

Katsuyoshi Ikeda

List of Publications by Year in descending order

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76
papers

1,692
citations

257101

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78
all docs

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docs citations

78
times ranked

1905
citing authors

#	ARTICLE	IF	CITATIONS
1	Single Molecule Dynamics at a Mechanically Controllable Break Junction in Solution at Room Temperature. <i>Journal of the American Chemical Society</i> , 2013, 135, 1009-1014.	6.6	138
2	Photocatalytic Reactions Involving Radical Chain Reactions Using Microelectrodes. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2617-2620.	1.2	117
3	Crystal Face Dependent Chemical Effects in Surface-Enhanced Raman Scattering at Atomically Defined Gold Facets. <i>Nano Letters</i> , 2011, 11, 1716-1722.	4.5	98
4	Raman scattering of aryl isocyanide monolayers on atomically flat Au(1 1 1) single crystal surfaces enhanced by gap-mode plasmon excitation. <i>Chemical Physics Letters</i> , 2008, 460, 205-208.	1.2	91
5	Site-Selection in Single-Molecule Junction for Highly Reproducible Molecular Electronics. <i>Journal of the American Chemical Society</i> , 2016, 138, 1294-1300.	6.6	88
6	Effects of Atomic Geometry and Electronic Structure of Platinum Surfaces on Molecular Adsorbates Studied by Gap-Mode SERS. <i>Journal of the American Chemical Society</i> , 2014, 136, 10299-10307.	6.6	80
7	Plasmonic Enhancement of Raman Scattering on Non-SERS-Active Platinum Substrates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11816-11821.	1.5	72
8	Enhancement of SERS Background through Charge Transfer Resonances on Single Crystal Gold Surfaces of Various Orientations. <i>Journal of the American Chemical Society</i> , 2013, 135, 17387-17392.	6.6	64
9	Plasmonic Enhancement of Photoinduced Uphill Electron Transfer in a Molecular Monolayer System. <i>Angewandte Chemie - International Edition</i> , 2011, 50, 1280-1284.	7.2	52
10	Microscopic Observation of TiO ₂ Photocatalysis Using Scanning Electrochemical Microscopy. <i>Journal of Physical Chemistry B</i> , 1999, 103, 3213-3217.	1.2	42
11	Second harmonic generation from ternary metal Prussian blue analog films in paramagnetic and ferromagnetic regions. <i>Chemical Physics Letters</i> , 2001, 349, 371-375.	1.2	39
12	Hyper-Raman scattering enhanced by anisotropic dimer plasmons on artificial nanostructures. <i>Journal of Chemical Physics</i> , 2007, 127, 111103.	1.2	38
13	Substrate dependent structure of adsorbed aryl isocyanides studied by sum frequency generation (SFG) spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 3156.	1.3	35
14	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.	1.3	33
15	Identifying the molecular adsorption site of a single molecule junction through combined Raman and conductance studies. <i>Chemical Science</i> , 2019, 10, 6261-6269.	3.7	32
16	Gap-mode SERS studies of azobenzene-containing self-assembled monolayers on Au(111). <i>Journal of Colloid and Interface Science</i> , 2010, 341, 366-375.	5.0	31
17	Magnetization-induced second-harmonic generation in electrochemically synthesized magnetic films of ternary metal Prussian blue analogs. <i>Journal of Applied Physics</i> , 2003, 93, 1371-1375.	1.1	30
18	Surface-enhanced Raman scattering at well-defined single crystalline faces of platinum-group metals induced by gap-mode plasmon excitation. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 221, 175-180.	2.0	29

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19	Structural Tuning of Optical Antenna Properties for Plasmonic Enhancement of Photocurrent Generation on a Molecular Monolayer System. <i>Journal of Physical Chemistry C</i> , 2012, 116, 20806-20811.	1.5	29
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	Resonance Hyper-Raman Scattering of Fullerene C60 Microcrystals. <i>Journal of Physical Chemistry A</i> , 2008, 112, 790-793.	1.1	28
22	Plasmonically Nanoconfined Light Probing Invisible Phonon Modes in Defect-Free Graphene. <i>Journal of the American Chemical Society</i> , 2013, 135, 11489-11492.	6.6	27
23	Coherent Phonon Dynamics in Single-Walled Carbon Nanotubes Studied by Time-Frequency Two-Dimensional Coherent Anti-Stokes Raman Scattering Spectroscopy. <i>Nano Letters</i> , 2009, 9, 1378-1381.	4.5	25
24	Vibrational Spectroscopic Observation of Atomic-Scale Local Surface Sites Using Site-Selective Signal Enhancement. <i>Nano Letters</i> , 2015, 15, 7982-7986.	4.5	25
25	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
26	Nanoscale Optical and Mechanical Manipulation of Molecular Alignment in Metal-Molecule-Metal Structures. <i>Journal of Physical Chemistry C</i> , 2014, 118, 21550-21557.	1.5	22
27	Comparative studies on the photocatalytic decomposition of ethanol and acetaldehyde in water containing dissolved oxygen using a microelectrode technique. <i>Journal of Electroanalytical Chemistry</i> , 1997, 437, 241-244.	1.9	21
28	Focused Excitation of Surface Plasmon Polaritons Based on Gap-Mode in Tip-Enhanced Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 7995.	0.8	21
29	Examination of the electroactive composites containing cobalt nanoclusters and nitrogen-doped nanostructured carbon as electrocatalysts for oxygen reduction reaction. <i>Journal of Power Sources</i> , 2012, 220, 20-30.	4.0	21
30	Magnetization-induced second- and third-harmonic generation in transparent magnetic films. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2005, 22, 196.	0.9	20
31	Selective dehybridization of DNA-Au nanoconjugates using laser irradiation. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 15995.	1.3	19
32	Second Harmonic Generation in Electrochemically Synthesized Films of Ternary Metal Prussian Blue Analogs. <i>Journal of the Electrochemical Society</i> , 2002, 149, E445.	1.3	17
33	Photo-induced chirality switching in a cobaloxime complex crystal. <i>Journal of Chemical Physics</i> , 2005, 122, 141103.	1.2	17
34	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
35	Resonant hyper-Raman scattering from carbon nanotubes. <i>Chemical Physics Letters</i> , 2007, 438, 109-112.	1.2	16
36	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

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37	<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
38	Hydrogen-Induced Tuning of Plasmon Resonance in Palladium-Silver Layered Nanodimer Arrays. <i>ACS Photonics</i> , 2015, 2, 66-72.	3.2	13
39	Electrical Matching at Metal/Molecule Contacts for Efficient Heterogeneous Charge Transfer. <i>ACS Nano</i> , 2018, 12, 1228-1235.	7.3	13
40	Effect of surface treatment with different sulfide solutions on the ultrafast dynamics of photogenerated carriers in GaAs(100). <i>Applied Surface Science</i> , 2013, 267, 185-188.	3.1	12
41	Visualization of subnanometric phonon modes in a plasmonic nano-cavity via ambient tip-enhanced Raman spectroscopy. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	12
42	Kinetic Behavior of Catalytic Active Sites Connected with a Conducting Surface through Various Electronic Coupling. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2159-2165.	1.5	11
43	Low-frequency surface-enhanced Raman scattering spectroscopy at metal electrode surfaces. <i>Current Opinion in Electrochemistry</i> , 2019, 17, 143-148.	2.5	11
44	Effect of Coating by Perfluorosulfonated Ionomer Film on Electrochemical Behaviors of Pt(111) Electrode in Acidic Solutions. <i>Chemistry Letters</i> , 2010, 39, 286-287.	0.7	10
45	Electrochemical SERS observation of molecular adsorbates on Ru/Pt-modified Au(111) surfaces using sphere-plane type gap-mode plasmon excitation. <i>Journal of Electroanalytical Chemistry</i> , 2017, 800, 151-155.	1.9	10
46	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
47	Microscopic Observation of Photocatalytic Reaction Using Microelectrode: Spatial Resolution for Reaction Products Distribution. <i>Chemistry Letters</i> , 1995, 24, 979-980.	0.7	7
48	Surface-Enhanced Electronic Raman Scattering at Various Metal Surfaces. <i>Physica Status Solidi (B): Basic Research</i> , 2022, 259, .	0.7	7
49	Optical Antenna for Photofunctional Molecular Systems. <i>Chemistry - A European Journal</i> , 2012, 18, 1564-1570.	1.7	6
50	Nanostructuring of Molecular Assembly Using Electrochemical Reductive Desorption of Locally Stabilized Thiol Monolayers. <i>Journal of Physical Chemistry C</i> , 2016, 120, 15823-15829.	1.5	6
51	Electrochemical and in situ SERS study of the role of an inhibiting additive in selective electrodeposition of copper in sulfuric acid. <i>Electrochemistry Communications</i> , 2019, 98, 19-22.	2.3	6
52	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
53	Study of chirality and photo-induced chirality in cobaloxime complex crystals. <i>Chemical Physics Letters</i> , 2006, 422, 267-270.	1.2	5
54	Surface optimization of optical antennas for plasmonic enhancement of photoelectrochemical reactions. <i>Electrochimica Acta</i> , 2013, 112, 864-868.	2.6	5

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55	<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
56	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
57	Photoelectrochemical Behavior of Homo- and Heterodimers of Metalloporphyrins. <i>Chemistry Letters</i> , 2016, 45, 125-127.	0.7	3
58	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
59	Electrochemical detection of hydrogen peroxide using a gold nanoparticle-modified carbon fiber electrode. <i>Electrochemistry</i> , 2003, 71, 184-187.		
60	Competing characters of Li ⁺ 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
61	Spectroscopy and Photoelectrochemistry of Organic Monolayers within Sphere-Plane Gold Nano-Gaps. <i>Electrochemistry</i> , 2011, 79, 768-772.	0.6	1
62	Nonlinear Raman Scattering Spectroscopy for Carbon Nanomaterials. , 2012, , 99-118.		1
63	Plasmon Enhanced Raman Scattering from Molecular Adsorbates on Atomically Defined Planar Metal Surfaces. <i>ACS Symposium Series</i> , 2016, , 41-55.	0.5	0
64	Surface Enhanced Raman Scattering. , 2018, , 661-665.		0
65	Plasmon-Assisted Spectroscopy and Photochemistry at Well-Defined Metal-molecular Interfaces. <i>Molecular Science</i> , 2011, 5, A0040.	0.2	0
66	Electrochemical detection of hydrogen peroxide using a gold nanoparticle-modified carbon fiber electrode. <i>Electrochemistry</i> , 2015, 83, 112-115.		
67	In-Situ THz SERS Observation of Electrochemical Processes. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
68	(Invited) Plasmonic Enhancement of Single- and Multi-Electron Transfer Reactions on Modified Electrodes. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	0
69	Gap-Mode Raman Spectroscopy. , 2018, , 205-209.		0
70	THz SERS Observation of Benzenethiol Monolayers on Electrode Surfaces. <i>ECS Meeting Abstracts</i> , 2018, , .	0.0	0
71	In-Situ Seiras Observation of Co Electrodeposition in an Ionic Liquid: Correlation between the Reaction and Interfacial Restructuring. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0
72	In-Situ Ultra-Low Frequency SERS Observation at Electrified Interfaces. <i>ECS Meeting Abstracts</i> , 2019, , .	0.0	0

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73	Direct Measurement of Electron Transfer Rates between Iron(II) Phthalocyanine and Gold with Different Interface Structures. ECS Meeting Abstracts, 2020, MA2020-02, 3658-3658.	0.0	0
74	Oxygen Reduction Reaction Activity of Iron (II) Phthalocyanine Monolayers in Acidic Media Studied Using a Rotating Disk Electrode Technique. ECS Meeting Abstracts, 2020, MA2020-02, 3659-3659.	0.0	0
75	Long-Range Surface Plasmon Enhanced Raman Spectroscopy at Catalytic Platinum Electrodes. ECS Meeting Abstracts, 2020, MA2020-02, 3041-3041.	0.0	0
76	In-Situ Electronic and Vibrational SERS Observation of Gold Electrodes Under Various pH Conditions. ECS Meeting Abstracts, 2020, MA2020-02, 3660-3660.	0.0	0