

# Taro Ichimura

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,244  
citations

279798

23  
h-index

243625

44  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2770  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tip-Enhanced Coherent Anti-Stokes Raman Scattering for Vibrational Nanoimaging. <i>Physical Review Letters</i> , 2004, 92, 220801.	7.8	380
2	Pressure-assisted tip-enhanced Raman imaging at a resolution of a few nanometres. <i>Nature Photonics</i> , 2009, 3, 473-477.	31.4	192
3	Tip-enhanced nano-Raman analytical imaging of locally induced strain distribution in carbon nanotubes. <i>Nature Communications</i> , 2013, 4, 2592.	12.8	117
4	Subnanometric Near-Field Raman Investigation in the Vicinity of a Metallic Nanostructure. <i>Physical Review Letters</i> , 2009, 102, 186101.	7.8	103
5	Experimental Identification of Chemical Effects in Surface Enhanced Raman Scattering of 4-Aminothiophenol. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7515-7520.	3.1	100
6	Kinesin-binding-triggered conformation switching of microtubules contributes to polarized transport. <i>Journal of Cell Biology</i> , 2018, 217, 4164-4183.	5.2	87
7	Visualizing Cell State Transition Using Raman Spectroscopy. <i>PLoS ONE</i> , 2014, 9, e84478.	2.5	85
8	Temporal Fluctuation of Tip-Enhanced Raman Spectra of Adenine Molecules. <i>Journal of Physical Chemistry C</i> , 2007, 111, 9460-9464.	3.1	84
9	Design and development of genetically encoded fluorescent sensors to monitor intracellular chemical and physical parameters. <i>Biophysical Reviews</i> , 2016, 8, 121-138.	3.2	81
10	Nano-Raman Scattering Microscopy: Resolution and Enhancement. <i>Chemical Reviews</i> , 2017, 117, 4983-5001.	47.7	80
11	Visualization of localized strain of a crystalline thin layer at the nanoscale by tip-enhanced Raman spectroscopy and microscopy. <i>Journal of Raman Spectroscopy</i> , 2007, 38, 684-696.	2.5	78
12	Amplification of coherent anti-Stokes Raman scattering by a metallic nanostructure for a high resolution vibration microscopy. <i>Journal of Applied Physics</i> , 2004, 95, 2676-2681.	2.5	71
13	Nano-imaging through tip-enhanced Raman spectroscopy: Stepping beyond the classical limits. <i>Laser and Photonics Reviews</i> , 2010, 4, 548-561.	8.7	70
14	Local enhancement of coherent anti-Stokes Raman scattering by isolated gold nanoparticles. <i>Journal of Raman Spectroscopy</i> , 2003, 34, 651-654.	2.5	63
15	Non-label immune cell state prediction using Raman spectroscopy. <i>Scientific Reports</i> , 2016, 6, 37562.	3.3	63
16	Raman spectral signature reflects transcriptomic features of antibiotic resistance in <i>Escherichia coli</i> . <i>Communications Biology</i> , 2018, 1, 85.	4.4	62
17	Application of tip-enhanced microscopy for nonlinear Raman spectroscopy. <i>Applied Physics Letters</i> , 2004, 84, 1768-1770.	3.3	61
18	Confinement of enhanced field investigated by tip-sample gap regulation in tapping-mode tip-enhanced Raman microscopy. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	51

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19	Nanoanalysis of crystalline properties of GaN thin film using tip-enhanced Raman spectroscopy. Applied Physics Letters, 2007, 90, 061906.	3.3	46
20	Dependence of fluorescent protein brightness on protein concentration in solution and enhancement of it. Scientific Reports, 2016, 6, 22342.	3.3	44
21	Oxygen-assisted shape control in polyol synthesis of silver nanocrystals. Chemical Physics Letters, 2008, 462, 92-95.	2.6	37
22	Far-field free tapping-mode tip-enhanced Raman microscopy. Applied Physics Letters, 2013, 102, .	3.3	35
23	Culturing of mouse and human cells on soft substrates promote the expression of stem cell markers. Journal of Bioscience and Bioengineering, 2014, 117, 749-755.	2.2	32
24	Near-Field Optics and Spectroscopy for Molecular Nano-Imaging. Science Progress, 2004, 87, 25-50.	1.9	20
25	Visualizing the appearance and disappearance of the attractor of differentiation using Raman spectral imaging. Scientific Reports, 2015, 5, 11358.	3.3	19
26	Engineering strain-sensitive yellow fluorescent protein. Chemical Communications, 2012, 48, 7871.	4.1	17
27	Linking substrate and nucleus via actin cytoskeleton in pluripotency maintenance of mouse embryonic stem cells. Stem Cell Research, 2019, 41, 101614.	0.7	16
28	Full control of polarization state with a pair of electro-optic modulators for polarization-resolved optical microscopy. Applied Optics, 2016, 55, 1082.	2.1	15
29	Raman spectroscopy as a tool for ecology and evolution. Journal of the Royal Society Interface, 2017, 14, 20170174.	3.4	14
30	Protein expression guided chemical profiling of living cells by the simultaneous observation of Raman scattering and anti-Stokes fluorescence emission. Scientific Reports, 2017, 7, 43569.	3.3	13
31	Nano-scale measurement of biomolecules by optical microscopy and semiconductor nanoparticles. Frontiers in Physiology, 2014, 5, 273.	2.8	12
32	Exploring rare cellular activity in more than one million cells by a transscale scope. Scientific Reports, 2021, 11, 16539.	3.3	11
33	Active Control of the Oxidization of a Silicon Cantilever for the Characterization of Silicon-based Semiconductors. Chemistry Letters, 2008, 37, 122-123.	1.3	8
34	Halide-ion-assisted increase of surface-enhanced hyper-Raman scattering: a clear observation of the chemical effect. Journal of Raman Spectroscopy, 2009, 40, 119-120.	2.5	8
35	Subnanometric stabilization of plasmon-enhanced optical microscopy. Nanotechnology, 2012, 23, 205503.	2.6	8
36	Simultaneous nano-tracking of multiple motor proteins via spectral discrimination of quantum dots. Biomedical Optics Express, 2016, 7, 2475.	2.9	8

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37	Cell type discrimination based on image features of molecular component distribution. Scientific Reports, 2018, 8, 11726.	3.3	8
38	Gene dynamics of core transcription factors for pluripotency in embryonic stem cells. Journal of Bioscience and Bioengineering, 2015, 119, 406-409.	2.2	7
39	Direct Evidence of Chemical Contribution to Surface-enhanced Hyper-Raman Scattering. Applied Physics Express, 0, 1, 092401.	2.4	6
40	Chromatin plasticity as a differentiation index during muscle differentiation of C2C12 myoblasts. Biochemical and Biophysical Research Communications, 2012, 418, 742-747.	2.1	6
41	Second harmonic generation polarization microscopy as a tool for protein structure analysis. Biophysics and Physicobiology, 2019, 16, 147-157.	1.0	6
42	TIP-ENHANCED NEAR-FIELD CARS MICROSCOPY. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 593-599.	1.8	5
43	Simple and Versatile Route to High Yield Face-to-Face Dimeric Assembly of Ag Nanocubes and Their Surface Plasmonic Properties. Journal of Nanoscience and Nanotechnology, 2011, 11, 2890-2896.	0.9	4
44	Tip-enhanced near-field CARS microscopy for molecular nano-imaging. , 2005, 5700, 52.		1
45	Label-Free Observation of Single Microtubules by Means of SHG Microscopy. Biophysical Journal, 2014, 106, 351a.	0.5	1
46	Near-field effects in tip-enhanced Raman scattering. , 2007, , 87-113.		1
47	Chapter 3 Near-field effects in tip-enhanced Raman scattering. Advances in Nano-optics and Nano-photonics, 2006, , 87-113.	0.0	1
48	Coherent anti-Stokes Raman spectroscopy for nano-imaging with a metallic near-field probe. , 2004, 5516, 1.		0
49	Raman, CARS and near-field Raman-CARS microscopy for cellular and molecular imaging. Handai Nanophotonics, 2007, 3, 57-71.	0.0	0
50	3P303 Tip enhanced Raman spectroscopy for nano-analysis of biomolecules(Bioimaging. The genesis of) Tj ETQq0 0.0 rgBT /Overlock 10	0.1	0
51	Toward single molecule detection through tip-enhanced near-field Raman spectroscopy. Proceedings of SPIE, 2008, , .	0.8	0
52	TERS in the Sub-Nanometric Vicinity of a Metallic Tip. , 2010, , .		0
53	Experimental Identification of Chemical Effects in Surface Enhanced Raman Scattering of 4-Aminothiophenol. , 2010, , .		0
54	CARS Microscopy: Implementation of Nonlinear Vibrational Spectroscopy for Far-Field and Near-Field Imaging. Springer Series in Optical Sciences, 2012, , 317-346.	0.7	0

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55	Distinct Modulated Pupil Function System for Real-Time Imaging of Living Cells. PLoS ONE, 2012, 7, e44028.	2.5	0
56	Engineering Strain-Sensitive Yellow Fluorescent Protein. Biophysical Journal, 2013, 104, 340a.	0.5	0
57	Evaluating Intracellular Crowded with a Glycine-Inserted Mutant Fluorescent Protein. Biophysical Journal, 2014, 106, 19a.	0.5	0
58	Simultaneous Tracking of Multiple Myosins in Sub-Diffraction Scale Based on Spectral Division. Biophysical Journal, 2014, 106, 570a.	0.5	0
59	Toward Predicting Gene Expression and Metabolic Functions from Label-Free Raman Imaging of Living Cells. Biophysical Journal, 2020, 118, 347a.	0.5	0
60	Symposium report: understanding biological systems with quantum science and technology. Biophysical Reviews, 2020, 12, 287-289.	3.2	0
61	Nano-Raman spectroscopy of biomolecules. The Review of Laser Engineering, 2008, 36, S13-S14.	0.0	0
62	Near-Field Raman Microscopy for Nanometric Observation. Seibutsu Butsuri, 2010, 50, 300-301.	0.1	0
63	Plasmonic color nano-imaging of strain distribution in nanomaterials. , 2011, , .		0
64	Measurement of Cellular State by Raman Microscopy. Seibutsu Butsuri, 2014, 54, 315-317.	0.1	0
65	Non-label bioimaging utilizing scattering lights. , 2017, , .		0