Tatsuo Yoshinobu

List of Publications by Year
in descending order

193 papers	3,830 citations	101543 36 h-index	182427 51 g-index
194 all docs	194 docs citations	194 times ranked	1803 citing authors

#	Article	IF	Citations
1	The light-addressable potentiometric sensor for multi-ion sensing and imaging. Methods, 2005, 37, 94-102.	3.8	133
2	Scanning-laser-beam semiconductor pH-imaging sensor. Sensors and Actuators B: Chemical, 1994, 20, 119-123.	7.8	109
3	Penicillin detection by means of field-effect based sensors: EnFET, capacitive EIS sensor or LAPS?. Sensors and Actuators B: Chemical, 2001, 78, 237-242.	7.8	92
4	Stable Growth and Kinetic Roughening in Electrochemical Deposition. Physical Review Letters, 1994, 72, 4025-4028.	7.8	81
5	High-resolution pH imaging sensor for microscopic observation of microorganisms. Sensors and Actuators B: Chemical, 1996, 34, 234-239.	7.8	80
6	Polymer Composite with Carbon Nanofibers Aligned during Thermal Drawing as a Microelectrode for Chronic Neural Interfaces. ACS Nano, 2017, 11, 6574-6585.	14.6	73
7	Portable light-addressable potentiometric sensor (LAPS) for multisensor applications. Sensors and Actuators B: Chemical, 2003, 95, 352-356.	7.8	71
8	Improvement of Spatial Resolution of a Laser-Scanning pH-Imaging Sensor. Japanese Journal of Applied Physics, 1994, 33, L394-L397.	1.5	70
9	Handheld multi-channel LAPS device as a transducer platform for possible biological and chemical multi-sensor applications. Electrochimica Acta, 2007, 53, 305-311.	5.2	69
10	Heteroepitaxial growth of single crystalline 3Câ€"SiC on Si substrates by gas source molecular beam epitaxy. Journal of Applied Physics, 1992, 72, 2006-2013.	2.5	66
11	Ion-selective light-addressable potentiometric sensor (LAPS) with chalcogenide thin film prepared by pulsed laser deposition. Sensors and Actuators B: Chemical, 2001, 80, 136-140.	7.8	65
12	PLD-prepared cadmium sensors based on chalcogenide glassesâ€"ISFET, LAPS and Î¼ISE semiconductor structures. Sensors and Actuators B: Chemical, 2006, 118, 149-155.	7.8	64
13	Atomic layer epitaxy of cubic SiC by gas source MBE using surface superstructure. Journal of Crystal Growth, 1989, 95, 461-463.	1.5	59
14	Investigation on light-addressable potentiometric sensor as a possible cellâ€"semiconductor hybrid. Biosensors and Bioelectronics, 2003, 18, 1509-1514.	10.1	59
15	Constant-Current-Mode LAPS (CLAPS) for the Detectionof Penicillin. Electroanalysis, 2001, 13, 733-736.	2.9	56
16	Development of a handheld 16 channel pen-type LAPS for electrochemical sensing. Sensors and Actuators B: Chemical, 2005, 108, 808-814.	7.8	56
17	Light-Addressable Potentiometric Sensors for Quantitative Spatial Imaging of Chemical Species. Annual Review of Analytical Chemistry, 2017, 10, 225-246.	5.4	56
18	High resolution LAPS using amorphous silicon as the semiconductor material. Sensors and Actuators B: Chemical, 2004, 103, 436-441.	7.8	55

#	Article	IF	Citations
19	AFM fabrication of oxide patterns and immobilization of biomolecules on Si surface. Electrochimica Acta, 2003, 48, 3131-3135.	5.2	53
20	Recent developments of chemical imaging sensor systems based on the principle of the light-addressable potentiometric sensor. Sensors and Actuators B: Chemical, 2015, 207, 926-932.	7.8	52
21	Observation of microorganism colonies using a scanning-laser-beam pH-sensing microscope. Journal of Bioscience and Bioengineering, 1995, 79, 163-166.	0.9	51
22	Scaling Analysis ofSiO2/Si Interface Roughness by Atomic Force Microscopy. Japanese Journal of Applied Physics, 1994, 33, 383-387.	1.5	50
23	Atomic layer epitaxy controlled by surface superstructures in SiC. Thin Solid Films, 1993, 225, 225-229.	1.8	47
24	Chemical-imaging sensor using enzyme. Sensors and Actuators B: Chemical, 1996, 32, 23-26.	7.8	47
25	Atomic level control in gas source MBE growth of cubic SiC. Journal of Crystal Growth, 1990, 99, 520-524.	1.5	45
26	â€œLAPS Cardâ€â€"A novel chip card-based light-addressable potentiometric sensor (LAPS). Sensors and Actuators B: Chemical, 2006, 118, 33-40.	7.8	45
27	Development and characterisation of a compact light-addressable potentiometric sensor (LAPS) based on the digital light processing (DLP) technology for flexible chemical imaging. Sensors and Actuators B: Chemical, 2012, 170, 34-39.	7.8	45
28	Dynamic reflection highâ€energy electron diffraction observation of 3Câ€SiC(001) surface reconstruction under Si2H6beam irradiation. Applied Physics Letters, 1991, 59, 2844-2846.	3.3	44
29	K+-selective field-effect sensors as transducers for bioelectronic applications. Electrochimica Acta, 2003, 48, 3333-3339.	5.2	43
30	Step Fluctuations on Vicinal Si(113). Physical Review Letters, 1998, 80, 5152-5155.	7.8	42
31	â€œAll-in-oneâ€•solid-state device based on a light-addressable potentiometric sensor platform. Sensors and Actuators B: Chemical, 2006, 117, 472-479.	7.8	41
32	Plasmon-enhanced molecular fluorescence from an organic film in a tunnel junction. Applied Physics Letters, 2006, 88, 061901.	3.3	41
33	Anion-selective light-addressable potentiometric sensors (LAPS) for the determination of nitrate and sulphate ions. Sensors and Actuators B: Chemical, 2003, 91, 32-38.	7.8	40
34	Alternative sensor materials for light-addressable potentiometric sensors. Sensors and Actuators B: Chemical, 2001, 76, 388-392.	7.8	39
35	High-speed chemical imaging inside a microfluidic channel. Sensors and Actuators B: Chemical, 2014, 194, 521-527.	7.8	39
36	Self-affine growth of copper electrodeposits. Physical Review B, 1993, 48, 8282-8285.	3.2	38

#	Article	IF	Citations
37	Investigation of pulsed laser-deposited Al2O3 as a high pH-sensitive layer for LAPS-based biosensing applications. Sensors and Actuators B: Chemical, 2000, 71, 169-172.	7.8	38
38	Nanolithography on SiO2/Si with a scanning tunnelling microscope. Nanotechnology, 2003, 14, R55-R62.	2.6	37
39	Immobilization of Urease and Cholinesterase on the Surface of Semiconductor Transducer for the Development of Light-Addressable Potentiometric Sensors. Mikrochimica Acta, 2004, 144, 41-50.	5.0	35
40	Chemical imaging sensor and its application to biological systems. Electrochimica Acta, 2001, 47, 259-263.	5.2	34
41	Latticeâ€matched epitaxial growth of single crystalline 3Câ€SiC on 6Hâ€SiC substrates by gas source molecular beam epitaxy. Applied Physics Letters, 1992, 60, 824-826.	3.3	32
42	Device simulation of the light-addressable potentiometric sensor for the investigation of the spatial resolution. Sensors and Actuators B: Chemical, 2014, 204, 659-665.	7.8	32
43	Fabrication of Thin-Film LAPS with Amorphous Silicon. Sensors, 2004, 4, 163-169.	3.8	31
44	Chemical image scanner based on FDM-LAPSâ˜†. Sensors and Actuators B: Chemical, 2009, 137, 533-538.	7.8	31
45	A NIRS-based brain-computer interface system during motor imagery: System development and online feedback training. , 2009, 2009, 594-7.		31
46	Photocurable membranes for ion-selective light-addressable potentiometric sensor. Sensors and Actuators B: Chemical, 2002, 85, 79-85.	7.8	30
47	Miniaturized chemical imaging sensor system using an OLED display panel. Sensors and Actuators B: Chemical, 2012, 170, 82-87.	7.8	30
48	Chemical imaging of the concentration profile of ion diffusion in a microfluidic channel. Sensors and Actuators B: Chemical, 2013, 189, 240-245.	7.8	30
49	Application of the chemical imaging sensor to electrophysiological measurement of a neural cell. Sensors and Actuators B: Chemical, 1999, 59, 21-25.	7.8	29
50	Application of the pH-Imaging Sensor to Determining the Diffusion Coefficients of Ions in Electrolytic Solutions. Japanese Journal of Applied Physics, 2000, 39, L318-L320.	1.5	28
51	Mesoscopic Roughness Characterization of Grown Surfaces by Atomic Force Microscopy. Japanese Journal of Applied Physics, 1994, 33, L67-L69.	1.5	27
52	A brain-computer interface (BCI) system based on auditory stream segregation. , 2008, 2008, 642-5.		27
53	Light-addressable potentiometric sensors for cell monitoring and biosensing. Current Opinion in Electrochemistry, 2021, 28, 100727.	4.8	27
54	The double K+/Ca2+ sensor based on laser scanned silicon transducer (LSST) for multi-component analysis. Talanta, 2003, 59, 785-795.	5.5	26

#	Article	IF	Citations
55	Determination of the extracellular acidification of <i>Escherichia coli</i> by a lightâ€addressable potentiometric sensor. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 1340-1344.	1.8	26
56	Low Energy Electron Beam Stimulated Surface Reaction: Selective Etching of SiO 2/Si Using Scanning Tunneling Microscope. Japanese Journal of Applied Physics, 1998, 37, L995-L998.	1.5	24
57	Light-addressable potentiometric fluoride (Fâˆ’) sensor. Sensors and Actuators B: Chemical, 2002, 86, 94-97.	7.8	24
58	Image correction method for the chemical imaging sensor. Sensors and Actuators B: Chemical, 2010, 144, 344-348.	7.8	24
59	Phase-mode LAPS and its application to chemical imaging. Sensors and Actuators B: Chemical, 2011, 154, 28-32.	7.8	23
60	Lithium sensor based on the laser scanning semiconductor transducer. Analytica Chimica Acta, 2002, 459, 1-9.	5.4	22
61	Visualization of enzymatic reaction in a microfluidic channel using chemical imaging sensor. Electrochimica Acta, 2013, 113, 768-772.	5.2	22
62	Polymer-fiber-coupled field-effect sensors for label-free deep brain recordings. PLoS ONE, 2020, 15, e0228076.	2.5	22
63	Miniature multiplexed label-free pH probe in vivo. Biosensors and Bioelectronics, 2021, 174, 112870.	10.1	22
64	Nanofabrication on Si oxide with scanning tunneling microscope: Mechanism of the low-energy electron-stimulated reaction. Applied Physics Letters, 1999, 74, 1621-1623.	3.3	21
65	Unidirectional Propagation of Chemical Waves through Microgaps between Zones with Different Excitability. Journal of Physical Chemistry A, 2000, 104, 6602-6608.	2.5	21
66	A high-density multi-point LAPS set-up using a VCSEL array and FPGA control. Sensors and Actuators B: Chemical, 2011, 154, 124-128.	7.8	21
67	High speed and high resolution chemical imaging based on a new type of OLED-LAPS set-up. Sensors and Actuators B: Chemical, 2012, 175, 118-122.	7.8	21
68	Application of chemical imaging sensor to in-situ pH imaging in the vicinity of a corroding metal surface. Electrochimica Acta, 2015, 183, 137-142.	5.2	21
69	Scaling of Si/SiO2 interface roughness. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1995, 13, 1630.	1.6	20
70	Theoretical study and simulation of lightâ€addressable potentiometric sensors. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1467-1472.	1.8	20
71	Light-addressable potentiometric sensor (LAPS) combined with magnetic beads for pharmaceutical screening. Physics in Medicine, 2016, 1, 2-7.	1.3	20
72	Semiconductor-based field-effect structures for chemical sensing. , 2001, , .		19

#	Article	IF	Citations
73	Nutrient concentrationâ€sensitive microorganismâ€based biosensor. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 900-904.	1.8	19
74	A bubble-assisted electroosmotic micropump for a delivery of a droplet in a microfluidic channel combined with a light-addressable potentiometric sensor. Sensors and Actuators B: Chemical, 2017, 248, 993-997.	7.8	18
75	Application of Chemical Imaging Sensor to Electro Generated pH Distribution. Japanese Journal of Applied Physics, 1998, 37, L353-L355.	1.5	17
76	Diffusive Propagation of Chemical Waves through a Microgap. Journal of Physical Chemistry A, 2000, 104, 5154-5159.	2.5	17
77	Field-programmable gate array based controller for multi spot light-addressable potentiometric sensors with integrated signal correction mode. Electrochimica Acta, 2011, 56, 9656-9660.	5.2	17
78	High-speed chemical imaging system based on front-side-illuminated LAPS. Sensors and Actuators B: Chemical, 2013, 182, 315-321.	7.8	17
79	Novel photoexcitation method for light-addressable potentiometric sensor with higher spatial resolution. Applied Physics Express, 2014, 7, 067301.	2.4	17
80	Interface Modification by Hydrocarbon Gas Molecular Beams in Heteroepitaxy of SiC on Si. Japanese Journal of Applied Physics, 1991, 30, L1086-L1088.	1.5	16
81	Cracking of Saturated Hydrocarbon Gas Molecular Beam for Carbonization of Si(001) Surface. Japanese Journal of Applied Physics, 1992, 31, L1580-L1582.	1.5	16
82	Fabrication of Nanopit Arrays on Si(111). Japanese Journal of Applied Physics, 1999, 38, 483-486.	1.5	16
83	Ligation errors in DNA computing. BioSystems, 1999, 52, 181-187.	2.0	16
84	Laser-scanned silicon transducer (LSST) as a multisensor system. Sensors and Actuators B: Chemical, 2004, 103, 457-462.	7.8	16
85	A Brain-Computer Interface (BCI) System Based on Auditory Stream Segregation. Journal of Biomechanical Science and Engineering, 2010, 5, 32-40.	0.3	16
86	Towards addressability of light-addressable potentiometric sensors: Shunting effect of non-illuminated region and cross-talk. Sensors and Actuators B: Chemical, 2017, 244, 1071-1079.	7.8	16
87	Light-Addressable Potentiometric Sensor as a Sensing Element in Plug-Based Microfluidic Devices. Micromachines, 2016, 7, 111.	2.9	15
88	Scanning Tunneling Microscope (STM)-Excited Molecular Fluorescence from Porphyrin Thin Films. Japanese Journal of Applied Physics, 2005, 44, L566-L569.	1.5	14
89	xBCI: A Generic Platform for Development of an Online BCI System. IEEJ Transactions on Electrical and Electronic Engineering, 2010, 5, 467-473.	1.4	14
90	Controlled carbonization of Si(001) surface using hydrocarbon radicals in ultrahigh vacuum. Journal of Crystal Growth, 1994, 136, 333-337.	1.5	13

#	Article	IF	Citations
91	Kinetic roughening in electrodissolution of copper. Physical Review E, 1999, 59, 5133-5136.	2.1	13
92	High-speed and high-precision chemical-imaging sensor. Sensors and Actuators A: Physical, 1995, 51, 231-235.	4.1	12
93	Anisotropic Waves Propagating on Two-Dimensional Arrays of Belousov-Zhabotinsky Oscillators. Japanese Journal of Applied Physics, 1999, 38, L345-L348.	1.5	12
94	Nanotribology of Clean and Oxide-Covered Silicon Surfaces Using Atomic Force Microscopy. Japanese Journal of Applied Physics, 2000, 39, 272-274.	1.5	12
95	Nanotribology of Si oxide layers on Si by atomic force microscopy. Ultramicroscopy, 2001, 86, 49-53.	1.9	12
96	Induction of chemical waves by mechanical stimulation in elastic Belousovâ€"Zhabotinsky media. Chemical Physics Letters, 2001, 349, 437-441.	2.6	12
97	Constant-phase-mode operation of the light-addressable potentiometric sensor. Sensors and Actuators B: Chemical, 2011, 154, 119-123.	7.8	12
98	Lateral resolution enhancement of pulse-driven light-addressable potentiometric sensor. Sensors and Actuators B: Chemical, 2017, 248, 961-965.	7.8	12
99	Low Energy Electron Stimulated Etching of Thin Si-Oxide Layer in Nanometer Scale Using Scanning Tunneling Microscope. Japanese Journal of Applied Physics, 1999, 38, L252-L254.	1.5	11
100	Enhanced Nano-Oxidation on a SC1-Treated Si Surface Using Atomic Force Microscopy. Japanese Journal of Applied Physics, 2002, 41, 4754-4757.	1.5	11
101	Frequency behaviour of lightâ€addressable potentiometric sensors. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 884-891.	1.8	11
102	Enhancement of the Spatial Resolution of the Chemical Imaging Sensor by a Hybrid Fiber-Optic Illumination. Procedia Engineering, 2014, 87, 612-615.	1.2	11
103	Visualization of the recovery process of defects in a cultured cell layer by chemical imaging sensor. Sensors and Actuators B: Chemical, 2016, 236, 965-969.	7.8	11
104	Utilising Digital Micro-Mirror Device (DMD) as Scanning Light Source for Light-Addressable Potentiometric Sensors (LAPS). Sensor Letters, 2011, 9, 812-815.	0.4	11
105	A P300-based BCI system for controlling computer cursor movement. , 2011, 2011, 6405-8.		10
106	Improved spatial resolution of the chemical imaging sensor with a hybrid illumination that suppresses lateral diffusion of photocarriers. Sensors and Actuators B: Chemical, 2018, 273, 1328-1333.	7.8	10
107	Undoped Silicon Layers Grown by Gas Source Molecular Beam Epitaxy Using Si2H6. Japanese Journal of Applied Physics, 1992, 31, L1213-L1215.	1.5	9
108	Scaling Analysis of Chemical-Vapor-Deposited Tungsten Films by Atomic Force Microscopy. Japanese Journal of Applied Physics, 1993, 32, L1562-L1564.	1.5	9

#	Article	IF	Citations
109	Fluctuations of a Single Step and Surface Height on Vicinal Surfaces. Journal of the Physical Society of Japan, 1996, 65, 988-991.	1.6	9
110	Redox Potential Imaging Sensor. Japanese Journal of Applied Physics, 1996, 35, L460-L463.	1.5	9
111	A high-Q resonance-mode measurement of EIS capacitive sensor by elimination of series resistance. Sensors and Actuators B: Chemical, 2017, 248, 1006-1010.	7.8	9
112	A Partially Etched Structure of Lightâ€Addressable Potentiometric Sensor for Highâ€Spatialâ€Resolution and Highâ€Speed Chemical Imaging. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700964.	1.8	9
113	Differential Setup of Light-Addressable Potentiometric Sensor with an Enzyme Reactor in a Flow Channel. Japanese Journal of Applied Physics, 2011, 50, 04DL08.	1.5	9
114	A novel low-noise measurement principle for LAPS and its application to faster measurement of pH. Sensors and Actuators B: Chemical, 2001, 74, 112-116.	7.8	8
115	Flow-velocity Microsensors Based on Semiconductor Fieldeffect Structures. Sensors, 2003, 3, 202-212.	3.8	8
116	FPGAâ€based LAPS device for the flexible design of sensing sites on functional interfaces. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 844-849.	1.8	8
117	Application of electroosmotic micropumps to a microfluidic system combined with a lightâ€addressable potentiometric sensor. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1500-1504.	1.8	8
118	Molecular fluorescence from H2TBP porphyrin film on Ag substrate excited by tunneling electrons. Ultramicroscopy, 2006, 106, 785-788.	1.9	7
119	A high-density multi-point LAPS set-up using a VCSEL array and FPGA control. Procedia Chemistry, 2009, 1, 1483-1486.	0.7	7
120	Miniaturized chemical imaging sensor system using an OLED display panel. Procedia Engineering, 2010, 5, 516-519.	1.2	7
121	Differential Setup of Light-Addressable Potentiometric Sensor with an Enzyme Reactor in a Flow Channel. Japanese Journal of Applied Physics, 2011, 50, 04DL08.	1.5	7
122	A Novel Data Acquisition Method for Visualization of Large pH Changes by Chemical Imaging Sensor. ISIJ International, 2016, 56, 492-494.	1.4	7
123	STM study of the reactivity of niobium diselenide in air and N2. Applied Surface Science, 1998, 130-132, 623-628.	6.1	6
124	Solution of the Knapsack Problem by Deoxyribonucleic Acid Computing. Japanese Journal of Applied Physics, 1998, 37, 5839-5841.	1.5	6
125	Micropatterning of Si Surface with Protein Molecules by the AFM Anodic Oxidation Method. Electrochemistry, 2006, 74, 131-134.	1.4	6
126	Device Simulation of the Light-addressable Potentiometric Sensor with a Novel Photoexcitation Method for a Higher Spatial Resolution. Procedia Engineering, 2014, 87, 456-459.	1.2	6

#	Article	IF	Citations
127	A Modified Chemical Imaging Sensor System for Realâ€Time pH Imaging of Accelerated Crevice Corrosion of Stainless Steel. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700963.	1.8	6
128	Thermallyâ€Drawn Multiâ€Electrode Fibers for Bipolar Electrochemistry and Magnified Electrochemical Imaging. Advanced Materials Technologies, 2022, 7, 2101066.	5.8	6
129	Thermal and kinetic surface roughening studied by scanning tunneling microscopy and atomic force microscopy. Phase Transitions, 1995, 53, 235-248.	1.3	5
130	Nanoscale Patterning of Au Films on Si Surfaces by Atomic Force Microscopy. Japanese Journal of Applied Physics, 1999, 38, 6952-6954.	1.5	5
131	Constant-phase-mode operation of the light-addressable potentiometric sensor. Procedia Chemistry, 2009, 1, 1487-1490.	0.7	5
132	Positive Patterning of Ferritin and Fibronectin Molecules on Silicon by the Atomic Force Microscopic Anodic Oxidation Technique. Journal of Nanoscience and Nanotechnology, 2011, 11, 3808-3813.	0.9	5
133	The pH in Crevice Measured by a Semiconductor Chemical Sensor and Relationship with Crevice Corrosion Behavior of Stainless Steel. Zairyo To Kankyo/ Corrosion Engineering, 2020, 69, 40-48.	0.2	5
134	4Hâ€SiC/6Hâ€SiC interface structures studied by highâ€resolution transmission electron microscopy. Applied Physics Letters, 1993, 63, 2636-2637.	3.3	4
135	Visualization of Chemical Waves in Belousovâ€Zhabotinsky Reaction by Chemical Imaging Sensors. Journal of the Electrochemical Society, 1997, 144, 3919-3921.	2.9	4
136	Scanning chemical microscope for the visualization of a microscopic pH distribution.. Bunseki Kagaku, 1998, 47, 369-373.	0.2	4
137	Experimental Measurement of the Intensity Profiles of a Low-energy Electron Beam Extracted from a Scanning Tunneling Microscope Tip by Field Emission. Japanese Journal of Applied Physics, 1999, 38, 6172-6173.	1.5	4
138	Lift-off patterning of thin Au films on Si surfaces with atomic force microscopy. Ultramicroscopy, 2000, 82, 119-123.	1.9	4
139	Detection of proteinâ€“protein interactions on SiO2/Si surfaces by spectroscopic ellipsometry. Analytical Biochemistry, 2003, 321, 65-70.	2.4	4
140	Light-addressable Potentiometric Sensors and Lightâ€“addressable Electrodes as a Combined Sensor-and-manipulator Microsystem with High Flexibility. Procedia Engineering, 2012, 47, 890-893.	1.2	4
141	Estimation of Potential Distribution during Crevice Corrosion through Analysis of Iâ€“V Curves Obtained by LAPS. Sensors, 2020, 20, 2873.	3.8	4
142	Simultaneous In Situ Imaging of pH and Surface Roughening during the Progress of Crevice Corrosion of Stainless Steel. Sensors, 2022, 22, 2246.	3.8	4
143	Light Scattering by Submicron Particles on Film-Coated Wafers. Japanese Journal of Applied Physics, 1996, 35, L616-L618.	1.5	3
144	Scanning Tunneling Microscopy Study of Faceting on Vicinal Si(113). Japanese Journal of Applied Physics, 1998, 37, 5870-5874.	1.5	3

#	ARTICLE	IF	CITATIONS
145	Scanning Tunneling Microscopy Study of the Misfit Layer Compounds (LaSe)xNbSe2and (PbSe)xNbSe2. Japanese Journal of Applied Physics, 1998, 37, 6157-6160.	1.5	3
146	Nano-fabrication on Si oxide/Si surface by using STM: a low energy electron beam stimulated reaction. Applied Surface Science, 1999, 141, 305-312.	6.1	3
147	Comparative study of chemical waves and temporal oscillations in the Ru(bpy)32+-catalyzed photosensitive Belousovâ€“Zhabotinsky reaction. Chemical Physics Letters, 2000, 328, 214-220.	2.6	3
148	Scanning tunneling microscopy nanofabrication of electronic industry compatible thermal Si oxide. Ultramicroscopy, 2000, 82, 97-101.	1.9	3
149	Novel combination of digital light processing (DLP) and light-addressable potentiometric sensors (LAPS) for flexible chemical imaging. Procedia Engineering, 2010, 5, 520-523.	1.2	3
150	High speed and high resolution chemical imaging based on a new type of OLED-LAPS set-up. Procedia Engineering, 2011, 25, 346-349.	1.2	3
151	Generation of spatial filters by ICA for detecting motor-related oscillatory EEG. , 2012, 2012, 1703-6.		3
152	Muscle Tissue Actuator Driven with Light-gated Ion Channels Channelrhodopsin. Procedia CIRP, 2013, 5, 169-174.	1.9	3
153	Sensors and techniques for visualization and characterization of local corrosion. Japanese Journal of Applied Physics, 2019, 58, SB0801.	1.5	3
154	Detection of Hydrogen Permeation through Pure Iron with Light-addressable Potentiometric Sensor. ISIJ International, 2021, 61, 1330-1332.	1.4	3
155	Method of Menu Selection by Gaze Movement Using AC EOG Signals. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 1822-1827.	0.2	3
156	<title>Recent progress in collisionally excited x-ray laser research at the Institute of Laser Engineering</title>. , 1994, , .		2
157	Statistical analysis of step meandering on Si(113) miscut along a low symmetry azimuth. Surface Science, 1999, 419, 128-133.	1.9	2
158	Formation of nano-pyramids of layered materials with AFM. Ultramicroscopy, 2000, 82, 165-170.	1.9	2
159	Application of Thin-Film Amorphous Silicon to Chemical Imaging. Materials Research Society Symposia Proceedings, 2006, 910, 1.	0.1	2
160	Visualization of Defects on a Cultured Cell Layer by Utilizing Chemical Imaging Sensor. Procedia Engineering, 2015, 120, 936-939.	1.2	2
161	Modeling of the Return Current in a Light-Addressable Potentiometric Sensor. Sensors, 2019, 19, 4566.	3.8	2
162	Multiâ€Well Sensor Platform Based on a Partially Etched Structure of a Lightâ€Addressable Potentiometric Sensor. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800764.	1.8	2

#	Article	IF	Citations
163	High Resolution Chemical Imaging Sensor Using Semiconductor Si. IEEJ Transactions on Sensors and Micromachines, 1998, 118, 584-589.	0.1	2
164	Carbonization Dynamics of Silicon Surfaces By Hydrocarbon Gas Molecular Beams. Materials Research Society Symposia Proceedings, 1991, 220, 575.	0.1	1
165	Dynamic Scaling in Electrochemical Deposition. Materials Research Society Symposia Proceedings, 1994, 367, 159.	0.1	1
166	Controllable Nanopit Formation on Si(001) with a Scanning Tunneling Microscope. Japanese Journal of Applied Physics, 1999, 38, 5236-5238.	1.5	1
167	Current-Induced Step Bunching on Vicinal Si(111) Studied by Light Scattering. Japanese Journal of Applied Physics, 2000, 39, L380-L383.	1.5	1
168	Improvement of sensitivity of the light-addressable potentiometric sensors for the purpose of noninvasive measurement of electrical activity of biological cells. , 0, , .		1
169	A Semiconductor-based Field-effect Platform for (Bio-)Chemical and Physical sensors: From Capacitive EIS Sensors and LAPS over ISFETs to Nano-scale Devices. Materials Research Society Symposia Proceedings, 2006, 952, 2.	0.1	1
170	Microfluidic systems with free definable sensor spots by an integrated light-addressable potentiometric sensor. Procedia Engineering, 2011, 25, 791-794.	1.2	1
171	An on-chip electroosmotic micropump with a light- addressable potentiometric sensor. Optoelectronics Letters, 2017, 13, 113-115.	0.8	1
172	Restraining the Diffusion of Photocarriers to Improve the Spatial Resolution of the Chemical Imaging Sensor. Proceedings (mdpi), 2017, 1, 477.	0.2	1
173	Phase-Mode Operation of FDM-LAPS. Sensor Letters, 2011, 9, 691-694.	0.4	1
174	Atomic-Layer Level Control in SiC Crystal Growth Using Gas Source Molecular Beam Epitaxy.. Shinku/Journal of the Vacuum Society of Japan, 1992, 35, 905-911.	0.2	1
175	Atomic Level Control in Crystal Growth Utilizing Reconstruction of the Surface Superstructure. Materials Research Society Symposia Proceedings, 1991, 222, 207.	0.1	0
176	Simulation of light scattering by a particle on a film-coated substrate using coupled-dipole method. Optical Review, 1996, 3, 497-500.	2.0	0
177	Simulation of light scattering by a particle on a film-coated substrate using coupled-dipole method. Optical Review, 1996, 3, A497.	2.0	0
178	<title>Chemical imaging sensor for observation of microscopic pH distribution</title>. , 1998, , .		0
179	Mesoscopic scanning tunneling and atomic force microscopy study of the misfit-layer compounds (LaSe)xNbSe2 and (PbSe)xNbSe2. Surface Science, 1999, 441, 384-390.	1.9	0
180	Atomic surface characterisation and modification of the layered compounds Bi2Se3, Bi1.9Sb0.1Se3 and Bi1.6Sb0.4Se3. Ultramicroscopy, 2001, 86, 55-61.	1.9	0

#	Article	IF	Citations
181	Patterned surface as a template for DNA-based nanotechnology. , 0, , .		0
182	A Light-Addressable Potentiometric Sensor System for Fast, Simultaneous and Spatial Detection of the Metabolic Activity of Biological Cells. , 2007, , .		0
183	VISUALIZATION OF ION DISTRIBUTION BY A CHEMICAL IMAGING SENSOR. , 2009, , .		0
184	Chemical Imaging of ion Diffusion in a Microfluidic Channel. Procedia Engineering, 2012, 47, 886-889.	1.2	0
185	(Bio-)chemical Sensing and Imaging by LAPS and SPIM. Springer Series on Chemical Sensors and Biosensors, 2018, , 103-132.	0.5	0
186	A Gasâ€Sensitive SPIM Sensor for Detection of Ethanol Using SnO₂ as Sensing Element (Phys. Status Solidi A 12â^•2019). Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1970043.	1.8	0
187	A Gasâ€Sensitive SPIM Sensor for Detection of Ethanol Using SnO 2 as Sensing Element. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800766.	1.8	0
188	Imaging detection of ethanol vapor by scanning photo-induced impedance microscopy with suspendedâ€œgate structure. , 2019, , .		0
189	Investigation of Methods for Extracting Features Related to Motor Imagery and Resting States in EEG-Based BCI System. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 1828-1833.	0.2	0
190	Biorobotic Actuator with a Muscle Tissue Driven by a Photostimulation. Lecture Notes in Computer Science, 2012, , 394-395.	1.3	0
191	Development and Bio-imaging Applications of a Chemical Imaging Sensor. Sensors and Materials, 2016, , 1.	0.5	0
192	Development of Brain-Computer Interface (BCI) System for Bridging Brain and Computer. IFMBE Proceedings, 2009, , 2264-2267.	0.3	0
193	Efficient Illumination for a Light-Addressable Potentiometric Sensor. Sensors, 2022, 22, 4541.	3.8	0