

Kenta Motobayashi

List of Publications by Year in descending order

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38
papers

1,645
citations

516215

16
h-index

377514

34
g-index

39
all docs

39
docs citations

39
times ranked

2366
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of ionomer and ionic liquid on model Pt catalysts for polymer electrolyte fuel cells. <i>Electrochemical Science Advances</i> , 2023, 3, .	1.2	8
2	Competing characters of Li ⁺ ⋯Glyme complex in a solvate ionic liquid: High stability in the bulk and rapid desolvation on an electrode surface. <i>Electrochemical Science Advances</i> , 2022, 2, e2100150.	1.2	2
3	Surface-Enhanced Electronic Raman Scattering at Various Metal Surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	0.7	7
4	<i>In situ</i> mass analysis of surface reactions using surface-enhanced Raman spectroscopy covering a wide range of frequencies. <i>Catalysis Science and Technology</i> , 2022, 12, 2670-2676.	2.1	5
5	Long-range surface plasmon enhanced Raman spectroscopy at highly damping platinum electrodes. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 420-430.	1.2	3
6	A rotating disk electrode study on catalytic activity of iron(II) phthalocyanine-modified electrodes for oxygen reduction in acidic media. <i>Journal of Solid State Electrochemistry</i> , 2021, 25, 141-147.	1.2	4
7	A single spectroscopic probe for <i>in situ</i> analysis of electronic and vibrational information at both sides of electrode/electrolyte interfaces using surface-enhanced Raman scattering. <i>Journal of Chemical Physics</i> , 2021, 155, 204702.	1.2	6
8	Origin of a High Overpotential of Co Electrodeposition in a Room-Temperature Ionic Liquid. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 8697-8702.	2.1	17
9	<i>In situ</i> surface-enhanced electronic and vibrational Raman scattering spectroscopy at metal/molecule interfaces. <i>Nanoscale</i> , 2020, 12, 22988-22994.	2.8	15
10	Atomistic Control of Metal-Molecule Junctions for Efficient Photo-Induced Uphill Charge Transfer. <i>Journal of Physical Chemistry C</i> , 2020, 124, 18173-18180.	1.5	10
11	Electronic and vibrational surface-enhanced Raman scattering: from atomically defined Au(111) and (100) to roughened Au. <i>Chemical Science</i> , 2020, 11, 9807-9817.	3.7	23
12	Vibrational spectroscopic investigations on ionic liquid/electrode interfaces. <i>Denki Kagaku</i> , 2020, 88, 102-108.	0.0	0
13	Potential-induced interfacial restructuring of a pyrrolidinium-based ionic liquid on an Au electrode: Effect of polarization of constituent ions. <i>Electrochemistry Communications</i> , 2019, 100, 117-120.	2.3	15
14	Low-frequency surface-enhanced Raman scattering spectroscopy at metal electrode surfaces. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 143-148.	2.5	11
15	Anharmonicity in a double hydrogen transfer reaction studied in a single porphycene molecule on a Cu(110) surface. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 12112-12119.	1.3	3
16	Effect of the Side-Chain Structure of Perfluoro-Sulfonic Acid Ionomers on the Oxygen Reduction Reaction on the Surface of Pt. <i>ACS Catalysis</i> , 2018, 8, 694-700.	5.5	140
17	Recent advances in spectroscopic investigations on ionic liquid/electrode interfaces. <i>Current Opinion in Electrochemistry</i> , 2018, 8, 147-155.	2.5	16
18	Potential-induced restructuring dynamics of ionic liquids on a gold electrode: Steric effect of constituent ions studied by surface-enhanced infrared absorption spectroscopy. <i>Journal of Electroanalytical Chemistry</i> , 2017, 800, 126-133.	1.9	36

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19	Interfacial Structure at the Quaternary Ammonium-Based Ionic Liquids Gold Electrode Interface Probed by Surface-Enhanced Infrared Absorption Spectroscopy: Anion Dependence of the Cationic Behavior. <i>Journal of Physical Chemistry C</i> , 2017, 121, 1658-1666.	1.5	41
20	Electrochemical THz-SERS Observation of Thiol Monolayers on Au(111) and (100) Using Nanoparticle-assisted Gap-Mode Plasmon Excitation. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 4236-4240.	2.1	29
21	Potential-dependent condensation of Water at the Interface between ionic liquid [BMIM][TFSA] and an Au electrode. <i>Electrochemistry Communications</i> , 2016, 65, 14-17.	2.3	62
22	Inhibited proton transfer enhances Au-catalyzed CO ₂ -to-fuels selectivity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4585-93.	3.3	310
23	Tracking a Common Surface-Bound Intermediate during CO ₂ -to-Fuels Catalysis. <i>ACS Central Science</i> , 2016, 2, 522-528.	5.3	227
24	Speciation of Adsorbed Phosphate at Gold Electrodes: A Combined Surface-Enhanced Infrared Absorption Spectroscopy and DFT Study. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3097-3102.	2.1	63
25	Confinement of the Pt(111) Surface State in Graphene Nanoislands. <i>Journal of Physical Chemistry C</i> , 2016, 120, 345-349.	1.5	9
26	The role of thermal excitation in the tunneling-electron-induced reaction: Dissociation of dimethyl disulfide on Cu(111). <i>Surface Science</i> , 2016, 643, 18-22.	0.8	9
27	Action spectroscopy for single-molecule reactions – Experiments and theory. <i>Progress in Surface Science</i> , 2015, 90, 85-143.	3.8	93
28	Effect of Hydrogen on the Orientation of Cinchonidine Adsorbed on Platinum: An ATR-SEIRAS Study. <i>Chemistry Letters</i> , 2015, 44, 770-772.	0.7	18
29	Adsorption of Water Dimer on Platinum(111): Identification of the $\delta^{\sim}\text{OH}\cdots\text{Pt}$ Hydrogen Bond. <i>ACS Nano</i> , 2014, 8, 11583-11590.	7.3	34
30	Dissociation pathways of a single dimethyl disulfide on Cu(111): Reaction induced by simultaneous excitation of two vibrational modes. <i>Journal of Chemical Physics</i> , 2014, 140, 194705.	1.2	15
31	Single Molecule Vibrational Spectroscopy using STM. <i>Hyomen Kagaku</i> , 2014, 35, 565-570.	0.0	0
32	Hysteresis of Potential-Dependent Changes in Ion Density and Structure of an Ionic Liquid on a Gold Electrode: In Situ Observation by Surface-Enhanced Infrared Absorption Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013, 4, 3110-3114.	2.1	121
33	Spectral Fitting of Action Spectra for Motions and Reactions of Single Molecules on Metal Surfaces. <i>Bulletin of the Chemical Society of Japan</i> , 2013, 86, 75-79.	2.0	6
34	Action Spectroscopy of Molecules Adsorbed on Metal Surfaces using STM: Insights Obtained from Quantitative Analysis. <i>Hyomen Kagaku</i> , 2011, 32, 597-602.	0.0	0
35	State-selective dissociation of a single water molecule on an ultrathin MgO film. <i>Nature Materials</i> , 2010, 9, 442-447.	13.3	171
36	Insight into Action Spectroscopy for Single Molecule Motion and Reactions through Inelastic Electron Tunneling. <i>Physical Review Letters</i> , 2010, 105, 076101.	2.9	57

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37	Vibrational study of water dimers on Pt(111) using a scanning tunneling microscope. Surface Science, 2008, 602, 3136-3139.	0.8	57
38	Surface Dynamics of Water Monomers and Dimers on Pt(111) Surface. Hyomen Kagaku, 2007, 28, 354-360.	0.0	2