

# Digby D Macdonald

## 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.

161  
papers

8,190  
citations

47  
h-index

87  
g-index

168  
ext. papers

9,297  
ext. citations

5  
avg, IF

6.63  
L-index

#	Paper	IF	Citations
161	Point defect model for passivity breakdown on hyper-duplex stainless steel 2707 in solutions containing bromide at different temperatures. <i>Corrosion Science</i> , <b>2022</b> , 194, 109959	6.8	3
160	Electrochemical measurements used for assessment of corrosion and protection of metallic materials in the field: A critical review. <i>Journal of Materials Science and Technology</i> , <b>2022</b> , 112, 151-183	9.1	17
159	Effect of Chloride on the Pitting Corrosion of Carbon Steel in Alkaline Solutions. <i>Journal of the Electrochemical Society</i> , <b>2022</b> , 169, 031501	3.9	0
158	Mixed potential model for passivity characters of hyper-duplex stainless steel 2707 in ammonium carbonate solution containing chloride. <i>Corrosion Science</i> , <b>2022</b> , 110302	6.8	0
157	Corrosion of rebar in concrete. Part IV. On the theoretical basis of the chloride threshold. <i>Corrosion Science</i> , <b>2021</b> , 185, 109460	6.8	6
156	Corrosion of rebar in concrete. Part III: Artificial Neural Network analysis of chloride threshold data. <i>Corrosion Science</i> , <b>2021</b> , 185, 109438	6.8	3
155	Corrosion of rebar in concrete. Part II: Literature survey and statistical analysis of existing data on chloride threshold. <i>Corrosion Science</i> , <b>2021</b> , 185, 109439	6.8	7
154	Studies on the degree of sensitization of hyper-duplex stainless steel 2707 at 900? using a modified DL-EPR test. <i>Corrosion Science</i> , <b>2021</b> , 185, 109432	6.8	7
153	Combating marine corrosion on engineered oxide surface by repelling, blocking and capturing Cl <sup>-</sup> A mini review. <i>Corrosion Communications</i> , <b>2021</b> , 2, 1-7		8
152	Electrochemical study of the dissolution of oxide films grown on type 316L stainless steel in molten fluoride salt. <i>Corrosion Science</i> , <b>2021</b> , 186, 109457	6.8	6
151	Corrosion characteristics and mechanisms of typical Ni-based corrosion-resistant alloys in sub- and supercritical water. <i>Journal of Supercritical Fluids</i> , <b>2021</b> , 170, 105138	4.2	9
150	Spent Li-Ion Battery Graphite Turned Into Valuable and Active Catalyst for Electrochemical Oxygen Reduction. <i>ChemSusChem</i> , <b>2021</b> , 14, 1103-1111	8.3	9
149	Overview of anaerobic corrosion of carbon steel radioactive waste packages in alkaline media in support of the Belgian supercontainer concept. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2021</b> , 72, 32-51	1.6	0
148	The inhibition of type 304LSS general corrosion in hydrochloric acid by the New Fuchsin compound. <i>Corrosion Science</i> , <b>2021</b> , 178, 109072	6.8	4
147	General corrosion of carbon steel in a synthetic concrete pore solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2021</b> , 72, 107-119	1.6	5
146	Pitting of carbon steel in the synthetic concrete pore solution. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2021</b> , 72, 166-193	1.6	3
145	Effect of Cu on the passivity of Ti <sub>x</sub> Cu (x = 0, 3 and 5wt%) alloy in phosphate-buffered saline solution within the framework of PDM-II. <i>Electrochimica Acta</i> , <b>2021</b> , 386, 138466	6.7	7

144	Study the existing form of copper (p-type oxide/segregation) and its release mechanism from the passive film of Ti-7Cu alloy. <i>Corrosion Science</i> , <b>2021</b> , 190, 109693	6.8	2
143	An Electrochemical Impedance Spectroscopic Study of Oxide Films in Liquid Metal. <i>Jom</i> , <b>2020</b> , 72, 2082-2088		1
142	Monte-Carlo Simulation of Pitting Corrosion with a Deterministic Model for Repassivation. <i>Journal of the Electrochemical Society</i> , <b>2020</b> , 167, 013540	3.9	5
141	Galvanic corrosion of Type 316L stainless steel and Graphite in molten fluoride salt. <i>Corrosion Science</i> , <b>2020</b> , 170, 108677	6.8	11
140	Kinetic study of hydrogen transport in graphite under molten fluoride salt environment. <i>Electrochimica Acta</i> , <b>2020</b> , 352, 136459	6.7	1
139	Effect of the chloride on passivity breakdown of Al-Zn-Mg alloy. <i>Corrosion Science</i> , <b>2020</b> , 163, 108254	6.8	13
138	Point defect model for the corrosion of steels in supercritical water: Part I, film growth kinetics. <i>Corrosion Science</i> , <b>2020</b> , 163, 108280	6.8	69
137	Corrosion behavior of carbon steel in dilute ammonia solution. <i>Electrochimica Acta</i> , <b>2020</b> , 364, 137295	6.7	2
136	Corrosion of rebar in concrete. Part I: Calculation of the corrosion potential in the passive state. <i>Corrosion Science</i> , <b>2020</b> , 177, 109018	6.8	10
135	Corrosion Characteristics of Typical NiCr Alloys and NiCrMo Alloys in Supercritical Water: A Review. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 18727-18739	3.9	9
134	Re-defining the kinetics of redox reactions on passive metal surfaces. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 2663-2677	2.6	0
133	Effect of Temperature on Corrosion of Carbon Steel in Simulated Concrete Pore Solution under Anoxic Conditions. <i>Corrosion Science</i> , <b>2020</b> , 175, 108886	6.8	15
132	Effects of temperature and pH on the electrochemical behaviour of alloy 600 in simulated pressurized water reactor primary water. <i>Journal of Nuclear Materials</i> , <b>2020</b> , 528, 151850	3.3	4
131	Passivity of titanium, part IV: reversible oxygen vacancy generation/annihilation. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 2863-2879	2.6	8
130	Passivity of martensitic stainless steel in borate buffer solution: Influence of sulfide ion. <i>Applied Surface Science</i> , <b>2019</b> , 478, 255-265	6.7	10
129	Studies on Pitting Corrosion of Al-Cu-Li Alloys Part I: Effect of Li Addition by Microstructural, Electrochemical, In-situ, and Pit Depth Analysis. <i>Materials</i> , <b>2019</b> , 12,	3.5	13
128	Studies on Pitting Corrosion of Al-Cu-Li Alloys Part III: Passivation Kinetics of AA2098-T851 Based on the Point Defect Model. <i>Materials</i> , <b>2019</b> , 12,	3.5	6
127	Studies on Pitting Corrosion of Al-Cu-Li Alloys Part II: Breakdown Potential and Pit Initiation. <i>Materials</i> , <b>2019</b> , 12,	3.5	7

126	On the nature of the electric field within the barrier layer of a passive film. <i>Electrochimica Acta</i> , <b>2019</b> , 313, 367-377	6.7	7
125	Passivity of titanium: part II, the defect structure of the anodic oxide film. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 1967-1979	2.6	14
124	Predictions and Analyses on the Growth Behavior of Oxide Scales Formed on Ferritic-Martensitic in Supercritical Water. <i>Oxidation of Metals</i> , <b>2019</b> , 92, 27-48	1.6	12
123	The passivity of titanium part III: characterization of the anodic oxide film. <i>Journal of Solid State Electrochemistry</i> , <b>2019</b> , 23, 2001-2008	2.6	11
122	Determining the electric-field strength in a passive film via photo-induced electric fields. <i>Corrosion Science</i> , <b>2019</b> , 154, 239-245	6.8	5
121	Prediction of corrosion fatigue crack growth rate in alloys. Part II: effect of electrochemical potential, NaCl concentration, and temperature on crack propagation in AA2024-T351. <i>Corrosion Science</i> , <b>2019</b> , 152, 130-139	6.8	7
120	Modelling and Analysis of the Corrosion Characteristics of Ferritic-Martensitic Steels in Supercritical Water. <i>Materials</i> , <b>2019</b> , 12,	3.5	12
119	The electrochemical properties of alloy 690 in simulated pressurized water reactor primary water: Effect of temperature. <i>Journal of Nuclear Materials</i> , <b>2019</b> , 518, 305-315	3.3	11
118	Passivity breakdown on copper: Influence of borate anion. <i>Electrochimica Acta</i> , <b>2019</b> , 320, 134545	6.7	4
117	Theoretical and experimental studies of passivity breakdown of Aermet 100 ultra-high stainless steel in chloride ion medium. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 2020-2032	1.6	1
116	Investigation of artificial pit growth in carbon steel in highly alkaline solutions containing 0.5 M NaCl under oxic and anoxic conditions. <i>Electrochimica Acta</i> , <b>2019</b> , 320, 134554	6.7	7
115	Passive film on 2205 duplex stainless steel studied by photo-electrochemistry and ARXPS methods. <i>Corrosion Science</i> , <b>2019</b> , 146, 221-232	6.8	47
114	Passivity breakdown on 436 ferritic stainless steel in solutions containing chloride. <i>Journal of Materials Science and Technology</i> , <b>2019</b> , 35, 637-643	9.1	8
113	Effect of tungsten alloying on passivity breakdown of nickel. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 216-233	1.6	2
112	Hydrogen permeation in 2205 duplex stainless steel under hydrostatic pressure and simulation by COMSOL. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2019</b> , 70, 838-852	1.6	1
111	An advanced coupled environment fracture model for hydrogen-induced cracking in alloy 600 in PWR primary heat transport environment. <i>Theoretical and Applied Fracture Mechanics</i> , <b>2018</b> , 95, 233-241	3.7	5
110	Investigation on early formation and evolution of oxide scales on ferritic-Martensitic steels in supercritical water. <i>Corrosion Science</i> , <b>2018</b> , 135, 136-146	6.8	41
109	Measuring Techniques and Data Analysis <b>2018</b> , 107-174		3

108	Customization of the coupled environment fracture model for predicting stress corrosion cracking in Alloy 600 in PWR environment. <i>Corrosion Science</i> , <b>2018</b> , 139, 58-67	6.8	6
107	Electromagnetic induction corrosion control technology (EICCT). <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2018</b> , 69, 436-446	1.6	
106	Theoretical aspects of stress corrosion cracking of Alloy 22. <i>Journal of Nuclear Materials</i> , <b>2018</b> , 503, 124-139	3.3	3
105	Applications of Impedance Spectroscopy <b>2018</b> , 175-478		10
104	Modulating Schottky Barrier of MoS <sub>2</sub> to Enhance Hydrogen Evolution Reaction Activity by Incorporating with Vertical Graphene Nanosheets Derived from Organic Liquid Waste. <i>ChemElectroChem</i> , <b>2018</b> , 5, 3841-3846	4.3	4
103	Effect of SO <sub>2</sub> on the corrosion of 316L stainless steel in molten FLiNaK salt. <i>Corrosion Science</i> , <b>2018</b> , 144, 224-229	6.8	27
102	Prediction of corrosion fatigue crack growth rate in alloys. Part I: General corrosion fatigue model for aero-space aluminum alloys. <i>Corrosion Science</i> , <b>2018</b> , 141, 22-29	6.8	10
101	Electrochemical investigation and ab initio computation of passive film properties on copper in anaerobic sulphide solutions. <i>Corrosion Science</i> , <b>2017</b> , 116, 34-43	6.8	69
100	Passivity breakdown on 300 M and S280 ultra-high strength steels in borate buffer solutions containing chloride ion. <i>Electrochimica Acta</i> , <b>2017</b> , 251, 324-335	6.7	11
99	Passivity Breakdown on Copper: Influence of Temperature. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, C707-C717	3.9	26
98	Corrosion Considerations Related to Carbon Steel Radioactive Waste Packages Exposed to Cementitious Materials. <i>MRS Advances</i> , <b>2016</b> , 1, 4193-4199	0.7	1
97	Impact of Reversed Austenite on the Pitting Corrosion Behavior of Super 13Cr Martensitic Stainless Steel. <i>Electrochimica Acta</i> , <b>2016</b> , 191, 640-650	6.7	60
96	The Kinetics of Nucleation of Metastable Pits on Metal Surfaces: The Point Defect Model and Its Optimization on Data Obtained on Stainless Steel, Carbon Steel, Iron, Aluminum and Alloy-22. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, C156-C163	3.9	17
95	Ab initio calculation and electrochemical verification of a passivated surface on copper with defects in 0.1 M NaOH. <i>Electrochemistry Communications</i> , <b>2016</b> , 68, 62-66	5.1	22
94	Theoretical Interpretation of Anion Size Effects in Passivity Breakdown. <i>Journal of the Electrochemical Society</i> , <b>2016</b> , 163, C738-C744	3.9	14
93	Exploration of the effect of chloride ion concentration and temperature on pitting corrosion of carbon steel in saturated Ca(OH) <sub>2</sub> solution. <i>Corrosion Science</i> , <b>2015</b> , 98, 708-715	6.8	42
92	The Irreversibility of the Passive State of Carbon Steel in the Alkaline Concrete Pore Solution under Simulated Anoxic Conditions. <i>Journal of the Electrochemical Society</i> , <b>2015</b> , 162, C572-C581	3.9	19
91	L-cysteine/polydopamine nanoparticle-coatings for copper corrosion protection. <i>Corrosion Science</i> , <b>2015</b> , 91, 129-139	6.8	42

90	Prediction of primary water stress corrosion crack growth rates in Alloy 600 using artificial neural networks. <i>Corrosion Science</i> , <b>2015</b> , 92, 217-227	6.8	30
89	Passivity of titanium, part 1: film growth model diagnostics. <i>Journal of Solid State Electrochemistry</i> , <b>2014</b> , 18, 1485-1493	2.6	18
88	Prediction of crack growth rate in Type 304 stainless steel using artificial neural networks and the coupled environment fracture model. <i>Corrosion Science</i> , <b>2014</b> , 89, 69-80	6.8	29
87	On the shape of stress corrosion cracks in sensitized Type 304 SS in Boiling Water Reactor primary coolant piping at 288 °C. <i>Journal of Nuclear Materials</i> , <b>2014</b> , 454, 359-372	3.3	8
86	Passivity Breakdown on Copper: Influence of Chloride Ion. <i>Electrochimica Acta</i> , <b>2014</b> , 144, 391-399	6.7	48
85	Electrochemical Impedance Spectroscopy <b>2014</b> , 349-365		0
84	Volt Equivalent diagrams as a means of displaying the electrochemical thermodynamics of the sulfur/water system. <i>Corrosion Science</i> , <b>2014</b> , 81, 102-109	6.8	24
83	Deconvolution of the Partial Anodic and Cathodic Processes during the Corrosion of Carbon Steel in Concrete Pore Solution under Simulated Anoxic Conditions. <i>Electrochimica Acta</i> , <b>2014</b> , 143, 312-323	6.7	25
82	Customization of the CEFM for predicting stress corrosion cracking in lightly sensitized AlMg alloys in marine applications. <i>Journal of Solid State Electrochemistry</i> , <b>2013</b> , 17, 2319-2332	2.6	15
81	Modeling of the electrochemical impedance spectroscopic behavior of passive iron using a genetic algorithm approach. <i>Electrochimica Acta</i> , <b>2013</b> , 102, 161-173	6.7	69
80	A Comprehensive Electrochemical Impedance Spectroscopic Study of Passive Carbon Steel in Concrete Pore Water. <i>Journal of the Electrochemical Society</i> , <b>2013</b> , 160, C316-C325	3.9	20
79	Growth Kinetics of the Anodic Oxide Film on Platinum under Potentiodynamic Polarization Conditions. <i>Zeitschrift Fur Physikalische Chemie</i> , <b>2013</b> , 227, 541-559	3.1	5
78	Development of localized corrosion damage on low pressure turbine disks and blades: I. Passivity. <i>Electrochimica Acta</i> , <b>2012</b> , 69, 1-11	6.7	60
77	Development of localized corrosion damage on low pressure turbine disks and blades: II. Passivity breakdown. <i>Electrochimica Acta</i> , <b>2012</b> , 69, 12-18	6.7	30
76	Possible distribution of potential and corrosion current density inside corroding crevices. <i>Electrochimica Acta</i> , <b>2012</b> , 65, 266-274	6.7	12
75	Some personal adventures in passivity: A review of the point defect model for film growth. <i>Russian Journal of Electrochemistry</i> , <b>2012</b> , 48, 235-258	1.2	51
74	The Passive State in Our Reactive Metals-Based Civilization. <i>Arabian Journal for Science and Engineering</i> , <b>2012</b> , 37, 1143-1185		26
73	Theoretical investigation of the evolution of the passive state on Alloy 22 in acidified, saturated brine under open circuit conditions. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 7411-7420	6.7	23

72	The history of the Point Defect Model for the passive state: A brief review of film growth aspects. <i>Electrochimica Acta</i> , <b>2011</b> , 56, 1761-1772	6.7	450
71	The Point Defect Model for Bi-Layer Passive Films. <i>ECS Transactions</i> , <b>2010</b> , 28, 123-144	1	48
70	Modelling the crack propagation rate for corrosion fatigue at high frequency of applied stress. <i>Corrosion Science</i> , <b>2010</b> , 52, 1115-1122	6.8	10
69	Measurement of steady-state hydrogen electrode reactions on Alloys 600 and 690 tubes. <i>Corrosion Science</i> , <b>2010</b> , 52, 1139-1145	6.8	9
68	The effect of acetic acid on the stress corrosion cracking of 3.5NiCrMoV turbine steels in high temperature water. <i>Corrosion Science</i> , <b>2008</b> , 50, 2239-2250	6.8	24
67	Proton-Conducting Films of Nanoscale Ribbons Formed by Exfoliation of the Layer Perovskite H <sub>2</sub> SrTa <sub>2</sub> O <sub>7</sub> . <i>Chemistry of Materials</i> , <b>2008</b> , 20, 213-219	9.6	19
66	Transient growth and thinning of the barrier oxide layer on iron measured by real-time spectroscopic ellipsometry. <i>Electrochimica Acta</i> , <b>2008</b> , 53, 7696-7702	6.7	47
65	The passivity of Type 316L stainless steel in borate buffer solution. <i>Journal of Nuclear Materials</i> , <b>2008</b> , 379, 54-58	3.3	128
64	Theoretical and experimental studies of the pitting of type 316L stainless steel in borate buffer solution containing nitrate ion. <i>Electrochimica Acta</i> , <b>2007</b> , 52, 1871-1879	6.7	88
63	Oxidation of hydrogen on oxidized platinum. <i>Journal of Electroanalytical Chemistry</i> , <b>2007</b> , 600, 205-216	4.1	21
62	Electrochemical Impedance Spectroscopic Study of Passive Zirconium. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, C43	3.9	39
61	Electrochemical Impedance Spectroscopic Study of Passive Zirconium. <i>Journal of the Electrochemical Society</i> , <b>2007</b> , 154, C52	3.9	30
60	Charge Carrier Tunneling Across the Passive Film on Platinum. <i>ECS Transactions</i> , <b>2006</b> , 3, 1-13	1	3
59	Growth and Properties of Oxide Films on Platinum II. pH Dependence in Alkaline Solutions. <i>ECS Transactions</i> , <b>2006</b> , 2, 1-10	1	7
58	Prediction of Long Term Corrosion Behaviour in Nuclear Waste Systems. <i>Materials Research Society Symposia Proceedings</i> , <b>2006</b> , 932, 1		9
57	On the Existence of Our Metals-Based Civilization. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, B213	3.9	140
56	Stress corrosion cracking of sensitized Type 304 stainless steel in thiosulphate solution. II. Dynamics of fracture. <i>Corrosion Science</i> , <b>2006</b> , 48, 1608-1622	6.8	38
55	Passivity breakdown on AISI Type 403 stainless steel in chloride-containing borate buffer solution. <i>Corrosion Science</i> , <b>2006</b> , 48, 3812-3823	6.8	69

54	Reflections on the history of electrochemical impedance spectroscopy. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 1376-1388	6.7	579
53	An electrochemical impedance spectroscopic study of the passive state on Alloy-22. <i>Electrochimica Acta</i> , <b>2006</b> , 51, 1767-1779	6.7	102
52	The kinetics of hydrogen evolution and oxygen reduction on Alloy 22. <i>Corrosion Science</i> , <b>2005</b> , 47, 195-2158	4.1	
51	Challenges in the theory of electron transfer at passive interfaces. <i>Corrosion Science</i> , <b>2005</b> , 47, 3111-3130.8	3.8	31
50	Role of Chloride Ion in Passivity Breakdown on Iron and Nickel. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, B482	3.9	84
49	An electrochemical impedance study of Alloy-22 in NaCl brine at elevated temperature: II. Reaction mechanism analysis. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 572, 421-431	4.1	124
48	An electrochemical impedance study of Alloy 22 in NaCl brine at elevated temperature. I. Corrosion behavior. <i>Journal of Electroanalytical Chemistry</i> , <b>2004</b> , 572, 409-419	4.1	71
47	Estimation of corrosion cavity growth rate for predicting system service life. <i>Corrosion Science</i> , <b>2004</b> , 46, 1159-1187	6.8	19
46	Unification of the deterministic and statistical approaches for predicting localized corrosion damage. I. Theoretical foundation. <i>Corrosion Science</i> , <b>2004</b> , 46, 2755-2780	6.8	97
45	EIS Studies of Porous Oxygen Electrodes with Discrete Particles. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, E429	3.9	19
44	Stress corrosion cracking of sensitized Type 304 stainless steel in thiosulfate solution: I. Fate of the coupling current. <i>Corrosion Science</i> , <b>2003</b> , 45, 1455-1471	6.8	31
43	EIS Studies of Porous Oxygen Electrodes with Discrete Particles. <i>Journal of the Electrochemical Society</i> , <b>2003</b> , 150, E423	3.9	61
42	Photoelectrochemical analysis on the passive film formed on Fe <sub>2</sub> O <sub>3</sub> /Cr in pH 8.5 buffer solution. <i>Electrochimica Acta</i> , <b>2002</b> , 47, 1661-1668	6.7	70
41	Nature of the passive film on nickel. <i>Electrochimica Acta</i> , <b>2002</b> , 48, 69-77	6.7	202
40	Predicting crack growth rate vs. temperature behaviour of Type 304 stainless steel in dilute sulphuric acid solutions. <i>Corrosion Science</i> , <b>2002</b> , 44, 1425-1441	6.8	34
39	New Rate Laws for the Growth and Reduction of Passive Films. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, B343	3.9	44
38	The Passivity of Iron in the Presence of Ethylenediaminetetraacetic Acid. II. The Defect and Electronic Structures of the Barrier Layer. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, B425	3.9	88
37	The electronic structure of the passive film on tungsten. <i>Electrochimica Acta</i> , <b>2000</b> , 45, 1875-1883	6.7	101



36	The Passivity of Iron in the Presence of Ethylenediaminetetraacetic Acid I. General Electrochemical Behavior. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 4087	3.9	105
35	Effect of variable intensity ultraviolet radiation on passivity breakdown of AISI Type 304 stainless steel. <i>Corrosion Science</i> , <b>2000</b> , 42, 1779-1799	6.8	24
34	Electrochemical Behavior of Lithium in Alkaline Aqueous Electrolytes. II. Point Defect Model. <i>Journal of the Electrochemical Society</i> , <b>1999</b> , 146, 1326-1335	3.9	33
33	Segregation of alloying elements in passive systems—XPS studies on the Ni/W system. <i>Electrochimica Acta</i> , <b>1998</b> , 43, 2661-2671	6.7	60
32	The kinetics of growth of the passive film on tungsten in acidic phosphate solutions. <i>Electrochimica Acta</i> , <b>1998</b> , 43, 2851-2861	6.7	35
31	The influence of UV light on the dissolution and passive behavior of copper-containing alloys in chloride solutions. <i>Electrochimica Acta</i> , <b>1998</b> , 44, 643-651	6.7	44
30	Characterization of the Passive State on Zinc. <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 3141-3149	3.9	130
29	Theoretical Prediction of the Scan Rate Dependencies of the Pitting Potential and the Probability Distribution in the Induction Time. <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 1574-1581	3.9	47
28	Influence of uv light on the passive behaviour of SS316—Effect of prior illumination. <i>Electrochimica Acta</i> , <b>1997</b> , 42, 127-136	6.7	37
27	On the modeling of stress corrosion cracking in iron and nickel base alloys in high temperature aqueous environments. <i>Corrosion Science</i> , <b>1996</b> , 38, 1003-1010	6.8	20
26	A new method for estimating the diffusivities of vacancies in passive films. <i>Electrochimica Acta</i> , <b>1996</b> , 41, 783-789	6.7	191
25	Photostimulated anodic oxide film formation. <i>Journal of Applied Physics</i> , <b>1996</b> , 79, 157-162	2.5	3
24	Passivity Breakdown on Solid Versus Liquid Gallium. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, 2645-2649	3.9	11
23	Tungsten/Tungsten Oxide pH Sensing Electrode for High Temperature Aqueous Environments. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, 3002-3005	3.9	59
22	Frequency Domain Analysis of Photoprocesses at Illuminated Semiconductor Electrodes by Transient Transformation. <i>Journal of the Electrochemical Society</i> , <b>1992</b> , 139, 2538-2543	3.9	15
21	Steady-State Passive Films: Interfacial Kinetic Effects and Diagnostic Criteria. <i>Journal of the Electrochemical Society</i> , <b>1992</b> , 139, 170-177	3.9	209
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17	An electrochemical impedance analysis of passive films on nickel(111) in phosphate buffer solutions. <i>Electrochimica Acta</i> , <b>1990</b> , 35, 1949-1956	6.7	89
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15	Theory of Steady-State Passive Films. <i>Journal of the Electrochemical Society</i> , <b>1990</b> , 137, 2395-2402	3.9	261
14	Theoretical Analysis of the Effects of Alloying Elements on Distribution Functions of Passivity Breakdown. <i>Journal of the Electrochemical Society</i> , <b>1989</b> , 136, 961-967	3.9	67
13	Breakdown of the Passive Film on Polycrystal and Single Crystal (100) Nickel by Chloride. <i>Journal of the Electrochemical Society</i> , <b>1988</b> , 135, 1625-1632	3.9	27
12	Theoretical Distribution Functions for the Breakdown of Passive Films. <i>Journal of the Electrochemical Society</i> , <b>1987</b> , 134, 41-46	3.9	58
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