

Akihisa Miyagawa

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Hydrostatic Pressure-Induced Spectral Variation of Reichardt's Dye: A Polarity/Pressure Dual Indicator. <i>ACS Omega</i> , 2020, 5, 897-903.	3.5	13
2	Zeptomole Detection Scheme Based on Levitation Coordinate Measurements of a Single Microparticle in a Coupled Acoustic-Gravitational Field. <i>Analytical Chemistry</i> , 2018, 90, 2310-2316.	6.5	12
3	Acoustic Sensing Based on Density Shift of Microspheres by Surface Binding of Gold Nanoparticles. <i>Analytical Sciences</i> , 2017, 33, 939-944.	1.6	11
4	Multiple MicroRNA Quantification Based on Acoustic Levitation of Single Microspheres after One-Pot Sandwich Interparticle Hybridizations. <i>Analytical Chemistry</i> , 2018, 90, 13729-13735.	6.5	11
5	Space Size-Dependent Transformation of Tetraphenylethylene Carboxylate Aggregates by Ice Confinement. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2209-2217.	2.6	10
6	Kinetic Analysis of the Mass Transfer of Zinc Myoglobin in a Single Mesoporous Silica Particle by Confocal Fluorescence Microspectroscopy. <i>Langmuir</i> , 2021, 37, 12697-12704.	3.5	10
7	Zeptomole Biosensing of DNA with Flexible Selectivity Based on Acoustic Levitation of a Single Microsphere Binding Gold Nanoparticles by Hybridization. <i>ACS Sensors</i> , 2018, 3, 1870-1875.	7.8	9
8	Hydrostatic Pressure-Controlled Molecular Recognition: A Steroid Sensing Case Using Modified Cyclodextrin. <i>ChemPhotoChem</i> , 2021, 5, 118-122.	3.0	8
9	Direct Quantification of Proteins Modified on a Polystyrene Microparticle Surface Based on ζ Potential Change. <i>Analytical Chemistry</i> , 2022, 94, 6304-6310.	6.5	8
10	Aptamer-Based Sensing of Small Organic Molecules by Measuring Levitation Coordinate of Single Microsphere in Combined Acoustic-Gravitational Field. <i>ACS Omega</i> , 2020, 5, 3542-3549.	3.5	7
11	Particle Manipulation with External Field; From Recent Advancement to Perspectives. <i>Analytical Sciences</i> , 2021, 37, 69-78.	1.6	6
12	Hydrostatic Pressure-Regulated Cellular Calcium Responses. <i>Langmuir</i> , 2021, 37, 820-826.	3.5	6
13	Freeze Control of Nanoparticle Aggregation and Exploration as Surface Enhanced Raman Scattering (SERS) Platform. <i>ChemNanoMat</i> , 2021, 7, 434-438.	2.8	6
14	Growth and Morphology of Liquid Phase in Frozen Aqueous NaCl Probed by Voltammetry and Simulations. <i>ChemPhysChem</i> , 2018, 19, 3150-3157.	2.1	5
15	Effect of Molecular Crowding on Complexation of Metal Ions and 8-Quinololinol-5-Sulfonic Acid. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9853-9859.	2.6	5
16	Multiphase Behavior of Tetraphenylethylene Derivatives with Different Polarities at High Pressures. <i>Journal of Physical Chemistry B</i> , 2020, 124, 7263-7271.	2.6	4
17	Distribution Behavior of Single-Stranded DNA Molecules in an Amino-Group-Functionalized Silica Microparticle. <i>Langmuir</i> , 2022, 38, 8462-8468.	3.5	4
18	Zeptomole detection of DNA based on microparticle dissociation from a glass plate in a combined acoustic-gravitational field. <i>Talanta</i> , 2022, 238, 123042.	5.5	3

#	ARTICLE	IF	CITATIONS
19	Acid Dissociation Constant of Bis(2-Ethylhexyl) Hydrogen Phosphate Impregnated in a Polymer Layer Coated on Silica Microparticles. Bulletin of the Chemical Society of Japan, 2022, 95, 566-568.	3.2	3
20	Acid Dissociation Behavior of 8-Hydroxyquinoline-5-Sulfonic Acid in Molecular Crowding Environment Modeled Using Polyethylene Glycol. Journal of Molecular Liquids, 2022, 360, 119526.	4.9	3
21	Acid dissociation under hydrostatic pressure: Structural implications for volumetric parameters. Journal of Molecular Liquids, 2021, 328, 115512.	4.9	1
22	Kinetically revealed transfer mechanism of europium (III) in tributyl phosphate microdroplet/NaNO ₃ aqueous solution system by fluorescence microspectroscopy. Journal of Molecular Liquids, 2022, 352, 118757.	4.9	1
23	Trace Reaction Measurements Using Acoustic Levitation of a Single Particle. Bunseki Kagaku, 2019, 68, 549-558.	0.2	0
24	Aptamer-Based Sensing of Small Organic Molecules. Springer Theses, 2021, , 79-88.	0.1	0
25	Label-Free Detection for DNA/RNA Molecules. Springer Theses, 2021, , 61-78.	0.1	0
26	Detection of the Avidin-Biotin Reaction. Springer Theses, 2021, , 43-59.	0.1	0
27	Principle of Detection Based on Particle Levitation in Coupled Acoustic-Gravitational Field. Springer Theses, 2021, , 35-42.	0.1	0
28	Kinetics and mechanism of Eu(III) transfer in tributyl phosphate microdroplet/HNO ₃ aqueous solution system revealed by fluorescence microspectroscopy. Analytical Sciences, 2022, , .	1.6	0