

Kazuhiro Fukami

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121
papers

1,559
citations

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33
g-index

131
ext. papers

1,711
ext. citations

3.6
avg, IF

4.53
L-index

#	Paper	IF	Citations
121	General Mechanism for the Synchronization of Electrochemical Oscillations and Self-Organized Dendrite Electrodeposition of Metals with Ordered 2D and 3D Microstructures. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1150-1160	3.8	95
120	Spectral profile of atomic emission lines and effects of pulse duration on laser ablation in liquid. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2009 , 64, 981-985	3.1	59
119	Effects of pulse width on nascent laser-induced bubbles for underwater laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2014 , 97, 94-98	3.1	54
118	Electrodeposition of Noble Metals into Ordered Macropores in p-Type Silicon. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D443	3.9	53
117	Filling of mesoporous silicon with copper by electrodeposition from an aqueous solution. <i>Electrochimica Acta</i> , 2009 , 54, 2197-2202	6.7	52
116	On-site quantitative elemental analysis of metal ions in aqueous solutions by underwater laser-induced breakdown spectroscopy combined with electrodeposition under controlled potential. <i>Analytical Chemistry</i> , 2015 , 87, 1655-61	7.8	51
115	Simultaneous observation of nascent plasma and bubble induced by laser ablation in water with various pulse durations. <i>Journal of Applied Physics</i> , 2015 , 117, 173304	2.5	48
114	Sensitivity of porous silicon rugate filters for chemical vapor detection. <i>Journal of Applied Physics</i> , 2008 , 103, 083516	2.5	47
113	Metal latticeworks formed by self-organization in oscillatory electrodeposition. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9556-7	16.4	42
112	Electrochemically active species in aluminum electrodeposition baths of AlCl ₃ /glyme solutions. <i>Electrochimica Acta</i> , 2016 , 211, 561-567	6.7	40
111	Studies on Chemical Modification of Porous Silicon-Based Graded-Index Optical Microcavities for Improved Stability Under Alkaline Conditions. <i>Advanced Functional Materials</i> , 2012 , 22, 3890-3898	15.6	38
110	Gold Nanostructures for Surface-Enhanced Raman Spectroscopy, Prepared by Electrodeposition in Porous Silicon. <i>Materials</i> , 2011 , 4, 791-800	3.5	38
109	Single-pulse underwater laser-induced breakdown spectroscopy with nongated detection scheme. <i>Analytical Chemistry</i> , 2013 , 85, 3807-11	7.8	36
108	Fine-tuning in size and surface morphology of rod-shaped polypyrrole using porous silicon as template. <i>Electrochemistry Communications</i> , 2008 , 10, 56-60	5.1	36
107	Transfer of the Species Dissolved in a Liquid into Laser Ablation Plasma: An Approach Using Emission Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 26506-26511	3.8	34
106	AlCl ₃ -dissolved Diglyme as Electrolyte for Room-Temperature Aluminum Electrodeposition. <i>Electrochemistry</i> , 2014 , 82, 946-948	1.2	34
105	Dynamics of cavitation bubbles generated by multi-pulse laser irradiation of a solid target in water. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 209-213	2.6	33

104	Room Temperature Magnesium Electrodeposition from Glyme-Coordinated Ammonium Amide Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D389-D396	3.9	32
103	Metal-assisted etching of p-type silicon under anodic polarization in HF solution with and without H ₂ O ₂ . <i>Electrochimica Acta</i> , 2010 , 55, 903-912	6.7	31
102	Self-Organized Periodic Growth of Stacked Hexagonal Wafers in Synchronization with a Potential Oscillation in Zinc Electrodeposition. <i>Journal of the Electrochemical Society</i> , 2005 , 152, C493	3.9	28
101	Synergetic effects of double laser pulses for the formation of mild plasma in water: toward non-gated underwater laser-induced breakdown spectroscopy. <i>Journal of Chemical Physics</i> , 2012 , 136, 174201	3.9	26
100	Platinum electrodeposition in porous silicon: The influence of surface solvation effects on a chemical reaction in a nanospace. <i>Chemical Physics Letters</i> , 2012 , 542, 99-105	2.5	25
99	Emission spectroscopy of laser ablation plume: Composition analysis of a target in water. <i>Applied Surface Science</i> , 2009 , 255, 9576-9580	6.7	25
98	Two-dimensional space-resolved emission spectroscopy of laser ablation plasma in water. <i>Journal of Applied Physics</i> , 2013 , 113, 053302	2.5	21
97	In Situ Electrode Surface Analysis by Laser-Induced Breakdown Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2008 , 155, F237	3.9	19
96	High-Rate Charging of Zinc Anodes Achieved by Tuning Hydration Properties of Zinc Complexes in Water Confined within Nanopores. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 24112-24120	3.8	18
95	Pore formation in p-type silicon in solutions containing different types of alcohol. <i>Nanoscale Research Letters</i> , 2012 , 7, 329	5	17
94	Observation of synchronized spatiotemporal reaction waves in coupled electrochemical oscillations of an NDR type. <i>Electrochemistry Communications</i> , 2005 , 7, 411-415	5.1	16
93	Oscillation-Induced Layer-by-Layer Electrodeposition Producing Alternate Metal and Metal-Alloy Multilayers on a Nanometer Scale. <i>Chemistry Letters</i> , 2002 , 31, 640-641	1.7	16
92	A calibration-free approach for on-site multi-element analysis of metal ions in aqueous solutions by electrodeposition-assisted underwater laser-induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016 , 118, 45-55	3.1	15
91	Electrochemical deposition of platinum within nanopores on silicon: drastic acceleration originating from surface-induced phase transition. <i>Journal of Chemical Physics</i> , 2013 , 138, 094702	3.9	14
90	Structural considerations on multistopband mesoporous silicon rugate filters prepared for gas sensing purposes. <i>Optics Express</i> , 2011 , 19, 13291-305	3.3	14
89	Penetration of Platinum Complex Anions into Porous Silicon: Anomalous Behavior Caused by Surface-Induced Phase Transition. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19105-19116	3.8	13
88	Comparison of the overall temporal behavior of the bubbles produced by short- and long-pulse nanosecond laser ablations in water using a laser-beam-transmission probe. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	13
87	Electrodeposition of platinum and silver into chemically-modified microporous silicon electrodes. <i>Nanoscale Research Letters</i> , 2012 , 7, 330	5	13

86	Irradiation-induced point defects enhance the electrochemical activity of 3C-SiC: An origin of SiC corrosion. <i>Electrochemistry Communications</i> , 2018 , 91, 15-18	5.1	12
85	Mechanism of Oscillatory Electrodeposition of Zinc, Revealed by Microscopic Inspection of Dendritic Deposits during the Oscillation. <i>Chemistry Letters</i> , 2003 , 32, 532-533	1.7	12
84	Tuning of the spacing and thickness of metal latticeworks by modulation of self-organized potential oscillations in tin (Sn) electrodeposition. <i>Electrochimica Acta</i> , 2005 , 50, 5050-5055	6.7	12
83	Number density distribution of solvent molecules on a substrate: a transform theory for atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15534-44	3.6	12
82	A Hydronium Solvate Ionic Liquid: Facile Synthesis of Air-Stable Ionic Liquid with Strong Brønsted Acidity. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H121-H127	3.9	11
81	Multistep filling of porous silicon with conductive polymer by electropolymerization. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009 , 206, 1259-1263	1.6	11
80	A Physical Mechanism for Suppression of Zinc Dendrites Caused by High Efficiency of the Electrodeposition within Confined Nanopores. <i>ECS Electrochemistry Letters</i> , 2012 , 2, D9-D11		11
79	Oscillatory electrodeposition of metal films at liquid/liquid interfaces induced by the large surface energy of growing deposits. <i>Langmuir</i> , 2008 , 24, 2564-8	4	11
78	Spontaneous Symmetry Breaking of Nanoscale Spatiotemporal Pattern as the Origin of Helical Nanopore Etching in Silicon. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 48604-48611	9.5	11
77	Ordered Nanogroove Arrays on TiO ₂ with a Variation of the Groove Depth, Formed by Self-Organized Photoetching. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3934-3937	3.8	10
76	Electrochemically driven intrusion of silver particles into silicon under polarization. <i>Electrochemistry Communications</i> , 2008 , 10, 346-349	5.1	10
75	Cyanide-Free Displacement Silver Plating Using Highly Concentrated Aqueous Solutions of Metal Chloride Salts. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D409-D414	3.9	9
74	Identification of Copper(II) Lactate Complexes in Cu ₂ O Electrodeposition Baths: Deprotonation of the Hydroxyl Group in Highly Concentrated Alkaline Solution. <i>Journal of the Electrochemical Society</i> , 2018 , 165, D444-D451	3.9	9
73	Effect of cation species on surface-induced phase transition observed for platinum complex anions in platinum electrodeposition using nanoporous silicon. <i>Journal of Chemical Physics</i> , 2014 , 141, 074701	3.9	9
72	Gold electrodeposition into porous silicon: Comparison between meso- and macroporous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011 , 8, 1783-1786		9
71	Promoted Dissociative Adsorption of Hydrogen Peroxide and Persulfate Ions and Electrochemical Oscillations. <i>Journal of the Electrochemical Society</i> , 2003 , 150, E47	3.9	9
70	Effects of temporal laser profile on the emission spectra for underwater laser-induced breakdown spectroscopy: Study by short-interval double pulses with different pulse durations. <i>Journal of Applied Physics</i> , 2015 , 117, 023302	2.5	8
69	Crystalline chromium electroplating with high current efficiency using chloride hydrate melt-based trivalent chromium baths. <i>Electrochimica Acta</i> , 2020 , 338, 135873	6.7	8

68	Electrodeposition of an iron thin film with compact and smooth morphology using an ethereal electrolyte. <i>Electrochimica Acta</i> , 2020 , 348, 136289	6.7	8
67	Photoassisted Immersion Deposition of Cu Clusters onto Porous Silicon: A Langmuir-Hill Ligand-Focus Model Applied to the Growth Kinetics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14905-14912	3.8	8
66	Electroless nanoworm Au films on columnar porous silicon layers. <i>Materials Chemistry and Physics</i> , 2012 , 134, 664-669	4.4	8
65	Electrodeposition behavior of noble metals in ordered macroporous silicon. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 1561-1565		8
64	New Autocatalytic Mechanism for Metal Electrodeposition Leading to Oscillations and Fern-Leaf-Shaped Deposits. <i>Chemistry Letters</i> , 2002 , 31, 636-637	1.7	8
63	A Hydronium Solvate Ionic Liquid: Ligand Exchange Conduction Driven by Labile Solvation. <i>Journal of the Electrochemical Society</i> , 2018 , 165, H496-H499	3.9	8
62	An Ionic Liquid State Composed of Superoxide Radical Anions and Crownether-Coordinated Potassium Cations. <i>Journal of the Electrochemical Society</i> , 2017 , 164, H5119-H5123	3.9	7
61	Determination of Stability Constants of Copper(II)-Lactate Complexes in Cu ₂ O Electrodeposition Baths by UV-vis Absorption Spectra Factor Analysis. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D761-D767	3.9	7
60	Surface-enhanced Raman scattering from gold deposited mesoporous silicon. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1471-1474	1.6	7
59	A Concentrated AlCl ₃ -Diglyme Electrolyte for Hard and Corrosion-Resistant Aluminum Electrodeposits. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43289-43298	9.5	7
58	Accelerated growth from amorphous clusters to metallic nanoparticles observed in electrochemical deposition of platinum within nanopores of porous silicon. <i>Electrochemistry Communications</i> , 2016 , 71, 9-12	5.1	7
57	Number Density Distribution of Small Particles around a Large Particle: Structural Analysis of a Colloidal Suspension. <i>Langmuir</i> , 2016 , 32, 11063-11070	4	7
56	Room Temperature Electrodeposition of Flat and Smooth Aluminum Layers from An AlCl ₃ /diglyme Bath. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2018 , 69, 310-311	0.1	7
55	Lateral Growth of Polypyrrole Electropolymerized along Hydrophobic Insulative Substrates. <i>ECS Electrochemistry Letters</i> , 2014 , 3, G5-G7		6
54	Characterization of hybrid cobalt-porous silicon systems: protective effect of the Matrix in the metal oxidation. <i>Nanoscale Research Letters</i> , 2012 , 7, 495	5	6
53	Surface Plasmon Resonance Study of Au Nanorod Structures Templated in Mesoporous Silicon. <i>Plasmonics</i> , 2013 , 8, 35-40	2.4	6
52	Emission spectroscopy of laser ablation plasma with time gating by acousto-optic modulator. <i>Review of Scientific Instruments</i> , 2011 , 82, 023112	1.7	6
51	A Coupled Map Lattice Model for Oscillatory Growth in Electrodeposition. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 114002	1.5	6

50	Suppression of Fast Proton Conduction by Dilution of a Hydronium Solvate Ionic Liquid: Localization of Ligand Exchange. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 046508	3.9	5
49	Mechanism of Accelerated Zinc Electrodeposition in Confined Nanopores, Revealed by X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 18047-18056	3.8	5
48	Numerical simulation of copper filling within mesoporous silicon by electrodeposition. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2011 , 208, 1407-1411	1.6	5
47	In Situ Probing of Dynamic Nanostructural Change of Electrodeposits in the Course of Oscillatory Growth Using SERS. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 3216-3219	3.8	5
46	Dispersion of multiwalled carbon nanotubes into a diglyme solution, electrodeposition of aluminum-based composite, and improvement of hardness. <i>Journal of Alloys and Compounds</i> , 2020 , 816, 152585	5.7	5
45	Dynamic manipulation of the local pH within a nanopore triggered by surface-induced phase transition. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 16323-16328	3.6	4
44	Macroporous SiC Formation in Anodizing Triggered by Irradiation-Induced Lattice Defects. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 11032-11039	3.8	4
43	Stratification of Colloidal Particles on a Surface: Study by a Colloidal Probe Atomic Force Microscopy Combined with a Transform Theory. <i>Journal of Physical Chemistry B</i> , 2018 , 122, 4592-4599	3.4	4
42	Fabrication of a poly(dimethylsiloxane) microstructured surface imprinted from patterned silicon wafer with a self-cleaning property. <i>Polymer Journal</i> , 2016 , 48, 835-838	2.7	4
41	Spontaneous Formation of Microgroove Arrays on the Surface of p-Type Porous Silicon Induced by a Turing Instability in Electrochemical Dissolution. <i>ChemPhysChem</i> , 2015 , 16, 1613-8	3.2	4
40	Ordering and Disordering of Macropores Formed in Prepatterned p-Type Silicon. <i>Journal of the Electrochemical Society</i> , 2010 , 157, D54	3.9	4
39	Preparation and optical properties of porous silicon rugate-type multilayers with different pore sizes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 1620-1623		4
38	Black-colored Metallic Aluminum Obtained by Electrolytic Etching in a Highly Concentrated LiTf ₂ N Aqueous Solution. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2020 , 71, 376-378	0.1	4
37	Contribution of dangling-bonds to polycrystalline SiC corrosion. <i>Scripta Materialia</i> , 2020 , 188, 6-9	5.6	4
36	Ligand Exchange Conduction of Lithium Ion in a Pentaglyme-Lithium Bis(trifluoromethylsulfonyl)amide Super-Concentrated Electrolyte. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 016506	3.9	4
35	Influence of Solvents in HF Solutions on Anodic Formation of Mesoporous Silicon, Revealed by the Characterization of Mesoporous Silicon Rugate Filters. <i>ECS Journal of Solid State Science and Technology</i> , 2016 , 5, P250-P255	2	3
34	Gold Electrodeposition into Mesoporous Silicon: The Effect of Solution Composition. <i>ECS Transactions</i> , 2010 , 33, 117-123	1	3
33	Porous Silicon and Electrochemical Deposition 2014 , 629-637		3

32	Common mechanism for helical nanotube formation by anodic polymerization and by cathodic deposition using helical pores on silicon electrodes. <i>Electrochemistry Communications</i> , 2020 , 114, 106714	5.1	2
31	Two-dimensional array of particles originating from dipole-dipole interaction as evidenced by potential curve measurements at vertical oil/water interfaces. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 16976-84	3.6	2
30	Morphological Development from Uniform Microporous Structure to Macropore-Like Structure. <i>ECS Transactions</i> , 2013 , 50, 61-74	1	2
29	Nano-Branched Gold Deposits Prepared by Electrochemical Deposition Using Porous Silicon. <i>ECS Transactions</i> , 2010 , 33, 109-116	1	2
28	OCP Oscillation of Silicon in Solution Containing Oxidizing Species. <i>ECS Transactions</i> , 2009 , 16, 181-188	1	2
27	An Improved Model-potential-free Analysis of the Structure Factor Obtained from a Small-angle Scattering: Acquisitions of the Pair Distribution Function and the Pair Potential. <i>Chemistry Letters</i> , 2020 , 49, 1017-1021	1.7	2
26	Electrodeposition of a CoNiCu medium-entropy alloy in a water-in-oil emulsion. <i>Electrochemistry Communications</i> , 2021 , 128, 107057	5.1	2
25	Proton conduction in hydronium solvate ionic liquids affected by ligand shape. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 449-456	3.6	2
24	Cathodic polarization behavior in an aqueous solution containing Co(II) and Tb(III): Comparison between flat and nanoporous electrodes. <i>Electrochimica Acta</i> , 2019 , 309, 339-345	6.7	1
23	Basal-Plane Orientation of Zn Electrodeposits Induced by Loss of Free Water in Concentrated Aqueous Solutions. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 162511	3.9	1
22	Brightness Grade of Silver Electroplating Estimated by Polarization Measurements of Baths. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2020 , 71, 642-644	0.1	1
21	Aging Variation of Magnesium Redox Properties in Ionic Liquid-Grignard Reagent Mixed Electrolytes. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2019 , 70, 210-214	0.1	1
20	Porous Silicon and Electrochemical Deposition 2018 , 951-959		1
19	Unexpected Downstream Mode of Spatiotemporal Rotating Waves Found in the Model of H ₂ O ₂ Reduction on a Platinum Ring-Shaped Electrode under Mild Convection. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 7240-7250	3.8	1
18	An Ammonium Solvate Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 026515	3.9	1
17	Enhancement of Oxidation of Silicon Carbide Originating from Stacking Faults Formed by Mode-Selective Phonon Excitation Using a Mid-Infrared Free Electron Laser.. <i>Journal of Physical Chemistry Letters</i> , 2022 , 2956-2962	6.4	1
16	Macroscopically uniform and flat lithium thin film formed by electrodeposition using multicomponent additives. <i>Electrochemistry Communications</i> , 2022 , 136, 107238	5.1	0
15	High-density and low-roughness anodic oxide formed on SiC in highly concentrated LiCl aqueous solution. <i>Electrochemistry Communications</i> , 2021 , 132, 107138	5.1	0

14 Glyme-Lithium Bis(trifluoromethylsulfonyl)amide Super-concentrated Electrolytes: Salt Addition to Solvate Ionic Liquids Lowers Ionicity but Liberates Lithium Ions. *Journal of the Electrochemical Society*, **2021**, 168, 090521 3.9 ○

13 (Invited) Electrodeposition in Microporous Silicon from the Viewpoint of Hydration Property: Effect of Coexisting Ions in Zinc Electrodeposition. *ECS Transactions*, **2015**, 69, 15-21 1

12 Porous Silicon and Electrochemical Deposition **2014**, 1-8

11 Development of Polymer Gel Bio-Reactor Using Bio-TRIZ Method. *Kobunshi Ronbunshu*, **2013**, 70, 331-336

10 Lead Electrodeposition from Highly Concentrated Calcium Chloride Aqueous Solutions. *Journal of MMIJ*, **2021**, 137, 103-109 0.3

9 Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (II). *Hyomen Kagaku*, **2005**, 26, 757-761

8 Roles of Organic Solvent in Porous Silicon Formation by Anodizing. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2018**, 69, 624-627 0.1

7 In situ semi-quantitative analysis of zinc dissolution within nanoporous silicon by X-ray absorption fine-structure spectroscopy employing an X-ray compatible cell. *Journal of Synchrotron Radiation*, **2019**, 26, 119-123 2.4

6 3.???. *Electrochemistry*, **2016**, 84, 726-731 1.2

5 Porous Silicon and Electrochemical Deposition **2017**, 1-10

4 Reactivity of Zinc Cations under Spontaneous Accumulation of Hydrophobic Coexisting Cations in Hydrophobic Nanoporous Silicon. *ACS Omega*, **2020**, 5, 26894-26901 3.9

3 Correction: Number density distribution of solvent molecules on a substrate: a transform theory for atomic force microscopy. *Physical Chemistry Chemical Physics*, **2016**, 18, 19973-19974 3.6

2 Mechanisms of Two Different Macroporous Structure Formation Observed in Anodization of p-Type Silicon. *Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan*, **2018**, 69, 637-640 0.1

1 Formation of anodic porous SiC enabled by control of lattice defects. *Denki Kagaku*, **2021**, 89, 359-364 ○