Shuji Nakanishi

List of Publications by Year
in descending order

162	6,164	116194	90395
papers	citations	36 h-index	73 g-index

177	177	177	9892
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Coral symbionts evolved a functional polycistronic flavodiiron gene. Photosynthesis Research, 2022, 151, 113-124.	1.6	8
2	Conserved Two-component Hik2â€“Rre1 Signaling Is Activated Under Temperature Upshift and Plastoquinone-reducing Conditions in the Cyanobacterium Synechococcus elongatus PCC 7942. Plant and Cell Physiology, 2022, 63, 176-188.	1.5	4
3	Positive Feedback Mechanism to Increase the Charging Voltage of Liâ€“O₂ Batteries. Journal of the American Chemical Society, 2022, 144, 1296-1305.	6.6	12
4	Overlooked Factors Required for Electrolyte Solvents in Liâ€“O₂ Batteries: Capabilities of Quenching ¹O₂ and Forming Highlyâ€Decomposable Li₂O₂. Angewandte Chemie - International Edition, 2022, 61, .	7.2	12
5	Overlooked Factors Required for Electrolyte Solvents in Liâ€“O₂ Batteries: Capabilities of Quenching ¹O₂ and Forming Highlyâ€Decomposable Li₂O₂. Angewandte Chemie, 2022, 134, .	1.6	1
6	Bias-free Photo-electrochemical Water Splitting Driven by Large Photopotential of Epitaxial (Pb,La)TiO₃ Ferroelectric Thin Films. ACS Applied Energy Materials, 2022, 5, 2606-2612.	2.5	2
7	Macroscopically uniform and flat lithium thin film formed by electrodeposition using multicomponent additives. Electrochemistry Communications, 2022, 136, 107238.	2.3	3
8	NADPH production in dark stages is critical for cyanobacterial photocurrent generation: a study using mutants deficient in oxidative pentose phosphate pathway. Photosynthesis Research, 2022, 153, 113-120.	1.6	9
9	A Systematic Study on Three Kinds of Oscillations during Simultaneous Occurrence of Nitrate Reduction and Hydrogen Evolution Reaction on Cu and Ag Electrodes. Journal of the Electrochemical Society, 2022, 169, 026527.	1.3	0
10	N,N-Dimethylethanesulfonamide as an Electrolyte Solvent Stable for the Positive Electrode Reaction of Aprotic Liâ€“O₂ Batteries. ACS Applied Energy Materials, 2022, 5, 4404-4412.	2.5	7
11	Order-of-magnitude enhancement in photocurrent generation of Synechocystis sp. PCC 6803 by outer membrane deprivation. Nature Communications, 2022, 13, .	5.8	17
12	Slip-Stacking of Benzothiadiazole Can Provide a Robust Structural Motif for Porous Hydrogen-Bonded Organic Frameworks. Crystal Growth and Design, 2022, 22, 4472-4479.	1.4	2
13	Dissection of respiratory and cyclic electron transport in Synechocystis sp. PCC 6803. Journal of Plant Research, 2022, 135, 555-564.	1.2	4
14	CO2 Electrolysis in Integrated Artificial Photosynthesis Systems. Chemistry Letters, 2021, 50, 166-179.	0.7	17
15	Metal-doped bipyridine linked covalent organic framework films as a platform for photoelectrocatalysts. Journal of Materials Chemistry A, 2021, 9, 11073-11080.	5.2	25
16	Effect of Cobalt Speciation and the Graphitization of the Carbon Matrix on the CO₂ Electroreduction Activity of Co/N-Doped Carbon Materials. ACS Applied Materials & Interfaces, 2021, 13, 15122-15131.	4.0	13
17	Ferrihydrite Reduction by Photosynthetic Synechocystis sp. PCC 6803 and Its Correlation With Electricity Generation. Frontiers in Microbiology, 2021, 12, 650832.	1.5	4
18	Sn Atoms on Cu Nanoparticles for Suppressing Competitive H₂ Evolution in CO₂ Electrolysis. ACS Applied Nano Materials, 2021, 4, 4994-5003.	2.4	16

#	Article	IF	Citations
19	Quantification of NAD(P)H in cyanobacterial cells by a phenol extraction method. Photosynthesis Research, 2021, 148, 57-66.	1.6	15
20	An ordinary differential equation model for simulating secondary battery reactions. Electrochemistry Communications, 2021, 126, 107011.	2.3	2
21	Isotopic Depth Profiling of Discharge Products Identifies Reactive Interfaces in an Aprotic Liâ€“O₂ Battery with a Redox Mediator. Journal of the American Chemical Society, 2021, 143, 7394-7401.	6.6	29
22	Rational Design of Electrocatalysts Comprising Single-Atom-Modified Covalent Organic Frameworks for the N₂ Reduction Reaction: A First-Principles Study. Journal of Physical Chemistry C, 2021, 125, 10983-10990.	1.5	22
23	Anticancer Activity of Cell-Penetrating Redox Phospholipid Polymers. ACS Macro Letters, 2021, 10, 926-932.	2.3	7
24	Electrochemical Oscillations (Named Oscillations H and K) during H₂O₂ Reduction on Pt Electrodes Induced by a Local pH Increase at the Electrode Surface. Journal of the Electrochemical Society, 2021, 168, 076512.	1.3	3
25	Covalent triazine framework anchored with atomically dispersed iron as an efficient catalyst for advanced oxygen reduction. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 628, 127240.	2.3	3
26	Rational Molecular Design of Electrocatalysts Based on Single-Atom Modified Covalent Organic Frameworks for Efficient Oxygen Reduction Reaction. ACS Applied Energy Materials, 2020, 3, 1644-1652.	2.5	44
27	Redoxâ€Active Polymers Connecting Living Microbial Cells to an Extracellular Electrical Circuit. Small, 2020, 16, e2001849.	5.2	16
28	Dynamic Changes in Charge Transfer Resistances during Cycling of Aprotic Liâ€“O₂ Batteries. ACS Applied Materials & Interfaces, 2020, 12, 42803-42810.	4.0	10
29	Synergistic Effect of Binary Electrolyte on Enhancement of the Energy Density in Liâ€“O₂ Batteries. Journal of Physical Chemistry Letters, 2020, 11, 7657-7663.	2.1	5
30	Time-of-day-dependent responses of cyanobacterial cellular viability against oxidative stress. Scientific Reports, 2020, 10, 20029.	1.6	6
31	Mediator-Microorganism Interaction in Microbial Solar Cell: a Fluo-Electrochemical Insight. Analytical Chemistry, 2020, 92, 7532-7539.	3.2	19
32	Glycerol Oxidation Catalyzed by High-valency Ruthenium Species at Electrochemical Interfaces. Chemistry Letters, 2020, 49, 513-516.	0.7	3
33	Aqueous Electrochemical Partial Oxidation of Gaseous Ethylbenzene by a Ru-Modified Covalent Triazine Framework. ACS Applied Materials & Interfaces, 2020, 12, 29376-29382.	4.0	5
34	Extracellular electron transfer mediated by a cytocompatible redox polymer to study the crosstalk among the mammalian circadian clock, cellular metabolism, and cellular redox state. RSC Advances, 2020, 10, 1648-1657.	1.7	6
35	Lightâ€Intensityâ€Responsive Changes of Products in Photocatalytic Reduction of Nitrous Acid on a Cuâ€Doped Covalent Triazine Frameworkâ€“TiO 2 Hybrid. ChemSusChem, 2020, 13, 3462-3468.	3.6	16
36	An Ordinary Differential Equation Model for Simulating Local-pH Change at Electrochemical Interfaces. Frontiers in Energy Research, 2020, 8, .	1.2	4

#	Article	IF	Citations
37	Electrochemical CO₂ Reduction Using Gas Diffusion Electrode Loading Ni-doped Covalent Triazine Frameworks in Acidic Electrolytes. Electrochemistry, 2020, 88, 359-364.	0.6	17
38	Cell-Membrane Permeable Redox Phospholipid Polymers Induce Apoptosis in MDA-MB-231 Human Breast Cancer Cells. Biomacromolecules, 2019, 20, 4447-4456.	2.6	6
39	Photocathode Characteristics of a Spray-Deposited Cu₂ZnGeS₄ Thin Film for CO₂ Reduction in a CO₂-Saturated Aqueous Solution. ACS Applied Energy Materials, 2019, 2, 6911-6918.	2.5	37
40	The endogenous redox rhythm is controlled by a central circadian oscillator in cyanobacterium Synechococcus elongatus PCC7942. Photosynthesis Research, 2019, 142, 203-210.	1.6	5
41	Negative differential resistance as a critical indicator for the discharge capacity of lithium-oxygen batteries. Nature Communications, 2019, 10, 596.	5.8	16
42	Electrochemical impedance analysis of the Li/Au-Li7La3Zr2O12 interface during Li dissolution/deposition cycles: Effect of pre-coating Li7La3Zr2O12 with Au. Journal of Electroanalytical Chemistry, 2019, 835, 143-149.	1.9	33
43	Electrochemical Formation of Fe(IV)=O Derived from H₂O₂ on a Hematite Electrode as an Active Catalytic Site for Selective Hydrocarbon Oxidation Reactions. ChemPhysChem, 2019, 20, 648-650.	1.0	12
44	High-throughput combinatorial screening of multi-component electrolyte additives to improve the performance of Li metal secondary batteries. Scientific Reports, 2019, 9, 6211.	1.6	32
45	Expansion of the Potential Region for Sustained Discharge of Non-aqueous Li-O₂ Batteries Using an Oxygen-enriched Carbon Cathode. Chemistry Letters, 2019, 48, 562-565.	0.7	8
46	Selective Reduction of Nitrate by a Local Cell Catalyst Composed of Metal-Doped Covalent Triazine Frameworks. ACS Catalysis, 2018, 8, 2693-2698.	5.5	41
47	Electrochemical biotechnologies minimizing the required electrode assemblies. Current Opinion in Biotechnology, 2018, 50, 182-188.	3.3	29
48	Structural and Solar Cell Properties of a Ag-Containing Cu₂ZnSnS₄ Thin Film Derived from Spray Pyrolysis. ACS Applied Materials & Interfaces, 2018, 10, 5455-5463.	4.0	61
49	Sulfurâ€Linked Covalent Triazine Frameworks Doped with Coordinatively Unsaturated Cu(I) as Electrocatalysts for Oxygen Reduction. ChemElectroChem, 2018, 5, 805-810.	1.7	26
50	Cooperative Electrocatalytic Reduction of Nitrobenzene to Aniline in Aqueous Solution by Copper-modified Covalent Triazine Framework. Chemistry Letters, 2018, 47, 304-307.	0.7	11
51	Covalent triazine framework modified with coordinatively-unsaturated Co or Ni atoms for CO₂ electrochemical reduction. Chemical Science, 2018, 9, 3941-3947.	3.7	164
52	Dynamic changes in charge-transfer resistance at Li metal/Li7La3Zr2O12 interfaces during electrochemical Li dissolution/deposition cycles. Journal of Power Sources, 2018, 376, 147-151.	4.0	95
53	Extracellular Electron Transfer via Outer Membrane Cytochromes in a Methanotrophic Bacterium Methylococcus capsulatus (Bath). Frontiers in Microbiology, 2018, 9, 2905.	1.5	38
54	Self-Propelled Motion of a Nitrobenzene Droplet on Au Electrode during Sn Electrodeposition: Factors Creating Imbalance of Interfacial Tension and Marangoni Effect. Journal of the Electrochemical Society, 2018, 165, H473-H480.	1.3	3

#	Article	IF	Citations
55	Structural and electric properties of CuSbS₂ compound semiconductor bulk crystals. Japanese Journal of Applied Physics, 2018, 57, 08RC09.	0.8	2
56	Photo-induced direct interfacial charge transfer at TiO2 modified with hexacyanoferrate(iii). Photochemical and Photobiological Sciences, 2018, 17, 1153-1156.	1.6	2
57	Effects of Indium Incorporation on Structural and Photovoltaic Properties of Cu2ZnSnS4Thin Films. ECS Transactions, 2017, 75, 15-22.	0.3	0
58	Potassium Ions Promote Solution-Route Li₂O₂ Formation in the Positive Electrode Reaction of Liâ€“O₂ Batteries. Journal of Physical Chemistry Letters, 2017, 8, 1142-1146.	2.1	30
59	Specific Interaction between Redox Phospholipid Polymers and Plastoquinone in Photosynthetic Electron Transport Chain. ChemPhysChem, 2017, 18, 878-881.	1.0	8
60	Lithium-metal deposition/dissolution within internal space of CNT 3D matrix results in prolonged cycle of lithium-metal negative electrode. Carbon, 2017, 119, 119-123.	5.4	67
61	Bifurcation Behavior in Oscillations during H2O2Reduction at Pt Electrodes. ECS Transactions, 2017, 75, 113-121.	0.3	3
62	Enhanced energy capacity of lithium-oxygen batteries with ionic liquid electrolytes by addition of ammonium ions. Journal of Power Sources, 2017, 356, 12-17.	4.0	12
63	Appearance of New Oscillation (Named Oscillation H) Induced by Na2SO4and K2SO4in Electroreduction of H2O2on Platinum. Journal of the Electrochemical Society, 2017, 164, H1-H10.	1.3	12
64	Real-time monitoring of intracellular redox changes in Methylococcus capsulatus (Bath) for efficient bioconversion of methane to methanol. Bioresource Technology, 2017, 241, 1157-1161.	4.8	18
65	Effects of contaminant water on coulombic efficiency of lithium deposition/dissolution reactions in tetraglyme-based electrolytes. Journal of Power Sources, 2017, 350, 73-79.	4.0	34
66	Improved charging performance of Liâ€“O2 batteries by forming Ba-incorporated Li2O2 as the discharge product. Journal of Power Sources, 2017, 353, 138-143.	4.0	15
67	Insulative Microfiber 3D Matrix as a Host Material Minimizing Volume Change of the Anode of Li Metal Batteries. ACS Energy Letters, 2017, 2, 924-929.	8.8	95
68	Cathodic supply of electrons to living microbial cells via cytocompatible redox-active polymers. Electrochemistry Communications, 2017, 75, 17-20.	2.3	20
69	Effects of TiCl₄treatment on the structural and electrochemical properties of a porous TiO₂layer in CH₃NH₃PbI₃perovskite solar cells. Physical Chemistry Chemical Physics, 2017, 19, 26898-26905.	1.3	20
70	Ru atom-modified covalent triazine framework as a robust electrocatalyst for selective alcohol oxidation in aqueous electrolytes. Chemical Communications, 2017, 53, 10437-10440.	2.2	45
71	Appearance of New Oscillations (Named Oscillations I and J) during Reduction of H2O2on Platinum Electrode. Journal of the Electrochemical Society, 2017, 164, H675-H684.	1.3	6
72	Molecular design of cytocompatible amphiphilic redox-active polymers for efficient extracellular electron transfer. Bioelectrochemistry, 2017, 114, 8-12.	2.4	19

#	Article	IF	Citations
73	Selective electrochemical reduction of nitrogen oxides by covalent triazine frameworks modified with single Pt atoms. Journal of Electroanalytical Chemistry, 2017, 800, 54-59.	1.9	24
74	Spontaneous Motion of Oil Droplets on Au Electrode during Sn Electrodeposition: Factors Creating Imbalance of Interfacial Tension. ECS Transactions, 2017, 80, 1433-1440.	0.3	0
75	N-Shaped Negative Differential Resistance in the Oxidation of Methanol on Platinum in the Absence of Water. ECS Transactions, 2017, 80, 1471-1479.	0.3	2
76	Effects of TiO2 Properties on Performance of CH3NH3PbI3 Perovskite Photovoltaic Cells. MRS Advances, 2016, 1, 3185-3190.	0.5	4
77	Cu<inf>2</inf>ZnSnS<inf>4</inf>-based thin film solar cells with more than 8% conversion efficiency obtained by using a spray pyrolysis technique. , 2016, , .		5
78	Catalytic methane combustion over iron/nitrogen-doped silicon carbide. RSC Advances, 2016, 6, 85559-85563.	1.7	3
79	Impact of Precursor Compositions on the Structural and Photovoltaic Properties of Sprayâ€Deposited Cu₂ZnSnS₄ Thin Films. ChemSusChem, 2016, 9, 2414-2420.	3.6	31
80	Oxygenâ€Tolerant Electrodes with Platinumâ€Loaded Covalent Triazine Frameworks for the Hydrogen Oxidation Reaction. Angewandte Chemie, 2016, 128, 13378-13382.	1.6	25
81	Oxygenâ€Tolerant Electrodes with Platinumâ€Loaded Covalent Triazine Frameworks for the Hydrogen Oxidation Reaction. Angewandte Chemie - International Edition, 2016, 55, 13184-13188.	7.2	134
82	Nickelâ€Nitrogenâ€Modified Graphene: An Efficient Electrocatalyst for the Reduction of Carbon Dioxide to Carbon Monoxide. Small, 2016, 12, 6083-6089.	5.2	228
83	Improved Energy Capacity of Aprotic Liâ€“O₂ Batteries by Forming Cl-Incorporated Li₂O₂ as the Discharge Product. Journal of Physical Chemistry C, 2016, 120, 13360-13365.	1.5	25
84	Comprehensive metabolomic analyses of anode-respiring Geobacter sulfurreducens cells: The impact of anode-respiration activity on intracellular metabolite levels. Process Biochemistry, 2016, 51, 34-38.	1.8	22
85	Electrocatalytic Reduction of Nitrate to Nitrous Oxide by a Copper-Modified Covalent Triazine Framework. Journal of Physical Chemistry C, 2016, 120, 15729-15734.	1.5	117
86	Efficient oxygen reduction reaction electrocatalysts synthesized from an iron-coordinated aromatic polymer framework. Journal of Materials Chemistry A, 2016, 4, 3858-3864.	5.2	20
87	Copperâ€Modified Covalent Triazine Frameworks as Nonâ€Nobleâ€Metal Electrocatalysts for Oxygen Reduction. Angewandte Chemie - International Edition, 2015, 54, 11068-11072.	7.2	237
88	Electrochemical Detection of Circadian Redox Rhythm in Cyanobacterial Cells via Extracellular Electron Transfer. Plant and Cell Physiology, 2015, 56, 1053-1058.	1.5	14
89	Cobalt phthalocyanine analogs as soluble catalysts that improve the charging performance of Li-O2 batteries. Chemical Physics Letters, 2015, 620, 78-81.	1.2	39
90	Efficient Bifunctional Fe/C/N Electrocatalysts for Oxygen Reduction and Evolution Reaction. Journal of Physical Chemistry C, 2015, 119, 2583-2588.	1.5	150

#	Article	IF	Citations
91	Transient chaotic behavior during simultaneous occurrence of two electrochemical oscillations. Journal of Solid State Electrochemistry, 2015, 19, 3253-3263.	1.2	13
92	Heat-treated 3,5-diamino-1,2,4-triazole/graphene hybrid functions as an oxygen reduction electrocatalyst with high activity and stability. Electrochimica Acta, 2015, 180, 173-177.	2.6	28
93	In Situ CO₂-Emission Assisted Synthesis of Molybdenum Carbonitride Nanomaterial as Hydrogen Evolution Electrocatalyst. Journal of the American Chemical Society, 2015, 137, 110-113.	6.6	278
94	Transition Metal Complexes with Macrocyclic Ligands Serve as Efficient Electrocatalysts for Aprotic Oxygen Evolution on Li2O2. Journal of Physical Chemistry C, 2014, 118, 28435-28439.	1.5	41
95	Regulation of the Cyanobacterial Circadian Clock by Electrochemically Controlled Extracellular Electron Transfer. Angewandte Chemie - International Edition, 2014, 53, 2208-2211.	7.2	27
96	Efficient Li₂O₂ Formation via Aprotic Oxygen Reduction Reaction Mediated by Quinone Derivatives. Journal of Physical Chemistry C, 2014, 118, 18397-18400.	1.5	62
97	Extracellular Electron Transfer Enhances Polyhydroxybutyrate Productivity in Ralstonia eutropha. Environmental Science and Technology Letters, 2014, 1, 40-43.	3.9	33
98	Platinum-modified covalent triazine frameworks hybridized with carbon nanoparticles as methanol-tolerant oxygen reduction electrocatalysts. Nature Communications, 2014, 5, 5040.	5.8	289
99	Graphene Defects as Active Catalytic Sites that are Superior to Platinum Catalysts in Electrochemical Nitrate Reduction. ChemElectroChem, 2014, 1, 858-862.	1.7	28
100	Ironâ€“Nitrogen Coordination in Modified Graphene Catalyzes a Fourâ€Electronâ€Transfer Oxygen Reduction Reaction. ChemElectroChem, 2014, 1, 877-884.	1.7	16
101	Potential oscillation during electrolysis of water in acidic solutions under numerous conditions. Journal of Electroanalytical Chemistry, 2014, 713, 39-46.	1.9	26
102	Nitrogen-doped carbon nanomaterials as non-metal electrocatalysts for water oxidation. Nature Communications, 2013, 4, 2390.	5.8	923
103	Extracellular Electron Transfer across Bacterial Cell Membranes via a Cytocompatible Redoxâ€Active Polymer. ChemPhysChem, 2013, 14, 2159-2163.	1.0	44
104	Extracellular Electron Transfer of a Highly Adhesive and Metabolically Versatile Bacterium. ChemPhysChem, 2013, 14, 2407-2412.	1.0	13
105	Hydrogen Evolution by Tungsten Carbonitride Nanoelectrocatalysts Synthesized by the Formation of a Tungsten Acid/Polymer Hybrid Inâ€…Situ. Angewandte Chemie - International Edition, 2013, 52, 13638-13641.	7.2	133
106	Electrochemical Gating of Tricarboxylic Acid Cycle in Electricity-Producing Bacterial Cells of Shewanella. PLoS ONE, 2013, 8, e72901.	1.1	29
107	Potential and Cell Density Dependences of Extracellular Electron Transfer of Anode-Respiring Geobacter sulfurreducens Cells. Electrochemistry, 2012, 80, 330-333.	0.6	6
108	Instantaneous one-pot synthesis of Feâ€“N-modified graphene as an efficient electrocatalyst for the oxygen reduction reaction in acidic solutions. Chemical Communications, 2012, 48, 10213.	2.2	106

#	Article	IF	Citations
109	Flavins Secreted by Bacterial Cells of <i>Shewanella</i> Catalyze Cathodic Oxygen Reduction. ChemSusChem, 2012, 5, 1054-1058.	3.6	33
110	Acceleration effect of adsorbed thiocyanate ions on electrodeposition of CuSCN, causing spontaneous electrochemical oscillation. Chemical Physics Letters, 2012, 530, 77-80.	1.2	21
111	Feedback stabilization involving redox states of c-type cytochromes in living bacteria. Chemical Communications, 2011, 47, 3870.	2.2	30
112	Negative Faradaic Resistance in Extracellular Electron Transfer by Anode-Respiring <i>Geobacter sulfurreducens</i> Cells. Environmental Science & Technology, 2011, 45, 10163-10169.	4.6	37
113	æŒ¯å‹•åå¿œœã«ã‚ˆã‚‹é‰„æ—¯ç³»å•é‡‘åšå±è–„è†œã®è‡ªå·±çµ„ç¹”åŒ–å½¢æˆ. Hyomen Gijutsu/Journal of the Surface Finishing Society of	0.1	0
114	Hydroxylated and aminated polyaniline nanowire networks for improving anode performance in microbial fuel cells. Journal of Bioscience and Bioengineering, 2011, 112, 63-66.	1.1	43
115	Bistability in the surface dipole of silicon grafted with copper nanoparticles: An in-situ electrochemical MIR-FTIR study. Electrochemistry Communications, 2011, 13, 1447-1450.	2.3	0
116	Redoxâ€Responsive Switching in Bacterial Respiratory Pathways Involving Extracellular Electron Transfer. ChemSusChem, 2010, 3, 1253-1256.	3.6	49
117	Electrochemical Characterization of a Single Electricityâ€Producing Bacterial Cell of <i>Shewanella</i> by Using Optical Tweezers. Angewandte Chemie - International Edition, 2010, 49, 6596-6599.	7.2	83
118	Interfacial energy gradient at a front of an electrochemical wave appearing in CuSn-alloy oscillatory electrodeposition. Electrochimica Acta, 2009, 55, 358-362.	2.6	7
119	A liquid/liquid interface excited by stimulation with water. Journal of Colloid and Interface Science, 2009, 332, 254-257.	5.0	2
120	Selfâ€propelled Oil Droplets on Metal Surfaces during Electrodeposition. ChemPhysChem, 2008, 9, 2302-2304.	1.0	10
121	Bifurcation analysis of bistability between spatially uniform and non-uniform electrochemical oscillations. Chemical Physics Letters, 2008, 453, 35-39.	1.2	9
122	Selection principle for various modes of spatially nonuniform electrochemical oscillations. Journal of Chemical Physics, 2008, 128, 014714.	1.2	10
123	Oscillatory Electrodeposition of Metal Films at Liquid/Liquid Interfaces Induced by the Large Surface Energy of Growing Deposits. Langmuir, 2008, 24, 2564-2568.	1.6	12
124	Ordered Nanogroove Arrays onn-TiO2with a Variation of the Groove Depth, Formed by Self-Organized Photoetching. Journal of Physical Chemistry C, 2007, 111, 3934-3937.	1.5	10
125	General Mechanism for the Synchronization of Electrochemical Oscillations and Self-Organized Dendrite Electrodeposition of Metals with Ordered 2D and 3D Microstructures. Journal of Physical Chemistry C, 2007, 111, 1150-1160.	1.5	112
126	In Situ Probing of Dynamic Nanostructural Change of Electrodeposits in the Course of Oscillatory Growth Using SERS. Journal of Physical Chemistry C, 2007, 111, 3216-3219.	1.5	6

#	Article	IF	Citations
127	Water Molecules Adsorbed at Electrode Surfaces Determine the Macroscopic Contact Angles. ChemPhysChem, 2007, 8, 1016-1018.	1.0	4
128	Mechanisms of Oscillations and Formation of Nano-Scale Layered Structures in Induced Co-Deposition of Some Iron-Group Alloys (Niâ^'P, Niâ^'W, and Coâ^'W), Studied by an In Situ Electrochemical Quartz Crystal Microbalance Technique. Journal of Physical Chemistry B, 2006, 110, 11944-11949.	1.2	25
129	A Coupled Map Lattice Model for Oscillatory Growth in Electrodeposition. Journal of the Physical Society of Japan, 2006, 75, 114002.	0.7	7
130	Periodic and chaotic oscillations of the electrochemical potential of p-Si in contact with an aqueous (CuSO[sub 4]+HF) solution, caused by electroless Cu deposition. Chaos, 2006, 16, 037106.	1.0	11
131	Oscillatory Electrodeposition and Formation of Alloy Multilayers Induced by a Phase Transition of Adsorbed Surfactants at the Electrode Surface. Hyomen Kagaku, 2006, 27, 408-413.	0.0	0
132	Observation of synchronized spatiotemporal reaction waves in coupled electrochemical oscillations of an NDR type. Electrochemistry Communications, 2005, 7, 411-415.	2.3	24
133	Tuning of the spacing and thickness of metal latticeworks by modulation of self-organized potential oscillations in tin (Sn) electrodeposition. Electrochimica Acta, 2005, 50, 5050-5055.	2.6	14
134	Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (I). Hyomen Kagaku, 2005, 26, 694-699.	0.0	0
135	Self-Organized Periodic Growth of Stacked Hexagonal Wafers in Synchronization with a Potential Oscillation in Zinc Electrodeposition. Journal of the Electrochemical Society, 2005, 152, C493.	1.3	31
136	Macroscopically Uniform Nanoperiod Alloy Multilayers Formed by Coupling of Electrodeposition with Current Oscillations. Journal of Physical Chemistry B, 2005, 109, 1750-1755.	1.2	35
137	Layer-by-Layer Electrodeposition of Copper in the Presence of o-Phenanthroline, Caused by a New Type of Hidden NDR Oscillation with the Effective Electrode Surface Area as the Key Variable. Journal of Physical Chemistry B, 2005, 109, 18846-18851.	1.2	25
138	Self-organized Formation of Nano-structures on Solid Surfaces by Nonlinear Electrochemical Oscillations (II). Hyomen Kagaku, 2005, 26, 757-761.	0.0	0
139	Metal Latticeworks Formed by Self-Organization in Oscillatory Electrodeposition. Journal of the American Chemical Society, 2004, 126, 9556-9557.	6.6	47
140	Enantiospecific Electrodeposition of Chiral CuO Films from Copper(II) Complexes of Tartaric and Amino Acids on Single-Crystal Au(001). Chemistry of Materials, 2004, 16, 4232-4244.	3.2	47
141	Enantiospecific electrodeposition of a chiral catalyst. Nature, 2003, 425, 490-493.	13.7	356
142	Epitaxial Electrodeposition of Prussian Blue Thin Films on Single-Crystal Au(110). Journal of the American Chemical Society, 2003, 125, 14998-14999.	6.6	38
143	Promoted Dissociative Adsorption of Hydrogen Peroxide and Persulfate Ions and Electrochemical Oscillations. Journal of the Electrochemical Society, 2003, 150, E47.	1.3	9
144	Mechanism of Oscillatory Electrodeposition of Zinc, Revealed by Microscopic Inspection of Dendritic Deposits during the Oscillation. Chemistry Letters, 2003, 32, 532-533.	0.7	12

#	Article	IF	Citations
145	é›»æ°—åŒ–å¦ æŒ¯å‹•ç¾¤è±¡ãƒ‘ã‚¿ãƒ¼ãƒ³å½¢æˆç¾¤ç¾¤ã••æœ›. Electrochemistry, 2003, 71, 327-332.	0.6	0
146	Oscillation-Induced Layer-by-Layer Electrodeposition Producing Alternate Metal and Metal-Alloy Multilayers on a Nanometer Scale. Chemistry Letters, 2002, 31, 640-641.	0.7	16
147	New Autocatalytic Mechanism for Metal Electrodeposition Leading to Oscillations and Fern-Leaf-Shaped Deposits. Chemistry Letters, 2002, 31, 636-637.	0.7	9
148	Oscillatory Peroxodisulfate Reduction on Pt and Au Electrodes under High Ionic Strength Conditions, Caused by the Catalytic Effect of Adsorbed OH. Journal of Physical Chemistry B, 2002, 106, 2287-2293.	1.2	20
149	Observation of two stationary states of low and high H2O2-reduction currents at a Pt electrode, arising from the occurrence of a positive feedback mechanism including solution-stirring by gas evolution. Physical Chemistry Chemical Physics, 2001, 3, 3284-3289.	1.3	17
150	Catalytic Effect of Adsorbed Iodine Atoms on Hydrogen Peroxide Reduction at Single-Crystal Pt Electrodes, Causing Enhanced Current Oscillations. Journal of Physical Chemistry B, 2001, 105, 5751-5756.	1.2	16
151	Mechanisms of Two Electrochemical Oscillations of Different Types, Observed for H2O2 Reduction on a Pt Electrode in the Presence of a Small Amount of Halide Ions. Journal of Physical Chemistry B, 2001, 105, 7246-7253.	1.2	44
152	New-Type Electrochemical Oscillation Caused by Electrodeâ^'Surface Inhomogeneity and Electrical Coupling as Well as Solution Stirring through Electrochemical Gas Evolution Reaction. Journal of Physical Chemistry B, 2001, 105, 10905-10911.	1.2	46
153	Control of the Period of an Electrochemical Oscillation by Atomic- or Nanometer-Scale Modifications and Structural Changes of Electrode Surfaces in a System of H[sub 2]O[sub 2] Reduction at Pt Electrodes. Journal of the Electrochemical Society, 2001, 148, E405.	1.3	5
154	Appearance of an Oscillation through the Autocatalytic Mechanism by Control of the Atomic-Level Structure of Electrode Surfaces in Electrochemical H2O2Reduction at Pt Electrodes. Journal of Physical Chemistry B, 2000, 104, 4181-4188.	1.2	51
155	Roles of Local Deviations and Fluctuations of the Helmholtz-Layer Potential in Transitions from Stationary to Oscillatory Currents in an â€œH2O2â^' Acidâ^'Ptâ€•Electrochemical System. Journal of Physical Chemistry B, 2000, 104, 11186-11194.	1.2	14
156	Electrochemical oscillations of a new type in an H2O2+H2SO4â^£Pt-electrode system, appearing by addition of small amounts of halide ions. Journal of Electroanalytical Chemistry, 1999, 473, 156-165.	1.9	29
157	Nonlinear Phenomena. Modulation of Electrochemical Oscillations in an H2O2-H2SO4-Pt System by External Potential Pulses.. Kagaku Kogaku Ronbunshu, 1999, 25, 510-515.	0.1	2
158	Mechanism and Simulation of Electrochemical Current Oscillations Observed in the H2O2-Reduction Reaction on Platinum Electrodes in Acidic Solutions. Bulletin of the Chemical Society of Japan, 1999, 72, 1247-1254.	2.0	26
159	Positive Feedback Mechanism, Autocatalysis Mechanism, and Dependence on Atomic-Level Surface Structures in Electrochemical Oscillations for H2O2Reduction on Pt Electrodes. Bulletin of the Chemical Society of Japan, 1999, 72, 2573-2590.	2.0	19
160	Modulation of the Oscillation Period for an Electrochemical Oscillation in an â€œH2O2-Acid-Pt Electrodeâ€•System by Deposition of a Small Amount of Metal Atoms. Chemistry Letters, 1998, 27, 977-978.	0.7	5
161	Appearance of a New Oscillation (Named Oscillation C) in H2O2-Reduction Reaction on a Pt Electrode in Acidic Solutions by Addition of a Small Amount of Chloride Ions. Chemistry Letters, 1998, 27, 1009-1010.	0.7	5
162	Self-Organized Formation of Layered Nanostructures by Oscillatory Electrodeposition. , 0, , 267-290.		4