

# Hiroki Hotta

## List of Publications by Year in descending order

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46  
papers

1,282  
citations

394421  
19  
h-index

345221  
36  
g-index

46  
all docs

46  
docs citations

46  
times ranked

1443  
citing authors

#	ARTICLE	IF	CITATIONS
1	Approach to elucidate the reaction mechanism of natural antioxidants using electrochemical methods. Review of Polarography, 2021, 67, 11-18.	0.1	1
2	Capillary zone electrophoresis determination of fluoride in seawater using transient isotachopheresis. Analytical and Bioanalytical Chemistry, 2018, 410, 1825-1831.	3.7	6
3	Direct Detection of Aqueous CO <sub>2</sub> by Infrared Waveguide Spectroscopy with an Amorphous Fluoropolymer Coating Rod. Analytical Sciences, 2017, 33, 477-479.	1.6	0
4	Development of Tetrahydrofuran/Water Optical Waveguide and Its Application to the Observation of Extraction Behavior of l-Anilino-8-naphtalene Sulfonate at the Tetrahydrofuran/Water Interface. Analytical Sciences, 2017, 33, 449-455.	1.6	5
5	A novel method for determination of inorganic oxyanions by electrospray ionization mass spectrometry using dehydration reactions. Journal of Mass Spectrometry, 2016, 51, 123-131.	1.6	6
6	Electrospray Ionization Mass Spectrometry for the Quantification of Inorganic Cations and Anions. Analytical Sciences, 2015, 31, 7-14.	1.6	10
7	Characterization of Liquid-Core/Liquid-Cladding Optical Waveguides of a Sodium Chloride Solution/Water System by Computational Fluid Dynamics. Applied Spectroscopy, 2013, 67, 1479-1484.	2.2	4
8	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. Bunseki Kagaku, 2012, 61, 429-433.	0.2	1
9	Determination of divalent trace metals in a soil sample using electrospray ionization mass spectrometry. Analytical Methods, 2012, 4, 1160.	2.7	5
10	Determination of chromium(III), chromium(VI) and total chromium in chromate and trivalent chromium conversion coatings by electrospray ionization mass spectrometry. Talanta, 2012, 88, 533-536.	5.5	14
11	Suppression Mechanism of the Photodegradation of J-Aggregate Thin Films of Cyanine Dyes by Coating with Polysilanes. Journal of Physical Chemistry C, 2011, 115, 6902-6909.	3.1	8
12	New Determination Methods of Halides and Cyanide Ions by Electrospray Ionization Mass Spectrometry Based on Ternary Complex Formation. Analytical Sciences, 2011, 27, 953-956.	1.6	7
13	Application of an Electrochemical Slab Optical Waveguide Technique; In Situ Monitoring of the H <sup>+</sup> Concentration Change near an Electrode Surface. ECS Transactions, 2009, 16, 85-90.	0.5	0
14	Quantification of Trace Elements in Natural Samples by Electrospray Ionization Mass Spectrometry with a Size-Exclusion Column Based on the Formation of Metal <sup>2+</sup> -Aminopolycarboxylate Complexes. Analytical Chemistry, 2009, 81, 6357-6363.	6.5	18
15	Miniaturized two-dimensional gel electrophoresis of high-molecular-weight proteins using low-concentration multifilament-supporting gel for isoelectric focusing. Journal of Electrophoresis, 2009, 53, 57-61.	0.4	0
16	In situ monitoring of the H <sup>+</sup> concentration change near an electrode surface through electrolysis using slab optical waveguide pH sensor. Electrochemistry Communications, 2008, 10, 1351-1354.	4.7	8
17	Identification of Aluminum Species in an Aluminum-accumulating Plant, Hydrangea (Hydrangea) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	11
18	Synthesis, Structures, and Properties of meso-Phosphorylporphyrins: Self-Organization through P <sup>+</sup> -Oxo <sup>2-</sup> -Zinc Coordination. Chemistry - A European Journal, 2007, 13, 891-901.	3.3	71

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19	Slab Optical Waveguide High-Acidity Sensor Based on an Absorbance Change of Protoporphyrin IX. <i>Analytical Chemistry</i> , 2006, 78, 7511-7516.	6.5	23
20	Liquid Core Waveguide Spectrophotometry for the Sensitive Determination of Nitrite in River Water Samples. <i>Analytical Sciences</i> , 2006, 22, 1017-1019.	1.6	35
21	Structure and photoelectrochemical properties of nanostructured SnO <sub>2</sub> 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.	1.9	24
22	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.	1.6	11
23	Host-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.	3.3	66
24	Effects of Fullerene Substituents on Structure and Photoelectrochemical Properties of Fullerene Nanoclusters Electrophoretically Deposited on Nanostructured SnO <sub>2</sub> Electrodes. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5700-5706.	2.6	24
25	Hydrogen Bonding Effects on the Surface Structure and Photoelectrochemical Properties of Nanostructured SnO <sub>2</sub> Electrodes Modified with Porphyrin and Fullerene Composites. <i>Journal of Physical Chemistry B</i> , 2005, 109, 18465-18474.	2.6	34
26	Electron Transfer at Liquid/Liquid Interfaces. , 2005, , 171-188.		2
27	Diffusion-controlled rate constant of electron transfer at the oil   water interface. <i>Journal of Electroanalytical Chemistry</i> , 2004, 571, 201-206.	3.8	11
28	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.	2.8	76
29	Hydrogen bonding effect on photocurrent generation in porphyrin-fullerene photoelectrochemical devices. <i>Chemical Communications</i> , 2004, , 2066-2067.	4.1	19
30	Electrochemical control of glucose oxidase-catalyzed redox reaction using an oil/water interface. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 3563.	2.8	17
31	Correlation of redox potentials and inhibitory effects on Epstein-Barr virus activation of 2-azaanthraquinones. <i>Cancer Letters</i> , 2004, 212, 1-6.	7.2	18
32	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.	1.6	14
33	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.	1.6	9
34	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.	2.6	66
35	Correlation of redox potentials and inhibitory effects on Epstein-Barr virus activation of naphthoquinones. <i>Cancer Letters</i> , 2003, 201, 25-30.	7.2	23
36	Temperature Effect on the Selective Hydration of Sodium Ion in Nitrobenzene. <i>Analytical Sciences</i> , 2003, 19, 1375-1380.	1.6	8

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37	Mechanistic study of the electron transfer of L-ascorbic acid at an oil/water interface by a digital simulation of cyclic voltammograms. Bunseki Kagaku, 2003, 52, 665-671.	0.2	6
38	Complete Electrolysis Using a Microflow Cell with an Oil/Water Interface. Analytical Chemistry, 2002, 74, 1177-1181.	6.5	46
39	Higher radical scavenging activities of polyphenolic antioxidants can be ascribed to chemical reactions following their oxidation. Biochimica Et Biophysica Acta - General Subjects, 2002, 1572, 123-132.	2.4	221
40	Mechanistic Study of the Oxidation of Caffeic Acid by Digital Simulation of Cyclic Voltammograms. Analytical Biochemistry, 2002, 303, 66-72.	2.4	90
41	Electron-conductor separating oil/water (ECSOW) system: a new strategy for characterizing electron-transfer processes at the oil/water interface. Electrochemistry Communications, 2002, 4, 472-477.	4.7	56
42	Performance Evaluation of the Four-Electrode Type Measurement System for Ion-Transfer Voltammetry. Electrochemistry, 2002, 70, 329-333.	1.4	22
43	Unusually large numbers of electrons for the oxidation of polyphenolic antioxidants. Biochimica Et Biophysica Acta - General Subjects, 2001, 1526, 159-167.	2.4	137
44	Correlation with Redox Potentials and Inhibitory Effects on Epstein-Barr Virus Activation of Azaanthraquinones.. Chemical and Pharmaceutical Bulletin, 2001, 49, 1214-1216.	1.3	19
45	Ion transfer of heteropolytungstate anions at the nitrobenzene/water interface and its relevance to their antiviral activities. Journal of Electroanalytical Chemistry, 2001, 505, 133-141.	3.8	10
46	Mechanistic study of the oxidation of l-ascorbic acid by chloranil at the nitrobenzene/water interface. Journal of Electroanalytical Chemistry, 2000, 490, 85-92.	3.8	20