

Tae Geol Lee

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Protein Kinase Assay on Peptide-Conjugated Gold Nanoparticles by Using Secondary Ion Mass Spectrometric Imaging. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 6816-6819.	13.8	78
2	ToF-SIMS Analysis of Adsorbed Proteins: Principal Component Analysis of the Primary Ion Species Effect on the Protein Fragmentation Patterns. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24247-24255.	3.1	70
3	Electro-inductive effect: Electrodes as functional groups with tunable electronic properties. <i>Science</i> , 2020, 370, 214-219.	12.6	67
4	Gold Nanoparticle-Enhanced Secondary Ion Mass Spectrometry Imaging of Peptides on Self-Assembled Monolayers. <i>Analytical Chemistry</i> , 2006, 78, 1913-1920.	6.5	41
5	Biological tissue sample preparation for time-of-flight secondary ion mass spectrometry (ToF-SIMS) imaging. <i>Nano Convergence</i> , 2018, 5, 24.	12.1	40
6	Probing nanoparticles and nanoparticle-conjugated biomolecules using time-of-flight secondary ion mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2015, 34, 237-247.	5.4	38
7	Stacked Gold Nanodisks for Bimodal Photoacoustic and Optical Coherence Imaging. <i>ACS Nano</i> , 2017, 11, 6225-6232.	14.6	36
8	Multivariate analysis of ToF-SIMS data for biological applications. <i>Surface and Interface Analysis</i> , 2009, 41, 694-703.	1.8	35
9	ToF-SIMS and PCA of surface-immobilized antibodies with different orientations. <i>Surface and Interface Analysis</i> , 2011, 43, 285-289.	1.8	33
10	Label-Free Calcium Imaging in Ischemic Retinal Tissue by TOF-SIMS. <i>Biophysical Journal</i> , 2008, 94, 4095-4102.	0.5	29
11	ToF-SIMS study on the cleaning methods of Au surface and their effects on the reproducibility of self-assembled monolayers. <i>Applied Surface Science</i> , 2008, 255, 1025-1028.	6.1	26
12	Improved mass resolution and mass accuracy in TOF-SIMS spectra and images using argon gas cluster ion beams. <i>Biointerphases</i> , 2016, 11, 02A321.	1.6	26
13	Physically-synthesized gold nanoparticles containing multiple nanopores for enhanced photothermal conversion and photoacoustic imaging. <i>Nanoscale</i> , 2016, 8, 15514-15520.	5.6	26
14	Biochemical imaging of tissues by SIMS for biomedical applications. <i>Applied Surface Science</i> , 2008, 255, 1241-1248.	6.1	25
15	Intraocular application of gold nanodisks optically tuned for optical coherence tomography: inhibitory effect on retinal neovascularization without unbearable toxicity. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2017, 13, 1901-1911.	3.3	24
16	Probing organic ligands and their binding schemes on nanocrystals by mass spectrometric and FT-IR spectroscopic imaging. <i>Nanoscale</i> , 2016, 8, 4573-4578.	5.6	21
17	Oral toxicity of titanium dioxide P25 at repeated dose 28-day and 90-day in rats. <i>Particle and Fibre Toxicology</i> , 2020, 17, 34.	6.2	21
18	Toxicity of orally administered food-grade titanium dioxide nanoparticles. <i>Journal of Applied Toxicology</i> , 2021, 41, 1127-1147.	2.8	21

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19	Probing the Surface of Organic and Bioconjugated Nanocrystals by Using Mass Spectrometric Imaging. Chemistry - A European Journal, 2008, 14, 8461-8464.	3.3	18
20	Sample Preparation of Corn Seed Tissue to Prevent Analyte Relocations for Mass Spectrometry Imaging. Journal of the American Society for Mass Spectrometry, 2017, 28, 1729-1732.	2.8	17
21	Quantitative Analysis of Immunosuppressive Drugs Using Tungsten Disulfide Nanosheet-Assisted Laser Desorption Ionization Mass Spectrometry. ACS Nano, 2021, 15, 10141-10152.	14.6	16
22	Facile synthesis and direct characterization of surface-charge-controlled magnetic iron oxide nanoparticles and their role in gene transfection in human leukemic T cell. Applied Surface Science, 2019, 483, 1069-1080.	6.1	15
23	Guided formation of sub-5 nm interstitial gaps between plasmonic nanodisks. Nanoscale, 2015, 7, 8338-8342.	5.6	11
24	Comparison between thaw-mounting and use of conductive tape for sample preparation in ToF-SIMS imaging of lipids in <i>Drosophila</i> microRNA-14 model. Biointerphases, 2018, 13, 03B414.	1.6	11
25	Evaluation of Time-of-Flight Secondary Ion Mass Spectrometry Spectra of Peptides by Random Forest with Amino Acid Labels: Results from a Versailles Project on Advanced Materials and Standards Interlaboratory Study. Analytical Chemistry, 2021, 93, 4191-4197.	6.5	11
26	TOFSIMS-P: A Web-Based Platform for Analysis of Large-Scale TOF-SIMS Data. Analytical Chemistry, 2011, 83, 9298-9305.	6.5	10
27	ToF-SIMS imaging and spectroscopic analyses of PEG-conjugated AuNPs. Surface and Interface Analysis, 2011, 43, 628-631.	1.8	10
28	On-Chip Peptide Mass Spectrometry Imaging for Protein Kinase Inhibitor Screening. Analytical Chemistry, 2017, 89, 799-806.	6.5	10
29	Molecular depth profiling on rat brain tissue sections prepared using different sampling methods. Biointerphases, 2018, 13, 03B411.	1.6	10
30	Multi-dimensional TOF-SIMS analysis for effective profiling of disease-related ions from the tissue surface. Scientific Reports, 2015, 5, 11077.	3.3	9
31	Nanoparticles inside nanodishes for plasmon excitations. Applied Physics Letters, 2015, 107, .	3.3	9
32	Utilization of chromogenic enzyme substrates for signal amplification in multiplexed detection of biomolecules using surface mass spectrometry. Sensors and Actuators B: Chemical, 2021, 332, 129452.	7.8	9
33	Lipid crystals mechanically stimulate adjacent extracellular matrix in advanced atherosclerotic plaques. Atherosclerosis, 2014, 237, 769-776.	0.8	8
34	Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging of Phospholipid Changes in a <i>Drosophila</i> Model of Early Amyotrophic Lateral Sclerosis. Journal of the American Society for Mass Spectrometry, 2021, 32, 2536-2545.	2.8	8
35	Direct Chemical Imaging of Ligand-Functionalized Single Nanoparticles by Photoinduced Force Microscopy. Journal of Physical Chemistry Letters, 2020, 11, 5785-5791.	4.6	7
36	Analyte-Induced Desert Rose-like Ag Nanostructures for Surface-Enhanced Raman Scattering-Based Biomolecule Detection and Imaging. ACS Applied Materials & Interfaces, 2021, 13, 58393-58400.	8.0	6

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37	Characterization of PEG-conjugated gold nanoparticles using a statistical analysis on time-of-flight SIMS images. <i>Surface and Interface Analysis</i> , 2013, 45, 225-229.	1.8	5
38	ToF-SIMS analysis of myocardial infarcted tissue. <i>Surface and Interface Analysis</i> , 2011, 43, 350-353.	1.8	4
39	ToF-SIMS analysis of diadenosine triphosphate and didadenosine tetraphosphate using bismuth and argon cluster ion beams. <i>Surface and Interface Analysis</i> , 2014, 46, 189-192.	1.8	4
40	Simultaneous Multiplexed Imaging of Biomolecules in Transgenic Mouse Brain Tissues Using Mass Spectrometry Imaging: A Multi-omic Approach. <i>Analytical Chemistry</i> , 2022, 94, 9297-9305.	6.5	4
41	Au/Si Bilayer Nanodisks with Tunable Localized Surface Plasmon Resonance for Optical Coherence Tomography in the Second Near-Infrared Window. <i>Advanced Photonics Research</i> , 2022, 3, .	3.6	3
42	Study on the deformation of endothelial cells using a bio-inspired in vitro disease model. <i>Microvascular Research</i> , 2015, 98, 172-182.	2.5	2
43	Numerical evaluation of polyethylene glycol ligand conjugation to gold nanoparticle surface using ToF-SIMS and statistical analysis. <i>Biointerphases</i> , 2020, 15, 031008.	1.6	1