

Masahiro Seo

List of Publications by Year in descending order

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58
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docs citations

58
times ranked

419
citing authors

#	ARTICLE	IF	CITATIONS
1	Stress variations during polarization of iron thin film electrode in pH 8.4 borate buffer solution. Journal of Solid State Electrochemistry, 2020, 24, 929-940.	2.5	3
2	Stresses of Anodic Oxide Films Grown on Metal Electrode. , 2020, , 149-177.		0
3	Changes in Surface Stress Associated with Underpotential Deposition and Surface Alloying. , 2020, , 103-137.		0
4	In situ X-ray absorption spectroscopy of Sn species adsorbed on platinized platinum electrode in perchloric acid solution containing stannous ions. Journal of Solid State Electrochemistry, 2019, 23, 2261-2275.	2.5	1
5	Special issue on <i>Recent advances in corrosion science</i>: celebrating the 90th birthday of Professor Norio Sato. Corrosion Reviews, 2018, 36, 1-2.	2.0	4
6	Inhibition effect of underpotential deposition of metallic cations on aqueous corrosion of metals. Corrosion Reviews, 2018, 36, 17-33.	2.0	6
7	Effect of Pb-underpotential deposition on anodic dissolution and passivation of pure Fe and Fe-Ni alloys in acidic perchlorate solution. Journal of Solid State Electrochemistry, 2016, 20, 3133-3142.	2.5	5
8	In Situ X-Ray Absorption Spectroscopy Study of Sn Underpotential Deposition on Ni from Perchloric Acid. Journal of the Electrochemical Society, 2014, 161, H195-H202.	2.9	10
9	Effect of Sn ²⁺ on Anodic Dissolution of Ni in Perchloric Acid. Journal of the Electrochemical Society, 2014, 161, C550-C556.	2.9	7
10	In situ X-ray absorption spectroscopy for identification of lead species adsorbed on a nickel surface in acidic perchlorate solution. Journal of Electroanalytical Chemistry, 2012, 671, 7-15.	3.8	25
11	Underpotential Deposition and Metallic Corrosion Reaction. Zairyo To Kankyo/ Corrosion Engineering, 2012, 61, 341-348.	0.2	5
12	Reactivity imaging of a passive ferritic FeAlCr steel. Journal of Applied Electrochemistry, 2008, 38, 1339-1345.	2.9	12
13	Effect of underpotential deposition of lead on polarization behavior of nickel in acidic perchlorate solutions at room temperature. Corrosion Science, 2008, 50, 3139-3146.	6.6	16
14	Changes in surface stress of gold electrode during underpotential deposition of copper. Journal of Solid State Electrochemistry, 2007, 11, 1365-1373.	2.5	19
15	Simultaneous oscillations of surface energy, superficial mass and electrode potential in the course of galvanostatic oxidation of formic acid. Journal of Solid State Electrochemistry, 2005, 9, 347-353.	2.5	24
16	Changes in Surface Stress of Gold Electrode during Underpotential Deposition of Pb. Journal of the Electrochemical Society, 2004, 151, E276.	2.9	33
17	Effect of hydrogen on stresses in anodic oxide film on titanium. Electrochimica Acta, 2003, 48, 1123-1130.	5.2	28
18	Transport of alkaline cation and neutral species through the β -Ni(OH) ₂ / β -NiOOH film electrode. Journal of Solid State Electrochemistry, 2001, 5, 459-465.	2.5	6

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19	On the electrochemical applications of the bending beam method. Journal of Electroanalytical Chemistry, 2000, 490, 98-101.	3.8	51
20	Stresses of a Titanium Thin-Film Electrode Generated during Anodic Oxidation by a Beam-Bending Method. Journal of the Electrochemical Society, 2000, 147, 4519.	2.9	40
21	A Scanning Electrochemical Microscopic Observation of Heterogeneous Oxygen Evolution on a Polycrystalline Titanium during Anodic Oxidation. Electrochemistry, 2000, 68, 950-954.	1.4	20
22	Evaluation of Heterogeneity in Thickness of Passive Films on Pure Iron by Scanning Electrochemical Microscopy. ISIJ International, 1999, 39, 346-351.	1.4	38
23	Study of Adsorption of Iodide Ions on Gold Electrode by a Laser-Beam Deflection Method Compared with a Piezoelectric Technique. Journal of the Electrochemical Society, 1999, 146, 1496-1499.	2.9	58
24	Influence of the $\text{Fe}(\text{CN})_6^{3-}/\text{Fe}(\text{CN})_6^{4-}$ Redox Reaction on the Changes in Surface Energy of a Gold Electrode in Perchlorate Solution with Iodide Ions. Electrochemistry, 1999, 67, 1123-1125.	1.4	1
25	Light Emission Spectroscopy from Metal Electrodes during Electrolysis. Electrochemistry, 1999, 67, 349-354.	1.4	2
26	Selective Ion Permeability of Manganese Oxides Prepared with an Electrosynthesis. Electrochemistry, 1999, 67, 377-380.	1.4	0
27	Formation of Al/(Ti, Nb, Ta)-Composite Oxide Films on Aluminum by Pore Filling. Journal of the Electrochemical Society, 1997, 144, 2756-2766.	2.9	49
28	Piezoelectric Detection of Changes in Surface Energy of Gold Electrode in Perchlorate Solutions Containing Iodide Ions. Journal of the Electrochemical Society, 1996, 143, 899-904.	2.9	24
29	Piezoelectric Response to Surface Stress Change of a Palladium Electrode in Sulfate Aqueous Solutions. Journal of the Electrochemical Society, 1992, 139, 1087-1090.	2.9	30
30	Study on Anodic Deposition of Ferrous Ions on Gold by a Quartz Crystal Microbalance. Journal of the Electrochemical Society, 1992, 139, 3108-3111.	2.9	12
31	Measurements of a Trace Amount of Corrosion by QCM and SAW Techniques. Corrosion Engineering, 1990, 39, 697-708.	0.1	5
32	Piezoelectric Response to Specific Adsorption of Chloride Ions on Gold Electrode. Journal of the Electrochemical Society, 1990, 137, 3804-3808.	2.9	17
33	Surface oxidation of alloys. Behaviors in the relatively low temperature region.. Hyomen Kagaku, 1989, 10, 558-564.	0.0	2
34	Photoacoustic study on cathodic reduction of anodic oxide films formed on copper in borate solution. Materials and Corrosion - Werkstoffe Und Korrosion, 1988, 39, 583-588.	1.5	13
35	Study of Piezo-electric Response to the Active Dissolution/Passivation of Nickel in Weakly Acidic Sulfate Solution. Corrosion Engineering, 1988, 37, 191-197.	0.1	0
36	Piezoelectric Response to Surface Stress Change of Gold Electrode in Sulfate Aqueous Solutions. Journal of the Electrochemical Society, 1987, 134, 3094-3098.	2.9	37

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37	Electrochemical Behavior and Surface Composition of Copper Containing Ferritic Stainless Steel in Sulfuric Acid Solution. Corrosion Engineering, 1986, 35, 283-288.	0.1	3
38	Depth-profiling of Surface Oxide Film/Metal Systems. Transactions of the Japan Institute of Metals, 1985, 26, 747-752.	0.5	4
39	Selective Dissolution and Surface Enrichment of Binary Alloys. Corrosion Engineering, 1984, 33, 162-169.	0.1	2
40	Selective oxidation of Fe-30Ni alloy in a low-temperature range (433-473 K). Oxidation of Metals, 1983, 19, 151-163.	2.1	12
41	Depth-Composition Profiles of Iron-Base Alloy Surfaces Anodically Oxidized in Concentrated NaOH Solution. Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals, 1983, 47, 752-759.	0.4	0
42	Hyomen Kagaku, 1982, 30, 1-16.	0	0
43	Closure to Discussion of Ellipsometry and Auger Analysis of Chromium Surfaces Passivated in Acidic and Neutral Aqueous Solutions TM [M. Seo, R. Saito, and N. Sato (pp. 1909-1912, Vol. 127, No. 9)] Journal of the Electrochemical Society, 1981, 128, 1297-1297.	2.9	0
44	Surface Characterization of Stainless Steels Prepared with Various Surface Treatments. Transactions of the Japan Institute of Metals, 1980, 21, 805-810.	0.5	28
45	Auger and XPS Analyses of Anodic Oxide Films on Molybdenum in the Transpassive Region. Corrosion Engineering, 1980, 29, 281-289.	0.1	1
46	Ellipsometry and Auger Analysis of Chromium Surfaces Passivated in Acidic and Neutral Aqueous Solutions. Journal of the Electrochemical Society, 1980, 127, 1909-1912.	2.9	58
47	Differential Composition Profiles of Passive Films on Inconel 600 and Incoloy 800 Alloys. Corrosion, 1980, 36, 334-339.	1.1	15
48	An Auger Analysis of Passive Films Formed on Fe–5Mo Alloy and Pure Iron in Neutral Aqueous Solution. Transactions of the Japan Institute of Metals, 1979, 20, 501-506.	0.5	7
49	Estimation of Surface Excess from Compositional Depth Profiles of Iron-base Alloys Passivated in Sulfuric Acid Solution. Transactions of the Iron and Steel Institute of Japan, 1979, 19, 504-508.	0.2	2
50	In-depth profiles of anodic oxide films on Fe–Ni alloy in boric acid-sodium borate solutions. Corrosion Science, 1978, 18, 577-589.	6.6	11
51	Surface Polishing and Surface Composition of Fe-Cr Alloys. Corrosion Engineering, 1978, 27, 172-178.	0.1	1
52	Differential Composition Profiles in Depth of Passive Films on Iron-base Alloys. Corrosion Engineering, 1978, 27, 647-652.	0.1	1
53	Auger analysis of the anodic oxide film on iron in neutral solution. Corrosion Science, 1977, 17, 209-217.	6.6	66
54	Instrumental Analysis of Rusts. Corrosion Engineering, 1977, 26, 327-336.	0.1	0

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55	Dissolution of Metal Oxide. Corrosion Engineering, 1976, 25, 161-172.	0.1	4
56	Dissolution of Hydrous Metal Oxides in Acid Solutions. Corrosion Engineering, 1975, 24, 399-402.	0.1	4
57	Dissolution of Hydrous Chromium Oxide in Acid Solutions. Transactions of the Japan Institute of Metals, 1975, 16, 519-525.	0.5	16
58	Chemically Stimulated Exo-emission from a Silver Catalyst. Nature, 1967, 216, 361-362.	27.8	12