

Hiroki Habazaki

List of Publications by Year in descending order

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611
papers

15,965
citations

23879

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663
all docs

663
docs citations

663
times ranked

9910
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of Hydrogen-Permeable Metal Support Electrolysis Cells. ACS Applied Energy Materials, 2022, 5, 1385-1389.	2.5	3
2	High strength hydrogels enable dendrite-free Zn metal anodes and high-capacity Zn MnO_2 batteries via a modified mechanical suppression effect. Journal of Materials Chemistry A, 2022, 10, 3122-3133.	5.2	17
3	High-corrosion-resistance mechanism of graphitized platelet-type carbon nanofibers in the OER in a concentrated alkaline electrolyte. Journal of Materials Chemistry A, 2022, 10, 8208-8217.	5.2	8
4	Enhanced Performance of Protonic Solid Oxide Steam Electrolysis Cell of Zr-Rich Side BaZr $_{0.6}$ Ce $_{0.2}$ Y $_{0.2}$ O $_{3-\delta}$ Electrolyte with an Anode Functional Layer. ACS Omega, 2022, 7, 9944-9950.	1.6	4
5	Raman and glow discharge optical emission spectroscopy studies on structure and anion incorporation properties of a hydrated alumina film on aluminum. Applied Surface Science, 2022, 592, 153321.	3.1	5
6	Design of anode functional layers for protonic solid oxide electrolysis cells. Journal of Materials Chemistry A, 2022, 10, 15719-15730.	5.2	8
7	High Strength Hydrogel Enables Dendrite-Free Zn Metal Anodes and High-Capacity Zn-MnO $_2$ Batteries. ECS Meeting Abstracts, 2022, MA2022-01, 560-560.	0.0	0
8	La $_{0.8}$ Sr $_{0.2}$ Co $_{1-x}$ Ni $_x$ O $_3$ as the Efficient Triple Conductor Air Electrode for Protonic Ceramic Cells. ACS Applied Energy Materials, 2021, 4, 554-563.	2.5	34
9	The effect of an anode functional layer on the steam electrolysis performances of protonic solid oxide cells. Journal of Materials Chemistry A, 2021, 9, 14032-14042.	5.2	21
10	In Situ Activation of a Manganese Perovskite Oxygen Reduction Catalyst in Concentrated Alkaline Media. Journal of the American Chemical Society, 2021, 143, 6505-6515.	6.6	25
11	(Invited) Highly Active OER Electrodes Derived from Fe-Doped Ni Oxyfluoride Formed by Anodizing of NiFe Electrodeposits. ECS Meeting Abstracts, 2021, MA2021-01, 1906-1906.	0.0	0
12	Fabrication of Mushroom-Like Nanostructures on Stainless Steel Surface by Combination of Heat Treatment and Electrochemical Etching. Materials Transactions, 2021, 62, 836-845.	0.4	1
13	Pd nanoparticles on zeolite imidazolid framework-8: Preparation, characterization, and evaluation of fixed-bed hydrogenation activity toward isomeric nitrophenols. Colloids and Interface Science Communications, 2021, 43, 100446.	2.0	2
14	Highly Active and Durable FeNiCo Oxyhydroxide Oxygen Evolution Reaction Electrocatalysts Derived from Fluoride Precursors. ACS Sustainable Chemistry and Engineering, 2021, 9, 9465-9473.	3.2	16
15	Metal/Oxide Heterojunction Boosts Fuel Cell Cathode Reaction at Low Temperatures. Advanced Energy Materials, 2021, 11, 2102025.	10.2	16
16	Formation of Mobile Hydridic Defects in Zirconium Nitride Films with n-Type Semiconductor Properties. ACS Applied Electronic Materials, 2021, 3, 3980-3989.	2.0	6
17	Synthesis of Sn@SnO $_2$ core-shell microcapsules by a self-oxidation strategy for medium temperature thermal storage. Chemical Engineering Journal, 2021, 420, 129906.	6.6	25
18	Slippery Liquid-Infused Porous Surfaces on Aluminum for Corrosion Protection with Improved Self-Healing Ability. ACS Applied Materials & Interfaces, 2021, 13, 45089-45096.	4.0	20

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19	Fabrication of superhydrophobic copper metal nanowire surfaces with high thermal conductivity. <i>Applied Surface Science</i> , 2021, 537, 147854.	3.1	17
20	Unveiling the Role of Al ₂ O ₃ Interlayer in Indium-Gallium-Zinc Oxide Transistors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2021, 218, 2000621.	0.8	4
21	A lithiophilic carbon scroll as a Li metal host with low tortuosity design and self-cleaning capability. <i>Journal of Materials Chemistry A</i> , 2021, 9, 13332-13343.	5.2	15
22	Activation of Water Splitting Alloy Electrodes by Anodizing. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2021, 72, 593-598.	0.1	0
23	Honeycomb carbon fibers strengthened composite phase change materials for superior thermal energy storage. <i>Applied Thermal Engineering</i> , 2020, 164, 114493.	3.0	75
24	Enhanced thermal performance of phase change material stabilized with textile-structured carbon scaffolds. <i>Solar Energy Materials and Solar Cells</i> , 2020, 205, 110241.	3.0	34
25	Fluorine-Free Slippery Liquid-Infused Porous Surfaces Prepared Using Hierarchically Porous Aluminum. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 1900836.	0.8	10
26	Proton Pumping Boosts Energy Conversion in Hydrogen-Permeable Metal-Supported Protonic Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 1222-1234.	2.5	20
27	Anisotropically enhanced heat transfer properties of phase change material reinforced by graphene-wrapped carbon fibers. <i>Solar Energy Materials and Solar Cells</i> , 2020, 206, 110280.	3.0	27
28	Formation of quasi-spherical Au ₄₈₋₁₉₈ clusters in anodic titania nanotubes grown on Ti-Au alloys. <i>Electrochemistry Communications</i> , 2020, 120, 106847.	2.3	3
29	A widely applicable strategy to convert fabrics into lithiophilic textile current collector for dendrite-free and high-rate capable lithium metal anode. <i>Chemical Engineering Journal</i> , 2020, 388, 124256.	6.6	27
30	In Situ Activation of Anodized Ni-Fe Alloys for the Oxygen Evolution Reaction in Alkaline Media. <i>ACS Applied Energy Materials</i> , 2020, 3, 12316-12326.	2.5	23
31	Compositional variations in anodic nanotubes/nanopores formed on Fe 100, 110 and 111 single crystals. <i>Electrochimica Acta</i> , 2020, 364, 137316.	2.6	4
32	Characterization of Dark-Colored Nanoporous Anodic Films on Zinc. <i>Coatings</i> , 2020, 10, 1014.	1.2	5
33	Al ₂ O ₃ -Induced Sub-Gap Doping on the IGZO Channel for the Detection of Infrared Light. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1478-1483.	2.0	19
34	Mixed proton-electron-oxide ion triple conducting manganite as an efficient cobalt-free cathode for protonic ceramic fuel cells. <i>Journal of Materials Chemistry A</i> , 2020, 8, 11043-11055.	5.2	64
35	Highly Durable Oxygen Evolution Reaction Catalyst: Amorphous Oxyhydroxide Derived from Brownmillerite-Type Ca ₂ FeCoO ₅ . <i>ACS Applied Energy Materials</i> , 2020, 3, 5269-5276.	2.5	10
36	Long-term durability of platelet-type carbon nanofibers for OER and ORR in highly alkaline media. <i>Applied Catalysis A: General</i> , 2020, 597, 117555.	2.2	23

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37	(Invited) Highly Durable Platelet-Type Carbon Nanofibers for Oer in Alkaline Electrolyte. ECS Meeting Abstracts, 2020, MA2020-01, 2805-2805.	0.0	0
38	Compositional Variations in Porous Anodic Oxides Formed on Fe(100), Fe(110) and Fe(111) Single Crystals. ECS Meeting Abstracts, 2020, MA2020-01, 2785-2785.	0.0	0
39	Spinel-Type Metal Oxide Nanoparticles Supported on Platelet-Type Carbon Nanofibers as a Bifunctional Catalyst for Oxygen Evolution Reaction and Oxygen Reduction Reaction. Electrochemistry, 2020, 88, 566-573.	0.6	5
40	Converting Fabric to Textile Nickel Current Collector with Ag ₂ s Decoration for Producing Dendrite-Free Lithium Metal Anode. ECS Meeting Abstracts, 2020, MA2020-02, 402-402.	0.0	0
41	(Invited) Anodizing of Metals for Fabrication of Functional Nanostructured Surfaces. ECS Meeting Abstracts, 2020, MA2020-02, 1202-1202.	0.0	0
42	Performance Evaluation of Intermediate Temperature Proton-Conducting Soec with BaZr _{0.6} Ce _{0.2} Y _{0.2} O _{3-δ} Electrolyte. ECS Meeting Abstracts, 2020, MA2020-02, 3616-3616.	0.0	0
43	(Invited) Incorporation of Bulk Proton Carriers in Manganese Perovskites Triggered By Charge Disproportionation between Metal and Oxygen Atoms. ECS Meeting Abstracts, 2020, MA2020-02, 2637-2637.	0.0	0
44	Numerical Simulation of OXIDE-ION Blocking Effect in Hydrogen Permeable Metal-Supported Fuel Cell. ECS Meeting Abstracts, 2020, MA2020-02, 2624-2624.	0.0	0
45	Spinel-Type Metal Oxide Nanoparticles Supported on Platelet-Type Carbon Nanofibers for Oxygen Evolution Reaction and Oxygen Reduction Reaction. ECS Meeting Abstracts, 2020, MA2020-02, 3618-3618.	0.0	0
46	The Role of Hydrated Alumina Layer on the Incorporation of Electrolyte Species in Anodizing of Aluminum. ECS Meeting Abstracts, 2020, MA2020-02, 1233-1233.	0.0	0
47	Electrochemically prepared oxides for resistive switching memories. Faraday Discussions, 2019, 213, 165-181.	1.6	29
48	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.	1.2	1
49	Activation of Catalytically Active Edge-Sharing Domains in Ca ₂ FeCoO ₅ for Oxygen Evolution Reaction in Highly Alkaline Media. ACS Applied Materials & Interfaces, 2019, 11, 28823-28829.	4.0	25
50	Ultra-rapid formation of crystalline anatase TiO ₂ films highly doped with substrate species by a cathodic deposition method. Electrochemistry Communications, 2019, 108, 106561.	2.3	5
51	Incorporation of Bulk Proton Carriers in Cubic Perovskite Manganite Driven by Interplays of Oxygen and Manganese Redox. Chemistry of Materials, 2019, 31, 8383-8393.	3.2	26
52	High dispersion and oxygen reduction reaction activity of Co ₃ O ₄ nanoparticles on platelet-type carbon nanofibers. RSC Advances, 2019, 9, 3726-3733.	1.7	9
53	Heteroatom-doped porous carbon with tunable pore structure and high specific surface area for high performance supercapacitors. Electrochimica Acta, 2019, 314, 173-187.	2.6	51
54	High-valence-state manganate(ν) Ba ₃ Mn ₂ O ₈ as an efficient anode of a proton-conducting solid oxide steam electrolyzer. Inorganic Chemistry Frontiers, 2019, 6, 1587-1597.	3.0	8

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55	The role of tungsten species in the transition of anodic nanopores to nanotubes formed on iron alloyed with tungsten. <i>Electrochimica Acta</i> , 2019, 309, 274-282.	2.6	4
56	Exothermically Efficient Exfoliation of Biomass Cellulose to Value-Added N-Doped Hierarchical Porous Carbon for Oxygen Reduction Electrocatalyst. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 3047-3059.	1.8	15
57	Employing a T-shirt template and variant of Schweizer's reagent for constructing a low-weight, flexible, hierarchically porous and textile-structured copper current collector for dendrite-suppressed Li metal. <i>Journal of Materials Chemistry A</i> , 2019, 7, 27066-27073.	5.2	7
58	Cotton-derived carbon sponge as support for form-stabilized composite phase change materials with enhanced thermal conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2019, 192, 8-15.	3.0	106
59	Incorporation of alloying elements into porous anodic films on aluminium alloys: The role of cell diameter. <i>Electrochimica Acta</i> , 2019, 296, 783-789.	2.6	16
60	Fabrication of Superoleophobic Surface on Stainless Steel by Hierarchical Surface Roughening and Organic Coating. <i>ISIJ International</i> , 2019, 59, 345-350.	0.6	12
61	Vertically aligned carbon fibers as supporting scaffolds for phase change composites with anisotropic thermal conductivity and good shape stability. <i>Journal of Materials Chemistry A</i> , 2019, 7, 4934-4940.	5.2	86
62	Fabrication of Superhydrophobic and Superoleophobic Surfaces on Stainless Steels. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2019, 70, 604-607.	0.1	0
63	Ex situ Evidence for the Role of a Fluoride-Rich Layer Switching the Growth of Nanopores to Nanotubes: A Missing Piece of the Anodizing Puzzle. <i>ChemElectroChem</i> , 2018, 5, 570-570.	1.7	1
64	Enhanced hydrogen permeability of hafnium nitride nanocrystalline membranes by interfacial hydride conduction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 2730-2741.	5.2	16
65	Effect of fluorozirconic acid on anodizing of aluminium and AA 2024-T3 alloy in sulphuric and tartaric-sulphuric acids. <i>Surface and Coatings Technology</i> , 2018, 342, 233-243.	2.2	20
66	Starch-Derived Hierarchical Porous Carbon with Controlled Porosity for High Performance Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7292-7303.	3.2	115
67	Electrochemical Oxidation of Hf-Nb Alloys as a Valuable Route to Prepare Mixed Oxides of Tailored Dielectric Properties. <i>Advanced Electronic Materials</i> , 2018, 4, 1800006.	2.6	17
68	Electrochemically prepared oxides for resistive switching devices. <i>Electrochimica Acta</i> , 2018, 274, 103-111.	2.6	25
69	Analysis of the Anode Reaction of Solid Oxide Electrolyzer Cells with $\text{BaZr}_{0.4}\text{Ce}_{0.4}\text{Y}_{0.2}\text{O}_{3-x}$ Electrolytes and $\text{Sm}_{0.5}\text{Sr}_{0.5}\text{CoO}_{3-x}$ Anodes. <i>Journal of the Electrochemical Society</i> , 2018, 165, F342-F349.	1.3	23
70	Highly increased breakdown potential of anodic films on aluminum using a sealed porous layer. <i>Journal of Solid State Electrochemistry</i> , 2018, 22, 2073-2081.	1.2	4
71	High Efficiency Direct Ammonia Fuel Cells Based on $\text{BaZr}_{0.1}\text{Ce}_{0.7}\text{Y}_{0.2}\text{O}_{3-\delta}$ /Pd Oxide-Metal Junctions. <i>Global Challenges</i> , 2018, 2, 1700088.	1.8	25
72	Strong Lanthanoid Substitution Effect on Electrocatalytic Activity of Double-Perovskite-Type $\text{BaLnMn}_2\text{O}_{5-x}$ (Ln = Y, Gd, Nd, and La) for Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , 2018, 122, 7081-7087.	1.5	10

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73	Application of valence-to-core X-ray emission spectroscopy for identification and estimation of amount of carbon covalently bonded to chromium in amorphous Cr-C coatings prepared by magnetron sputtering. <i>Applied Surface Science</i> , 2018, 427, 566-572.	3.1	6
74	Ex Situ Evidence for the Role of a Fluoride-Rich Layer Switching the Growth of Nanopores to Nanotubes: A Missing Piece of the Anodizing Puzzle. <i>ChemElectroChem</i> , 2018, 5, 610-618.	1.7	19
75	Growth of Passive Films on Valve Metals and Their Alloys. , 2018, , 250-258.		0
76	Corrosion Behavior of Galvanized Steel with Organic Coatings Containing Metallic Powders. <i>Zairyo To Kankyo/ Corrosion Engineering</i> , 2018, 67, 41-49.	0.0	0
77	La _{0.7} Sr _{0.3} Mn ₁ Ni _x O ₃ Electro catalysts for the Four-Electron Oxygen Reduction Reaction in Concentrated Alkaline Media. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22301-22308.	1.5	20
78	Nitrogen-doped porous carbon as-mediated by a facile solution combustion synthesis for supercapacitor and oxygen reduction electrocatalyst. <i>Chemical Engineering Journal</i> , 2018, 350, 278-289.	6.6	78
79	Anodic film growth and silver enrichment during anodizing of an Mg-0.6 at.% Ag alloy in fluoride-containing organic electrolytes. <i>Electrochimica Acta</i> , 2018, 280, 300-307.	2.6	5
80	Evaluation of thin film fuel cells with Zr-rich BaZr _x Ce _{0.8-x} Y _{0.2} O ₃ electrolytes ($x \approx 0.4$) fabricated by a single-step reactive sintering method. <i>RSC Advances</i> , 2018, 8, 26309-26317.	1.7	20
81	Rapid and Repeatable Self-Healing Superoleophobic Porous Aluminum Surface Using Infiltrated Liquid Healing Agent. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800566.	1.9	17
82	Diffusion-controlled Growth of TiO ₂ Mesoporous Anodic Films in Hot Phosphate/glycerol Electrolytes. <i>Electrochemistry</i> , 2018, 86, 184-189.	0.6	1
83	Anodizing for Photocatalysts. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2018, 69, 609-612.	0.1	0
84	Porous Anodic Films on Iron. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2018, 69, 616-620.	0.1	0
85	Anodic films obtained on Ti6Al4V in aluminate solutions by spark anodizing: Effect of OH ⁻ and WO ₄ ²⁻ additions on the tribological properties. <i>Surface and Coatings Technology</i> , 2017, 310, 180-189.	2.2	15
86	The Effect of Nb Incorporation on the Electronic Properties of Anodic HfO ₂ . <i>ECS Journal of Solid State Science and Technology</i> , 2017, 6, N25-N31.	0.9	15
87	Formation of Nanoporous NiFe ₂ O ₄ Oxide Films by Anodizing of Fe-Ni Alloy. <i>ECS Transactions</i> , 2017, 75, 67-75.	0.3	1
88	High Efficiency Hydrogen Membrane Fuel Cells with BaCe _{0.8} Y _{0.2} O ₃ Electrolyte Thin Films and Pd _{1-x} Ag _x Solid Anodes. <i>Journal of the Electrochemical Society</i> , 2017, 164, F577-F581.	1.3	1
89	Effects of fluoride ions in the growth of barrier-type films on aluminium. <i>Electrochimica Acta</i> , 2017, 245, 854-862.	2.6	15
90	Brownmillerite-type Ca ₂ FeCoO ₅ as a Practicable Oxygen Evolution Reaction Catalyst. <i>ChemSusChem</i> , 2017, 10, 2864-2868.	3.6	50

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91	A facile one-pot synthesis of FeO /carbon/graphene composites as superior anode materials for lithium-ion batteries. <i>Electrochimica Acta</i> , 2017, 235, 88-97.	2.6	22
92	Hydrogen separation by nanocrystalline titanium nitride membranes with high hydride ion conductivity. <i>Nature Energy</i> , 2017, 2, 786-794.	19.8	40
93	Co ₉ S ₈ Nanoparticles Incorporated in Hierarchically Porous 3D Few-Layer Graphene-Like Carbon with S,N-Doping as Superior Electrocatalyst for Oxygen Reduction Reaction. <i>Particle and Particle Systems Characterization</i> , 2017, 34, 1700296.	1.2	29
94	MnO/Nâ€C anode materials for lithium-ion batteries prepared by cotton-templated combustion synthesis. <i>Green Energy and Environment</i> , 2017, 2, 377-386.	4.7	17
95	Brownmillerite-type Ca ₂ FeCoO ₅ as a Practicable Oxygen Evolution Reaction Catalyst. <i>ChemSusChem</i> , 2017, 10, 2841-2841.	3.6	5
96	Low-Temperature Oxygen Storage of Cr ^{IV} â€Cr ^V Mixed-Valence YCr ₁ â€P ₁ O ₄ Driven by Local Condensation around Oxygen-Deficient Orthochromite. <i>Journal of the American Chemical Society</i> , 2017, 139, 11197-11206.	6.6	8
97	Nitrogenâ€Doped Hierarchical Porous Carbon Architecture Incorporated with Cobalt Nanoparticles and Carbon Nanotubes as Efficient Electrocatalyst for Oxygen Reduction Reaction. <i>Advanced Materials Interfaces</i> , 2017, 4, 1700583.	1.9	21
98	High Efficiency Direct Ammonia Type Fuel Cells based on BaZrxCe0.8-X.Y0.2O3/Pd Oxide-Metal Junctions. <i>ECS Transactions</i> , 2017, 78, 1511-1515.	0.3	1
99	Influence of Fluorozirconic Acid on Sulfuric Acid Anodizing of Aluminum. <i>Journal of the Electrochemical Society</i> , 2017, 164, C831-C839.	1.3	8
100	Facile preparation of self-healing superhydrophobic CeO ₂ surface by electrochemical processes. <i>Applied Surface Science</i> , 2017, 423, 968-976.	3.1	46
101	Highly increased capacitance and thermal stability of anodic oxide films on oxygen-incorporated Zr-Ti alloy. <i>Journal of Solid State Electrochemistry</i> , 2017, 21, 2807-2816.	1.2	5
102	Influence of Metallic Powder Contents on Corrosion Resistance of Galvanized Steel with Metal Powder-containing Organic Coatings for Automobile Fuel Tanks. <i>ISIJ International</i> , 2017, 57, 2207-2213.	0.6	1
103	Growth of Barrier Type Anodic Film on Magnesium in Ethylene Glycol-Water Mixed Electrolytes Containing Fluoride and Phosphate. <i>Materials Transactions</i> , 2016, 57, 1552-1559.	0.4	3
104	Electrochemical Impedance Spectroscopy of High-Efficiency Hydrogen Membrane Fuel Cells Based on Sputter-Deposited BaCe _{0.8} Y _{0.2} O ₃ Thin Films. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15976-15985.	1.5	20
105	Formation of Porous Anodic Films on Carbon Steels and Their Application to Corrosion Protection Composite Coatings Formed with Polypyrrole. <i>Journal of the Electrochemical Society</i> , 2016, 163, C386-C393.	1.3	26
106	Film growth and alloy enrichment during anodizing AZ31 magnesium alloy in fluoride/glycerol electrolytes of a range of water contents. <i>Electrochimica Acta</i> , 2016, 219, 28-37.	2.6	17
107	Measurement of Adhesion Strength of Al Electroplating Film on AZ31, AZ61, and AZ91 Substrates. <i>ECS Transactions</i> , 2016, 75, 297-304.	0.3	2
108	Research Trends in Anodizing of Metals. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2016, 67, 508-514.	0.1	6

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109	Effect of Pb-underpotential deposition on anodic dissolution and passivation of pure Fe and Fe-Ni alloys in acidic perchlorate solution. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 3133-3142.	1.2	5
110	Photoelectrochemical evidence of inhomogeneous composition at nm length scale of anodic films on valve metals alloys. <i>Electrochimica Acta</i> , 2016, 201, 333-339.	2.6	17
111	Fabrication of a resistive switching gallium oxide thin film with a tailored gallium valence state and oxygen deficiency by rf cosputtering process. <i>RSC Advances</i> , 2016, 6, 8964-8970.	1.7	24
112	Highly active Ni/Y-doped ZrO ₂ catalysts for CO ₂ methanation. <i>Applied Surface Science</i> , 2016, 388, 653-663.	3.1	114
113	Characterization of Corrosion-resistant, Nanometer-thick, Layer-by-layer Aluminosilicate Coatings Prepared on Stainless Steel. <i>Electrochimica Acta</i> , 2016, 201, 311-319.	2.6	6
114	Control of Surface Wettability of Aluminum Mesh with Hierarchical Surface Morphology by Monolayer Coating: From Superoleophobic to Superhydrophilic. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15684-15690.	1.5	21
115	Photoelectrochemical evidence of nitrogen incorporation during anodizing sputtering Al-Ta alloys. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 351-360.	1.3	21
116	Redox-induced proton insertion and desertion of zircon-type neodymium chromate(V). <i>Solid State Ionics</i> , 2016, 285, 175-179.	1.3	1
117	Effect of current density and behaviour of second phases in anodizing of a Mg-Zn-RE alloy in a fluoride/glycerol/water electrolyte. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 1155-1165.	1.2	11
118	Enhancement of Electrolyte Properties for High Energy Density Supercapacitors by using Additive Materials. <i>Journal of Electrochemical Science and Technology</i> , 2016, 7, 214-217.	0.9	2
119	Topical issue on "Corrosion of metals and physicochemical characterization of passive and corroding surfaces" devoted to celebrate the 72nd birthday of Dr. Masahiro Seo. <i>Journal of Solid State Electrochemistry</i> , 2015, 19, 3425-3426.	1.2	0
120	GDOES Depth Profile Analysis of Interfacial Enrichment of Copper during Anodizing of Al-Cu Alloy. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2015, 66, 670-672.	0.1	1
121	Growth of barrier-type anodic films on magnesium in ethylene glycol electrolytes containing fluoride and water. <i>Electrochimica Acta</i> , 2015, 179, 402-410.	2.6	8
122	CO ₂ methanation of Ni catalysts supported on tetragonal ZrO ₂ doped with Ca ²⁺ and Ni ²⁺ ions. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 8347-8355.	3.8	71
123	Corrosion protection of iron using porous anodic oxide/conducting polymer composite coatings. <i>Faraday Discussions</i> , 2015, 180, 479-493.	1.6	15
124	Control of the physical properties of anodic coatings obtained by plasma electrolytic oxidation on Ti6Al4V alloy. <i>Surface and Coatings Technology</i> , 2015, 283, 210-222.	2.2	29
125	The influence of composition on band gap and dielectric constant of anodic Al-Ta mixed oxides. <i>Electrochimica Acta</i> , 2015, 180, 666-678.	2.6	27
126	Highly durable platelet carbon nanofiber-supported platinum catalysts for the oxygen reduction reaction. <i>Carbon</i> , 2015, 87, 1-9.	5.4	23

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127	Behavior of Alloying Elements during Anodizing of Mg-Cu and Mg-W Alloys in a Fluoride/Glycerol Electrolyte. <i>Journal of the Electrochemical Society</i> , 2015, 162, C487-C494.	1.3	5
128	Corrosion scales and passive films: general discussion. <i>Faraday Discussions</i> , 2015, 180, 205-232.	1.6	7
129	Corrosion control: general discussion. <i>Faraday Discussions</i> , 2015, 180, 543-576.	1.6	12
130	Synthesis and characterization of carbon black/manganese oxide air cathodes for zinc-air batteries: Effects of the crystalline structure of manganese oxides. <i>Journal of Power Sources</i> , 2015, 298, 102-113.	4.0	66
131	Formation and field-assisted dissolution of anodic films on iron in fluoride-containing organic electrolyte. <i>Electrochimica Acta</i> , 2015, 151, 363-369.	2.6	23
132	In Situ X-Ray Absorption Spectroscopy Study of Sn Underpotential Deposition on Ni from Perchloric Acid. <i>Journal of the Electrochemical Society</i> , 2014, 161, H195-H202.	1.3	10
133	Mixed Proton Electron Conductivity of Calcium Chromate(V) Apatite. <i>ECS Electrochemistry Letters</i> , 2014, 3, F61-F64.	1.9	3
134	Highly Enhanced Corrosion Resistance of Stainless Steel by Sol-Gel Layer-by-Layer Aluminosilicate Thin Coatings. <i>Journal of the Electrochemical Society</i> , 2014, 161, C57-C61.	1.3	22
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604	The stability of passive state of melt-spun amorphous chromium-base alloys. <i>Corrosion Science</i> , 1990, 31, 355-360.	3.0	12
605	Passivity and its breakdown on sputter-deposited amorphous Al _{1-x} Ti alloys in a neutral aqueous solution with Cl ⁻ . <i>Corrosion Science</i> , 1990, 31, 401-406.	3.0	43
606	A photoelectrochemical and ESCA study of passivity of amorphous nickel-valve metal alloys. <i>Corrosion Science</i> , 1990, 31, 727-732.	3.0	51
607	Electrochemical synthesis and structure of the first example of a ferrocene dication: propane-1,3-diyl-1,1- ϵ^2 -bis(tetramethylcyclopentadienyl)iron(2+). <i>Journal of the Chemical Society Chemical Communications</i> , 1989, , 828-829.	2.0	9
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