

Masahiro Seo

List of Publications by Year in descending order

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58
papers

850
citations

471509
17
h-index

501196
28
g-index

58
all docs

58
docs citations

58
times ranked

419
citing authors

#	ARTICLE	IF	CITATIONS
1	Auger analysis of the anodic oxide film on iron in neutral solution. <i>Corrosion Science</i> , 1977, 17, 209-217.	6.6	66
2	Ellipsometry and Auger Analysis of Chromium Surfaces Passivated in Acidic and Neutral Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1980, 127, 1909-1912.	2.9	58
3	Study of Adsorption of Iodide Ions on Gold Electrode by a Laser-Beam Deflection Method Compared with a Piezoelectric Technique. <i>Journal of the Electrochemical Society</i> , 1999, 146, 1496-1499.	2.9	58
4	On the electrochemical applications of the bending beam method. <i>Journal of Electroanalytical Chemistry</i> , 2000, 490, 98-101.	3.8	51
5	Formation of Al/(Ti, Nb, Ta)-Composite Oxide Films on Aluminum by Pore Filling. <i>Journal of the Electrochemical Society</i> , 1997, 144, 2756-2766.	2.9	49
6	Stresses of a Titanium Thin-Film Electrode Generated during Anodic Oxidation by a Beam-Bending Method. <i>Journal of the Electrochemical Society</i> , 2000, 147, 4519.	2.9	40
7	Evaluation of Heterogeneity in Thickness of Passive Films on Pure Iron by Scanning Electrochemical Microscopy. <i>ISIJ International</i> , 1999, 39, 346-351.	1.4	38
8	Piezoelectric Response to Surface Stress Change of Gold Electrode in Sulfate Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1987, 134, 3094-3098.	2.9	37
9	Changes in Surface Stress of Gold Electrode during Underpotential Deposition of Pb. <i>Journal of the Electrochemical Society</i> , 2004, 151, E276.	2.9	33
10	Piezoelectric Response to Surface Stress Change of a Palladium Electrode in Sulfate Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 1992, 139, 1087-1090.	2.9	30
11	Surface Characterization of Stainless Steels Prepared with Various Surface Treatments. <i>Transactions of the Japan Institute of Metals</i> , 1980, 21, 805-810.	0.5	28
12	Effect of hydrogen on stresses in anodic oxide film on titanium. <i>Electrochimica Acta</i> , 2003, 48, 1123-1130.	5.2	28
13	In situ X-ray absorption spectroscopy for identification of lead species adsorbed on a nickel surface in acidic perchlorate solution. <i>Journal of Electroanalytical Chemistry</i> , 2012, 671, 7-15.	3.8	25
14	Piezoelectric Detection of Changes in Surface Energy of Gold Electrode in Perchlorate Solutions Containing Iodide Ions. <i>Journal of the Electrochemical Society</i> , 1996, 143, 899-904.	2.9	24
15	Simultaneous oscillations of surface energy, superficial mass and electrode potential in the course of galvanostatic oxidation of formic acid. <i>Journal of Solid State Electrochemistry</i> , 2005, 9, 347-353.	2.5	24
16	A Scanning Electrochemical Microscopic Observation of Heterogeneous Oxygen Evolution on a Polycrystalline Titanium during Anodic Oxidation. <i>Electrochemistry</i> , 2000, 68, 950-954.	1.4	20
17	Changes in surface stress of gold electrode during underpotential deposition of copper. <i>Journal of Solid State Electrochemistry</i> , 2007, 11, 1365-1373.	2.5	19
18	Piezoelectric Response to Specific Adsorption of Chloride Ions on Gold Electrode. <i>Journal of the Electrochemical Society</i> , 1990, 137, 3804-3808.	2.9	17

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19	Dissolution of Hydrrous Chromium Oxide in Acid Solutions. Transactions of the Japan Institute of Metals, 1975, 16, 519-525.	0.5	16
20	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
21	Differential Composition Profiles of Passive Films on Inconel 600 and Incoloy 800 Alloys. Corrosion, 1980, 36, 334-339.	1.1	15
22	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
23	Chemically Stimulated Exo-emission from a Silver Catalyst. Nature, 1967, 216, 361-362.	27.8	12
24	Selective oxidation of Fe-30Ni alloy in a low-temperature range (433-473 K). Oxidation of Metals, 1983, 19, 151-163.	2.1	12
25	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
26	Reactivity imaging of a passive ferritic FeAlCr steel. Journal of Applied Electrochemistry, 2008, 38, 1339-1345.	2.9	12
27	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
28	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
29	An Auger Analysis of Passive Films Formed on Fe-Ni Alloy and Pure Iron in Neutral Aqueous Solution. Transactions of the Japan Institute of Metals, 1979, 20, 501-506.	0.5	7
30	Effect of Sn ²⁺ on Anodic Dissolution of Ni in Perchloric Acid. Journal of the Electrochemical Society, 2014, 161, C550-C556.	2.9	7
31	Transport of alkaline cation and neutral species through the Ni(OH) ₂ /NiOOH film electrode. Journal of Solid State Electrochemistry, 2001, 5, 459-465.	2.5	6
32	Inhibition effect of underpotential deposition of metallic cations on aqueous corrosion of metals. Corrosion Reviews, 2018, 36, 17-33.	2.0	6
33	Measurements of a Trace Amount of Corrosion by QCM and SAW Techniques. Corrosion Engineering, 1990, 39, 697-708.	0.1	5
34	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
35	Underpotential Deposition and Metallic Corrosion Reaction. Zairyo To Kankyo/ Corrosion Engineering, 2012, 61, 341-348.	0.2	5
36	Dissolution of Hydrrous Metal Oxides in Acid Solutions. Corrosion Engineering, 1975, 24, 399-402.	0.1	4

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37	Dissolution of Metal Oxide. Corrosion Engineering, 1976, 25, 161-172.	0.1	4
38	Depth-profiling of Surface Oxide Film/Metal Systems. Transactions of the Japan Institute of Metals, 1985, 26, 747-752.	0.5	4
39	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
40	Electrochemical Behavior and Surface Composition of Copper Containing Ferritic Stainless Steel in Sulfuric Acid Solution. Corrosion Engineering, 1986, 35, 283-288.	0.1	3
41	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
42	Selective Dissolution and Surface Enrichment of Binary Alloys. Corrosion Engineering, 1984, 33, 162-169.	0.1	2
43	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
44	Light Emission Spectroscopy from Metal Electrodes during Electrolysis. Electrochemistry, 1999, 67, 349-354.	1.4	2
45	Surface oxidation of alloys. Behaviors in the relatively low temperature region.. Hyomen Kagaku, 1989, 10, 558-564.	0.0	2
46	Surface Polishing and Surface Composition of Fe-Cr Alloys. Corrosion Engineering, 1978, 27, 172-178.	0.1	1
47	Differential Composition Profiles in Depth of Passive Films on Iron-base Alloys. Corrosion Engineering, 1978, 27, 647-652.	0.1	1
48	Auger and XPS Analyses of Anodic Oxide Films on Molybdenum in the Transpassive Region. Corrosion Engineering, 1980, 29, 281-289.	0.1	1
49	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
50	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
51	Instrumental Analysis of Rusts. Corrosion Engineering, 1977, 26, 327-336.	0.1	0
52	Closure to "Discussion of Ellipsometry and Auger Analysis of Chromium Surfaces Passivated in Acidic and Neutral Aqueous Solutions" [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
53	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
54	Hyomen Kagaku, 1982, 9, 11-16.	0	0

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55	Selective Ion Permeability of Manganese Oxides Prepared with an Electrosynthesis. <i>Electrochemistry</i> , 1999, 67, 377-380.	1.4	0
56	Depth-Composition Profiles of Iron-Base Alloy Surfaces Anodically Oxidized in Concentrated NaOH Solution. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 1983, 47, 752-759.	0.4	0
57	Stresses of Anodic Oxide Films Grown on Metal Electrode. , 2020, , 149-177.		0
58	Changes in Surface Stress Associated with Underpotential Deposition and Surface Alloying. , 2020, , 103-137.		0