

Hiroki Hotta

List of Publications by Year in descending order

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46
papers

1,282
citations

393982

19
h-index

344852

36
g-index

46
all docs

46
docs citations

46
times ranked

1443
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher radical scavenging activities of polyphenolic antioxidants can be ascribed to chemical reactions following their oxidation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2002, 1572, 123-132.	1.1	221
2	Unusually large numbers of electrons for the oxidation of polyphenolic antioxidants. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2001, 1526, 159-167.	1.1	137
3	Mechanistic Study of the Oxidation of Caffeic Acid by Digital Simulation of Cyclic Voltammograms. <i>Analytical Biochemistry</i> , 2002, 303, 66-72.	1.1	90
4	Product analysis of caffeic acid oxidation by on-line electrochemistry/electrospray ionization mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2004, 15, 1228-1236.	1.2	76
5	Synthesis, Structures, and Properties of meso-Phosphorylporphyrins: Self-Organization through Pâ€“Oxoâ€“Zinc Coordination. <i>Chemistry - A European Journal</i> , 2007, 13, 891-901.	1.7	71
6	Clarification of the Mechanism of Interfacial Electron-Transfer Reaction between Ferrocene and Hexacyanoferrate(III) by Digital Simulation of Cyclic Voltammograms. <i>Journal of Physical Chemistry B</i> , 2003, 107, 9717-9725.	1.2	66
7	Hostâ€“Guest Interactions in the Supramolecular Incorporation of Fullerenes into Tailored Holes on Porphyrin-Modified Gold Nanoparticles in Molecular Photovoltaics. <i>Chemistry - A European Journal</i> , 2005, 11, 7265-7275.	1.7	66
8	Electron-conductor separating oilâ€“water (ECSOW) system: a new strategy for characterizing electron-transfer processes at the oil/water interface. <i>Electrochemistry Communications</i> , 2002, 4, 472-477.	2.3	56
9	Complete Electrolysis Using a Microflow Cell with an Oil/Water Interface. <i>Analytical Chemistry</i> , 2002, 74, 1177-1181.	3.2	46
10	Liquid Core Waveguide Spectrophotometry for the Sensitive Determination of Nitrite in River Water Samples. <i>Analytical Sciences</i> , 2006, 22, 1017-1019.	0.8	35
11	Hydrogen Bonding Effects on the Surface Structure and Photoelectrochemical Properties of Nanostructured SnO ₂ Electrodes Modified with Porphyrin and Fullerene Composites. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18465-18474.	1.2	34
12	Effects of Fullerene Substituents on Structure and Photoelectrochemical Properties of Fullerene Nanoclusters Electrophoretically Deposited on Nanostructured SnO ₂ Electrodes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5700-5706.	1.2	24
13	Structure and photoelectrochemical properties of nanostructured SnO ₂ electrodes deposited electrophoretically with the composite clusters of porphyrin-modified gold nanoparticle with a long spacer and fullerene. <i>Tetrahedron</i> , 2006, 62, 1955-1966.	1.0	24
14	Correlation of redox potentials and inhibitory effects on Epsteinâ€“Barr virus activation of naphthoquinones. <i>Cancer Letters</i> , 2003, 201, 25-30.	3.2	23
15	Slab Optical Waveguide High-Acidity Sensor Based on an Absorbance Change of Protoporphyrin IX. <i>Analytical Chemistry</i> , 2006, 78, 7511-7516.	3.2	23
16	Performance Evaluation of the Four-Electrode Type Measurement System for Ion-Transfer Voltammetry. <i>Electrochemistry</i> , 2002, 70, 329-333.	0.6	22
17	Mechanistic study of the oxidation of l-ascorbic acid by chloranil at the nitrobenzeneâ€“water interface. <i>Journal of Electroanalytical Chemistry</i> , 2000, 490, 85-92.	1.9	20
18	Correlation with Redox Potentials and Inhibitory Effects on Epstein-Barr Virus Activation of Azaanthraquinones.. <i>Chemical and Pharmaceutical Bulletin</i> , 2001, 49, 1214-1216.	0.6	19

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19	Hydrogen bonding effect on photocurrent generation in porphyrin–fullerene photoelectrochemical devices. <i>Chemical Communications</i> , 2004, , 2066-2067.	2.2	19
20	Correlation of redox potentials and inhibitory effects on Epstein-Barr virus activation of 2-azaanthraquinones. <i>Cancer Letters</i> , 2004, 212, 1-6.	3.2	18
21	Quantification of Trace Elements in Natural Samples by Electrospray Ionization Mass Spectrometry with a Size-Exclusion Column Based on the Formation of Metal–Aminopolycarboxylate Complexes. <i>Analytical Chemistry</i> , 2009, 81, 6357-6363.	3.2	18
22	Electrochemical control of glucose oxidase-catalyzed redox reaction using an oil/water interface. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3563.	1.3	17
23	A True Electron-Transfer Reaction between 5,10,15,20-Tetraphenylporphyrinato Cadmium(II) and the Hexacyanoferrate Couple at the Nitrobenzene/Water Interface. <i>Analytical Sciences</i> , 2004, 20, 1567-1573.	0.8	14
24	Determination of chromium(III), chromium(VI) and total chromium in chromate and trivalent chromium conversion coatings by electrospray ionization mass spectrometry. <i>Talanta</i> , 2012, 88, 533-536.	2.9	14
25	Diffusion-controlled rate constant of electron transfer at the oil water interface. <i>Journal of Electroanalytical Chemistry</i> , 2004, 571, 201-206.	1.9	11
26	Characteristics of a Liquid/Liquid Optical Waveguide Using Sheath Flow and Its Application to Detect Molecules at a Liquid/Liquid Interface. <i>Analytical Sciences</i> , 2005, 21, 1269-1274.	0.8	11
27	Identification of Aluminum Species in an Aluminum-accumulating Plant, <i>Hydrangea (Hydrangea)</i> Tj ETQq1 1 0.784314 rgBT /Overlock 0.8 11	0.8	11
28	Ion transfer of heteropolytungstate anions at the nitrobenzene–water interface and its relevance to their antiviral activities. <i>Journal of Electroanalytical Chemistry</i> , 2001, 505, 133-141.	1.9	10
29	Electrospray Ionization Mass Spectrometry for the Quantification of Inorganic Cations and Anions. <i>Analytical Sciences</i> , 2015, 31, 7-14.	0.8	10
30	Photoinduced Electron Transfer of 5,10,15,20-Tetraphenylporphyrinato Zinc(II) at the Polarized Water/1,2-Dichloroethane Interface. <i>Analytical Sciences</i> , 2004, 20, 1575-1579.	0.8	9
31	Temperature Effect on the Selective Hydration of Sodium Ion in Nitrobenzene. <i>Analytical Sciences</i> , 2003, 19, 1375-1380.	0.8	8
32	In situ monitoring of the H ⁺ concentration change near an electrode surface through electrolysis using slab optical waveguide pH sensor. <i>Electrochemistry Communications</i> , 2008, 10, 1351-1354.	2.3	8
33	Suppression Mechanism of the Photodegradation of J-Aggregate Thin Films of Cyanine Dyes by Coating with Polysilanes. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6902-6909.	1.5	8
34	New Determination Methods of Halides and Cyanide Ions by Electrospray Ionization Mass Spectrometry Based on Ternary Complex Formation. <i>Analytical Sciences</i> , 2011, 27, 953-956.	0.8	7
35	Mechanistic study of the electron transfer of L-ascorbic acid at an oil/water interface by a digital simulation of cyclic voltammograms. <i>Bunseki Kagaku</i> , 2003, 52, 665-671.	0.1	6
36	A novel method for determination of inorganic oxyanions by electrospray ionization mass spectrometry using dehydration reactions. <i>Journal of Mass Spectrometry</i> , 2016, 51, 123-131.	0.7	6

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37	Capillary zone electrophoresis determination of fluoride in seawater using transient isotachopheresis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 1825-1831.	1.9	6
38	Determination of divalent trace metals in a soil sample using electrospray ionization mass spectrometry. <i>Analytical Methods</i> , 2012, 4, 1160.	1.3	5
39	Development of Tetrahydrofuran/Water Optical Waveguide and Its Application to the Observation of Extraction Behavior of 1-Anilino-8-naphthalene Sulfonate at the Tetrahydrofuran/Water Interface. <i>Analytical Sciences</i> , 2017, 33, 449-455.	0.8	5
40	Characterization of Liquid-Core/Liquid-Cladding Optical Waveguides of a Sodium Chloride Solution/Water System by Computational Fluid Dynamics. <i>Applied Spectroscopy</i> , 2013, 67, 1479-1484.	1.2	4
41	Electron Transfer at Liquid/Liquid Interfaces. , 2005, , 171-188.		2
42	Development of a Linear Dichroism Measurement System Using Slab Optical Waveguides and the <i>in situ</i> Observation of Adsorption Process of Dye Molecules onto Glass Surface. <i>Bunseki Kagaku</i> , 2012, 61, 429-433.	0.1	1
43	Approach to elucidate the reaction mechanism of natural antioxidants using electrochemical methods. <i>Review of Polarography</i> , 2021, 67, 11-18.	0.0	1
44	Application of an Electrochemical Slab Optical Waveguide Technique; In Situ Monitoring of the H ⁺ Concentration Change near an Electrode Surface. <i>ECS Transactions</i> , 2009, 16, 85-90.	0.3	0
45	Direct Detection of Aqueous CO ₂ by Infrared Waveguide Spectroscopy with an Amorphous Fluoropolymer Coating Rod. <i>Analytical Sciences</i> , 2017, 33, 477-479.	0.8	0
46	Miniaturized two-dimensional gel electrophoresis of high-molecular-weight proteins using low-concentration multifilament-supporting gel for isoelectric focusing. <i>Journal of Electrophoresis</i> , 2009, 53, 57-61.	0.2	0