCO ₃ ²⁻ and NH ₄ ⁺ ions on the intrinsic reactivity of the coating. <i>Electrochimica Acta</i> , 2015, 153, 159-169.	5.2	40
40	Dealloying of Al ₂ Cu, Al ₇ Cu ₂ Fe, and Al ₂ CuMg intermetallic phases to form nanoparticulate copper films. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , 2014, 65, 416-424.	1.5	48
41	The effect of synthetic zinc corrosion products on corrosion of electrogalvanized steel. II. Zinc reactivity and galvanic coupling zinc/steel in presence of zinc corrosion products. <i>Corrosion Science</i> , 2014, 83, 32-37.	6.6	38
42	Anticorrosion mechanisms of aluminized steel for hot stamping. <i>Surface and Coatings Technology</i> , 2014, 238, 188-196.	4.8	66
43	The effect of synthetic zinc corrosion products on corrosion of electrogalvanized steel: I. Cathodic reactivity under zinc corrosion products. <i>Corrosion Science</i> , 2014, 81, 11-20.	6.6	44
44	Adsorption and electroreduction of hematite particles on steel in strong alkaline media. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 440, 197-201.	4.7	12
45	Surface potential of hematite particles in high concentration electrolytes: Electroacoustic measurements and suspension stability. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 443, 338-344.	4.7	9
46	On the cathodic dissolution of Al and Al alloys. <i>Electrochimica Acta</i> , 2014, 124, 9-16.	5.2	42
47	A novel approach to on-line measurement of gas evolution kinetics: Application to the negative difference effect of Mg in chloride solution. <i>Electrochimica Acta</i> , 2014, 124, 176-182.	5.2	98
48	The effect of an artificially synthesized simonkolleite layer on the corrosion of electrogalvanized steel. <i>Corrosion Science</i> , 2013, 70, 1-10.	6.6	50
49	The effect of pH on the selective dissolution of Zn and Al from Zn-Al coatings on steel. <i>Corrosion Science</i> , 2013, 67, 42-49.	6.6	67
50	On the Origin of the Second Anodic Peak During the Polarization of Stainless Steel in Sulfuric Acid. <i>Corrosion</i> , 2013, 69, 536-542.	1.1	8
51	Aqueous Corrosion of Mg-Al Binary Alloys: Roles of Al and Mg. <i>Corrosion</i> , 2012, 68, 557-570.	1.1	33
52	The initial release of zinc and aluminum from non-treated Galvalume and the formation of corrosion products in chloride containing media. <i>Applied Surface Science</i> , 2012, 258, 4351-4359.	6.1	35
53	The degradation of phosphate conversion coatings by electrochemically generated hydroxide. <i>Corrosion Science</i> , 2012, 55, 76-89.	6.6	29
54	Activation and inhibition of Zn-Al and Zn-Al-Mg coatings on steel by nitrate in phosphoric acid solution. <i>Corrosion Science</i> , 2012, 60, 256-264.	6.6	38

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55	Reliability of numerical models for simulating galvanic corrosion processes. <i>Electrochimica Acta</i> , 2012, 82, 349-355.	5.2	47
56	The anodic dissolution of zinc and zinc alloys in alkaline solution. II. Al and Zn partial dissolution from 5% Al–Zn coatings. <i>Electrochimica Acta</i> , 2012, 74, 130-138.	5.2	47
57	Atomic emission spectroelectrochemistry study of the degradation mechanism of model high-temperature paint containing sacrificial aluminum particles. <i>Surface and Coatings Technology</i> , 2012, 206, 2133-2139.	4.8	18
58	An atomic emission spectroelectrochemical study of passive film formation and dissolution on galvanized steel treated with silicate conversion coatings. <i>Surface and Coatings Technology</i> , 2012, 206, 3151-3157.	4.8	33
59	Modeling bimetallic corrosion under thin electrolyte films. <i>Corrosion Science</i> , 2011, 53, 201-207.	6.6	76
60	An atomic emission spectroelectrochemical study of corrosion inhibition: The effect of hexamethylenetetramine on the reaction of mild steel in HCl. <i>Corrosion Science</i> , 2011, 53, 1362-1368.	6.6	21
61	Understanding corrosion via corrosion product characterization: II. Role of alloying elements in improving the corrosion resistance of Zn–Al–Mg coatings on steel. <i>Corrosion Science</i> , 2011, 53, 2437-2445.	6.6	174
62	Protective mechanisms occurring on zinc coated steel cut-edges in immersion conditions. <i>Electrochimica Acta</i> , 2011, 56, 8347-8357.	5.2	69
63	Dissolution and passive film formation of Sn and Sn coated steel using atomic emission spectroelectrochemistry. <i>Electrochimica Acta</i> , 2011, 58, 322-329.	5.2	12
64	An SKP and EIS investigation of amine adsorption on zinc oxide surfaces. <i>Surface and Interface Analysis</i> , 2011, 43, 1286-1298.	1.8	13
65	The cathodic dissolution of Al, Al ₂ Cu, and Al alloys. <i>Electrochimica Acta</i> , 2011, 56, 1711-1718.	5.2	52
66	Atomic emission spectroelectrochemical investigation of the anodization of AA7050T74 aluminum alloy. <i>Electrochemistry Communications</i> , 2011, 13, 42-45.	4.7	14
67	Atomic emission spectroelectrochemistry applied to dealloying phenomena II. Selective dissolution of iron and chromium during active–passive cycles of an austenitic stainless steel. <i>Electrochimica Acta</i> , 2010, 55, 913-921.	5.2	52
68	The anodic and cathodic dissolution of Al and Al–Cu–Mg alloy. <i>Electrochimica Acta</i> , 2010, 55, 3779-3786.	5.2	81
69	The anodic dissolution of zinc and zinc alloys in alkaline solution. I. Oxide formation on electrogalvanized steel. <i>Electrochimica Acta</i> , 2010, 55, 7867-7875.	5.2	77
70	The Adsorption of Hematite Particles on Steel in Strongly Alkaline Electrolyte. <i>Journal of the Electrochemical Society</i> , 2010, 157, E24.	2.9	23
71	The anodic dissolution of Mg in NaCl and Na ₂ SO ₄ electrolytes by atomic emission spectroelectrochemistry. <i>Corrosion Science</i> , 2010, 52, 2372-2378.	6.6	112
72	Molecular modelling by DFT of 1,2-diaminoethane adsorbed on the Zn-terminated and O-terminated, anhydrous and hydroxylated ZnO (0001) surface. <i>Superlattices and Microstructures</i> , 2009, 46, 19-24.	3.1	20

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73	Atomic emission spectroelectrochemistry applied to dealloying phenomena: I. The formation and dissolution of residual copper films on stainless steel. <i>Electrochimica Acta</i> , 2009, 54, 5163-5170.	5.2	77
74	Understanding corrosion via corrosion product characterization: I. Case study of the role of Mg alloying in Zn-Mg coating on steel. <i>Corrosion Science</i> , 2009, 51, 1251-1262.	6.6	210
75	Investigations of Cut-edge Corrosion of Galvanized Steels by the Scanning Vibrating Electrode Technique. <i>ECS Transactions</i> , 2008, 11, 91-105.	0.5	19
76	Investigation of self-healing mechanism on galvanized steels cut edges by coupling SVET and numerical modeling. <i>Electrochimica Acta</i> , 2008, 53, 5226-5234.	5.2	122
77	Adsorption of 1,2-diaminoethane on ZnO thin films from p-xylene. <i>Applied Surface Science</i> , 2008, 254, 5530-5539.	6.1	31
78	Impedance characterization of the electrochemical environment under a polymer film artificially delaminated. <i>Electrochimica Acta</i> , 2008, 53, 6484-6488.	5.2	4
79	A Mathematical Model for Cathodic Delamination of Coated Metal Including a Kinetic pH-Porosity Relationship. <i>Journal of the Electrochemical Society</i> , 2008, 155, C279.	2.9	20
80	Predictive Model for Cut-Edge Corrosion of Galvanized Steels. <i>ECS Transactions</i> , 2007, 3, 343-353.	0.5	6
81	Mathematical model for cathodic delamination using a porosity-pH relationship. <i>Corrosion Science</i> , 2007, 49, 3638-3658.	6.6	25
82	The acid-base properties of the surface of native zinc oxide layers: An XPS study of adsorption of 1,2-diaminoethane. <i>Applied Surface Science</i> , 2007, 253, 6860-6867.	6.1	120
83	An electrochemical study of the delamination of polymer coatings on galvanized steel. <i>Corrosion Science</i> , 2005, 47, 2034-2052.	6.6	63
84	The alkaline stability of phosphate coatings I: ICP atomic emission spectroelectrochemistry. <i>Corrosion Science</i> , 2004, 46, 979-995.	6.6	93
85	The alkaline stability of phosphate coatings II: in situ Raman spectroscopy. <i>Corrosion Science</i> , 2004, 46, 997-1011.	6.6	57
86	Investigation of zinc chromatation. I. Application of QCM-ICP coupling. <i>Electrochimica Acta</i> , 2003, 48, 965-976.	5.2	24
87	Investigation of zinc chromatation. <i>Electrochimica Acta</i> , 2003, 48, 1483-1490.	5.2	23
88	Passivation of Fe-Cr alloys studied with ICP-AES and EQCM. <i>Corrosion Science</i> , 2002, 44, 1443-1456.	6.6	96
89	Anodic Dissolution of 304 Stainless Steel Using Atomic Emission Spectroelectrochemistry. <i>Journal of the Electrochemical Society</i> , 2000, 147, 1770.	2.9	131
90	Localized Electrochemical Methods Applied to Cut Edge Corrosion. <i>Journal of the Electrochemical Society</i> , 2000, 147, 3654.	2.9	142

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91	In Situ Monitoring of Phosphatation Reactions on Zn Using the Quartz Crystal Microbalance. Journal of the Electrochemical Society, 1994, 141, 2655-2658.	2.9	11
92	Isotope effects in water formation on Pt(111). Surface Science, 1986, 169, 425-437.	1.9	20
93	Hydrogen isotope exchange in alkylidynes on Pt(111). Surface Science, 1986, 165, 234-250.	1.9	25
94	The formation and decomposition kinetics of alkylidynes on Pt(111). Surface Science, 1986, 169, 246-266.	1.9	79
95	The low temperature water formation reaction on Pt(111): A static SIMS and TDS study. Surface Science, 1984, 139, 43-62.	1.9	100
96	Direct observation of hydrogen-deuterium exchange in ethylidyne adsorbed on Pt(111). Surface Science, 1984, 138, L137-L141.	1.9	31