# Mika Ishigaki

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/5584532/publications.pdf

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| | | 623734 | 580821 |
|---|---|---|---|
| 31 | 664 | 14 | 25 |
| papers | citations | h-index | g-index |

| | | | |
|---|---|---|---|
| 31 | 31 | 31 | 553 |
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Critical evaluation of spectral information of benchtop vs. portable near-infrared spectrometers: quantum chemistry and two-dimensional correlation spectroscopy for a better understanding of PLS regression models of the rosmarinic acid content in Rosmarini folium. Analyst, The, 2017, 142, 455-464. | 3.5 | 94 |
| 2 | Correlations between Structure and Near-Infrared Spectra of Saturated and Unsaturated Carboxylic Acids. Insight from Anharmonic Density Functional Theory Calculations. Journal of Physical Chemistry A, 2017, 121, 3437-3451. | 2.5 | 64 |
| 3 | Diagnosis of early-stage esophageal cancer by Raman spectroscopy and chemometric techniques. Analyst, The, 2016, 141, 1027-1033. | 3.5 | 49 |
| 4 | NIR Spectra Simulations by Anharmonic DFT-Saturated and Unsaturated Long-Chain Fatty Acids. Journal of Physical Chemistry B, 2018, 122, 6931-6944. | 2.6 | 39 |
| 5 | Near-Infrared Spectroscopy and Imaging Studies of Fertilized Fish Eggs: In Vivo Monitoring of Egg Growth at the Molecular Level. Scientific Reports, 2016, 6, 20066. | 3.3 | 38 |
| 6 | Spectra-structure correlations of saturated and unsaturated medium-chain fatty acids. Near-infrared and anharmonic DFT study of hexanoic acid and sorbic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 185, 35-44. | 3.9 | 38 |
| 7 | Excitation wavelength selection for quantitative analysis of carotenoids in tomatoes using Raman spectroscopy. Food Chemistry, 2018, 258, 308-313. | 8.2 | 37 |
| 8 | Unveiling the Aggregation of Lycopene in Vitro and in Vivo: UVâ€“Vis, Resonance Raman, and Raman Imaging Studies. Journal of Physical Chemistry B, 2017, 121, 8046-8057. | 2.6 | 35 |
| 9 | Non-destructive monitoring of mouse embryo development and its qualitative evaluation at the molecular level using Raman spectroscopy. Scientific Reports, 2017, 7, 43942. | 3.3 | 25 |
| 10 | Critical Evaluation of NIR and ATR-IR Spectroscopic Quantifications of Rosmarinic Acid in Rosmarini folium Supported by Quantum Chemical Calculations. Planta Medica, 2017, 83, 1076-1084. | 1.3 | 25 |
| 11 | In Vivo Monitoring of the Growth of Fertilized Eggs of Medaka Fish (Oryzias latipes) by Near-Infrared Spectroscopy and Near-Infrared Imagingâ€”A Marked Change in the Relative Content of Weakly Hydrogen-Bonded Water in Egg Yolk Just before Hatching. Molecules, 2016, 21, 1003. | 3.8 | 23 |
| 12 | Nonstaining Blood Flow Imaging Using Optical Interference Due to Doppler Shift and Near-Infrared Imaging of Molecular Distribution in Developing Fish Egg Embryos. Analytical Chemistry, 2018, 90, 5217-5223. | 6.5 | 19 |
| 13 | NIR inÂvivo imaging of blood flow and molecular distribution in a developing fish egg are simultaneously obtained using imaging-type two-dimensional Fourier spectroscopy. NIR News, 2018, 29, 8-12. | 0.3 | 18 |
| 14 | Noninvasive, highâ€speed, nearâ€infrared imaging of the biomolecular distribution and molecular mechanism of embryonic development in fertilized fish eggs. Journal of Biophotonics, 2018, 11, e201700115. | 2.3 | 17 |
| 15 | Non-staining visualization of embryogenesis and energy metabolism in medaka fish eggs using near-infrared spectroscopy and imaging. Analyst, The, 2017, 142, 4765-4772. | 3.5 | 14 |
| 16 | Assessment of Embryonic Bioactivity through Changes in the Water Structure Using Near-Infrared Spectroscopy and Imaging. Analytical Chemistry, 2020, 92, 8133-8141. | 6.5 | 14 |
| 17 | Theoretical Modeling of Electronic Structures of Polyiodide Species Included in Î±-Cyclodextrin. Journal of Physical Chemistry B, 2020, 124, 4089-4096. | 2.6 | 13 |
| 18 | Exploration of Insulin Amyloid Polymorphism Using Raman Spectroscopy and Imaging. Biophysical Journal, 2020, 118, 2997-3007. | 0.5 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Lipid Droplet Composition Varies Based on Medaka Fish Eggs Development as Revealed by NIR-, MIR-, and Raman Imaging. Molecules, 2020, 25, 817. | 3.8 | 12 |
| 20 | Effect of Raman exposure time on the quantitative and discriminant analyses of carotenoid concentrations in intact tomatoes. Food Chemistry, 2021, 360, 129896. | 8.2 | 12 |
| 21 | Use of the product of mean intensity ratio (PMIR) technique for discriminant analysis of lycopene-rich vegetable juice using a portable NIR-excited Raman spectrometer. Food Chemistry, 2018, 241, 353-357. | 8.2 | 10 |
| 22 | Near-infrared spectroscopy and imaging in protein research. , 2020, , 143-176. | | 10 |
| 23 | Method of Monitoring the Number of Amide Bonds in Peptides Using Near-Infrared Spectroscopy. Analytical Chemistry, 2021, 93, 2758-2766. | 6.5 | 9 |
| 24 | Iodine staining as a useful probe for distinguishing insulin amyloid polymorphs. Scientific Reports, 2020, 10, 16741. | 3.3 | 8 |
| 25 | Phosphoric acid and phosphorylation levels are potential biomarkers indicating developmental competence of matured oocytes. Analyst, The, 2019, 144, 1527-1534. | 3.5 | 7 |
| 26 | NIR Imaging. , 2021, , 517-551. | | 6 |
| 27 | Development of an amino acid sequence-dependent analytical method for peptides using near-infrared spectroscopy. Analyst, The, 2022, 147, 3634-3642. | 3.5 | 6 |
| 28 | High-Speed Scanning for the Quantitative Evaluation of Glycogen Concentration in Bioethanol Feedstock Synechocystis sp. PCC6803 Using a Near-Infrared Hyperspectral Imaging System with a New Near-Infrared Spectral Camera. Applied Spectroscopy, 2017, 71, 463-471. | 2.2 | 5 |
| 29 | In situ assessment of mitochondrial respiratory activity and lipid metabolism of mouse oocytes using resonance Raman spectroscopy. Analyst, The, 2021, 146, 7265-7273. | 3.5 | 4 |
| 30 | Introduction of Quantum Chemical Calculation for near Infrared Spectroscopy. NIR News, 2016, 27, 8-11. | 0.3 | 1 |
| 31 | <i>In situ</i> Imaging of Living Organisms by Raman and Near-infrared Spectroscopies â€" A look into the Brilliance of Life through Molecular Spectroscopies â€". Bunseki Kagaku, 2022, 71, 221-233. | 0.2 | 0 |