

Martin S Bojinov

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Corrosion of Alloy 690 in Simulated Steam Generator Crevices: Effect of Applied Potential, pH and Pb Addition. <i>Journal of the Electrochemical Society</i> , 2022, 169, 021502.	2.9	7
2	Nano-porous TiO ₂ electrochemically doped with Mo oxide – Composition, electrochemical and photo-electrochemical properties. <i>Materials Chemistry and Physics</i> , 2022, 285, 126139.	4.0	0
3	Anodic oxide films on stainless steel as prospective photo-anodes for light-assisted electrochemical water splitting. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2022, 429, 113953.	3.9	3
4	Re-passivation rate and conduction mechanism of surface film on copper in nitrite solutions. <i>Corrosion Science</i> , 2022, 205, 110447.	6.6	3
5	A comparative study of hydrazine alternatives in simulated steam generator conditions – Oxygen reaction kinetics and interaction with carbon steel. <i>Electrochimica Acta</i> , 2021, 369, 137697.	5.2	5
6	Parameterization and Extension of a Model of Oxide Growth by a Multi-Method Approach. <i>Journal of the Electrochemical Society</i> , 2021, 168, 031502.	2.9	2
7	Influence of ionic strength on hydrogen generation during interaction of copper with deoxygenated neutral solution. <i>Corrosion Science</i> , 2021, 188, 109552.	6.6	4
8	Effect of potential on dissociative adsorption of water on titanium assessed by density functional theory calculations. <i>Computational Materials Science</i> , 2020, 171, 109260.	3.0	4
9	Identification of key parameters of magnetite deposition on steam generator surfaces – Modeling and preliminary experiments. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 586, 124239.	4.7	1
10	Modeling barrier film growth and dissolution on titanium based on EIS, XPS and photocurrent data. <i>Electrochimica Acta</i> , 2020, 344, 136137.	5.2	7
11	Characterization and Modeling of Anodic Oxide Films on a Ti Alloy in Fluoride-Containing Electrolyte. <i>Journal of the Electrochemical Society</i> , 2020, 167, 121506.	2.9	2
12	(Invited) Multiscale Modelling of Titanium Oxide Growth and Dissolution in Fluoride-Containing Electrolytes. <i>ECS Meeting Abstracts</i> , 2020, MA2020-02, 1259-1259.	0.0	0
13	Effect of lead and applied potential on corrosion of carbon steel in steam generator crevice solutions. <i>Corrosion Science</i> , 2019, 159, 108117.	6.6	8
14	Deposition of molybdenum oxide in nanoporous titanium oxide template – modified with – composition, electrical and optical properties. <i>Applied Surface Science</i> , 2018, 448, 331-340.	6.1	3
15	Hydrogen generation during interaction of oxide covered copper with deoxygenated aqueous solution. <i>Electrochimica Acta</i> , 2018, 274, 143-151.	5.2	7
16	Localized corrosion of pressure vessel steel in a boiling water reactor cladding flaw – modeling of electrochemical conditions and dedicated experiments. <i>Electrochimica Acta</i> , 2017, 241, 10-27.	5.2	8
17	Corrosion Behavior of Carbon Steel Coated with Octadecylamine in the Secondary Circuit of a Pressurized Water Reactor. <i>Journal of Materials Engineering and Performance</i> , 2017, 26, 6037-6046.	2.5	9
18	Effect of sulfate and dissolved hydrogen on oxide films on stainless steel in high-temperature water. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 3505-3518.	2.5	2

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19	Oxidation Parameters of Oxide Dispersion-Strengthened Steels in Supercritical Water. Journal of Nuclear Engineering and Radiation Science, 2016, 2, .	0.4	1
20	Corrosion Mechanism of Low-Alloyed Steel in High-Temperature Water: Effect of Additives and Time of Exposure. Journal of the Electrochemical Society, 2016, 163, C530-C538.	2.9	4
21	Electrochemical methods to study hydrogen production during interaction of copper with deoxygenated aqueous solution. Electrochimica Acta, 2016, 202, 333-344.	5.2	11
22	Coupling between dissolution and passivation revisited – Kinetic parameters of anodic oxidation of titanium alloys in a fluoride-containing electrolyte. Journal of Electroanalytical Chemistry, 2015, 737, 150-161.	3.8	20
23	Effect of chloride and sulfate additions on corrosion of low alloy steel in high-temperature water. Electrochimica Acta, 2015, 173, 757-770.	5.2	15
24	Oxidation model for construction materials in supercritical water – Estimation of kinetic and transport parameters. Corrosion Science, 2015, 100, 36-46.	6.6	15
25	Effect of hydrazine on general corrosion of carbon and low-alloyed steels in pressurized water reactor secondary side water. Nuclear Engineering and Design, 2015, 295, 106-115.	1.7	5
26	Effect of Chloride on the Oxides on Low-Alloyed Steel in Conditions of a Light Water Reactor Pressure Vessel Cladding Flaw. Journal of the Electrochemical Society, 2014, 161, C177-C187.	2.9	7
27	Multi-Scale Modeling of the Initial Stages of Anodic Oxidation of Titanium. Journal of the Electrochemical Society, 2014, 161, E3188-E3195.	2.9	5
28	Interfacial and bulk processes during oxide growth on titanium in ethylene glycol-based electrolytes. Journal of Solid State Electrochemistry, 2013, 17, 1271-1283.	2.5	12
29	Influence of chloride on the long-term interaction of copper with deoxygenated neutral aqueous solutions. Corrosion Science, 2013, 76, 192-205.	6.6	10
30	Long-Term Interaction of Copper with a Deoxygenated Neutral Aqueous Solution. Journal of the Electrochemical Society, 2013, 160, C49-C58.	2.9	4
31	Effect of microstructure on the electrocatalytic activity for hydrogen evolution of amorphous and nanocrystalline Zr-Ni alloys. International Journal of Hydrogen Energy, 2012, 37, 10499-10506.	7.1	46
32	Effect of water chemistry on the oxide film on Alloy 690 during simulated hot functional testing of a pressurised water reactor. Corrosion Science, 2012, 58, 20-32.	6.6	40
33	Influence of fluoride content on the barrier layer formation and titanium dissolution in ethylene glycol-water electrolytes. Electrochimica Acta, 2012, 78, 65-74.	5.2	60
34	Estimation of kinetic parameters of the corrosion layer constituents on steels in supercritical water coolant conditions. Corrosion Science, 2011, 53, 4193-4203.	6.6	22
35	Mechanism of anodic oxidation of molybdenum in nearly-neutral electrolytes studied by electrochemical impedance spectroscopy and X-ray photoelectron spectroscopy. Electrochimica Acta, 2011, 56, 7899-7906.	5.2	29
36	Estimation of kinetic parameters of the passive state of carbon steel in mildly alkaline solutions from electrochemical impedance spectroscopic and X-ray photoelectron spectroscopic data. Electrochimica Acta, 2011, 56, 5910-5918.	5.2	11

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37	Interaction of metallic materials with simulated kraft digester white liquor – Towards the electrochemical detection of sulphide. <i>Journal of Electroanalytical Chemistry</i> , 2011, 654, 52-59.	3.8	3
38	Barrier Layer Growth and Nanopore Initiation During Anodic Oxidation of Tungsten and Niobium. <i>ECS Transactions</i> , 2010, 25, 89-104.	0.5	5
39	Optimisation of the hot conditioning of carbon steel surfaces of primary heat transport system of Pressurized Heavy Water Reactors using electrochemical impedance spectroscopy. <i>Journal of Nuclear Materials</i> , 2010, 401, 46-54.	2.7	11
40	Effect of dissolved oxygen on oxidation and hydrogen pick up behaviour – Zircaloy vs Zr – Nb alloys. <i>Nuclear Engineering and Design</i> , 2010, 240, 985-994.	1.7	32
41	Estimation of kinetic and transport parameters by quantitative evaluation of EIS and XPS data. <i>Electrochimica Acta</i> , 2010, 55, 6163-6173.	5.2	31
42	Influence of water chemistry on the corrosion mechanism of a zirconium – niobium alloy in simulated light water reactor coolant conditions. <i>Corrosion Science</i> , 2010, 52, 54-67.	6.6	73
43	Effect of sulphide on the corrosion behaviour of AISI 316L stainless steel and its constituent elements in simulated Kraft digester conditions. <i>Corrosion Science</i> , 2010, 52, 1499-1507.	6.6	44
44	A mechanism of interaction of copper with a deoxygenated neutral aqueous solution. <i>Corrosion Science</i> , 2010, 52, 2917-2927.	6.6	31
45	Mechanism of anodic oxidation of tungsten in neutral sulphate-fluoride solutions. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 309-320.	2.5	15
46	Nanoporous oxide formation by anodic oxidation of Nb in sulphate – fluoride electrolytes. <i>Journal of Solid State Electrochemistry</i> , 2009, 13, 1215-1226.	2.5	14
47	Influence of Zn on the oxide layer on AISI 316L(NG) stainless steel in simulated pressurised water reactor coolant. <i>Electrochimica Acta</i> , 2009, 54, 1056-1069.	5.2	38
48	Characterisation of the oxide layer on carbon steel during hot conditioning of primary heat transport systems in heavy-water reactors. <i>Corrosion Science</i> , 2009, 51, 1146-1156.	6.6	23
49	Influence of Additives on the Transpassive Dissolution of Ferritic Steels in Phosphoric Acid-Acetic Acid Electrolytes. <i>ECS Transactions</i> , 2008, 11, 43-52.	0.5	0
50	Kinetic parameters of the oxidation of zirconium alloys in simulated WWER water – Effect of KOH content. <i>Journal of Nuclear Materials</i> , 2008, 378, 45-54.	2.7	15
51	Anodic oxidation of tungsten in sulphuric acid solution – Influence of hydrofluoric acid addition. <i>Materials Chemistry and Physics</i> , 2008, 112, 702-710.	4.0	25
52	Mixed-Conduction Model for Stainless Steel in a High-Temperature Electrolyte: Estimation of Kinetic Parameters of Inner Layer Constituents. <i>Journal of the Electrochemical Society</i> , 2008, 155, C81.	2.9	32
53	Surface film electrochemistry of austenitic stainless steel and its main constituents in supercritical water. <i>Journal of Supercritical Fluids</i> , 2007, 43, 333-340.	3.2	42
54	Estimation of the parameters of oxide film growth on nickel-based alloys in high-temperature water electrolytes. <i>Electrochimica Acta</i> , 2007, 52, 7475-7483.	5.2	51

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55	An electrochemical and surface analytical study of the formation of nanoporous oxides on niobium. <i>Electrochimica Acta</i> , 2007, 52, 7724-7731.	5.2	23
56	Oxidation of toluene on Bi-doped PbO ₂ studied by electrochemical impedance spectroscopy and UV spectrophotometry. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1613-1620.	2.5	8
57	Passive film growth and oxide layer restructuring on stainless steel in a high-temperature borate electrolyte. , 2006, , 397-402.		0
58	In situ characterisation of the oxidation of Ni in ultrasupercritical water. <i>Electrochemistry Communications</i> , 2006, 8, 311-316.	4.7	3
59	In situ and ex situ characterisation of oxide films formed on strained stainless steel surfaces in high-temperature water. <i>Applied Surface Science</i> , 2006, 252, 8580-8588.	6.1	27
60	EIS Investigations of Transpassive Dissolution of Ferritic Steels in Aqueous and Molten Electrolytes. <i>ECS Transactions</i> , 2006, 2, 63-72.	0.5	0
61	Composition and Properties of Oxide Films on a Ferritic Steel and a Nickel-Based Alloy in Molten Hydroxide - Carbonate Electrolytes. <i>ECS Transactions</i> , 2006, 3, 429-438.	0.5	0
62	Development of a rapid screening test for SCC susceptibility of copper in disposal vault conditions. <i>Materials Research Society Symposia Proceedings</i> , 2006, 932, 1.	0.1	0
63	Composition, Structure, and Properties of Corrosion Layers on Ferritic and Austenitic Steels in Ultrasupercritical Water. <i>Journal of the Electrochemical Society</i> , 2006, 153, B464.	2.9	14
64	Interaction of Oxide Layers on Structural Materials with Light Water Reactor Coolants - its influence on the mechanism of oxide growth and restructuring. , 2006, , 431-436.		1
65	Effect of temperature and melt composition on the passivity of a Ni-10%Cr alloy in a molten electrolyte. , 2006, , 59-64.		0
66	Composition and conduction mechanism of the surface oxide film on Ni-based alloys in molten hydroxide. <i>Applied Surface Science</i> , 2005, 241, 459-470.	6.1	9
67	In situ and ex situ characterisation of the passive film on a ferritic stainless steel in molten sodium hydroxide. <i>Applied Surface Science</i> , 2005, 249, 162-175.	6.1	7
68	Electrochemical and surface analytical study of the anodic oxidation of Fe-18% Cr steel in molten NaOH-Li ₂ CO ₃ mixtures. <i>Materials Letters</i> , 2005, 59, 2479-2483.	2.6	2
69	Transpassive dissolution mechanism of ferrous alloys in phosphoric acid/acetic acid mixtures. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 154-167.	2.5	5
70	A Mixed-Conduction Model for the Oxidation of Stainless Steel in a High-Temperature Electrolyte. <i>Journal of the Electrochemical Society</i> , 2005, 152, B250.	2.9	66
71	Conduction mechanism in oxide films on ferrous alloys studied by impedance spectroscopy in symmetrical and asymmetrical configurations. <i>Journal of Electroanalytical Chemistry</i> , 2004, 572, 211-223.	3.8	24
72	Transpassive dissolution of ferritic steels in a molten salt electrolyte. <i>Electrochemistry Communications</i> , 2004, 6, 1206-1211.	4.7	0

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73	Oxidative dissolution and anion-assisted solubilisation in the transpassive state of nickel–chromium alloys. <i>Electrochimica Acta</i> , 2004, 49, 2295-2306.	5.2	17
74	Evidence of coupling between film growth and metal dissolution in passivation processes. <i>Electrochimica Acta</i> , 2003, 48, 4107-4117.	5.2	59
75	Role of surface reactions in the transpassive dissolution of ferrous alloys in concentrated H ₃ PO ₄ . <i>Applied Surface Science</i> , 2003, 220, 273-287.	6.1	9
76	The Influence of Solution Anion on the Mechanism of Transpassive Dissolution of Ferrous- and Nickel-Based Alloys. <i>Journal of Physical Chemistry B</i> , 2003, 107, 5101-5112.	2.6	19
77	Corrosion of Copper in 1 M NaCl under Strictly Anoxic Conditions. <i>Materials Research Society Symposia Proceedings</i> , 2003, 807, 630.	0.1	4
78	Electrochemical Behavior of Nickel-Chromium Alloys in a High-Temperature Aqueous Electrolyte. <i>Corrosion</i> , 2003, 59, 91-103.	1.1	37
79	Corrosion of Copper in Simulated Nuclear Waste Repository Conditions. <i>Electrochemical and Solid-State Letters</i> , 2003, 6, B19.	2.2	19
80	Transpassive Dissolution Mechanism of Ni-Based Alloys in a Simulated Bleaching Solution. <i>Journal of the Electrochemical Society</i> , 2002, 149, B499.	2.9	7
81	A mixed-conduction model for oxide films on Fe, Cr and Fe–Cr alloys in high-temperature aqueous electrolytes—I. Comparison of the electrochemical behaviour at room temperature and at 200 Å°C. <i>Corrosion Science</i> , 2002, 44, 1901-1921.	6.6	75
82	A mixed-conduction model for oxide films on Fe, Cr and Fe–Cr alloys in high-temperature aqueous electrolytes—II. Adaptation and justification of the model. <i>Corrosion Science</i> , 2002, 44, 1923-1940.	6.6	59
83	The transpassive dissolution mechanism of highly alloyed stainless steels. <i>Corrosion Science</i> , 2002, 44, 2675-2697.	6.6	132
84	The transpassive dissolution mechanism of highly alloyed stainless steels. <i>Corrosion Science</i> , 2002, 44, 2699-2723.	6.6	48
85	Photocurrent response of the passive film on iron in a high-temperature aqueous electrolyte. <i>Electrochemistry Communications</i> , 2002, 4, 222-226.	4.7	9
86	Transpassive dissolution of Ni–Cr alloys in sulphate solutions—comparison between a model alloy and two industrial alloys. <i>Electrochimica Acta</i> , 2002, 47, 1697-1712.	5.2	18
87	Mechanism of transpassive dissolution of nickel-based alloys studied by impedance spectroscopy and rotating ring-disc voltammetry. <i>Electrochimica Acta</i> , 2002, 47, 2093-2107.	5.2	22
88	Influence of the electrolyte composition and temperature on the transpassive dissolution of austenitic stainless steels in simulated bleaching solutions. <i>Electrochimica Acta</i> , 2002, 47, 3335-3349.	5.2	20
89	Technical Note: Detection of Soluble Species Released during Metal Corrosion in High-Temperature Aqueous Solutions. <i>Corrosion</i> , 2001, 57, 387-393.	1.1	6
90	Contact electric impedance and resistance studies of the conduction mechanism in passive films on ferrous alloys. <i>Electrochimica Acta</i> , 2001, 46, 3627-3640.	5.2	21

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91	Electrochemical study of the passive behaviour of Ni-Cr alloys in a borate solution—a mixed-conduction model approach. <i>Journal of Electroanalytical Chemistry</i> , 2001, 504, 29-44.	3.8	69
92	Influence of molybdenum on the conduction mechanism in passive films on iron-chromium alloys in sulphuric acid solution. <i>Electrochimica Acta</i> , 2001, 46, 1339-1358.	5.2	65
93	Conduction Mechanism of the Passive Film on Iron Based on Contact Electric Impedance and Resistance Measurements. <i>Journal of the Electrochemical Society</i> , 2001, 148, B243.	2.9	48
94	The mechanism of transpassive dissolution of Ni-Cr alloys in sulphate solutions. <i>Electrochimica Acta</i> , 2000, 45, 2791-2802.	5.2	78
95	Coupling between ionic defect structure and electronic conduction in passive films on iron, chromium and iron-chromium alloys. <i>Electrochimica Acta</i> , 2000, 45, 2029-2048.	5.2	148
96	Conduction Mechanism of the Anodic Film on Fe-Cr Alloys in Sulfate Solutions. <i>Journal of the Electrochemical Society</i> , 1999, 146, 3238-3247.	2.9	35
97	Studies on the redox behaviour of some polythiophene derivatives by impedance spectroscopy in symmetrical and asymmetrical configurations. <i>Journal of Electroanalytical Chemistry</i> , 1999, 472, 20-32.	3.8	21
98	Passivation mechanism of iron in concentrated phosphoric acid. <i>Journal of Electroanalytical Chemistry</i> , 1999, 475, 58-65.	3.8	28
99	Transpassivity mechanism of iron-chromium-molybdenum alloys studied by AC impedance, DC resistance and RRDE measurements. <i>Electrochimica Acta</i> , 1999, 44, 4331-4343.	5.2	48
100	The stability of the passive state of iron-chromium alloys in sulphuric acid solution. <i>Corrosion Science</i> , 1999, 41, 1557-1584.	6.6	90
101	Conduction mechanism of the anodic film on chromium in acidic sulphate solutions. <i>Electrochimica Acta</i> , 1998, 44, 247-261.	5.2	54
102	Influence of pH on the anodic dissolution mechanism of Fe-Mo alloys in sulphate solutions. <i>Electrochimica Acta</i> , 1998, 44, 721-734.	5.2	12
103	The Mechanism of the Transpassive Dissolution of Chromium in Acidic Sulfate Solutions. <i>Journal of the Electrochemical Society</i> , 1998, 145, 2043-2050.	2.9	42
104	Modelling the formation and growth of anodic passive films on metals in concentrated acid solutions. <i>Journal of Solid State Electrochemistry</i> , 1997, 1, 161-171.	2.5	44
105	The ability of a surface charge approach to describe barrier film growth on tungsten in acidic solutions. <i>Electrochimica Acta</i> , 1997, 42, 3489-3498.	5.2	110
106	A model for the transpassivity of molybdenum in acidic sulphate solutions based on ac impedance measurements. <i>Electrochimica Acta</i> , 1996, 41, 1173-1179.	5.2	34
107	A model for surface charge-assisted barrier film growth on metals in acidic solutions based on ac impedance measurements. <i>Electrochimica Acta</i> , 1996, 41, 2695-2705.	5.2	20
108	Influence of molybdenum on the anodic dissolution of iron in acidic solutions. <i>Journal of Applied Electrochemistry</i> , 1996, 26, 939.	2.9	4

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109	Barrier oxide film vs. salt layer formation on bismuth in tartaric acid solutions. <i>Electrochimica Acta</i> , 1995, 40, 591-598.	5.2	13
110	Anodic film growth on antimony in H ₃ PO ₄ solutions. <i>Electrochimica Acta</i> , 1995, 40, 873-878.	5.2	9
111	Corrosion of nickel, iron, cobalt and their alloys in molten salt electrolytes. <i>Journal of Materials Science</i> , 1995, 30, 5561-5575.	3.7	27
112	Electrodeposition of refractory metals (Ti, Zr, Nb, Ta) from molten salt electrolytes. <i>Journal of Applied Electrochemistry</i> , 1995, 25, 993.	2.9	63
113	Influence of tin on the anodic behaviour of lead in sulphuric acid solutions. I. Voltammetric, photoelectrochemical and AC impedance measurements on a Pb-10%Sn alloy. <i>Electrochimica Acta</i> , 1994, 39, 719-726.	5.2	23
114	The antimony / klebelsbergite electrode. <i>Journal of Electroanalytical Chemistry</i> , 1994, 367, 195-204.	3.8	6
115	Kinetics of the anodic oxidation of bismuth in glycol-borate electrolyte—a space charge approach. <i>Electrochimica Acta</i> , 1993, 38, 1061-1065.	5.2	4
116	Electrical properties of the barrier layer/solution interface and its role during breakdown of anodic bismuth oxide films. <i>Electrochimica Acta</i> , 1993, 38, 511-517.	5.2	9
117	Impedance measurements of a tin electrode in H ₂ SO ₄ solutions. <i>Journal of Electroanalytical Chemistry</i> , 1993, 347, 207-221.	3.8	16
118	Electrochemical behaviour of the passive tin electrode in H ₂ SO ₄ solutions at very positive potentials. <i>Journal of Electroanalytical Chemistry</i> , 1993, 358, 177-191.	3.8	14
119	Anodic oxidation of antimony at high overpotentials—formation of a barrier layer and klebelsbergite. <i>Journal of Electroanalytical Chemistry</i> , 1993, 346, 339-352.	3.8	8
120	Impedance of the Li Electrode in Li _{1-x} MnO ₂ Accumulators at Open-Circuit Voltage. <i>Journal of the Electrochemical Society</i> , 1993, 140, 294-299.	2.9	7
121	Impedance measurements of the relaxation phenomena in the bismuth/anodic film/electrolyte system. <i>Electrochimica Acta</i> , 1992, 37, 2415-2420.	5.2	16
122	The processes of formation of a gel-like anodic layer during polarization of an antimony electrode in H ₂ SO ₄ solution. <i>Journal of Electroanalytical Chemistry and Interfacial Electrochemistry</i> , 1991, 315, 201-216.	0.1	17
123	Electrochemical behaviour of the antimony electrode in sulphuric acid solutions. I. Corrosion processes and anodic dissolution of antimony. <i>Electrochimica Acta</i> , 1991, 36, 2081-2086.	5.2	44
124	Electrochemical behaviour of the antimony electrode in sulphuric acid solutions. III. Identification of corrosion products after long-term polarization. <i>Electrochimica Acta</i> , 1991, 36, 2093-2102.	5.2	22
125	Electrochemical behaviour of the antimony electrode in sulphuric acid solutions. II. Formation and properties of the primary anodic layer. <i>Electrochimica Acta</i> , 1991, 36, 2087-2092.	5.2	42
126	Sealed lead/acid battery with auxiliary tungsten carbide electrodes. <i>Journal of Power Sources</i> , 1990, 31, 79-88.	7.8	12

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127	Impedance measurements of the lead/sodium sulphate system: synthesis of a.c. analogue circuit. Journal of Power Sources, 1990, 30, 287-299.	7.8	4