

Kei Toda

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/754666/publications.pdf>

Version: 2024-02-01

104
papers

2,391
citations

201674

27
h-index

233421

45
g-index

105
all docs

105
docs citations

105
times ranked

2733
citing authors

#	ARTICLE	IF	CITATIONS
1	Biogenic Diamines and Their Amide Derivatives Are Present in the Forest Atmosphere and May Play a Role in Particle Formation. <i>ACS Earth and Space Chemistry</i> , 2022, 6, 421-430.	2.7	5
2	On-line analysis of free-tropospheric water-soluble acidic gases and particulate anions on the summit of Mt. Fuji, Japan. <i>Atmospheric Environment</i> , 2022, 273, 118977.	4.1	1
3	Electrodialytic Enrichment and Matrix Conversion for the Determination of Trace Metals in Ultra-Pure Water. <i>ACS Omega</i> , 2022, 7, 14082-14088.	3.5	3
4	Highly Efficient Separation of Ultratrace Radioactive Copper Using a Flow Electrolysis Cell. <i>ACS Omega</i> , 2022, 7, 15779-15785.	3.5	0
5	Online Analysis of Water-soluble Acidic Gases and Anions in Particles at the Southeastern Foot of Mt. Fuji. <i>Bunseki Kagaku</i> , 2021, 70, 65-69.	0.2	4
6	Natural dimethyl sulfide gradients would lead marine predators to higher prey biomass. <i>Communications Biology</i> , 2021, 4, 149.	4.4	15
7	Indirect Potentiometric pH Detection of Weak Acids with Absolute Quantitation by a Theoretical Approach. <i>Analytical Chemistry</i> , 2021, 93, 12305-12311.	6.5	0
8	Rapid Flow-Based System for Separation of Radioactive Metals by Selective Complex Formation. <i>Analytical Chemistry</i> , 2021, 93, 17069-17075.	6.5	1
9	Identification of Naturally Occurring Polyamines as Root-Knot Nematode Attractants. <i>Molecular Plant</i> , 2020, 13, 658-665.	8.3	35
10	Electrodialytic Handling of Radioactive Metal Ions for Preparation of Tracer Reagents. <i>Analytical Chemistry</i> , 2020, 92, 14953-14958.	6.5	5
11	Measurement Device for Ambient Carbonyl Sulfide by Means of Catalytic Reduction Followed by Wet Scrubbing/Fluorescence Detection. <i>ACS Omega</i> , 2020, 5, 25704-25711.	3.5	0
12	Determination of oxoanions and water-soluble species of arsenic, selenium, antimony, vanadium, and chromium eluted in water from airborne fine particles (PM _{2.5}): effect of acid and transition metal content of particles on heavy metal elution. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 1514-1524.	3.5	3
13	Semi-continuous Monitoring of Cr(VI) and Cr(III) during a Soil Extraction Process by Means of an Ion Transfer Device and Graphite Furnace Atomic Absorption Spectroscopy. <i>Analytical Sciences</i> , 2020, 36, 617-620.	1.6	10
14	Miniaturized crossflow ion transfer device for post-column enrichment in ion chromatography. <i>Talanta</i> , 2020, 216, 120989.	5.5	6
15	High Sensitivity Monitoring Device for Onboard Measurement of Dimethyl Sulfide and Dimethylsulfoniopropionate in Seawater and an Oceanic Atmosphere. <i>Analytical Chemistry</i> , 2019, 91, 10484-10491.	6.5	6
16	Universal Detection Methods in Ion Chromatography. <i>Bunseki Kagaku</i> , 2019, 68, 153-162.	0.2	1
17	Dimethylsulfide (DMS) fluxes from permeable coral reef carbonate sediments. <i>Marine Chemistry</i> , 2019, 208, 1-10.	2.3	13
18	Humic-like substances global levels and extraction methods in aerosols. <i>Environmental Chemistry Letters</i> , 2019, 17, 1023-1029.	16.2	3

#	ARTICLE	IF	CITATIONS
19	Electrodialytic extraction of anionic pharmaceutical compounds from a single drop of whole blood using a supported liquid membrane. <i>Talanta</i> , 2018, 181, 197-203.	5.5	7
20	Electrodialytic in-line preconcentration for ionic solute analysis. <i>Talanta</i> , 2018, 180, 176-181.	5.5	13
21	Ultra-sensitive Trace-Water Optical Sensor with <i>in situ</i> -synthesized Metal-Organic Framework in Glass Paper. <i>Analytical Sciences</i> , 2018, 34, 495-500.	1.6	2
22	Electrodialytic Matrices Isolation for Determination of Heavy Metals in Soil Extracts by Anodic Stripping Voltammetry. <i>Bunseki Kagaku</i> , 2018, 67, 761-766.	0.2	0
23	Identification of Volatile Organic Compounds from Pollens for Pollen Scattering Markers Using Thermal Desorption-GC/MS. <i>Bunseki Kagaku</i> , 2018, 67, 323-331.	0.2	1
24	Diurnal Variations in Partitioning of Atmospheric Glyoxal and Methylglyoxal between Gas and Particles at the Ground Level and in the Free Troposphere. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 915-924.	2.7	25
25	Universal HPLC Detector for Hydrophilic Organic Compounds by Means of Total Organic Carbon Detection. <i>Analytical Chemistry</i> , 2018, 90, 6461-6467.	6.5	10
26	Interlayer Void Space as the Key Semipermeable Site for Sieving Molecules and Leaking Ions in Graphene Oxide Filter. <i>ChemistrySelect</i> , 2017, 2, 4248-4254.	1.5	10
27	Arsine gas sensor based on gold-modified reduced graphene oxide. <i>Sensors and Actuators B: Chemical</i> , 2017, 240, 657-663.	7.8	47
28	Matrix isolation with an ion transfer device for interference-free simultaneous spectrophotometric determinations of hexavalent and trivalent chromium in a flow-based system. <i>Talanta</i> , 2017, 164, 445-450.	5.5	27
29	Simultaneous analysis of silicon and boron dissolved in water by combination of electrodialytic salt removal and ion-exclusion chromatography with corona charged aerosol detection. <i>Journal of Chromatography A</i> , 2016, 1431, 131-137.	3.7	11
30	Monitoring variations of dimethyl sulfide and dimethylsulfoniopropionate in seawater and the atmosphere based on sequential vapor generation and ion molecule reaction mass spectrometry. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 464-472.	3.5	9
31	Formaldehyde vapor produced from hexamethylenetetramine and pesticide: Simultaneous monitoring of formaldehyde and ozone in chamber experiments by flow-based hybrid micro-gas analyzer. <i>Talanta</i> , 2016, 148, 649-654.	5.5	6
32	Automated determinations of selenium in thermal power plant wastewater by sequential hydride generation and chemiluminescence detection. <i>Talanta</i> , 2016, 148, 609-616.	5.5	15
33	Direct Determination of Polycyclic Aromatic Hydrocarbons in PM _{2.5} by Thermal Desorption-GC/MS and Analysis of Their Diurnal/Seasonal Variations and Field Burning in Kumamoto. <i>Bunseki Kagaku</i> , 2015, 64, 571-579.	0.2	7
34	Leaching behavior of arsenite and arsenate from the contaminated sediment by the effect of phosphate ion under anaerobic conditions. <i>Environmental Earth Sciences</i> , 2015, 74, 737-743.	2.7	3
35	Recent progress in applications of graphene oxide for gas sensing: A review. <i>Analytica Chimica Acta</i> , 2015, 878, 43-53.	5.4	348
36	A fiber optic sensor with a metal organic framework as a sensing material for trace levels of water in industrial gases. <i>Analytica Chimica Acta</i> , 2015, 886, 188-193.	5.4	62

#	ARTICLE	IF	CITATIONS
37	Micro Ion Extractor for Single Drop Whole Blood Analysis. <i>Analytical Chemistry</i> , 2015, 87, 6483-6486.	6.5	10
38	Levels, indoor-outdoor relationships and exposure risks of airborne particle-associated perchlorate and chlorate in two urban areas in Eastern Asia. <i>Chemosphere</i> , 2015, 135, 31-37.	8.2	19
39	Simultaneous Electrodeless Preconcentration and Speciation of Chromium(III) and Chromium(VI). <i>Analytical Chemistry</i> , 2015, 87, 11575-11580.	6.5	40
40	Electrodialytic matrix isolation for metal cations. <i>Talanta</i> , 2015, 132, 228-233.	5.5	15
41	On-line electrodeless matrix isolation for chromatographic determination of organic acids in wine. <i>Journal of Chromatography A</i> , 2014, 1372, 18-24.	3.7	32
42	Sulfurized limonite as material for fast decomposition of organic compounds by heterogeneous Fenton reaction. <i>Journal of Hazardous Materials</i> , 2014, 278, 426-432.	12.4	51
43	Formaldehyde Content of Atmospheric Aerosol. <i>Environmental Science & Technology</i> , 2014, 48, 6636-6643.	10.0	37
44	Gas analyzer for continuous monitoring of trace level methanethiol by microchannel collection and fluorescence detection. <i>Analytica Chimica Acta</i> , 2014, 841, 1-9.	5.4	9
45	In situ oxygenous functionalization of a graphite electrode for enhanced affinity towards charged species and a reduced graphene oxide mediator. <i>New Journal of Chemistry</i> , 2014, 38, 2120-2127.	2.8	19
46	Development of Micro Gas Analysis System and Its Applications to Environmental Analysis. <i>Bunseki Kagaku</i> , 2014, 63, 873-883.	0.2	1
47	Simple Field Device for Measurement of Dimethyl Sulfide and Dimethylsulfoniopropionate in Natural Waters, Based on Vapor Generation and Chemiluminescence Detection. <i>Analytical Chemistry</i> , 2013, 85, 4461-4467.	6.5	26
48	Flow-based ammonia gas analyzer with an open channel scrubber for indoor environments. <i>Talanta</i> , 2013, 116, 527-534.	5.5	10
49	Surface modified annular wet denuder for the collection of water-soluble trace gases. <i>Analytical Methods</i> , 2013, 5, 6071.	2.7	5
50	Determination of Isotianil in Brown Rice and Soil Using Supercritical Fluid Extraction and Gas Chromatography/Mass Spectrometry. <i>Analytical Sciences</i> , 2013, 29, 919-922.	1.6	6
51	Investigation of Daily Variation of Atmospheric Nitrophenols by Means of Inline Preconcentration-HPLC/MS Analysis with Large Volume Injection. <i>Bunseki Kagaku</i> , 2013, 62, 775-783.	0.2	4
52	Determination of nitenpyram and its metabolites in agricultural products by using hydrophilic interaction liquid chromatography-tandem mass spectrometry. <i>Journal of Pesticide Sciences</i> , 2013, 38, 27-32.	1.4	19
53	Evaluation of Single Column Trapping/Separation and Chemiluminescence Detection for Measurement of Methanethiol and Dimethyl Sulfide from Pig Production. <i>Journal of Analytical Methods in Chemistry</i> , 2012, 2012, 1-7.	1.6	10
54	Measurement of polychlorinated biphenyls in solid waste such as transformer insulation paper by supercritical fluid extraction and gas chromatography electron capture detection. <i>Journal of Chromatography A</i> , 2012, 1256, 267-270.	3.7	6

#	ARTICLE	IF	CITATIONS
55	Membrane-based microchannel device for continuous quantitative extraction of dissolved free sulfide from water and from oil. <i>Analytica Chimica Acta</i> , 2012, 741, 38-46.	5.4	16
56	Mobile monitoring along a street canyon and stationary forest air monitoring of formaldehyde by means of a micro-gas analysis system. <i>Journal of Environmental Monitoring</i> , 2012, 14, 1462.	2.1	22
57	A Capacitance Sensor for Water: Trace Moisture Measurement in Gases and Organic Solvents. <i>Analytical Chemistry</i> , 2012, 84, 8891-8897.	6.5	57
58	Electrodialytic Ion Isolation for Matrix Removal. <i>Analytical Chemistry</i> , 2012, 84, 5421-5426.	6.5	27
59	On-Site Measurement of Trace-Level Sulfide in Natural Waters by Vapor Generation and Microchannel Collection. <i>Environmental Science & Technology</i> , 2011, 45, 5622-5628.	10.0	23
60	Measurements of arsenite and arsenate contained in mining river waters and leached from contaminated sediments by sequential hydride generation flow injection analysis. <i>Talanta</i> , 2011, 84, 1336-1341.	5.5	8
61	High Sensitivity Arsenic Analyzer Based on Liquid-reagent-free Hydride Generation and Chemiluminescence Detection for On-site Water Analysis. <i>Analytical Sciences</i> , 2011, 27, 733-738.	1.6	19
62	On-site Multi Monitoring of Isoprene and Related Compounds in Forest Air. <i>Bunseki Kagaku</i> , 2011, 60, 489-498.	0.2	8
63	Dynamic Evaluation on Hydrogen Sulfide Adsorption Properties of Solid Adsorbents Using Their 'Sink Efficiencies' - in Case of Desulfurization by Limonite -. <i>Bunseki Kagaku</i> , 2011, 60, 641-646.	0.2	3
64	Gas collection efficiency of annular denuders: A spreadsheet-based calculator. <i>Analytica Chimica Acta</i> , 2010, 664, 56-61.	5.4	15
65	Atmospheric methanethiol emitted from a pulp and paper plant on the shore of Lake Baikal. <i>Atmospheric Environment</i> , 2010, 44, 2427-2433.	4.1	33
66	Miniature open channel scrubbers for gas collection. <i>Talanta</i> , 2010, 82, 1870-1875.	5.5	17
67	Micro Gas Analyzer Measurement of Nitric Oxide in Breath by Direct Wet Scrubbing and Fluorescence Detection. <i>Analytical Chemistry</i> , 2009, 81, 7031-7037.	6.5	26
68	Simple water analysis of golf link pesticides by means of batch-wise adsorption and supercritical fluid extraction. <i>Talanta</i> , 2009, 80, 738-743.	5.5	13
69	Micro gas analyzers for environmental and medical applications. <i>Analytica Chimica Acta</i> , 2008, 619, 143-156.	5.4	96
70	Investigation of arsenic removal in batch wise water treatments by means of sequential hydride generation flow injection analysis. <i>Chemosphere</i> , 2008, 72, 1517-1523.	8.2	5
71	Environmental Applications: Atmospheric Trace Gas Analyses. <i>Comprehensive Analytical Chemistry</i> , 2008, , 639-683.	1.3	8
72	NEW APPLICATIONS OF CHEMILUMINESCENCE FOR SELECTIVE GAS ANALYSIS. <i>Chemical Engineering Communications</i> , 2007, 195, 82-97.	2.6	28

#	ARTICLE	IF	CITATIONS
73	Sequential multiple analyses of atmospheric nitrous acid and nitrogen oxides. <i>Talanta</i> , 2007, 71, 1652-1660.	5.5	8
74	Can Breath Isoprene Be Measured by Ozone Chemiluminescence?. <i>Analytical Chemistry</i> , 2007, 79, 2641-2649.	6.5	30
75	In situ gas generation for micro gas analysis system. <i>Analytica Chimica Acta</i> , 2007, 588, 147-152.	5.4	12
76	Micro-gas analysis system for measurement of nitric oxide and nitrogen dioxide: Respiratory treatment and environmental mobile monitoring. <i>Analytica Chimica Acta</i> , 2007, 603, 60-66.	5.4	15
77	Measurement of Ammonia in Human Breath with a Liquid-Film Conductivity Sensor. <i>Analytical Chemistry</i> , 2006, 78, 7284-7291.	6.5	73
78	A Gas-Phase Chemiluminescence-Based Analyzer for Waterborne Arsenic. <i>Analytical Chemistry</i> , 2006, 78, 7088-7097.	6.5	46
79	Single Column Trapping/Separation and Chemiluminescence Detection for On-Site Measurement of Methyl Mercaptan and Dimethyl Sulfide. <i>Analytical Chemistry</i> , 2006, 78, 6252-6259.	6.5	36
80	Miniature Liquid Flow Sensor and Feedback Control of Electroosmotic and Pneumatic Flows for a Micro Gas Analysis System. <i>Analytical Sciences</i> , 2006, 22, 61-65.	1.6	16
81	Ion chromatographic measurement of sulfide, methanethiolate, sulfite and sulfate in aqueous and air samples. <i>Journal of Chromatography A</i> , 2006, 1121, 280-284.	3.7	66
82	Long-Term and Mobile Monitoring of Atmospheric Sulfur Dioxide and Hydrogen Sulfide at Mt. Aso and Kumamoto City. <i>Bunseki Kagaku</i> , 2006, 55, 109-115.	0.2	6
83	Highly Sensitive Flow Analysis of Trace Level Arsenic in Water Based on Vaporization-collection In-line Preconcentration. <i>Chemistry Letters</i> , 2005, 34, 176-177.	1.3	14
84	Portable system for near-real time measurement of gaseous formaldehyde by means of parallel scrubber stopped-flow absorptiometry. <i>Analytica Chimica Acta</i> , 2005, 531, 41-49.	5.4	75
85	Determination of acetone in breath. <i>Analytica Chimica Acta</i> , 2005, 535, 189-199.	5.4	112
86	Speciation-Capable Field Instrument for the Measurement of Arsenite and Arsenate in Water. <i>Analytical Chemistry</i> , 2005, 77, 4765-4773.	6.5	40
87	Micro gas analysis system for measurement of atmospheric hydrogen sulfide and sulfur dioxide. <i>Lab on A Chip</i> , 2005, 5, 1374.	6.0	47
88	Micro-gas analysis system $\hat{1}$ / ₄ GAS comprising a microchannel scrubber and a micro-fluorescence detector for measurement of hydrogen sulfide. <i>Analytica Chimica Acta</i> , 2004, 511, 3-10.	5.4	35
89	Field Instrument for Simultaneous Large Dynamic Range Measurement of Atmospheric Hydrogen Sulfide, Methanethiol, and Sulfur Dioxide. <i>Environmental Science & Technology</i> , 2004, 38, 1529-1536.	10.0	52
90	Trends in Atmospheric Trace Gas Measurement Instruments with Membrane-based Gas Diffusion Scrubbers. <i>Analytical Sciences</i> , 2004, 20, 19-27.	1.6	38

#	ARTICLE	IF	CITATIONS
91	Development of miniature key devices for flow analysis and their applications. Bunseki Kagaku, 2004, 53, 207-219.	0.2	7
92	Trace Gas Measurement with an Integrated Porous Tube Collector/Long-Path Absorbance Detector. Analytical Chemistry, 2003, 75, 4050-4056.	6.5	38
93	Electrochemical Flow Enzyme Immunoassay by Means of a Needle-Shaped Sampler/Reactor.. Analytical Sciences, 2003, 19, 155-158.	1.6	3
94	Hybrid Microfabricated Device for Field Measurement of Atmospheric Sulfur Dioxide. Analytical Chemistry, 2002, 74, 5890-5896.	6.5	47
95	Electrochemical enzyme immunoassay using immobilized antibody on gold film with monitoring of surface plasmon resonance signal. Analytica Chimica Acta, 2002, 463, 219-227.	5.4	21
96	Fluorometric Field Instrument for Continuous Measurement of Atmospheric Hydrogen Sulfide. Analytical Chemistry, 2001, 73, 5716-5724.	6.5	50
97	Down-Sizing in Analytical Chemistry. Amperometric gas detection using a micro-ring electrode coupled with a gas-absorbing droplet.. Bunseki Kagaku, 2000, 49, 989-995.	0.2	4
98	Miniaturized detector of sulfur dioxide based on the flow conductometry of an absorbing solution.. Bunseki Kagaku, 1998, 47, 727-734.	0.2	14
99	Amperometric Detection of Nitrogen Oxides by Means of Interdigitated Array Electrodes.. Analytical Sciences, 1997, 13, 981-986.	1.6	13
100	Measurement of association constants between metal ions and porphyrin or metalloporphyrins before their complexation or replacement reaction using a hydrophobic resin column.. Bunseki Kagaku, 1996, 45, 659-665.	0.2	1
101	Double Schottky Diode-Type Gas Sensor for Discriminative Detection of Phosphine and Hydrogen.. Analytical Sciences, 1995, 11, 317-318.	1.6	6
102	Detection of gaseous hydrides by metal-titanium oxide gas sensors.. Bunseki Kagaku, 1990, 39, 611-615.	0.2	6
103	The Interplay Between Dimethyl Sulfide (DMS) and Methane (CH ₄) in a Coral Reef Ecosystem. Frontiers in Marine Science, 0, 9, .	2.5	1
104	Electrodialytic Universal Synthesis of Highly Pure and Mixed Ionic Liquids. ACS Omega, 0, , .	3.5	2