

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	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
2	Single-Molecule Resonance Raman Spectroscopy. <i>Vacuum and Surface Science</i> , 2021, 64, 34-39.	0.0	1
3	Mid-infrared imaging through up-conversion luminescence in trivalent lanthanide ion-doped self-organizing optical fiber array crystal. <i>Optics Letters</i> , 2021, 46, 941.	1.7	1
4	Chemical Identification and Bond Control of β -Skeletons in a Coupling Reaction. <i>Journal of the American Chemical Society</i> , 2021, 143, 9461-9467.	6.6	19
5	Molecular Monolayer Sensing Using Surface Plasmon Resonance and Angular Goos-Hänchen Shift. <i>Sensors</i> , 2021, 21, 4593.	2.1	3
6	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
7	Localized Graphitization on Diamond Surface as a Manifestation of Dopants. <i>Advanced Materials</i> , 2021, 33, e2103250.	11.1	5
8	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
9	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
10	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
11	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
12	Single-molecule resonance Raman effect in a plasmonic nanocavity. <i>Nature Nanotechnology</i> , 2020, 15, 105-110.	15.6	123
13	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
14	Development of Electrochemical Tip-Enhanced Raman Spectroscopy for Chemical Analysis at the Electrified Interfaces. <i>Vacuum and Surface Science</i> , 2020, 63, 277-282.	0.0	0
15	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
16	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
17	Atomically-resolved interface imaging and terahertz emission measurements of gallium arsenide epilayers. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	6
18	Systematic Assessment of Benzenethiol Self-Assembled Monolayers on Au(111) as a Standard Sample for Electrochemical Tip-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2019, 123, 2953-2963.	1.5	30

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19	Tip-Enhanced Raman Scattering. , 2018, , 755-761.		0
20	Position, orientation, and relative quantum yield ratio determination of fluorescent nanoemitters via combined laser scanning microscopy and polarization measurements. Optical Materials Express, 2018, 8, 1290.	1.6	7
21	Nanoscale Dehydrogenation Observed by Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 18162-18168.	1.5	22
22	Facet-Dependent Temporal and Spatial Changes in Boron-Doped Diamond Film Electrodes due to Anodic Corrosion. Journal of Physical Chemistry C, 2017, 121, 26742-26750.	1.5	9
23	STM-Tip-Enhanced Raman Spectroscopy toward Single Molecule Scale. ACS Symposium Series, 2016, , 139-181.	0.5	2
24	Tip-enhanced THz Raman spectroscopy for local temperature determination at the nanoscale. Analytical and Bioanalytical Chemistry, 2015, 407, 8205-8213.	1.9	28
25	A 1.7â€%nm resolution chemical analysis of carbon nanotubes by tip-enhanced Raman imaging in the ambient. Nature Communications, 2014, 5, 3312.	5.8	238
26	Direct Optical Mapping of Anisotropic Stresses in Nanowires Using Transverse Optical Phonon Splitting. Nano Letters, 2014, 14, 3793-3798.	4.5	8
27	Nanomovement of Azo Polymers Induced by Longitudinal Fields. ACS Photonics, 2014, 1, 190-197.	3.2	39
28	Plasmonically Nanoconfined Light Probing Invisible Phonon Modes in Defect-Free Graphene. Journal of the American Chemical Society, 2013, 135, 11489-11492.	6.6	27
29	Stress redistribution in individual ultrathin strained silicon nanowires: a high-resolution polarized Raman study. New Journal of Physics, 2013, 15, 053042.	1.2	8
30	Strain and composition effects on Raman vibrational modes of silicon-germanium-tin ternary alloys. Applied Physics Letters, 2013, 103, .	1.5	63
31	Tip-Enhanced Near-Field Spectroscopy. Hyomen Kagaku, 2013, 34, 580-585.	0.0	0
32	Tip-Enhanced Spectroscopy at the Nanoscale. , 2013, , 1-40.		1
33	Nanometric locking of the tight focus for optical microscopy and tip-enhanced microscopy. Nanotechnology, 2012, 23, 465203.	1.3	11
34	Tip-Enhanced Raman Spectroscopy. , 2012, , 445-476.		4
35	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
36	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

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37	Generation of broadband longitudinal fields for applications to ultrafast tip-enhanced near-field microscopy. <i>Optics Express</i> , 2011, 19, 25328.	1.7	9
38	Mapping the "Forbidden" Transverse-Optical Phonon in Single Strained Silicon (100) Nanowire. <i>Nano Letters</i> , 2011, 11, 4780-4788.	4.5	35
39	Tip-enhanced Raman spectroscopy at elevated temperatures. <i>Journal of Raman Spectroscopy</i> , 2011, 42, 992-997.	1.2	11
40	Broadband near-field nonlinear Raman spectroscopy and nanoscopy. , 2011, , .		0
41	Two-beam multiplexed CARS based on a broadband oscillator. <i>Journal of Raman Spectroscopy</i> , 2010, 41, 840-847.	1.2	6
42	Site-Selective Cutting of Carbon Nanotubes by Laser Heated Silicon Tip. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 025003.	0.8	3
43	Nanoscale patterning induced strain redistribution in ultrathin strained Si layers on oxide. <i>Nanotechnology</i> , 2010, 21, 134013.	1.3	26
44	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
45	DUV Tip-Enhancement in Resonance Raman Scattering using Aluminum Probes. , 2010, , .		0
46	Orientational Imaging of Single Molecules by Using Azimuthal and Radial Polarizations. <i>Journal of Physical Chemistry B</i> , 2010, 114, 2565-2571.	1.2	32
47	Tip-enhanced two-photon excited fluorescence microscopy with a silicon tip. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	25
48	Development of Tip-Enhanced Near-Field Optical Spectroscopy and Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 08JA02.	0.8	9
49	Deep-UV tip-enhanced Raman scattering. <i>Journal of Raman Spectroscopy</i> , 2009, 40, 1324-1330.	1.2	165
50	Tip-enhanced Raman spectroscopy for nanoscale strain characterization. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 394, 1775-1785.	1.9	49
51	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
52	Controlling the plasmon resonance wavelength in metal-coated probe using refractive index modification. <i>Optics Express</i> , 2009, 17, 6509.	1.7	57
53	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
54	Stress imaging of semiconductor surface by tip-enhanced Raman spectroscopy. <i>Journal of Microscopy</i> , 2008, 229, 217-222.	0.8	32

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55	Highly efficient tip-enhanced Raman spectroscopy and microscopy of strained silicon. Review of Scientific Instruments, 2008, 79, 013706.	0.6	34
56	Depolarization effect in reflection-mode tip-enhanced Raman scattering for Raman active crystals. Journal of Applied Physics, 2008, 103, 034309.	1.1	38
57	Active Control of the Oxidization of a Silicon Cantilever for the Characterization of Silicon-based Semiconductors. Chemistry Letters, 2008, 37, 122-123.	0.7	8
58	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
59	Focused Excitation of Surface Plasmon Polaritons Based on Gap-Mode in Tip-Enhanced Spectroscopy. Japanese Journal of Applied Physics, 2007, 46, 7995.	0.8	21
60	Tip-Enhanced Spectroscopy for Nano Investigation of Molecular Vibrations. Nanoscience and Technology, 2007, , 257-285.	1.5	1
61	Tip-enhanced Raman spectroscopy with atomic site-selective sensitivity. , 2007, , .		0
62	Visualization of localized strain of a crystalline thin layer at the nanoscale by tip-enhanced Raman spectroscopy and microscopy. Journal of Raman Spectroscopy, 2007, 38, 684-696.	1.2	78
63	Resonant hyper-Raman scattering from carbon nanotubes. Chemical Physics Letters, 2007, 438, 109-112.	1.2	16
64	Towards atomic site-selective sensitivity in tip-enhanced Raman spectroscopy. Journal of Chemical Physics, 2006, 125, 244706.	1.2	75
65	Specific Raman band shift caused by mechano-chemical effect in tip-enhanced near-field Raman spectroscopy. Handai Nanophotonics, 2006, , 81-100.	0.0	0
66	Vibrational Analysis of Organic Molecules Encapsulated in Carbon Nanotubes by Tip-Enhanced Raman Spectroscopy. Japanese Journal of Applied Physics, 2006, 45, 9286-9289.	0.8	26
67	Nanoscale characterization of strained silicon by tip-enhanced Raman spectroscopy in reflection mode. Applied Physics Letters, 2006, 88, 143109.	1.5	89
68	Polarization measurements in tip-enhanced Raman spectroscopy applied to single-walled carbon nanotubes. Chemical Physics Letters, 2005, 410, 136-141.	1.2	77
69	Highly sensitive strain detection in strained silicon by surface-enhanced Raman spectroscopy. Applied Physics Letters, 2005, 86, 263114.	1.5	39
70	DFT Vibrational Calculations of Rhodamine 6G Adsorbed on Silver: Analysis of Tip-Enhanced Raman Spectroscopy. Journal of Physical Chemistry B, 2005, 109, 5012-5020.	1.2	349
71	Amplification of coherent anti-Stokes Raman scattering by a metallic nanostructure for a high resolution vibration microscopy. Journal of Applied Physics, 2004, 95, 2676-2681.	1.1	71
72	Chapter 8 Near-field nano-Raman spectroscopy for molecular analysis and imaging. Handai Nanophotonics, 2004, 1, 121-138.	0.0	1

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73	TIP-ENHANCED NEAR-FIELD CARS MICROSCOPY. Journal of Nonlinear Optical Physics and Materials, 2004, 13, 593-599.	1.1	5
74	Application of tip-enhanced microscopy for nonlinear Raman spectroscopy. Applied Physics Letters, 2004, 84, 1768-1770.	1.5	61
75	Tip-Enhanced Coherent Anti-Stokes Raman Scattering for Vibrational Nanoimaging. Physical Review Letters, 2004, 92, 220801.	2.9	380
76	Detection and characterization of longitudinal field for tip-enhanced Raman spectroscopy. Applied Physics Letters, 2004, 85, 6239-6241.	1.5	244
77	Tip-enhanced near-field Raman analysis of tip-pressurized adenine molecule. Physical Review B, 2004, 69, .	1.1	128
78	Local enhancement of coherent anti-Stokes Raman scattering by isolated gold nanoparticles. Journal of Raman Spectroscopy, 2003, 34, 651-654.	1.2	63
79	Detection of an individual single-wall carbon nanotube by tip-enhanced near-field Raman spectroscopy. Chemical Physics Letters, 2003, 376, 174-180.	1.2	213
80	Apertureless optical near-field fabrication using an atomic force microscope on photoresists. Applied Physics Letters, 2002, 80, 3400-3402.	1.5	43
81	Near-field enhanced Raman spectroscopy using side illumination optics. Journal of Applied Physics, 2002, 92, 6983-6986.	1.1	89
82	Near-field Raman scattering enhanced by a metallized tip. Chemical Physics Letters, 2001, 335, 369-374.	1.2	252
83	Metallized tip amplification of near-field Raman scattering. Optics Communications, 2000, 183, 333-336.	1.0	634
84	<title>Near-field scanning optical microscope using a metallized cantilever tip for nanospectroscopy</title>. , 1999, , .		65
85	Evanescent field excitation and measurement of dye fluorescence in a metallic probe near-field scanning optical microscope. Journal of Microscopy, 1999, 194, 472-476.	0.8	80
86	Near-field enhanced Raman spectroscopy by a metallized cantilever tip. , 0, , .		0
87	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
88	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