

Kazuhiro Fukami

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

121
papers

1,559
citations

23
h-index

33
g-index

131
ext. papers

1,711
ext. citations

3.6
avg, IF

4.53
L-index

#	Paper	IF	Citations
121	Macroscopically uniform and flat lithium thin film formed by electrodeposition using multicomponent additives. <i>Electrochemistry Communications</i> , 2022 , 136, 107238	5.1	0
120	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
119	Lead Electrodeposition from Highly Concentrated Calcium Chloride Aqueous Solutions. <i>Journal of MMIJ</i> , 2021 , 137, 103-109	0.3	
118	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
117	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
116	Electrodeposition of a CoNiCu medium-entropy alloy in a water-in-oil emulsion. <i>Electrochemistry Communications</i> , 2021 , 128, 107057	5.1	2
115	Proton conduction in hydronium solvate ionic liquids affected by ligand shape. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 449-456	3.6	2
114	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
113	An Ammonium Solvate Ionic Liquid. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 026515	3.9	1
112	Glyme-Lithium Bis(trifluoromethylsulfonyl)amide Super-concentrated Electrolytes: Salt Addition to Solvate Ionic Liquids Lowers Ionicity but Liberates Lithium Ions. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 090521	3.9	0
111	Formation of anodic porous SiC enabled by control of lattice defects. <i>Denki Kagaku</i> , 2021 , 89, 359-364	0	
110	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
109	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
108	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
107	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
106	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
105	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

104	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
103	Black-colored Metallic Aluminum Obtained by Electrolytic Etching in a Highly Concentrated LiTf2N Aqueous Solution. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2020 , 71, 376-378	0.1	4
102	Reactivity of Zinc Cations under Spontaneous Accumulation of Hydrophobic Coexisting Cations in Hydrophobic Nanoporous Silicon. <i>ACS Omega</i> , 2020 , 5, 26894-26901	3.9	
101	Contribution of dangling-bonds to polycrystalline SiC corrosion. <i>Scripta Materialia</i> , 2020 , 188, 6-9	5.6	4
100	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
99	A Concentrated AlCl-Diglyme Electrolyte for Hard and Corrosion-Resistant Aluminum Electrodeposits. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 43289-43298	9.5	7
98	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
97	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
96	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
95	Determination of Stability Constants of Copper(II) Lactate Complexes in Cu2O Electrodeposition Baths by UV-vis Absorption Spectra Factor Analysis. <i>Journal of the Electrochemical Society</i> , 2019 , 166, D761-D767	3.9	7
94	In situ semi-quantitative analysis of zinc dissolution within nanoporous silicon by X-ray absorption fine-structure spectroscopy employing an X-ray compatible cell. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 119-123	2.4	
93	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
92	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
91	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
90	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
89	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
88	Identification of Copper(II) Lactate Complexes in Cu2O 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
87	Roles of Organic Solvent in Porous Silicon Formation by Anodizing. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2018 , 69, 624-627	0.1	

68	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
67	(Invited) Electrodeposition in Microporous Silicon from the Viewpoint of Hydration Property: Effect of Coexisting Ions in Zinc Electrodeposition. <i>ECS Transactions</i> , 2015 , 69, 15-21	1	
66	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
65	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
64	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
63	Room Temperature Magnesium Electrodeposition from Glyme-Coordinated Ammonium Amide Electrolytes. <i>Journal of the Electrochemical Society</i> , 2015 , 162, D389-D396	3.9	32
62	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
61	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
60	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
59	Porous Silicon and Electrochemical Deposition 2014 , 1-8		
58	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
57	Photoassisted Immersion Deposition of Cu Clusters onto Porous Silicon: A Langmuir-Hill Ligand-Locus Model Applied to the Growth Kinetics. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 14905-14912	3.8	8
56	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
55	AlCl ₃ -dissolved Diglyme as Electrolyte for Room-Temperature Aluminum Electrodeposition. <i>Electrochemistry</i> , 2014 , 82, 946-948	1.2	34
54	Lateral Growth of Polypyrrole Electropolymerized along Hydrophobic Insulative Substrates. <i>ECS Electrochemistry Letters</i> , 2014 , 3, G5-G7		6
53	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
52	Porous Silicon and Electrochemical Deposition 2014 , 629-637		3
51	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

50	Surface Plasmon Resonance Study of Au Nanorod Structures Templated in Mesoporous Silicon. <i>Plasmonics</i> , 2013 , 8, 35-40	2.4	6
49	Two-dimensional space-resolved emission spectroscopy of laser ablation plasma in water. <i>Journal of Applied Physics</i> , 2013 , 113, 053302	2.5	21
48	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
47	Single-pulse underwater laser-induced breakdown spectroscopy with nongated detection scheme. <i>Analytical Chemistry</i> , 2013 , 85, 3807-11	7.8	36
46	Morphological Development from Uniform Microporous Structure to Macropore-Like Structure. <i>ECS Transactions</i> , 2013 , 50, 61-74	1	2
45	Development of Polymer Gel Bio-Reactor Using Bio-TRIZ Method. <i>Kobunshi Ronbunshu</i> , 2013 , 70, 331-336		
44	Electroless nanoworm Au films on columnar porous silicon layers. <i>Materials Chemistry and Physics</i> , 2012 , 134, 664-669	4.4	8
43	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
42	Pore formation in p-type silicon in solutions containing different types of alcohol. <i>Nanoscale Research Letters</i> , 2012 , 7, 329	5	17
41	Electrodeposition of platinum and silver into chemically-modified microporous silicon electrodes. <i>Nanoscale Research Letters</i> , 2012 , 7, 330	5	13
40	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
39	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
38	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
37	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
36	Structural considerations on multistopband mesoporous silicon rugate filters prepared for gas sensing purposes. <i>Optics Express</i> , 2011 , 19, 13291-305	3.3	14
35	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
34	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
33	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

32	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
31	Gold Nanostructures for Surface-Enhanced Raman Spectroscopy, Prepared by Electrodeposition in Porous Silicon. <i>Materials</i> , 2011 , 4, 791-800	3.5	38
30	Nano-Branched Gold Deposits Prepared by Electrochemical Deposition Using Porous Silicon. <i>ECS Transactions</i> , 2010 , 33, 109-116	1	2
29	Ordering and Disordering of Macropores Formed in Prepatterned p-Type Silicon. <i>Journal of the Electrochemical Society</i> , 2010 , 157, D54	3.9	4
28	Gold Electrodeposition into Mesoporous Silicon: The Effect of Solution Composition. <i>ECS Transactions</i> , 2010 , 33, 117-123	1	3
27	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
26	OCP Oscillation of Silicon in Solution Containing Oxidizing Species. <i>ECS Transactions</i> , 2009 , 16, 181-188	1	2
25	Filling of mesoporous silicon with copper by electrodeposition from an aqueous solution. <i>Electrochimica Acta</i> , 2009 , 54, 2197-2202	6.7	52
24	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
23	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
22	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
21	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
20	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
19	Electrodeposition of Noble Metals into Ordered Macropores in p-Type Silicon. <i>Journal of the Electrochemical Society</i> , 2008 , 155, D443	3.9	53
18	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
17	Sensitivity of porous silicon rugate filters for chemical vapor detection. <i>Journal of Applied Physics</i> , 2008 , 103, 083516	2.5	47
16	In Situ Electrode Surface Analysis by Laser-Induced Breakdown Spectroscopy. <i>Journal of the Electrochemical Society</i> , 2008 , 155, F237	3.9	19
15	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

14	Electrochemically driven intrusion of silver particles into silicon under polarization. <i>Electrochemistry Communications</i> , 2008 , 10, 346-349	5.1	10
13	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
12	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
11	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
10	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
9	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
8	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
7	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
6	Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (II). <i>Hyomen Kagaku</i> , 2005 , 26, 757-761		
5	Metal latticeworks formed by self-organization in oscillatory electrodeposition. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9556-7	16.4	42
4	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
3	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
2	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
1	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