

Yoich Uehara

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101
papers

1,166
citations

18
h-index

30
g-index

104
ext. papers

1,196
ext. citations

2.6
avg, IF

3.82
L-index

#	Paper	IF	Citations
101	Theory of Visible Light Emission from Scanning Tunneling Microscope. <i>Japanese Journal of Applied Physics</i> , 1992 , 31, 2465-2469	1.4	102
100	Scanning Tunneling Microscope Light Emission Spectra of Au(110) with Atomic Spatial Resolution. <i>Physical Review Letters</i> , 1999 , 83, 2445-2448	7.4	89
99	Prism-coupled light emission from a scanning tunneling microscope. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1991 , 9, 557		55
98	Visible light emission spectra of individual microstructures of porous Si. <i>Applied Physics Letters</i> , 1995 , 67, 2536-2538	3.4	53
97	STM light emission spectroscopy of surface micro-structures on granular Au films. <i>Surface Science</i> , 1995 , 324, 282-288	1.8	53
96	Preparation of silver tips for scanning tunneling microscopy imaging. <i>Review of Scientific Instruments</i> , 1998 , 69, 4010-4011	1.7	51
95	Excellent uniaxial alignment of poly(9,9-dioctylfluorenyl-2,7-diyl) induced by photoaligned polyimide films. <i>Applied Physics Letters</i> , 2005 , 87, 211910	3.4	42
94	Prism-coupled light emission from tunnel junctions containing interface roughness: Theory. <i>Physical Review B</i> , 1988 , 38, 12948-12958	3.3	33
93	STM light emission spectroscopy of Au film. <i>Applied Surface Science</i> , 1992 , 60-61, 448-453	6.7	29
92	Single molecule spectrum of rhodamine 6G on highly oriented pyrolytic graphite. <i>Applied Physics Letters</i> , 2005 , 86, 181905	3.4	28
91	Prism-coupled light emission from tunnel junctions containing interface roughness: Experiment. <i>Physical Review B</i> , 1988 , 38, 12959-12965	3.3	28
90	Light emission spectra of the monolayer-island of C60 molecules on Au(111) induced by scanning tunneling microscope. <i>Surface Science</i> , 2002 , 502-503, 149-155	1.8	23
89	Light-emission mechanism of Si-MOS tunnel junctions. <i>Physical Review B</i> , 1995 , 51, 2229-2238	3.3	23
88	Identification of O atoms on a Cu(110) surface by scanning tunneling microscope light emission spectra. <i>Physical Review B</i> , 2002 , 66,	3.3	21
87	Light Emission from Si-Metal-Oxide-Semiconductor Tunnel Junctions. <i>Japanese Journal of Applied Physics</i> , 1993 , 32, 99-104	1.4	21
86	Transfer of the in-plane molecular orientation of polyimide film surface to liquid crystal monolayer. <i>Applied Physics Letters</i> , 2005 , 86, 211906	3.4	20
85	Servomechanism for locking scanning tunneling microscope tip over surface nanostructures. <i>Review of Scientific Instruments</i> , 2000 , 71, 420-423	1.7	18

84	Single NbO nano-crystal formation on low temperature annealed Nb(0 0 1) surface. <i>Surface Science</i> , 2001 , 472, 59-62	1.8	18
83	Polyimide photo-alignment layers for inclined homeotropic alignment of liquid crystal molecules. <i>Thin Solid Films</i> , 2008 , 516, 2652-2655	2.2	17
82	Inelastic photoemission due to scattering by surface adsorbate vibrations. <i>Physical Review Letters</i> , 2005 , 95, 207601	7.4	17
81	Nanometer-scale characterization of surface materials by STM light emission spectroscopy. <i>Applied Surface Science</i> , 1996 , 107, 247-254	6.7	17
80	Vibrational Excitation of a Single Benzene Molecule Adsorbed on Cu(110) Studied by Scanning Tunneling Microscope Light Emission Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 2763-2768	6.4	16
79	Vibration of H atomic chains on Ni(110) measured by scanning tunneling microscope light emission spectroscopy. <i>Physical Review Letters</i> , 2004 , 92, 066102	7.4	16
78	Influence of the topmost two layers on the collective excitations of a finite superlattice. <i>Physical Review B</i> , 1994 , 49, 4745-4751	3.3	15
77	Nanoscale coupling of photons to vibrational excitation of Ag nanoparticle 2D array studied by scanning tunneling microscope light emission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 14749-53	3.6	14
76	Identification of electronic transitions localized at a single oxygen atom adsorbed on Cu(110)-(2x1) surface. <i>Solid State Communications</i> , 2001 , 119, 671-674	1.6	14
75	Tip shape dependence of the light emission efficiency for the scanning tunneling microscope. <i>Applied Physics Letters</i> , 2001 , 79, 1718-1720	3.4	14
74	Grating-Coupled Light Emission from the Slow Mode of Metal-Insulator-Metal Tunnel Junctions. <i>Japanese Journal of Applied Physics</i> , 1992 , 31, L870-L873	1.4	14
73	Pretilt Angle of Liquid Crystals on Polyimide Films Photo-Aligned by Single Oblique Angle Irradiation with Un-polarized Light. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 2705-2707	1.4	13
72	Optical Observation of Single-Electron Charging Effect at Room Temperature. <i>Japanese Journal of Applied Physics</i> , 1996 , 35, L167-L170	1.4	11
71	Pretilt angle control of liquid crystal molecules by photoaligned films of azobenzene-containing polyimide with a different content of side-chain. <i>Journal of Applied Physics</i> , 2008 , 104, 113528	2.5	11
70	Two-mode radiation from light-emitting tunnel junctions with surface roughness. <i>Solid State Communications</i> , 1989 , 69, 35-39	1.6	11
69	Prism-Coupled Scanning Tunneling Microscope Light Emission Spectroscopy of Au Film Covered with Self-Assembled Alkanethiol Monolayer. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 08LB09	1.4	10
68	Stability of Azobenzene-Containing Polyimide Film to UV Light. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 6703-6705	1.4	10
67	Finite-Difference Time-Domain Analysis of Scanning Tunneling Microscope Light Emission Spectra. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 095202	1.4	9

66	Relation between the Radius of Tip Curvature and the Light Emission Efficiency from Scanning Tunneling Microscope. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 4912-4913	1.4	9
65	Combined HREELS and Raman study of GaAs-AlAs superlattices. <i>Physical Review B</i> , 1994 , 50, 2346-2353	3.3	9
64	Vibration-induced structures in scanning tunneling microscope light emission spectra of Ni(1 1 0)-streaky (1 \times 1)-H. <i>Surface Science</i> , 2007 , 601, 5643-5648	1.8	8
63	Optical observation of single-electron charging effect in metallic particles. <i>Physical Review B</i> , 2002 , 65,	3.3	8
62	Atomic-site-dependent light emission from Au(110)($\sqrt{3}\times\sqrt{3}$) surface induced by scanning tunneling microscope. <i>Physical Review B</i> , 2002 , 66,	3.3	8
61	Scanning tunneling microscope light emission spectroscopy with picosecond time resolution. <i>Applied Physics Letters</i> , 2000 , 76, 2487-2489	3.4	8
60	Evidence for germanium phosphide dots on Ge(001). <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1999 , 17, 698-703	2.9	8
59	STM light emission spectra of individual nanostructures of porous Si. <i>Surface Science</i> , 1996 , 363, 423-427	1.8	8
58	Power spectra of surface roughness of light emitting tunnel junctions measured by scanning tunneling microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1990 , 8, 557-560	2.9	8
57	Identification of atoms on the Ni(110)($\sqrt{3}\times\sqrt{3}$) O surface by scanning tunneling microscope (STM) light emission spectra. <i>Solid State Communications</i> , 2002 , 122, 451-453	1.6	7
56	Creation and Luminescence of a Single Silver Nanoparticle on Si(111) Investigated by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 28575-28582	3.8	6
55	Detection of the frustrated rotation mode of CO on Cu(0 0 1) by very low energy photoelectron spectroscopy. <i>Surface Science</i> , 2006 , 600, 3536-3539	1.8	6
54	Dynamics of very low energy photoelectrons interacting with image charge of CsCu(111) surface. <i>Physical Review B</i> , 2005 , 72,	3.3	6
53	STM light emission from Si(1 1 1)-(7 \times 7) surface using a silver tip. <i>Applied Surface Science</i> , 2001 , 169-170, 188-192	6.7	6
52	Multiple-scattering effect of surface-plasmon polaritons in light emission from tunnel junctions. <i>Physical Review B</i> , 1995 , 52, 2860-2867	3.3	6
51	High Resolution Time-of-Flight Electron Spectrometer. <i>Japanese Journal of Applied Physics</i> , 1990 , 29, 2858-2863	1.4	6
50	Localized electronic structures of graphene oxide studied using scanning tunneling microscopy and spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 17977-17982	3.6	5
49	Spectroscopic Evidence for Energy Loss of Photoelectrons Interacting with Image Charge. <i>Journal of the Physical Society of Japan</i> , 2007 , 76, 044604	1.5	5

48	Stability of Photo-Induced Alignment of Azobenzene-Containing Polyimides. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 438, 227/[1791]-236[1800]	0.5	5
47	Superconducting niobium tip for scanning tunneling microscope light emission spectroscopy. <i>Review of Scientific Instruments</i> , 2001 , 72, 2097-2099	1.7	5
46	Combined Raman/HREELS study of ZnSe/ZnS strained-layer superlattices. <i>Surface Science</i> , 1993 , 283, 355-359	1.8	5
45	Measurement of phonon energy of Sb ₂ Te ₃ by scanning tunneling microscope light-emission spectroscopy. <i>Solid State Communications</i> , 2014 , 177, 29-32	1.6	4
44	Scanning tunneling microscope light emission spectra of polycrystalline and. <i>Solid State Communications</i> , 2009 , 149, 1902-1904	1.6	4
43	Derivative Spectra of Very Low Energy Photoelectrons from CO/Cu(001) Surface Obtained by a Lock-in Technique. <i>Journal of the Physical Society of Japan</i> , 2006 , 75, 104303	1.5	4
42	Light emission by tunneling Cooper pairs across a vacuum gap. <i>Solid State Communications</i> , 2000 , 116, 539-542	1.6	4
41	Very high resolution photoelectron spectra of NEA-GaAs. <i>Surface Science</i> , 1993 , 283, 457-461	1.8	4
40	Theory of Attenuated Total Reflection Including Effects of Roughness. <i>Japanese Journal of Applied Physics</i> , 2013 , 52, 102001	1.4	3
39	Tip-Enhanced Raman Scattering Spectroscopy of Nanometer-Scale Domains in Ni(110)-(2×1) O Surface. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 110206	1.4	3
38	In-plane order of liquid crystal molecules adsorbed on photoaligned polyimide films: Coverage dependence in submonolayer range. <i>Journal of Applied Physics</i> , 2007 , 101, 013512	2.5	3
37	Molecular orientation of crystalline and glassy polyfluorene layers induced by photo-aligned polyimide films. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006 , 284-285, 635-639 ^{5.1}		3
36	Comparison of Light-Emission Efficiencies from Si/Metal-Oxide-Semiconductor Junctions and from Si in Scanning Tunneling Microscopy. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 4904-4909	1.4	3
35	Combined HREELS, Raman and X-ray diffraction study of short-period GaAs/AlAs superlattices. <i>Surface Science</i> , 1996 , 368, 185-189	1.8	3
34	Mechanism of Prism-Coupled Scanning Tunneling Microscope Light Emission. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 095201	1.4	3
33	In Situ Observation of Atomic-Scale Growth of a NaCl Thin Crystal on Au(111) by Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 20184-20192	3.8	3
32	Localized surface plasmon-induced vibrational excitations in the surface-enhanced Raman scattering using two-dimensional array of silver nanocubes. <i>Journal of Applied Physics</i> , 2020 , 127, 185301 ^{2.5}		2
31	Pump-probe STM light emission spectroscopy for detection of photo-induced semiconductor-metal phase transition of VO. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 405001	1.8	2

30	Investigation of local modification and luminescence of a carbon nanotube by scanning tunneling microscopy. <i>Applied Physics Letters</i> , 2018 , 112, 011601	3.4	2
29	Determining the phonon energy of highly oriented pyrolytic graphite by scanning tunneling microscope light emission spectroscopy. <i>Journal of Applied Physics</i> , 2018 , 123, 104306	2.5	2
28	Capacitance Behavior of Alkanethiol Self-Assembled Monolayer Studied by Scanning Tunneling Microscope Light Emission Spectroscopy. <i>Transactions of the Indian Institute of Metals</i> , 2016 , 69, 1579-1585	1.2	2
27	Classical electricity analysis of the coupling mechanisms between ad molecule vibrations and localized surface plasmons in STM for vibration detectability. <i>Journal of Applied Physics</i> , 2017 , 122, 085306	2.5	2
26	STM-induced light emission from vacuum-evaporated gold film. <i>Bulletin of Materials Science</i> , 2015 , 38, 1271-1276	1.7	2
25	Changes of interlayer exchange coupling in Fe/Si/Fe trilayer structure by photo-irradiation. <i>Physical Review B</i> , 2011 , 83,	3.3	2
24	Geometric Effect in Magnetization Reversal Studied by Spin-Polarized Secondary Electron Microscopy. <i>Japanese Journal of Applied Physics</i> , 2006 , 45, 5004-5008	1.4	2
23	Electromagnetic enhancement effect in scanning tunneling microscope light emission from GaAs. <i>Journal of Applied Physics</i> , 2003 , 93, 3784-3788	2.5	2
22	Electron Energy Loss Spectra Showing the Effects of Surface Roughness and Electromagnetic Retardation Theory and Experiment. <i>Journal of the Physical Society of Japan</i> , 2001 , 70, 2012-2018	1.5	2
21	Time-resolved STM light emission from an evaporated Au film. <i>Applied Surface Science</i> , 2001 , 169-170, 198-201	6.7	2
20	Electron Energy Loss Spectroscopy Theory Including the Effect of Electromagnetic Retardation. <i>Journal of the Physical Society of Japan</i> , 2000 , 69, 2675-2683	1.5	2
19	Selective scanning tunneling microscope light emission from rutile phase of VO ₂ . <i>Journal of Physics Condensed Matter</i> , 2016 , 28, 385002	1.8	2
18	Nanoscale Light Emission Spectroscopy of a Single Carbon Nanotube Adsorbed on Au(111). <i>Journal of the Vacuum Society of Japan</i> , 2016 , 59, 92-95		1
17	Nanoscale Observation of a Single Graphene Oxide layer Using Scanning Tunneling Microscopy. <i>Journal of the Vacuum Society of Japan</i> , 2017 , 60, 495-498		1
16	Excitation power dependence of lifetime of photoluminescence from gold film in the Kretschmann geometry. <i>Journal of Physics: Conference Series</i> , 2010 , 235, 012011	0.3	1
15	Time-Resolved Spectroscopy of Laser-Induced Light Emission from an Evaporated Au Film in the Kretschmann Geometry. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 6114-6116	1.4	1
14	Vibration of H atomic chains on Ni(1 1 0) measured by scanning tunneling microscope (STM) light emission spectroscopy. <i>Surface Science</i> , 2005 , 587, 12-18	1.8	1
13	Inclined Alignment of Polyimide Backbone Structures Induced by Single Exposure of Un-Polarized Light. <i>Molecular Crystals and Liquid Crystals</i> , 2005 , 438, 215/[1779]-226/[1790]	0.5	1

12	Approaching ultrathin VO ₂ films on sapphire (001) substrates by biased reactive sputtering: Characteristic morphology and its effect on the infrared-light switching. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021 , 39, 043401	2.9	1
11	Fabrication and Application of Plasmonic Silver Nanosheet. <i>International Journal of Behavioral and Consultation Therapy</i> , 2012 , 139-157	0.6	1
10	STM Light Emission Spectroscopy of Self-Assembled Monolayer of Alkanethiol on Au Film. <i>Transactions of the Indian Institute of Metals</i> , 2019 , 72, 1221-1229	1.2	
9	Sb ₂ Te ₃ alloy nanostructures produced on a graphite surface by a simple annealing process. <i>Applied Surface Science</i> , 2015 , 346, 366-371	6.7	
8	Vibration-induced structures in scanning tunneling microscope light emission spectra of Ni(110)-(2 × 1) O. <i>Journal of Applied Physics</i> , 2018 , 123, 224302	2.5	
7	Pump-probe scanning-tunneling-microscope light-emission spectroscopy of Sb ₂ Te ₃ . <i>Journal of Applied Physics</i> , 2018 , 124, 075104	2.5	
6	Electromagnetic properties of scanning tunneling microscope tip-sample gap in the terahertz frequency range. <i>Japanese Journal of Applied Physics</i> , 2015 , 54, 08LB06	1.4	
5	Local Density of States of Partially Oxidized Ag(110) Surfaces Observed Using Scanning Tunneling Microscope Light-Emission Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 035702	1.4	
4	Mechanism of Prism-Coupled Scanning Tunneling Microscope Light Emission. <i>Japanese Journal of Applied Physics</i> , 2011 , 50, 095201	1.4	
3	Chapter 12 Identification of surface adsorbates by scanning tunneling microscope light emission spectra. <i>Handai Nanophotonics</i> , 2004 , 1, 187-201		
2	Scanning Tunneling Microscope Light Emission Spectroscopy with Good Signal-to-noise Ratio. <i>Journal of the Vacuum Society of Japan</i> , 2008 , 51, 796-800		
1	Thermally and photoinduced structural and chemical changes of a silver nanocube array on Au(111).. <i>RSC Advances</i> , 2021 , 11, 15847-15855	3.7	