

Masashi Nakamura

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119
papers

2,580
citations

26
h-index

46
g-index

119
ext. papers

2,857
ext. citations

3.8
avg, IF

5.14
L-index

#	Paper	IF	Citations
119	Structural effects of electrochemical oxidation of formic acid on single crystal electrodes of palladium. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 12480-4	3.4	240
118	Active Sites for the Oxygen Reduction Reaction on the Low and High Index Planes of Palladium. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 12625-12628	3.8	169
117	Beamline for Surface and Interface Structures at SPring-8. <i>Surface Review and Letters</i> , 2003 , 10, 543-547	1.1	120
116	Analysis of heat-treated graphite oxide by X-ray photoelectron spectroscopy. <i>Journal of Materials Science</i> , 2013 , 48, 8171-8198	4.3	104
115	Subnanometer vacancy defects introduced on graphene by oxygen gas. <i>Journal of the American Chemical Society</i> , 2014 , 136, 2232-5	16.4	98
114	Quantitating the lattice strain dependence of monolayer Pt shell activity toward oxygen reduction. <i>Journal of the American Chemical Society</i> , 2013 , 135, 5938-41	16.4	97
113	Active sites for the oxygen reduction reaction on the high index planes of Pt. <i>Electrochimica Acta</i> , 2013 , 112, 899-904	6.7	75
112	Structural effects on the activity for the oxygen reduction reaction on n(1 1 1)(1 0 0) series of Pt: correlation with the oxide film formation. <i>Electrochimica Acta</i> , 2012 , 82, 512-516	6.7	71
111	Surface X-ray diffraction study of Cu UPD on Au(111) electrode in 0.5 M H ₂ SO ₄ solution: the coadsorption structure of UPD copper, hydration water molecule and bisulfate anion on Au(111). <i>Surface Science</i> , 2002 , 514, 227-233	1.8	68
110	The vibrational spectra of water cluster molecules on Pt(111) surface at 20 K. <i>Chemical Physics Letters</i> , 1999 , 309, 123-128	2.5	61
109	Outer Helmholtz plane of the electrical double layer formed at the solid electrode-liquid interface. <i>ChemPhysChem</i> , 2011 , 12, 1430-4	3.2	55
108	Monomer and tetramer water clusters adsorbed on Ru(0001). <i>Chemical Physics Letters</i> , 2000 , 325, 293-298	2.5	53
107	Infrared Reflection Absorption Spectroscopy of OH Adsorption on the Low Index Planes of Pt. <i>Electrocatalysis</i> , 2015 , 6, 295-299	2.7	51
106	Surface structures at the initial stages in passive film formation on Ni(111) electrodes in acidic electrolytes. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 566, 385-391	4.1	50
105	Structural effects on the oxidation of formic acid on the high index planes of palladium. <i>Electrochemistry Communications</i> , 2007 , 9, 279-282	5.1	47
104	Effect of hydrophobic cations on the oxygen reduction reaction on single-crystal platinum electrodes. <i>Nature Communications</i> , 2018 , 9, 4378	17.4	45
103	Effect of non-specifically adsorbed ions on the surface oxidation of Pt(111). <i>ChemPhysChem</i> , 2013 , 14, 2426-31	3.2	36

102	Ring hexamer like cluster molecules of water formed on a Ni(111) surface. <i>Chemical Physics Letters</i> , 2004 , 384, 256-261	2.5	35
101	Structural effects on the oxygen reduction reaction on n(111)l(100) series of Pd. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 657, 123-127	4.1	33
100	Oxygen reduction reaction on the low index planes of palladium electrodes modified with a monolayer of platinum film. <i>Electrochemistry Communications</i> , 2009 , 11, 2282-2284	5.1	31
99	Coadsorption of water dimer and ring-hexamer clusters on M(1 1 1) (M = Cu, Ni, Pt) and Ru(0 0 1) surfaces at 25 K as studied by infrared reflection absorption spectroscopy. <i>Chemical Physics Letters</i> , 2005 , 404, 346-350	2.5	31
98	Infrared spectroscopy of adsorbed OH on n(111)l(100) and n(111)l(111) series of Pt electrode. <i>Journal of Electroanalytical Chemistry</i> , 2017 , 800, 162-166	4.1	29
97	In situ surface X-ray scattering of stepped surface of platinum: Pt(311). <i>Langmuir</i> , 2007 , 23, 10879-82	4	29
96	Structural effects on voltammograms of the low index planes of palladium and Pd(S)-[n(100)l(111)] surfaces in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 2008 , 624, 134-138	4.1	28
95	Coadsorption of water monomers with CO on Ru(001) and charge transfer during hydration processes. <i>Chemical Physics Letters</i> , 2001 , 335, 170-175	2.5	28
94	Structural effects on the enhancement of ORR activity on Pt single-crystal electrodes modified with alkylamines. <i>Electrochemistry Communications</i> , 2018 , 87, 5-8	5.1	26
93	Active sites for the hydrogen oxidation and the hydrogen evolution reactions on the high index planes of Pt. <i>Journal of Electroanalytical Chemistry</i> , 2011 , 657, 61-65	4.1	26
92	Structural dependence of intermediate species for the hydrogen evolution reaction on single crystal electrodes of Pt. <i>Surface Science</i> , 2011 , 605, 1462-1465	1.8	25
91	Structural Effects on the Hydrogen Oxidation Reaction on n(111)l(111) Surfaces of Platinum. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16843-16846	3.8	24
90	One-Dimensional Zigzag Chain of Water Formed on a Stepped Surface. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 4538-4542	3.8	24
89	In-situ flow-cell IRAS observation of intermediates during methanol oxidation on low-index platinum surfaces. <i>ChemPhysChem</i> , 2007 , 8, 1846-9	3.2	24
88	In situ infrared reflection absorption spectroscopy of carbon monoxide adsorbed on Pt(S)-[n(100)x(110)] electrodes. <i>Langmuir</i> , 2007 , 23, 9092-7	4	23
87	In situ observation of Pt oxides on the low index planes of Pt using surface enhanced Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 27570-27579	3.6	22
86	AcidBase concerted mechanism in the dehydration of 1,4-butanediol over bixbyite rare earth oxide catalysts. <i>Catalysis Today</i> , 2014 , 226, 124-133	5.3	21
85	Surface X-ray scattering of high index plane of platinum containing kink atoms in solidliquid interface: Pt(3 1 0) = 3(1 0 0)l(1 1 0). <i>Electrochimica Acta</i> , 2008 , 53, 6070-6075	6.7	21

84	Water adsorption on a p(2x2)-Ni(111)-O surface studied by surface x-ray diffraction and infrared reflection absorption spectroscopy at 25 and 140 K. <i>Journal of Chemical Physics</i> , 2005 , 122, 224703	3.9	21
83	Surface X-ray scattering of stepped surfaces of platinum in an electrochemical environment: Pt(331) = 3(111)-(111) and Pt(511) = 3(100)-(111). <i>Langmuir</i> , 2011 , 27, 4236-42	4	20
82	Estimation of surface structure and carbon monoxide oxidation site of shape-controlled Pt nanoparticles. <i>ChemPhysChem</i> , 2009 , 10, 2719-24	3.2	20
81	Infrared Spectroscopy of Water Adsorbed on M(111) (M = Pt, Pd, Rh, Au, Cu) Electrodes in Sulfuric Acid Solution. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9458-9463	3.8	20
80	Hydration processes on metal surfaces studied by IR and STM: a model for the potential drop across the electric double layers. <i>Surface Science</i> , 2002 , 502-503, 474-484	1.8	19
79	Coadsorption of water and CO molecules on Ru(001) at high CO coverages: comparisons with a Ru(001) electrode surface. <i>Surface Science</i> , 2001 , 490, 301-307	1.8	19
78	The Influence of Pt Oxide Film on the Activity for the Oxygen Reduction Reaction on Pt Single Crystal Electrodes. <i>Electrocatalysis</i> , 2014 , 5, 354-360	2.7	18
77	Ethanol Oxidation on Well-Ordered PtSn Surface Alloy on Pt(111) Electrode. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 18139-18143	3.8	18
76	Catalytically active structure of Bi deposited on a Au(111) electrode for the hydrogen peroxide reduction reaction. <i>Langmuir</i> , 2010 , 26, 4590-3	4	18
75	Monomer structures of water adsorbed on p(2 x 2)-Ni(111)-O surface at 25 and 140 K studied by surface X-ray diffraction. <i>Physical Review Letters</i> , 2005 , 94, 035501	7.4	18
74	1D Hydrogen Bond Chain on Pt(211) Stepped Surface Observed by O K-NEXAFS Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13980-13984	3.8	17
73	Structural effects on the oxygen reduction reaction on the high index planes of Pt ₃ Ni: n(1 1 1) $\sqrt{3}$ × 1 and n(1 1 1) $\sqrt{3}$ × 0) surfaces. <i>Journal of Electroanalytical Chemistry</i> , 2014 , 716, 58-62	4.1	16
72	Hydrogen bonding between a water molecule and electronegative additives (O or Cl-) on a Pt(111) surface. <i>Chemical Physics Letters</i> , 2000 , 320, 381-386	2.5	16
71	The Oxygen Reduction Reaction on Kinked Stepped Surfaces of Pt. <i>Electrocatalysis</i> , 2017 , 8, 46-50	2.7	15
70	Atomic force microscopy of cubic Pt nanoparticles in electrochemical environments. <i>Electrochemistry Communications</i> , 2010 , 12, 544-547	5.1	15
69	Sulfate and CO surface complexes formation with upd copper on Pd(111) and Pt(111) electrode surfaces: abnormal vibrational frequency shifts of CO and sulfate during upd processes. <i>Journal of Electroanalytical Chemistry</i> , 2004 , 563, 63-69	4.1	15
68	In Situ Spectroscopic Study on the Surface Hydroxylation of Diamond Electrodes. <i>Analytical Chemistry</i> , 2019 , 91, 4980-4986	7.8	14
67	In-situ high-speed AFM of shape-controlled Pt nanoparticles in electrochemical environments: Structural effects on the dissolution mechanism. <i>Electrochemistry Communications</i> , 2016 , 72, 5-9	5.1	14

66	Structural effects on the oxygen reduction reaction on the high index planes of Pt ₁₀₀ . <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 13774-9	3.6	14
65	Incommensurate Crystalline phase of n-Alkane Monolayers on Graphite (0001). <i>Journal of Physical Chemistry C</i> , 2011 , 115, 5720-5725	3.8	14
64	Atomic Force Microscopy of the Dissolution of Cubic and Tetrahedral Pt Nanoparticles in Electrochemical Environments. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 15134-15140	3.8	13
63	Structure of the electrical double layer on Ag(100): Promotive effect of cationic species on Br adlayer formation. <i>Physical Review B</i> , 2011 , 84,	3.3	13
62	Surface Oxidation of Au(111) Electrode in Alkaline Media Studied by Using X-ray Diffraction and Infrared Spectroscopy: Effect of Alkali Metal Cation on the Alcohol Oxidation Reactions. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23586-23591	3.8	12
61	The role of lattice parameter in water adsorption and wetting of a solid surface. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 24018-25	3.6	12
60	Infrared spectroscopic study of water coadsorbed with Na on the Ru(0) surface. <i>Surface Science</i> , 2002 , 502-503, 144-148	1.8	12
59	Compression-Induced Conformation and Orientation Changes in an n-Alkane Monolayer on a Au(111) Surface. <i>Langmuir</i> , 2017 , 33, 3934-3940	4	11
58	Structural Dynamics of the Electrical Double Layer during Capacitive Charging/Discharging Processes. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 22136-22140	3.8	11
57	Structural Effects on the Oxygen Reduction Reaction on Pt Single-Crystal Electrodes Modified with Melamine. <i>Electrocatalysis</i> , 2020 , 11, 275-281	2.7	11
56	Interfacial Structure of PtNi Surface Alloy on Pt(111) Electrode for Oxygen Reduction Reaction. <i>ACS Omega</i> , 2017 , 2, 1858-1863	3.9	10
55	Depth-dependent C K-NEXAFS spectra for self-assembled monolayers of 4-methylbenzenethiol and 4-ethylbenzenethiol on Au(111). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 187, 72-76	1.7	10
54	Grazing Incidence X-Ray Diffraction. <i>Springer Series in Surface Sciences</i> , 2013 , 165-190	0.4	10
53	Orientation of n-alkane in thin films on graphite (0001) studied using C K-NEXAFS. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2011 , 184, 257-260	1.7	9
52	Two dimensional metal-oxianion surface complexes formation during the upd process on a Au(111) electrode studied by in situ surface X-ray diffraction and infrared reflection absorption spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2003 , 554-555, 175-182	4.1	9
51	Adsorption of urea on Au(100) and Au(111) electrode surfaces studied by in-situ Fourier-transform infra-red spectroscopy. <i>Surface Science</i> , 1999 , 427-428, 167-172	1.8	9
50	New insights on structural dynamics of electrochemical interface by time-resolved surface X-ray diffraction. <i>Current Opinion in Electrochemistry</i> , 2019 , 14, 200-205	7.2	9
49	In Situ ATR-IR Observation of the Electrochemical Oxidation of a Polycrystalline Boron-Doped Diamond Electrode in Acidic Solutions. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 27456-27461	3.8	9

48	Graphene nanoribbons formed from n-alkane by thermal dehydrogenation on Au(111) surface. <i>Surface Science</i> , 2015 , 635, 44-48	1.8	8
47	Surface X-ray Scattering of Pd(111) and Pd(100) Electrodes during the Oxygen Reduction Reaction. <i>Electrochemistry</i> , 2011 , 79, 256-260	1.2	8
46	Measurement of time-varying kinematics of a dolphin in burst accelerating swimming. <i>PLoS ONE</i> , 2019 , 14, e0210860	3.7	8
45	In situ ATR-IR study of Fe(CN) ₆ ³⁻ /Fe(CN) ₆ ⁴⁻ redox system on boron-doped diamond electrode. <i>Diamond and Related Materials</i> , 2019 , 93, 50-53	3.5	7
44	Interfacial structure of Co porphyrins on Au(111) electrode: Interaction of porphyrin molecules with substrate. <i>Surface Science</i> , 2012 , 606, 1560-1564	1.8	7
43	Phase Transition of n-C ₃₆ H ₇₄ Monolayer on Pt(111) Covered with Monolayer Graphene Studied by C K-NEXAFS. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 21856-21863	3.8	7
42	In situ observation of a Au (111) electrode surface using the X-ray reciprocal-lattice space imaging method. <i>Applied Surface Science</i> , 2009 , 256, 1144-1147	6.7	7
41	Multilayer Relaxation of Ru(0001)-(2 × 2)-O Studied by Surface X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 977-980	3.8	7
40	Activity for the oxygen reduction reaction of the single crystal electrode of Ni modified with Pt. <i>Electrochemistry Communications</i> , 2016 , 68, 15-18	5.1	7
39	Activation of Oxygen Reduction Reaction on Well-Defined Pt Electrocatalysts in Alkaline Media Containing Hydrophobic Organic Cations. <i>ACS Applied Energy Materials</i> , 2019 , 2, 3904-3909	6.1	6
38	Surface X-ray Scattering of Pd(110) and Pd(311) in Electrochemical Environments. <i>Electrochemistry</i> , 2014 , 82, 351-354	1.2	6
37	Real-time observation of interfacial ions during electrocrystallization. <i>Scientific Reports</i> , 2017 , 7, 914	4.9	6
36	Elucidation of Activity Enhancement Factors for the Oxygen Reduction Reaction on Platinum and Palladium Single Crystal Electrodes. <i>Electrochemistry</i> , 2018 , 86, 205-213	1.2	6
35	Structural effects on water molecules on the low index planes of Pt modified with alkyl amines and the correlation with the activity of the oxygen reduction reaction. <i>Electrochemistry Communications</i> , 2019 , 106, 106536	5.1	5
34	Anisotropic Growth of Palladium Induced by an n-Alkane Template on Au(111). <i>Journal of Physical Chemistry C</i> , 2016 , 120, 5495-5502	3.8	5
33	Structural Effects on Methanol Oxidation on Single Crystal Electrodes of Palladium. <i>Electrochemistry</i> , 2017 , 85, 634-636	1.2	4
32	Atomic force microscopy of the dissolution of cubic Pt nanoparticle on a carbon substrate. <i>Journal of Electroanalytical Chemistry</i> , 2012 , 667, 7-10	4.1	4
31	Disordered structure of Pt(111)-p(2 × 2) induced by synchrotron X-ray beam irradiation. <i>Surface Science</i> , 2004 , 563, 199-205	1.8	4

30	Effect of Hydrophobic Cations on the Inhibitors for the Oxygen Reduction Reaction on Anions and Ionomers Adsorbed on Single-Crystal Pt Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 15866-15871	9.5	4
29	Structural Effects on the Incident Photon-to-Current Conversion Efficiency of Zn Porphyrin Dyes on the Low-Index Planes of TiO. <i>ACS Omega</i> , 2017 , 2, 128-135	3.9	3
28	Potential Dependence of the Buckling Structure of the Interfacial Water Bilayer on a Graphene Electrode. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 7795-7800	3.8	3
27	In situ infrared spectroscopy of dopamine oxidation/reduction reactions on a polycrystalline boron-doped diamond electrode. <i>Carbon</i> , 2021 , 171, 814-818	10.4	3
26	Tailoring the hydrophilic and hydrophobic reaction fields of the electrode interface on single crystal Pt electrodes for hydrogen evolution/oxidation reactions. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 28078-28086	6.7	3
25	Separation of C K-NEXAFS spectra for layer-by-layer analysis of carbon-based thin films: An n-alkane monolayer adsorbed on a monolayer graphene substrate grown on a Pt(1 1 1) surface. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2013 , 189, 27-31	1.7	2
24	Activity for the ORR on Pt-Pd-Co ternary alloy electrodes is markedly affected by surface structure and composition. <i>Electrochemistry Communications</i> , 2021 , 125, 107007	5.1	2
23	Structural effects on voltammograms of the high index planes of Pd in alkaline solution. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 880, 114925	4.1	2
22	The Oxygen Reduction Reaction on Pt Single Crystal Electrodes Modified with Aromatic Organic Molecules. <i>Electrochemistry</i> , 2018 , 86, 214-216	1.2	2
21	Effects of the Alkane on the Oxygen Reduction Reaction on Well-Defined Pt Surfaces. <i>Electrochemistry</i> , 2020 , 88, 265-267	1.2	1
20	Structural Dynamics of Adsorption Equilibrium for Iodine Adsorbed on Au(111). <i>Journal of Physical Chemistry C</i> , 2020 , 124, 17711-17716	3.8	1
19	n-Alkane Monolayer on a Au(111) Template for Metal Growth. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015 , 13, 209-212	0.7	1
18	Structural and Electrochemical Characterization of Ag Cubic-particles on HOPG. <i>Electrochemistry</i> , 2008 , 76, 868-870	1.2	1
17	Effects of Surface Structures and Hydrophobic Species on the Oxygen Reduction Reaction Activity of Pt ₃ Fe Single-Crystal Electrodes. <i>Electrocatalysis</i> ,	2.7	1
16	Structural effects of the oxygen reduction reaction on the high index planes of Pt ₃ Fe. <i>Electrochemistry Communications</i> , 2022 , 136, 107235	5.1	1
15	The surface structure of reconstructed Pt(211)-(2 x 1) determined using surface x-ray diffraction. <i>Transactions of the Materials Research Society of Japan</i> , 2008 , 33, 633-636	0.2	1
14	Nanostructural Characterization of Surfaces, Interfaces, and Thinfilms using X-ray Reciprocal-Lattice Space Imaging. <i>Nihon Kessho Gakkaishi</i> , 2007 , 49, 292-299	0	1
13	Cation Effects on ORR Activity on Low-index Planes of Pd in Alkaline Solution. <i>Electrochemistry</i> , 2021 , 89, 145-147	1.2	1

12	Thermal dehydrogenation of n-alkane on Au(111) and Pt(111) surface. <i>Surface Science</i> , 2019 , 681, 32-37	1.8	1
11	Enhancement of the Activity for the Oxygen Reduction Reaction on Well-defined Single Crystal Electrodes of Pt by Hydrophobic Species. <i>Chemistry Letters</i> , 2021 , 50, 72-79	1.7	1
10	Structural Effects on the Activity for the Oxygen Reduction Reaction on the High-Index Planes of Palladium in Alkali Solution. <i>Electrocatalysis</i> , 1	2.7	1
9	Electrical Double Layer on the Pt(111) Electrode Modeled under Ultrahigh Vacuum Conditions. <i>Journal of Physical Chemistry C</i> , 2022 , 126, 4726-4732	3.8	1
8	The Oxygen Reduction Reaction on Nb-doped Titanium Dioxide Single Crystal Electrodes. <i>Electrochemistry</i> , 2021 , 89, 1-3	1.2	0
7	Cyclic Voltammetry and in situ Infrared Reflection Absorption Spectroscopy on Kinetic Effect of Physisorbed Dioctadecylsulfide on a Cu-UPD Process on Au(111) Electrode Surface. <i>E-Journal of Surface Science and Nanotechnology</i> , 2018 , 16, 60-65	0.7	
6	Buried Interface between N-alkane Thin Film and Monolayer Graphene Studied by Depth-Dependent C K-NEXAFS. <i>Journal of Physics: Conference Series</i> , 2014 , 502, 012037	0.3	
5	Cyclic voltammetry and near edge X-ray absorption fine structure spectroscopy at the Ag L3-edge on electrochemical halogenation of Ag layers on Au(111). <i>Surface Science</i> , 2011 , 605, 958-962	1.8	
4	Enhancement of Toluene Formation by Water during Electrolysis of Chlorobenzene at Pt Electrode in Acetonitrile. <i>Electrochemistry</i> , 2007 , 75, 715-718	1.2	
3	Experimental Simulation of Electric Double Layer. <i>Hyomen Kagaku</i> , 2003 , 24, 764-770		
2	Computational Fluid Dynamic Modeling of Dolphin Swimming and Analysis of Thrust-Generating Mechanism with Oscillating Tail Fin and Body. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , 2017 , 2017.29, 2F35	0	
1	J0220302 Computational Fluid Dynamic Analysis of Dolphin Swimming Using a Three-dimensional Real-shape Model. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2014 , 2014, _J0220302--_J0220302-		