

# Michio Niwano

## List of Publications by Year in descending order

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150  
docs citations

150  
times ranked

3070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Infrared spectroscopy study of initial stages of oxidation of hydrogen-terminated Si surfaces stored in air. Journal of Applied Physics, 1994, 76, 2157-2163.	2.5	213
2	An extensively valid and stable method for derivation of all parameters of a solar cell from a single current-voltage characteristic. Journal of Applied Physics, 2008, 103, .	2.5	160
3	Kinetics of oxidation on hydrogen-terminated Si(100) and (111) surfaces stored in air. Journal of Applied Physics, 1996, 79, 4373.	2.5	111
4	Photoinduced doping effect of pentacene field effect transistor in oxygen atmosphere studied by displacement current measurement. Applied Physics Letters, 2005, 86, 252104.	3.3	87
5	Ab Initio Molecular Dynamics Simulations for Collision between C <sub>60</sub> and Alkali-Metal Ions: A Possibility of Li@C <sub>60</sub> . Physical Review Letters, 1996, 76, 3590-3593.	7.8	85
6	Hydrogen adsorption and desorption on Si(100) and Si(111) surfaces investigated by in situ surface infrared spectroscopy. Surface Science, 1999, 420, 6-16.	1.9	81
7	Characterization of citrates on gold and silver nanoparticles. Journal of Colloid and Interface Science, 2015, 438, 244-248.	9.4	75
8	Impact of modular organization on dynamical richness in cortical networks. Science Advances, 2018, 4, eaau4914.	10.3	74
9	Carrier Injection Characteristics in Organic Field Effect Transistors Studied by Displacement Current Measurement*. Japanese Journal of Applied Physics, 2003, 42, L1275-L1278.	1.5	70
10	Free-Standing Lipid Bilayers in Silicon Chips Membrane Stabilization Based on Microfabricated Apertures with a Nanometer-Scale Smoothness. Langmuir, 2010, 26, 1949-1952.	3.5	70
11	The design of molecular sensing interfaces with lipid-bilayer assemblies. TrAC - Trends in Analytical Chemistry, 2008, 27, 512-520.	11.4	61
12	Surfactant Adsorption on Single-Crystal Silicon Surfaces in TMAH Solution: Orientation-Dependent Adsorption Detected by <i>In Situ</i> Infrared Spectroscopy. Journal of Microelectromechanical Systems, 2009, 18, 1345-1356.	2.5	57
13	Oxidation processes on the H <sub>2</sub> O-chemisorbed Si(100) surface studied by in-situ infrared spectroscopy. Surface Science, 1998, 401, 364-370.	1.9	55
14	Infrared spectroscopic study of initial stages of ultraviolet ozone oxidation of Si(100) and (111) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1994, 12, 465-470.	2.1	52
15	Reconstitution of Human <i>Ether-a-go-go</i> -Related Gene Channels in Microfabricated Silicon Chips. Analytical Chemistry, 2013, 85, 4363-4369.	6.5	51
16	Ambipolar operation of fullerene field-effect transistors by semiconductor/metal interface modification. Journal of Applied Physics, 2005, 97, 104509.	2.5	50
17	Real-time, in situ infrared study of etching of Si(100) and (111) surfaces in dilute hydrofluoric acid solution. Journal of Applied Physics, 1996, 79, 3708-3713.	2.5	48
18	Fabrication of Titanium Oxide Nanotubes by Rapid and Homogeneous Anodization in Perchloric Acid/Ethanol Mixture. Journal of the Electrochemical Society, 2008, 155, K10.	2.9	42

#	ARTICLE	IF	CITATIONS
19	Formation and decomposition of Si hydrides during adsorption of Si <sub>2</sub> H <sub>6</sub> onto Si(100)(2 $\times$ 1). Physical Review B, 2002, 65, .	3.2	41
20	Displacement Current Measurement as a Tool to Characterize Organic Field Effect Transistors. Synthetic Metals, 2005, 153, 253-256.	3.9	41
21	UV Treatment Effect on TiO <sub>2</sub> Electrodes in Dye-Sensitized Solar Cells with N719 Sensitizer Investigated by Infrared Absorption Spectroscopy. Electrochemical and Solid-State Letters, 2008, 11, A109.	2.2	41
22	Infrared Study of Tris(dimethylamino)silane Adsorption and Ozone Irradiation on Si(100) Surfaces for ALD of SiO <sub>2</sub> . Electrochemical and Solid-State Letters, 2007, 10, G80.	2.2	38
23	Oxidation of hydrogen-terminated Si surfaces studied by infrared spectroscopy. Surface Science, 1994, 301, L245-L249.	1.9	35
24	Infrared spectroscopy study of adsorption of silane on Si(). Surface Science, 2002, 502-503, 96-101.	1.9	35
25	Infrared spectroscopy of pentacene thin film on SiO <sub>2</sub> surface. Applied Surface Science, 2005, 244, 607-610.	6.1	34
26	Label-free detection and classification of DNA by surface vibration spectroscopy in conjugation with electrophoresis. Applied Physics Letters, 2005, 86, 053902.	3.3	31
27	Reconstitution of Human Ion Channels into Solvent-free Lipid Bilayers Enhanced by Centrifugal Forces. Biophysical Journal, 2016, 110, 2207-2215.	0.5	30
28	Formation of Cell Membrane Component Domains in Artificial Lipid Bilayer. Scientific Reports, 2017, 7, 17905.	3.3	30
29	Infrared study of adsorption and thermal decomposition of Si <sub>2</sub> H <sub>6</sub> on Si(100). Thin Solid Films, 2000, 369, 16-20.	1.8	29
30	Micro- and Nano-Technologies for Lipid Bilayer-Based Ion Channel Functional Assays. Chemistry - an Asian Journal, 2015, 10, 1266-1274.	3.3	29
31	Unveil the Full Potential of Integrated-Back-Contact Perovskite Solar Cells Using Numerical Simulation. ACS Applied Energy Materials, 2018, 1, 970-975.	5.1	29
32	Optical Properties of CeO <sub>2</sub> Crystal in the Photon Energy Range of 2.5 $\sim$ 40 eV. Journal of the Physical Society of Japan, 1988, 57, 1489-1496.	1.6	28
33	Hydrogen adsorption and desorption processes on Si(100). Applied Surface Science, 1998, 130-132, 260-265.	6.1	28
34	Label-Free Detection of Protein-Protein Interactions at the GaAs/Water Interface through Surface Infrared Spectroscopy: Discrimination between Specific and Nonspecific Interactions by Using Secondary Structure Analysis. Langmuir, 2007, 23, 12287-12292.	3.5	28
35	In situ infrared study of chemical state of Si surface in etching solution. Applied Physics Letters, 1994, 65, 1692-1694.	3.3	27
36	Initial stages of oxidation of hydrogen-terminated Si surface stored in air. Applied Surface Science, 1996, 100-101, 454-459.	6.1	26

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37	Synchrotronâ€radiationâ€induced decomposition of thin native oxide films on Si(100). Journal of Applied Physics, 1990, 68, 5576-5583.	2.5	25
38	Effects of interfacial chemical states on the performance of perovskite solar cells. Journal of Materials Chemistry A, 2016, 4, 4392-4397.	10.3	25
39	Photoinduced Doping of Organic Field Effect Transistors Studied by Displacement Current Measurement and Infrared Absorption Spectroscopy in Multiple Internal Reflection Geometry. Japanese Journal of Applied Physics, 2006, 45, 530-533.	1.5	24
40	Characterization of Bulk Nanobubbles Formed by Using a Porous Alumina Film with Ordered Nanopores. Journal of Physical Chemistry B, 2020, 124, 5067-5072.	2.6	24
41	Low-Temperature Cleaning of HF-Passivated Si(111) Surface with VUV Light. Japanese Journal of Applied Physics, 1989, 28, L1274-L1277.	1.5	23
42	In Situ Infrared Observation of Etching and Oxidation Processes on Si Surfaces in NH[sub 4]F Solution. Journal of the Electrochemical Society, 2000, 147, 1555.	2.9	23
43	Adsorption Density Control of N719 on TiO[sub 2] Electrodes for Highly Efficient Dye-Sensitized Solar Cells. Journal of the Electrochemical Society, 2009, 156, B987.	2.9	23
44	Investigation of Influence of Electrolyte Composition on Formation of Anodic Titanium Oxide Nanotube Films. Journal of the Electrochemical Society, 2012, 159, D629-D636.	2.9	23
45	Photoelectron Yield Spectroscopy for Electronic Structures of Organic Electronic Materials and their Interfaces. Hyomen Kagaku, 2007, 28, 264-270.	0.0	23
46	Adsorption and decomposition of methylsilanes on Si(100). Applied Surface Science, 2000, 162-163, 161-167.	6.1	22
47	Infrared study of carbon incorporation during chemical vapor deposition of SiC using methylsilanes. Applied Surface Science, 2001, 175-176, 591-596.	6.1	22
48	Coordination of Carboxylate on Metal Nanoparticles Characterized by Fourier Transform Infrared Spectroscopy. Chemistry Letters, 2008, 37, 888-889.	1.3	22
49	<i>In situ</i> real-time monitoring of apoptosis on leukemia cells by surface infrared spectroscopy. Journal of Applied Physics, 2009, 105, .	2.5	22
50	Advances in Artificial Cell Membrane Systems as a Platform for Reconstituting Ion Channels. Chemical Record, 2020, 20, 730-742.	5.8	22
51	In situ observation of DNA hybridization and denaturation by surface infrared spectroscopy. Journal of Applied Physics, 2006, 99, 094702.	2.5	21
52	Improved stability of free-standing lipid bilayers based on nanoporous alumina films. Applied Physics Letters, 2010, 96, .	3.3	21
53	Annealing-induced chemical and structural changes in tri-iodide and mixed-halide organometal perovskite layers. Journal of Materials Chemistry A, 2015, 3, 14195-14201.	10.3	21
54	Synchrotronâ€radiationâ€stimulated desorption of O+ions from an oxidized silicon surface. Applied Physics Letters, 1990, 56, 1125-1127.	3.3	20

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55	Ultraviolet-Induced Deposition of SiO <sub>2</sub> Film from Tetraethoxysilane Spin-Coated on Si. Journal of the Electrochemical Society, 1994, 141, 1556-1561.	2.9	20
56	Micro-scaled hydrogen gas sensors with patterned anodic titanium oxide nanotube film. Sensors and Actuators B: Chemical, 2013, 177, 1156-1160.	7.8	20
57	Response characteristics of a highly sensitive gas sensor using a titanium oxide nanotube film decorated with platinum nanoparticles. Sensors and Actuators B: Chemical, 2020, 321, 128525.	7.8	20
58	Room-temperature observation of a Coulomb blockade phenomenon in aluminum nanodots fabricated by an electrochemical process. Applied Physics Letters, 2007, 90, 093119.	3.3	19
59	Infrared monitoring system for the detection of organic contamination on a 300 mm Si wafer. Applied Physics Letters, 1999, 75, 519-521.	3.3	18
60	Organic Field Effect Transistor Using Pentacene Single Crystals Grown by a Liquid-Phase Crystallization Process. Langmuir, 2009, 25, 4861-4863.	3.5	18
61	Organic hydrogen gas sensor with palladium-coated $\beta$ -phase poly(vinylidene fluoride) thin films. Applied Physics Letters, 2012, 101, .	3.3	18
62	Stable Lipid Bilayers Based on Micro- and Nano-Fabrication as a Platform for Recording Ion-Channel Activities. Analytical Sciences, 2012, 28, 1049-1057.	1.6	18
63	Bactericidal Activity of TiO <sub>2</sub> Nanotube Thin Films on Si by Photocatalytic Generation of Active Oxygen Species. Langmuir, 2020, 36, 12668-12677.	3.5	18
64	Formation of hexafluorosilicate on Si surface treated in NH <sub>4</sub> F investigated by photoemission and surface infrared spectroscopy. Applied Physics Letters, 1993, 62, 1003-1005.	3.3	17
65	Effective Subnetwork Topology for Synchronizing Interconnected Networks of Coupled Phase Oscillators. Frontiers in Computational Neuroscience, 2018, 12, 17.	2.1	17
66	Behavior of hydride species on Si surface during methane plasma irradiation investigated by in-situ infrared spectroscopy. Thin Solid Films, 2003, 435, 13-18.	1.8	16
67	In-situ observation of chemical states of a Si electrode surface during a galvanostatic oscillation in fluoride electrolytes using infrared absorption spectroscopy. Physica Status Solidi A, 2003, 197, 577-581.	1.7	16
68	In situ real-time monitoring of biomolecular interactions by using surface infrared spectroscopy. Journal of Applied Physics, 2009, 105, 102039.	2.5	16
69	Fabrication and Characterization of High-Quality Perovskite Films with Large Crystal Grains. Journal of Physical Chemistry Letters, 2017, 8, 720-726.	4.6	16
70	Amphiphobic Septa Enhance the Mechanical Stability of Free-Standing Bilayer Lipid Membranes. Langmuir, 2018, 34, 5615-5622.	3.5	16
71	Real-time monitoring of cell death by surface infrared spectroscopy. Applied Physics Letters, 2007, 91, 203902.	3.3	15
72	Lipid bilayer array for simultaneous recording of ion channel activities. Applied Physics Letters, 2012, 101, .	3.3	14

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73	Response characteristics of hydrogen gas sensor with porous piezoelectric poly(vinylidene fluoride) film. <i>Sensors and Actuators B: Chemical</i> , 2017, 247, 479-489.	7.8	14
74	Bactericidal Activity of Bulk Nanobubbles through Active Oxygen Species Generation. <i>Langmuir</i> , 2021, 37, 9883-9891.	3.5	14
75	Hydrogen Exchange Reaction on Hydrogen-terminated (100) Si Surface during Storage in Water. <i>Journal of the Electrochemical Society</i> , 1998, 145, 659-661.	2.9	13
76	Si <sub>2</sub> H <sub>6</sub> adsorption and hydrogen desorption on Si(100) investigated by infrared spectroscopy. <i>Applied Surface Science</i> , 2000, 162-163, 111-115.	6.1	13
77	In Situ Real-Time Infrared Spectroscopy Study of Formation of Porous Anodic Alumina on Si. <i>Journal of the Electrochemical Society</i> , 2006, 153, C296.	2.9	13
78	Mechanically Stable Lipid Bilayers in Teflon-Coated Silicon Chips for Single-Channel Recordings. <i>Micro and Nanosystems</i> , 2012, 4, 2-7.	0.6	13
79	Formation of a thin SiO <sub>2</sub> film using synchrotron radiation excited reaction. <i>Applied Physics Letters</i> , 1991, 59, 794-796.	3.3	12
80	Adsorption of naphthalene on a Si(100)-2Å <sup>-1</sup> surface investigated by infrared spectroscopy. <i>Surface Science</i> , 2005, 576, 45-55.	1.9	12
81	Stable lipid bilayers based on micro- and nano-fabrication. <i>Supramolecular Chemistry</i> , 2010, 22, 406-412.	1.2	12
82	Photon-Stimulated Desorption of H <sup>+</sup> ions from Oxidized Si(111) Surfaces. <i>Japanese Journal of Applied Physics</i> , 1989, 28, 2581-2586.	1.5	11
83	Removal of the sulfur passivation overlayer on a (NH <sub>4</sub> ) <sub>2</sub> S <sub>x</sub> -treated GaAs surface by vacuum-ultraviolet irradiation. <i>Applied Physics Letters</i> , 1991, 58, 1635-1637.	3.3	11
84	Hydration of single-stranded DNA in water studied by infrared spectroscopy. <i>Chemical Physics Letters</i> , 2007, 436, 233-238.	2.6	11
85	In situ Study of DNA Attachment and Hybridization at Silicon Surfaces by Infrared Absorption Spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2008, 47, 3204-3208.	1.5	11
86	Chlorosilane adsorption on clean Si surfaces: Scanning tunneling microscopy and Fourier-transform infrared absorption spectroscopy studies. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 2001-2006.	2.1	10
87	Formation of Porous Titanium Film and Its Application to Counter Electrode for Dye-Sensitized Solar Cell. <i>Japanese Journal of Applied Physics</i> , 2010, 49, 122302.	1.5	10
88	Fabrication and Characterization of Front-Illuminated Dye-Sensitized Solar Cells with Anodic Titanium Oxide Nanotubes. <i>Journal of the Electrochemical Society</i> , 2017, 164, H78-H84.	2.9	10
89	Si 2p Spectra of Initial Thermal Oxides on Si(100) Oxidized by H <sub>2</sub> O. <i>Japanese Journal of Applied Physics</i> , 1999, 38, 253.	1.5	10
90	Application of neural network based regression model to gas concentration analysis of TiO <sub>2</sub> nanotube-type gas sensors. <i>Sensors and Actuators B: Chemical</i> , 2022, 361, 131732.	7.8	10

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91	Photoelectron intensity oscillation during chemical vapor deposition on Si(100) surface with Si <sub>2</sub> H <sub>6</sub> . Applied Physics Letters, 1994, 64, 2013-2015.	3.3	9
92	Oxidation of the hydrogen terminated silicon surfaces by oxygen plasma investigated by in-situ infrared spectroscopy. Thin Solid Films, 2005, 475, 128-132.	1.8	9
93	Ag nanoparticle sheet as a marker of lateral remote photocatalytic reactions. Nanoscale, 2010, 2, 107-113.	5.6	9
94	Label-free and real time monitoring of adipocyte differentiation by surface infrared spectroscopy. Sensors and Actuators B: Chemical, 2013, 176, 1176-1182.	7.8	9
95	Piezoelectric PVDF-based sensors with high pressure sensitivity induced by chemical modification of electrode surfaces. Sensors and Actuators A: Physical, 2020, 316, 112424.	4.1	9
96	Growth of aluminum on Si using dimethyl-ethyl amine alane. Applied Surface Science, 1999, 142, 443-446.	6.1	8
97	Carrier Injection Characteristics of Metal/Tris-(8-hydroxyquinoline) Aluminum Interface with Long Chain Alkane Insertion Layer. Japanese Journal of Applied Physics, 2006, 45, 442-446.	1.5	8
98	Fabrication and characterization of p+i-p+ type organic thin film transistors with electrodes of highly doped polymer. Journal of Applied Physics, 2016, 119, .	2.5	8
99	Optical transport of sub-micron lipid vesicles along a nanofiber. Optics Express, 2020, 28, 38527.	3.4	8
100	Si-Fullerene Compounds Produced by Controlling Spatial Structure of an Arc-Discharge Plasma. Japanese Journal of Applied Physics, 2000, 39, L1130-L1132.	1.5	7
101	Low-temperature-atomic-layer-deposition of SiO <sub>2</sub> with Tris(dimethylamino)Silane (TDMAS) and Ozone using Temperature Controlled Water Vapor Treatment. ECS Transactions, 2009, 19, 417-426.	0.5	7
102	Live-Cell, Label-Free Identification of GABAergic and Non-GABAergic Neurons in Primary Cortical Cultures Using Micropatterned Surface. PLoS ONE, 2016, 11, e0160987.	2.5	7
103	Effects of Refraction of X-Rays in Double-Crystal Topography. Japanese Journal of Applied Physics, 1988, 27, 849-854.	1.5	6
104	Soft X-Ray Optical Constants: Pt, Ag, and Cu. Japanese Journal of Applied Physics, 1988, 27, 666-669.	1.5	6
105	Low-Temperature Deposition of Silicon Dioxide Films by Photoinduced Decomposition of Tetraethoxysilane. Japanese Journal of Applied Physics, 1989, 28, L1310-L1313.	1.5	6
106	Synchrotron-radiation-induced reactions of tetraethoxysilane on Si studied by photoemission spectroscopy. Journal of Applied Physics, 1994, 75, 7304-7309.	2.5	6
107	Infrared study of chemistry of Si surfaces in etching solution. Applied Surface Science, 1996, 100-101, 607-611.	6.1	6
108	Atomic-Layer-Deposition of SiO <sub>2</sub> with Tris(Dimethylamino)Silane (TDMAS) and Ozone Investigated by Infrared Absorption Spectroscopy. ECS Transactions, 2008, 13, 171-177.	0.5	6

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109	Self-formation of bilayer lipid membranes on agarose-coated silicon surfaces studied by simultaneous electrophysiological and surface infrared spectroscopic measurements. <i>Applied Physics Letters</i> , 2009, 94, 243906.	3.3	6
110	Real-time monitoring of mitochondrial adenosine 5â€²-triphosphate synthesis and hydrolysis by surface infrared spectroscopy. <i>Applied Physics Letters</i> , 2011, 98, 133703.	3.3	6
111	Modulation of Photoinduced Transmembrane Currents in a Fullerene-Doped Freestanding Lipid Bilayer by a Lateral Bias. <i>ACS Omega</i> , 2019, 4, 18299-18303.	3.5	6
112	Identification of the source caldera for a Pliocene ash-flow tuff in Northeast Japan based on apatite trace-element compositions and zircon U-Pb ages. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 401, 106948.	2.1	6
113	In situ modification of lipid-loaded MCM-41 channels with bovine serum albumin at a planar lipid bilayer for biosensing. <i>Sensors and Actuators B: Chemical</i> , 2011, 160, 139-144.	7.8	5
114	In Situ Observation of Photon-Stimulated Hydrogen Removal on a HF-Passivated Si(111) Surface by Ultraviolet Photoelectron Spectroscopy Using Synchrotron Radiation. <i>Japanese Journal of Applied Physics</i> , 1997, 36, 7699-7705.	1.5	4
115	Electrochemistry on Si(100) in a hydrofluoric acid solution at cathodic potential regions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2002, 96, 107-110.	3.5	4
116	Infrared reflection absorption spectroscopy investigation of carbon nanotube growth on cobalt catalyst surfaces. <i>Applied Physics Letters</i> , 2007, 90, 073109.	3.3	4
117	Investigation of TiO <sub>2</sub> Surface Modification with [6,6]-Phenyl-C61-butyric Acid for Titania/Polymer Hybrid Solar Cells. <i>Japanese Journal of Applied Physics</i> , 2013, 52, 112301.	1.5	4
118	Fabrication of polymer/TiO <sub>2</sub> -nanotube-based hybrid structures using a solvent-vapor-assisted coating method. <i>Materials Research Express</i> , 2014, 1, 045048.	1.6	4
119	Adsorption of Benzene on Si(100) Surface.. <i>Hyomen Kagaku</i> , 2003, 24, 98-104.	0.0	4
120	Photoemission study of metal deposition on sulfur-treated GaAs(100). <i>Applied Surface Science</i> , 1998, 130-132, 441-446.	6.1	3
121	The thermal-field emission model for carrier injection characteristics of an organic field effect transistor. <i>Applied Physics Letters</i> , 2009, 94, .	3.3	3
122	Label-free detection of DNA molecules moving in micro-fluidic channels by infrared absorption spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 917-922.	7.8	3
123	Proteoliposome fusion to artificial lipid bilayer promoted by domains of polyunsaturated phosphatidylethanolamine. <i>Japanese Journal of Applied Physics</i> , 2019, 58, S1B13.	1.5	3
124	Peptide Immobilization on GaAs Surfaces and the Application to Label-Free Detection of Antigen-Antibody Interactions Using Multiple Internal Reflection Infrared Spectroscopy. <i>Sensor Letters</i> , 2008, 6, 613-617.	0.4	3
125	Examination of Surface-Roughness of Silicon Crystals by Double-Crystal X-Ray Topography. <i>Japanese Journal of Applied Physics</i> , 1988, 27, 1113-1114.	1.5	2
126	Infrared reflection spectroscopic investigation of adsorption of SiH <sub>x</sub> (CH <sub>3</sub> ) <sub>4-x</sub> on Si surfaces. <i>Electronics and Communications in Japan</i> , 2002, 85, 59-65.	0.2	2



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127	In situ Surface Infrared Study of DNA Hybridization on Au Island Films Evaporated on Silicon Surfaces. Japanese Journal of Applied Physics, 2009, 48, 04C186.	1.5	2
128	Low-temperature reduction of Ge oxide by Si and SiH <sub>4</sub> in low-pressure H <sub>2</sub> and Ar environment. Solid-State Electronics, 2015, 110, 40-43.	1.4	2
129	In Situ Infrared Observation of a Photo-Decomposition Process of Organic Contaminants on a TiO <sub>2</sub> /Nanotube Film Surface. Journal of the Electrochemical Society, 2019, 166, H842-H848.	2.9	2
130	Synchrotron radiation induced reactions of condensed layer of organosilicon compounds. Journal of Electron Spectroscopy and Related Phenomena, 1996, 80, 89-92.	1.7	1
131	SYNCHROTRON RADIATION PHOTOEMISSION AND INFRARED SPECTROSCOPY STUDY OF ADSORPTION AND DECOMPOSITION OF DICHLOROSILANE ON Si(100)(2 Å <sup>-1</sup> ). Surface Review and Letters, 2002, 09, 803-808.	1.1	1
132	Interference between field excitatory postsynaptic potentials and simultaneously recorded chronoamperometric l-glutamate currents in mouse hippocampal slices. Electrochemistry Communications, 2014, 45, 1-4.	4.7	1
133	The onset and closure of critical period plasticity regulated by feedforward inhibition. Neurocomputing, 2014, 143, 261-268.	5.9	1
134	Interaction of plasma-generated water cluster ions with chemically-modified Si surfaces investigated by infrared absorption spectroscopy. AIP Advances, 2016, 6, 035017.	1.3	1
135	Charge transport properties of bulk-heterojunction organic solar cells investigated by displacement current measurement technique. Organic Electronics, 2017, 51, 269-276.	2.6	1
136	Environmental Measurement Technology Using Multiple Internal Reflection FTIR. IEJ Transactions on Sensors and Micromachines, 2001, 121, 331-336.	0.1	1
137	Infrared Absorption Spectroscopic Technique for Biosensing. Hyomen Kagaku, 2007, 28, 283-286.	0.0	1
138	Photoemission study of the metal deposition on the (NH <sub>4</sub> ) <sub>2</sub> Sx-treated GaAs(100) surface at room temperature. Journal of Electron Spectroscopy and Related Phenomena, 1999, 101-103, 315-320.	1.7	0
139	Anodization process of aluminum microelectrode for a single-electron transistor operating at room temperature. , 2008, , .		0
140	Mechanically Stable Free-Standing Bilayer Lipid Membranes in Microfabricated Silicon Chips. Materials Research Society Symposia Proceedings, 2012, 1415, 151.	0.1	0
141	A Model for Ocular Dominance Plasticity Controlled by Feedforward and Feedback Inhibition. IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, 2014, E97.A, 1780-1786.	0.3	0
142	Biosensing by &lt;i>in situ</i> Infrared Spectroscopy. Bunseki Kagaku, 2015, 64, 793-800.	0.2	0
143	Frontispiece: Micro- and Nano-Technologies for Lipid Bilayer-Based Ion-Channel Functional Assays. Chemistry - an Asian Journal, 2015, 10, n/a-n/a.	3.3	0
144	Nanostructure fabrication through a microwire of local anodization. , 2017, , .		0

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145	Infrared Spectroscopy Study of Behavior of Hydrogen on Semiconductor Surfaces. Shinku/Journal of the Vacuum Society of Japan, 2003, 46, 600-606.	0.2	0
146	Detection of DNA Molecules on Porous Si Surfaces by Infrared Spectromicroscopy. Hyomen Kagaku, 2005, 26, 537-541.	0.0	0
147	Surface Infrared Spectroscopic Study on Label-Free Detection of Antigen-Antibody Interactions: Discrimination between Specific and Nonspecific Signals using Protein Secondary Structure Analysis. Hyomen Kagaku, 2008, 29, 558-563.	0.0	0
148	Measuring Techniques for Soft-Nanotechnology. Hyomen Kagaku, 2009, 30, 219-228.	0.0	0
149	Influence of Carrier Injection on Characteristics of an Organic Field Effect Transistor. Hyomen Kagaku, 2011, 32, 21-26.	0.0	0
150	UV Light-Induced Decomposition and Polymerization of Organosilicon Compounds.. The Review of Laser Engineering, 1998, 26, 463-467.	0.0	0