

Akira Kotani

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2448611/publications.pdf>

Version: 2024-02-01

98
papers

1,647
citations

331670

21
h-index

330143

37
g-index

102
all docs

102
docs citations

102
times ranked

1938
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of the Antioxidant Activities of Flavonoids from Their Oxidation Potentials. <i>Analytical Sciences</i> , 2001, 17, 599-604.	1.6	244
2	Effects of Continuous Ingestion of Green Tea or Grape Seed Extracts on the Pharmacokinetics of Midazolam. <i>Drug Metabolism and Pharmacokinetics</i> , 2004, 19, 280-289.	2.2	68
3	Determination of Short-chain Fatty Acids in Rat and Human Feces by High-Performance Liquid Chromatography with Electrochemical Detection. <i>Analytical Sciences</i> , 2009, 25, 1007-1011.	1.6	66
4	Relationship of Electrochemical Oxidation of Catechins on Their Antioxidant Activity in Microsomal Lipid Peroxidation.. <i>Chemical and Pharmaceutical Bulletin</i> , 2001, 49, 747-751.	1.3	62
5	Determination of catechins in human plasma after commercial canned green tea ingestion by high-performance liquid chromatography with electrochemical detection using a microbore column. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2003, 788, 269-275.	2.3	62
6	HPLC with electrochemical detection to examine the pharmacokinetics of baicalin and baicalein in rat plasma after oral administration of a Kampo medicine. <i>Analytical Biochemistry</i> , 2006, 350, 99-104.	2.4	57
7	Determination of Rutin, Catechin, Epicatechin, and Epicatechin Gallate in Buckwheat <i>Fagopyrum esculentum</i> Moench by Micro-High-Performance Liquid Chromatography with Electrochemical Detection. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 1139-1143.	5.2	52
8	An Effective Method to Introduce Carbon Acid Functionality: 2,2-Bis(trifluoromethanesulfonyl)ethylation Reaction of Arenes. <i>Chemistry - A European Journal</i> , 2011, 17, 11747-11751.	3.3	49
9	Determination of total cholesterol in serum by high-performance liquid chromatography with electrochemical detection. <i>Journal of Chromatography A</i> , 2007, 1166, 135-141.	3.7	43
10	Determination of hesperidin in <i>Pericarpium Citri Reticulatae</i> by semi-micro HPLC with electrochemical detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 41, 1401-1405.	2.8	41
11	Determination of Plasma Free Fatty Acids by High-Performance Liquid Chromatography with Electrochemical Detection. <i>Analytical Biochemistry</i> , 2000, 284, 65-69.	2.4	40
12	Determination of quercetin in human plasma after ingestion of commercial canned green tea by semi-micro HPLC with electrochemical detection. <i>Biomedical Chromatography</i> , 2004, 18, 662-666.	1.7	40
13	Attomole Catechins Determination by Capillary Liquid Chromatography with Electrochemical Detection. <i>Analytical Sciences</i> , 2007, 23, 157-163.	1.6	39
14	Synthesis, Characterization, and Applications of Zwitterions Containing a Carbanion Moiety. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 1560-1563.	13.8	39
15	New electrochemical detection method in high-performance liquid chromatography for determining free fatty acids. <i>Analytica Chimica Acta</i> , 2002, 465, 199-206.	5.4	37
16	EndoV/DNA ligase mutation scanning assay using microchip capillary electrophoresis and dual-color laser-induced fluorescence detection. <i>Analytical Methods</i> , 2012, 4, 58-64.	2.7	34
17	Determination of Organic Acids by High-Performance Liquid Chromatography with Electrochemical Detection during Wine Brewing. <i>Journal of Agricultural and Food Chemistry</i> , 2004, 52, 1440-1444.	5.2	33
18	Determination of Honokiol and Magnolol by Micro HPLC with Electrochemical Detection and Its Application to the Distribution Analysis in Branches and Leaves of <i>Magnolia obovata</i> . <i>Chemical and Pharmaceutical Bulletin</i> , 2005, 53, 319-322.	1.3	27

#	ARTICLE	IF	CITATIONS
19	Quantitative Comparison of Caffeoylquinic Acids and Flavonoids in <i>Chrysanthemum morifolium</i> Flowers and Their Sulfur-Fumigated Products by Three-Channel Liquid Chromatography with Electrochemical Detection. <i>Chemical and Pharmaceutical Bulletin</i> , 2015, 63, 25-32.	1.3	27
20	2-(Pyridinium-1-yl)-1-bis(perfluoroalkylsulfonyl)ethane: A Practical Reagent for Synthesis of Strongly Acidic 1-bis(perfluoroalkylsulfonyl)alkanes. <i>Chemistry - A European Journal</i> , 2017, 23, 8203-8211.	3.3	26
21	Picomole Level Determination of Cholesterol by HPLC with Electrochemical Detection Using Boron-doped Diamond Electrode after Performance Assessment Based on the FUMI Theory. <i>Electroanalysis</i> , 2011, 23, 2709-2715.	2.9	25
22	3-Nitro-2-pyridinesulfenates as Efficient Solution- and Solid-Phase Disulfide Bond Forming Agents. <i>Chemistry - A European Journal</i> , 2017, 23, 8262-8267.	3.3	22
23	Prediction of measurement precision of apparatus using a chemometric tool in electrochemical detection of high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2003, 986, 239-246.	3.7	19
24	Column switching high-performance liquid chromatography with two channels electrochemical detection for high-sensitive determination of isoflavones. <i>Journal of Chromatography A</i> , 2010, 1217, 2986-2989.	3.7	19
25	Optimization of HPLC-ECD Conditions for Determination of Catechins with Precision and Efficiency Based on the FUMI Theory. <i>Analytical Sciences</i> , 2003, 19, 865-869.	1.6	17
26	Simultaneous determination of azaperone and azaperol in animal tissues by HPLC with confirmation by electrospray ionization mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2009, 877, 166-172.	2.3	17
27	Three-channel column-switching high-performance liquid chromatography with electrochemical detection for determining bioactive redox components in <i>Salvia miltiorrhiza</i> . <i>Journal of Chromatography A</i> , 2012, 1256, 105-113.	3.7	17
28	Determination of ceftriaxone concentration in human cerebrospinal fluid by high-performance liquid chromatography with UV detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1124, 161-164.	2.3	17
29	A Disposable Voltammetric Cell for Determining the Titratable Acidity in Vinegar. <i>Analytical Sciences</i> , 2003, 19, 1473-1476.	1.6	16
30	Separation of Flavonoids by Semi-Micro High-Performance Liquid Chromatography with Electrochemical Detection. <i>Bulletin of the Chemical Society of Japan</i> , 2004, 77, 1147-1152.	3.2	16
31	Prepeak of trolox caused by theophylline and its application to the determination of theophylline in rat plasma. <i>Journal of Electroanalytical Chemistry</i> , 2011, 656, 85-90.	3.8	16
32	Simultaneous detection of 19 <i>Kras</i> mutations by free-solution conjugate electrophoresis of ligase detection reaction products on glass microchips. <i>Electrophoresis</i> , 2013, 34, 590-597.	2.4	14
33	Profiling and isomer recognition of phenylethanoid glycosides from <i>Magnolia officinalis</i> based on diagnostic/holistic fragment ions analysis coupled with chemometrics. <i>Journal of Chromatography A</i> , 2020, 1611, 460583.	3.7	14
34	Review "A Portable Voltammetric Sensor for Determining Titratable Acidity in Foods and Beverages. <i>Journal of the Electrochemical Society</i> , 2020, 167, 037517.	2.9	13
35	Determination of Ethoxyquin by High-Performance Liquid Chromatography with Fluorescence Detection and Its Application to the Survey of Residues in Food Products of Animal Origin. <i>Journal of AOAC INTERNATIONAL</i> , 2010, 93, 277-283.	1.5	13
36	The effect of hyperglycemia on the pharmacokinetics of valproic acid studied by high-performance liquid chromatography with electrochemical detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 97, 47-53.	2.8	12

#	ARTICLE	IF	CITATIONS
37	Liquid chromatography-tandem mass spectrometric method for determination of mosapride citrate in equine tissues. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 858, 135-142.	2.3	11
38	Optimization of capillary liquid chromatography with electrochemical detection for determining femtogram levels of baicalin and baicalein on the basis of the FUMI theory. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2008, 48, 780-787.	2.8	11
39	Simultaneous determination of various bioactive redox components in Shuang-Huang-Lian preparations using a novel three-channel isocratic elution liquid chromatography with electrochemical detection system. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 95, 93-101.	2.8	11
40	Design of Novel Hydrogen-Bonding Donor Organocatalysts and Their Application to Asymmetric Direct Aldol Reaction. <i>Synlett</i> , 2017, 28, 1363-1367.	1.8	11
41	Electrochemical detection of tocopherols in vegetable oils by supercritical fluid chromatography equipped with carbon fiber electrodes. <i>Analytical Methods</i> , 2018, 10, 4414-4418.	2.7	11
42	HPLC with electrochemical detection for determining the distribution of free fatty acids in skin surface lipids from the human face and scalp. <i>Archives of Dermatological Research</i> , 2002, 294, 172-177.	1.9	10
43	Determination of ortho-Phenylphenol Residues in Lemon Rind by High-Performance Liquid Chromatography with Electrochemical Detection Using a Microbore Column. <i>Analytical Sciences</i> , 2004, 20, 199-203.	1.6	10
44	Voltammetric behavior of trolox in the presence of amino acid in unbuffered dimethylsulfoxide. <i>Journal of Electroanalytical Chemistry</i> , 2008, 624, 323-326.	3.8	10
45	Determination of Eicosapentaenoic, Docosahexaenoic, and Arachidonic Acids in Human Plasma by High-Performance Liquid Chromatography with Electrochemical Detection. <i>Analytical Sciences</i> , 2016, 32, 1011-1014.	1.6	10
46	An automated assessment system of limits of detection and quantitation in gradient high-performance liquid chromatography with ultraviolet detection. <i>Journal of Chromatography A</i> , 2020, 1621, 461077.	3.7	9
47	Determination of Ammonia in Exhaled Breath by Flow Injection Analysis with Electrochemical Detection. <i>Electrochemistry</i> , 2012, 80, 340-344.	1.4	8
48	Determination of Nobiletin in Rat Plasma after Ingestion of Citrus depressa Juice by Capillary Liquid Chromatography with Electrochemical Detection Using Boron-doped Diamond Electrode. <i>Electrochemistry</i> , 2015, 83, 363-367.	1.4	8
49	A novel approach to the sensing of weak bases. <i>Sensors and Actuators B: Chemical</i> , 2005, 108, 858-862.	7.8	7
50	Selection of the Optimal Solvent Grade for the Mobile Phase in HPLC with Electrochemical Detection Based on FUMI Theory. <i>Analytical Sciences</i> , 2009, 25, 925-929.	1.6	7
51	Capillary Liquid Chromatography with UV Detection Using N,N-Diethyl Dithiocarbamate for Determining Platinum-Based Antitumor Drugs in Plasma. <i>Chemical and Pharmaceutical Bulletin</i> , 2012, 60, 665-669.	1.3	7
52	Synthesis of β -Oxo-1,1-bis(triflyl)alkanes and Their Acidities. <i>Molecules</i> , 2013, 18, 15531-15540.	3.8	7
53	Discrimination of magnoliae officinalis cortex based on the quantitative profiles of magnolosides by two-channel liquid chromatography with electrochemical detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 158, 166-173.	2.8	7
54	An automated system for predicting detection limit and precision profile from a chromatogram. <i>Journal of Chromatography A</i> , 2020, 1612, 460644.	3.7	7

#	ARTICLE	IF	CITATIONS
55	Determination of troglitazone stereoisomers in rat plasma using semi-micro HPLC with electrochemical detection. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 38, 155-161.	2.8	6
56	Growth inhibition and differentiation of cultured smooth muscle cells depend on cellular crossbridges across the tubular lumen of type I collagen matrix honeycombs. <i>Microvascular Research</i> , 2009, 77, 143-149.	2.5	6
57	Determination of Cryptotanshinone, Tanshinone I, and Tanshinone IIA in <i>Salvia Miltiorrhiza</i> by Micro HPLC with Amperometric Detection. <i>Analytical Letters</i> , 2013, 46, 605-614.	1.8	5
58	A flow-through column electrolytic cell for supercritical fluid chromatography. <i>Journal of Separation Science</i> , 2017, 40, 4085-4090.	2.5	5
59	Discrimination of <i>Schisandrae Chinensis Fructus</i> and <i>Schisandrae Sphenantherae Fructus</i> based on fingerprint profiles of hydrophilic components by high-performance liquid chromatography with ultraviolet detection. <i>Journal of Natural Medicines</i> , 2018, 72, 399-408.	2.3	5
60	Determination of Strongly Acidic C-H Acids Bearing a (Perfluoroalkyl)sulfonyl Group in Acetonitrile by Means of Voltammetric Reduction of Quinone. <i>Electrochemistry</i> , 2021, 89, 121-124.	1.4	5
61	Chemometric evaluations of repeatability and detection limit in high-performance liquid chromatography with electrochemical detection. <i>Journal of Chromatography A</i> , 2022, 1673, 463075.	3.7	5
62	Development of a Potable Amperometric Acid Sensor for Measuring the Titratable Acidity of Fruit Juices. <i>Bunseki Kagaku</i> , 2008, 57, 199-204.	0.2	4
63	Determination of Aristolochic Acids I and II in Herbal Medicines by High-performance Liquid Chromatography with Electrochemical Detection. <i>Electrochemistry</i> , 2014, 82, 444-447.	1.4	4
64	Repeatability Assessment by ISO 11843-7 in Quantitative HPLC for Herbal Medicines. <i>Analytical Sciences</i> , 2015, 31, 903-909.	1.6	4
65	Voltammetric Determination of Amino Acids Based on the Measurement of Reduction Prepeak of Quinone Caused by Surplus Acid after Neutralization. <i>Electroanalysis</i> , 2018, 30, 2988-2993.	2.9	4
66	Emerging Separation Techniques in Supercritical Fluid Chromatography. <i>Chemical and Pharmaceutical Bulletin</i> , 2021, 69, 970-975.	1.3	4
67	Effects of sampling rate and noise filter processing on repeatability assessment in UHPLC with ultraviolet detection based on the ISO 11843-7. <i>Analytical Sciences</i> , 2022, 38, 183-189.	1.6	4
68	Determination of Phenolic Compounds in Beverages by Three-Flow Channel Isocratic HPLC with Electrochemical Detections Using a Column-Switching Technique. <i>Chemical and Pharmaceutical Bulletin</i> , 2022, 70, 43-49.	1.3	4
69	Supercritical fluid chromatography with post-column addition of supporting electrolyte solution for electrochemical determination of tocopherol and tocotrienol isomers. <i>Journal of Separation Science</i> , 2022, , .	2.5	4
70	Determination of lactic acid in human plasma by HPLC with electrochemical detection.. <i>Bunseki Kagaku</i> , 2002, 51, 703-706.	0.2	3
71	A disposable voltammetric cell for determining the titratable acidity in wood-vinegars. <i>Bunseki Kagaku</i> , 2004, 53, 1097-1100.	0.2	3
72	Voltammetric Sensor for the Titratable Acidity in Sake and Shochu. <i>Journal of the Brewing Society of Japan</i> , 2015, 110, 13-19.	0.3	3

#	ARTICLE	IF	CITATIONS
73	Electrochemical Determination of Synephrine by Hydrophilic Interaction Liquid Chromatography Using a Zwitterionic Monolith Column. <i>Electroanalysis</i> , 2016, 28, 1947-1950.	2.9	3
74	Theoretical repeatability assessment without repetitive measurements in gradient high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2016, 1454, 26-31.	3.7	3
75	Determination of serum brassicasterol in spontaneously hypertensive rats stroke-prone fed a high-ergosterol diet by ultra performance liquid chromatography. <i>European Journal of Lipid Science and Technology</i> , 2016, 118, 1074-1083.	1.5	3
76	Assessment of Repeatability in Supercritical Fluid Chromatography with Electrochemical Detection Based on the ISO 11843 Part 7. <i>Chemical and Pharmaceutical Bulletin</i> , 2019, 67, 59-63.	1.3	3
77	HPLC with Electrochemical Detection. , 2011, , 187-220.		3
78	Determination of lidocaine by flow-injection analysis with electrochemical detection. <i>Bunseki Kagaku</i> , 2003, 52, 1137-1140.	0.2	2
79	Flow-injection analysis with electrochemical detection for determining the titratable acidity of a pH adjuster for foods. <i>Bunseki Kagaku</i> , 2004, 53, 271-274.	0.2	2
80	Optimization of system for HPLC with electrochemical detection using the FUMI theory. <i>Review of Polarography</i> , 2004, 50, 109-123.	0.1	2
81	The Sensor for Determining Titratable Acidity in Shochu. <i>Bunseki Kagaku</i> , 2014, 63, 41-46.	0.2	2
82	Simple Voltammetric Method for Determining Acid Value in Fats and Oils. <i>Bunseki Kagaku</i> , 2015, 64, 631-635.	0.2	2
83	HPLC with Electrochemical Detection for Plasma Pharmacokinetic Studies. <i>Bunseki Kagaku</i> , 2015, 64, 821-833.	0.2	2
84	HPLC with electrochemical detection for determining homogentisic acid and its application to urine from rats fed tyrosine-enriched food. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2020, 186, 113253.	2.8	2
85	A simple method for daily inspections of gas chromatography-mass spectrometry systems with an instrumental detection limit as an indicator. <i>Journal of Chromatography A</i> , 2021, 1657, 462570.	3.7	2
86	Electrochemiluminescence Sensing. <i>Analytical Sciences</i> , 2020, 36, 1023-1024.	1.6	2
87	Psychological barriers to the use of opioid analgesics for treating pain in patients with advanced recurrent cancer (BAROC): protocol for a multicentre cohort study. <i>BMJ Open</i> , 2022, 12, e054914.	1.9	2
88	Electrochemical Determination of Titratable Acidity for the Discrimination of <i>Schisandrae Chinensis Fructus</i> and <i>Schisandrae Sphenantherae Fructus</i> . <i>Analytical Sciences</i> , 2020, 36, 1003-1008.	1.6	1
89	Chemometric evaluation of repeatability of internal standard methods in high-performance liquid chromatography with a Japanese pharmacopoeia assay for indomethacin as an example. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 202, 114165.	2.8	1
90	HPLC with Electrochemical Detection Systems for Quantitative Analysis of Functional Components in Foods. <i>Bunseki Kagaku</i> , 2021, 70, 415-426.	0.2	1

#	ARTICLE	IF	CITATIONS
91	Analytical Chemistry related to Biofunctional Research. Determination of glucose and uric acid by FIA with electrochemiluminescence with high-sensitivity.. Bunseki Kagaku, 2002, 51, 423-427.	0.2	0
92	Baseline Noise in High-Performance Liquid Chromatography with Electrochemical Detection. AIP Conference Proceedings, 2005, , .	0.4	0
93	Uncertainty Estimation in Determination of Ethyl Aminobenzoate by Diazotization Titration and HPLC with UV Detection. Bunseki Kagaku, 2008, 57, 485-491.	0.2	0
94	Quantitative Analysis for Bioactive Compounds Derived from Traditional Chinese Medicines and Plants by High-Performance Liquid Chromatography with Electrochemical Detection. Review of Polarography, 2016, 62, 85-92.	0.1	0
95	Development of a Fecal Collection Kit for Determining Fecal Short-chain Fatty Acids and Its Application to the Analysis of Feces from Patients with Ulcerative Colitis. Bunseki Kagaku, 2017, 66, 459-463.	0.2	0
96	Chemometric Evaluation of Repeatability Using the Autocorrelation Method in High-Performance Liquid Chromatography with Ultraviolet Detection. Chemical and Pharmaceutical Bulletin, 2019, 67, 1160-1163.	1.3	0
97	Determination of Bioactive Compounds by Highly Sensitive Electrochemical Detection in Liquid Chromatography. Review of Polarography, 2020, 66, 23-30.	0.1	0
98	Improvement in Efficiency of Uncertainty Evaluation in Chromatography “ Chemometrical Analysis of Limits of Detection, Decision and Quantitation, and Precision Profile “. Bunseki Kagaku, 2022, 71, 1-12.	0.2	0