

Norihiko Hayazawa

List of Publications by Year in descending order

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88
papers

4,640
citations

136740

32
h-index

98622

67
g-index

89
all docs

89
docs citations

89
times ranked

3407
citing authors

#	ARTICLE	IF	CITATIONS
1	Metallized tip amplification of near-field Raman scattering. <i>Optics Communications</i> , 2000, 183, 333-336.	1.0	634
2	Tip-Enhanced Coherent Anti-Stokes Raman Scattering for Vibrational Nanoimaging. <i>Physical Review Letters</i> , 2004, 92, 220801.	2.9	380
3	DFT Vibrational Calculations of Rhodamine 6G Adsorbed on Silver: Analysis of Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2005, 109, 5012-5020.	1.2	349
4	Near-field Raman scattering enhanced by a metallized tip. <i>Chemical Physics Letters</i> , 2001, 335, 369-374.	1.2	252
5	Detection and characterization of longitudinal field for tip-enhanced Raman spectroscopy. <i>Applied Physics Letters</i> , 2004, 85, 6239-6241.	1.5	244
6	A 1.7-nm resolution chemical analysis of carbon nanotubes by tip-enhanced Raman imaging in the ambient. <i>Nature Communications</i> , 2014, 5, 3312.	5.8	238
7	Detection of an individual single-wall carbon nanotube by tip-enhanced near-field Raman spectroscopy. <i>Chemical Physics Letters</i> , 2003, 376, 174-180.	1.2	213
8	Deep-UV tip-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1324-1330.	1.2	165
9	Tip-enhanced near-field Raman analysis of tip-pressurized adenine molecule. <i>Physical Review B</i> , 2004, 69, .	1.1	128
10	Single-molecule resonance Raman effect in a plasmonic nanocavity. <i>Nature Nanotechnology</i> , 2020, 15, 105-110.	15.6	123
11	Near-field enhanced Raman spectroscopy using side illumination optics. <i>Journal of Applied Physics</i> , 2002, 92, 6983-6986.	1.1	89
12	Nanoscale characterization of strained silicon by tip-enhanced Raman spectroscopy in reflection mode. <i>Applied Physics Letters</i> , 2006, 88, 143109.	1.5	89
13	Evanescent field excitation and measurement of dye fluorescence in a metallic probe near-field scanning optical microscope. <i>Journal of Microscopy</i> , 1999, 194, 472-476.	0.8	80
14	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.	1.2	78
15	Polarization measurements in tip-enhanced Raman spectroscopy applied to single-walled carbon nanotubes. <i>Chemical Physics Letters</i> , 2005, 410, 136-141.	1.2	77
16	Towards atomic site-selective sensitivity in tip-enhanced Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2006, 125, 244706.	1.2	75
17	Plasmonic Enhancement of Raman Scattering on Non-SERS-Active Platinum Substrates. <i>Journal of Physical Chemistry C</i> , 2009, 113, 11816-11821.	1.5	72
18	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.	1.1	71

#	ARTICLE	IF	CITATIONS
19	<title>Near-field scanning optical microscope using a metallized cantilever tip for nanospectroscopy</title>. , 1999, , .		65
20	Highly reproducible tip-enhanced Raman scattering using an oxidized and metallized silicon cantilever tip as a tool for everyone. Journal of Raman Spectroscopy, 2012, 43, 1177-1182.	1.2	64
21	Local enhancement of coherent anti-Stokes Raman scattering by isolated gold nanoparticles. Journal of Raman Spectroscopy, 2003, 34, 651-654.	1.2	63
22	Strain and composition effects on Raman vibrational modes of silicon-germanium-tin ternary alloys. Applied Physics Letters, 2013, 103, .	1.5	63
23	Application of tip-enhanced microscopy for nonlinear Raman spectroscopy. Applied Physics Letters, 2004, 84, 1768-1770.	1.5	61
24	Controlling the plasmon resonance wavelength in metal-coated probe using refractive index modification. Optics Express, 2009, 17, 6509.	1.7	57
25	Confinement of enhanced field investigated by tip-sample gap regulation in tapping-mode tip-enhanced Raman microscopy. Applied Physics Letters, 2007, 91, .	1.5	51
26	Tip-enhanced Raman spectroscopy for nanoscale strain characterization. Analytical and Bioanalytical Chemistry, 2009, 394, 1775-1785.	1.9	49
27	Apertureless optical near-field fabrication using an atomic force microscope on photoresists. Applied Physics Letters, 2002, 80, 3400-3402.	1.5	43
28	Highly sensitive strain detection in strained silicon by surface-enhanced Raman spectroscopy. Applied Physics Letters, 2005, 86, 263114.	1.5	39
29	Nanomovement of Azo Polymers Induced by Longitudinal Fields. ACS Photonics, 2014, 1, 190-197.	3.2	39
30	Depolarization effect in reflection-mode tip-enhanced Raman scattering for Raman active crystals. Journal of Applied Physics, 2008, 103, 034309.	1.1	38
31	Tip-enhanced broadband CARS spectroscopy and imaging using a photonic crystal fiber based broadband light source. Journal of Raman Spectroscopy, 2012, 43, 656-661.	1.2	36
32	Mapping the "Forbidden" Transverse-Optical Phonon in Single Strained Silicon (100) Nanowire. Nano Letters, 2011, 11, 4780-4788.	4.5	35
33	Highly efficient tip-enhanced Raman spectroscopy and microscopy of strained silicon. Review of Scientific Instruments, 2008, 79, 013706.	0.6	34
34	Stress imaging of semiconductor surface by tip-enhanced Raman spectroscopy. Journal of Microscopy, 2008, 229, 217-222.	0.8	32
35	Orientational Imaging of Single Molecules by Using Azimuthal and Radial Polarizations. Journal of Physical Chemistry B, 2010, 114, 2565-2571.	1.2	32
36	Systematic Assessment of Benzenethiol Self-Assembled Monolayers on Au(111) as a Standard Sample for Electrochemical Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2019, 123, 2953-2963.	1.5	30

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37	Tip-enhanced THz Raman spectroscopy for local temperature determination at the nanoscale. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 8205-8213.	1.9	28
38	Plasmonically Nanoconfined Light Probing Invisible Phonon Modes in Defect-Free Graphene. <i>Journal of the American Chemical Society</i> , 2013, 135, 11489-11492.	6.6	27
39	Vibrational Analysis of Organic Molecules Encapsulated in Carbon Nanotubes by Tip-Enhanced Raman Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2006, 45, 9286-9289.	0.8	26
40	Nanoscale patterning induced strain redistribution in ultrathin strained Si layers on oxide. <i>Nanotechnology</i> , 2010, 21, 134013.	1.3	26
41	UV-Raman imaging of the in-plane strain in single ultrathin strained silicon-on-insulator patterned structure. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	26
42	Tip-enhanced two-photon excited fluorescence microscopy with a silicon tip. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	25
43	Nanoscale Dehydrogenation Observed by Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18162-18168.	1.5	22
44	Focused Excitation of Surface Plasmon Polaritons Based on Gap-Mode in Tip-Enhanced Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2007, 46, 7995.	0.8	21
45	Chemical Identification and Bond Control of C-Skeletons in a Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 9461-9467.	6.6	19
46	One-photon and two-photon excited fluorescence microscopies based on polarization-control: Applications to tip-enhanced microscopy. <i>Journal of Applied Physics</i> , 2009, 106, .	1.1	18
47	Resonant hyper-Raman scattering from carbon nanotubes. <i>Chemical Physics Letters</i> , 2007, 438, 109-112.	1.2	16
48	Angular Goos-Hänchen Shift Sensor Using a Gold Film Enhanced by Surface Plasmon Resonance. <i>Journal of Physical Chemistry A</i> , 2021, 125, 451-458.	1.1	16
49	Visualization of subnanometric phonon modes in a plasmonic nano-cavity via ambient tip-enhanced Raman spectroscopy. <i>Npj 2D Materials and Applications</i> , 2019, 3, .	3.9	12
50	Homogeneous Dispersion of Aromatic Thiolates in the Binary Self-Assembled Monolayer on Au(111) via Displacement Revealed by Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2020, 124, 13141-13149.	1.5	12
51	Tip-heating-assisted Raman spectroscopy at elevated temperatures. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 992-997.	1.2	11
52	Nanometric locking of the tight focus for optical microscopy and tip-enhanced microscopy. <i>Nanotechnology</i> , 2012, 23, 465203.	1.3	11
53	Development of tip-enhanced Raman spectroscopy based on a scanning tunneling microscope in a controlled ambient environment. <i>Japanese Journal of Applied Physics</i> , 2019, 58, S10801.	0.8	10
54	Development of Tip-Enhanced Near-Field Optical Spectroscopy and Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JA02.	0.8	9

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55	Generation of broadband longitudinal fields for applications to ultrafast tip-enhanced near-field microscopy. <i>Optics Express</i> , 2011, 19, 25328.	1.7	9
56	Facet-Dependent Temporal and Spatial Changes in Boron-Doped Diamond Film Electrodes due to Anodic Corrosion. <i>Journal of Physical Chemistry C</i> , 2017, 121, 26742-26750.	1.5	9
57	Active Control of the Oxidization of a Silicon Cantilever for the Characterization of Silicon-based Semiconductors. <i>Chemistry Letters</i> , 2008, 37, 122-123.	0.7	8
58	Stress redistribution in individual ultrathin strained silicon nanowires: a high-resolution polarized Raman study. <i>New Journal of Physics</i> , 2013, 15, 053042.	1.2	8
59	Direct Optical Mapping of Anisotropic Stresses in Nanowires Using Transverse Optical Phonon Splitting. <i>Nano Letters</i> , 2014, 14, 3793-3798.	4.5	8
60	True bulk As-antisite defect in GaAs(111 $\bar{0}$) identified by DFT calculations and probed by STM/STS measurements. <i>Applied Surface Science</i> , 2020, 511, 145590.	3.1	8
61	Position, orientation, and relative quantum yield ratio determination of fluorescent nanoemitters via combined laser scanning microscopy and polarization measurements. <i>Optical Materials Express</i> , 2018, 8, 1290.	1.6	7
62	Self-Consistent Tip Conditioning for Tip-Enhanced Raman Spectroscopy in an Ambient Environment. <i>Journal of Physical Chemistry C</i> , 2020, 124, 23243-23252.	1.5	7
63	Monatomic Iodine Dielectric Layer for Multimodal Optical Spectroscopy of Dye Molecules on Metal Surfaces. <i>Journal of the American Chemical Society</i> , 2021, 143, 15205-15214.	6.6	7
64	Two-beam multiplexed CARS based on a broadband oscillator. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 840-847.	1.2	6
65	Atomically-resolved interface imaging and terahertz emission measurements of gallium arsenide epilayers. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	6
66	TIP-ENHANCED NEAR-FIELD CARS MICROSCOPY. <i>Journal of Nonlinear Optical Physics and Materials</i> , 2004, 13, 593-599.	1.1	5
67	Localized Graphitization on Diamond Surface as a Manifestation of Dopants. <i>Advanced Materials</i> , 2021, 33, e2103250.	11.1	5
68	Tip-Enhanced Raman Spectroscopy. , 2012, , 445-476.		4
69	Site-Selective Cutting of Carbon Nanotubes by Laser Heated Silicon Tip. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 025003.	0.8	3
70	EXPRESS: Controlling the Resonance Raman Effect in Tip-Enhanced Raman Spectroscopy Using a Thin Insulating Film. <i>Applied Spectroscopy</i> , 2020, 74, 000370282093836.	1.2	3
71	Molecular Monolayer Sensing Using Surface Plasmon Resonance and Angular Goos-Hänchen Shift. <i>Sensors</i> , 2021, 21, 4593.	2.1	3
72	Underpotential Deposition of Silver on Gold for Surface Catalysis of Plasmon-Enhanced Reduction of 4-Nitrothiophenol. <i>Journal of Physical Chemistry C</i> , 2021, 125, 16569-16575.	1.5	3

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73	STM-Tip-Enhanced Raman Spectroscopy toward Single Molecule Scale. ACS Symposium Series, 2016, , 139-181.	0.5	2
74	Chapter 8 Near-field nano-Raman spectroscopy for molecular analysis and imaging. Handai Nanophotonics, 2004, 1, 121-138.	0.0	1
75	Tip-Enhanced Spectroscopy for Nano Investigation of Molecular Vibrations. Nanoscience and Technology, 2007, , 257-285.	1.5	1
76	Tip-Enhanced Spectroscopy at the Nanoscale. , 2013, , 1-40.		1
77	Single-Molecule Resonance Raman Spectroscopy. Vacuum and Surface Science, 2021, 64, 34-39.	0.0	1
78	Mid-infrared imaging through up-conversion luminescence in trivalent lanthanide ion-doped self-organizing optical fiber array crystal. Optics Letters, 2021, 46, 941.	1.7	1
79	Atomically Precise Delineation of As Antisite Defect States from Undoped Gallium Arsenide Host Lattice by Scanning Tunneling Microscopy and Spectroscopy Measurements and Density Functional Theory Calculations. Physica Status Solidi (B): Basic Research, 0, , 2100652.	0.7	1
80	Near-field enhanced Raman spectroscopy by a metallized cantilever tip. , 0, , .		0
81	Specific Raman band shift caused by mechano-chemical effect in tip-enhanced near-field Raman spectroscopy. Handai Nanophotonics, 2006, , 81-100.	0.0	0
82	Tip-enhanced Raman spectroscopy with atomic site-selective sensitivity. , 2007, , .		0
83	DUV Tip-Enhancement in Resonance Raman Scattering using Aluminum Probes. , 2010, , .		0
84	Broadband near-field nonlinear Raman spectroscopy and nanoscopy. , 2011, , .		0
85	Tip-Enhanced Near-Field Spectroscopy. Hyomen Kagaku, 2013, 34, 580-585.	0.0	0
86	Tip-Enhanced Raman Scattering. , 2018, , 755-761.		0
87	Development of Electrochemical Tip-Enhanced Raman Spectroscopy for Chemical Analysis at the Electrified Interfaces. Vacuum and Surface Science, 2020, 63, 277-282.	0.0	0
88	Effect of detection angle and substrate in the polarization analysis of dipole emission. Journal of the Optical Society of America B: Optical Physics, 0, , .	0.9	0