

Hiroshi Onishi

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

193
papers

7,754
citations

42
h-index

83
g-index

198
ext. papers

8,151
ext. citations

3.7
avg, IF

5.85
L-index

#	Paper	IF	Citations
193	Artificially Designed Compositionally Graded Sr-Doped NaTaO ₃ Single-Crystalline Thin Films and the Dynamics of Their Photoexcited Electron-Hole Pairs. <i>Chemistry of Materials</i> , 2021 , 33, 226-233	9.6	3
192	Comparison of atomic force microscopy force curve and solvation structure studied by integral equation theory. <i>Journal of Chemical Physics</i> , 2021 , 154, 164702	3.9	1
191	Direct confirmation of the dopant site in indium-doped SrTiO ₃ photocatalyst via atomic-scale analytical transmission electron microscopy imaging. <i>Applied Physics Letters</i> , 2021 , 118, 153901	3.4	2
190	Dependence of Photoexcited Electron Behavior on Octahedral Distortion in Barium-Doped NaTaO ₃ Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2021 , 125, 16403-16412	3.8	0
189	The role of the shell in core-shell-structured La-doped NaTaO photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 8868-8879	3.6	6
188	Microelectrode-based transient amperometry of O adsorption and desorption on a SrTiO photocatalyst excited under water. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19386-19393	3.6	2
187	Atomic-level nature of solid/liquid interface for energy conversion revealed by frequency modulation atomic force microscopy. <i>Japanese Journal of Applied Physics</i> , 2021 , 60, SE0806	1.4	2
186	Water-Splitting Activity of La-Doped NaTaO ₃ Photocatalysts Sensitive to Spatial Distribution of Dopants. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15285-15294	3.8	7
185	Preparation of the NaTaO ₃ Crystal from the KTaO ₃ Substrate via Topotactic Alkaline Cation Substitution as Confirmed by Transmission Electron Microscopy. <i>E-Journal of Surface Science and Nanotechnology</i> , 2020 , 18, 32-37	0.7	
184	Atomic Force Microscopy Imaging of Crystalline Sucrose in Alcohols. <i>ACS Omega</i> , 2020 , 5, 2569-2574	3.9	2
183	Atomic-scale topography of rutile TiO(110) in aqueous solutions: A study involving frequency-modulation atomic force microscopy. <i>Journal of Chemical Physics</i> , 2020 , 152, 054703	3.9	2
182	Single-Crystal Model of Highly Efficient Water-Splitting Photocatalysts: A KTaO ₃ Wafer Doped with Calcium Cations. <i>Chemistry of Materials</i> , 2020 , 32, 1439-1447	9.6	9
181	Visible light responsive La and Fe co-doped NaTaO ₃ photocatalysts: Local structure around dopants. <i>Chemical Physics</i> , 2020 , 531, 110648	2.3	10
180	Transient Kinetics of O ₂ Evolution in Photocatalytic Water-Splitting Reaction. <i>ACS Catalysis</i> , 2020 , 10, 13159-13164	13.1	7
179	Dopant site in indium-doped SrTiO photocatalysts. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 19178-19187	3.5	5
178	Preparation of Visible-light Responsive Rutile-TiO ₂ (110) Wafer with Well-defined Surface by Chromium and Antimony Codoping. <i>E-Journal of Surface Science and Nanotechnology</i> , 2019 , 17, 5-9	0.7	
177	Charge Carrier Dynamics in Sr-Doped NaTaO ₃ Photocatalysts Revealed by Deep Ultraviolet Single-Particle Microspectroscopy. <i>Journal of Physical Chemistry C</i> , 2019 ,	3.8	6

176	Sodium Tantalate Photocatalysts Doped with Metal Cations: Why Are They Active for Water Splitting?. <i>ChemSusChem</i> , 2019 , 12, 1825-1834	8.3	25
175	Electron Population and Water Splitting Activity Controlled by Strontium Cations Doped in KTaO ₃ Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 18387-18397	3.8	14
174	Enhancement of stratification of colloidal particles near a substrate induced by addition of non-adsorbing polymers. <i>Chemical Physics Letters</i> , 2019 , 734, 136705	2.5	1
173	Double Doping of NaTaO ₃ Photocatalysts with Lanthanum and Manganese for Strongly Enhanced Visible-Light Absorption. <i>ACS Applied Energy Materials</i> , 2019 , 2, 7518-7526	6.1	12
172	Nanometer-Scale Distribution of a Lubricant Modifier on Iron Films: A Frequency-Modulation Atomic Force Microscopy Study Combined with a Friction Test. <i>ACS Omega</i> , 2019 , 4, 17593-17599	3.9	6
171	Hydration layers at the graphite-water interface: Attraction or confinement. <i>Physical Review B</i> , 2019 , 100,	3.3	13
170	The atomic-scale structure of LaCrO-NaTaO solid solution photocatalysts with enhanced electron population. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 5148-5157	3.6	13
169	Porphyryns on mica: Atomic force microscopy imaging in organic solvents. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019 , 561, 194-200	5.1	2
168	Local Environment of Strontium Cations Activating NaTaO ₃ Photocatalysts. <i>ACS Catalysis</i> , 2018 , 8, 880-885	8.1	24
167	Molecular-scale structures of the surface and hydration shell of bioinert mixed-charged self-assembled monolayers investigated by frequency modulation atomic force microscopy.. <i>RSC Advances</i> , 2018 , 8, 24660-24664	3.7	8
166	Photoexcited Electrons Driven by Doping Concentration Gradient: Flux-Prepared NaTaO ₃ Photocatalysts Doped with Strontium Cations. <i>ACS Catalysis</i> , 2018 , 8, 9334-9341	13.1	22
165	Heteroepitaxial barium-doped NaTaO ₃ films on SrTiO ₃ (001) substrate. <i>Thin Solid Films</i> , 2018 , 658, 66-72	2.2	7
164	Intrinsic Superhydrophilicity of Titania-Terminated Surfaces. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 2268-2275	3.8	14
163	Cross-Sectional Imaging of Boundary Lubrication Layer Formed by Fatty Acid by Means of Frequency-Modulation Atomic Force Microscopy. <i>Langmuir</i> , 2017 , 33, 10492-10500	4	26
162	Interface structure between tetraglyme and graphite. <i>Journal of Chemical Physics</i> , 2017 , 147, 124701	3.9	11
161	Localization of cesium on montmorillonite surface investigated by frequency modulation atomic force microscopy. <i>Surface Science</i> , 2017 , 665, 32-36	1.8	10
160	The structure of uniaxially stretched isotactic polypropylene sheets: Imaging with frequency-modulation atomic force microscopy. <i>Polymer</i> , 2016 , 82, 349-355	3.9	2
159	Noncontact atomic force and Kelvin probe force microscopy on MgO(100) and MgO(100)-supported Ba. <i>Surface Science</i> , 2016 , 650, 76-82	1.8	

158	Number density distribution of solvent molecules on a substrate: a transform theory for atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 15534-44	3.6	12
157	Electron-Hole Recombination Controlled by Metal Doping Sites in NaTaO ₃ Photocatalysts. <i>ACS Catalysis</i> , 2015 , 5, 3196-3206	13.1	63
156	Rate of Ag Photodeposition on Sr-doped NaTaO ₃ Photocatalysts as Controlled by Doping Sites. <i>E-Journal of Surface Science and Nanotechnology</i> , 2015 , 13, 253-255	0.7	4
155	Atomic-Scale Observation of Cations at Montmorillonite Surfaces. <i>Hyomen Kagaku</i> , 2015 , 36, 398-402		
154	Stereotactic Body Radiotherapy for Localized Ureter Transitional Cell Carcinoma: Three Case Reports. <i>Case Reports in Urology</i> , 2015 , 2015, 519897	0.5	5
153	Force measurement reveals structure of a confined liquid: Observation of the impenetrable space. <i>Surface Science</i> , 2015 , 641, 242-246	1.8	6
152	Effect of Etching on Electron-Hole Recombination in Sr-Doped NaTaO ₃ Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 28440-28447	3.8	24
151	Understanding the Interface of Liquids with an Organic Crystal Surface from Atomistic Simulations and AFM Experiments. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2058-2066	3.8	23
150	Mercaptohexanol assembled on gold: FM-AFM imaging in water. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014 , 441, 149-154	5.1	13
149	True atomic-scale imaging of a spinel Li ₄ Ti ₅ O ₁₂ (111) surface in aqueous solution by frequency-modulation atomic force microscopy. <i>Applied Physics Letters</i> , 2014 , 105, 111606	3.4	5
148	Sub-nanometer-resolution imaging of peptide nanotubes in water using frequency modulation atomic force microscopy. <i>Chemical Physics</i> , 2013 , 419, 74-77	2.3	10
147	Atom-resolved AFM imaging of calcite nanoparticles in water. <i>Chemical Physics</i> , 2013 , 419, 193-195	2.3	7
146	Water and 2-propanol structured on calcite (104) probed by frequency-modulation atomic force microscopy. <i>Langmuir</i> , 2013 , 29, 10744-51	4	55
145	Specific Hydration on p-Nitroaniline Crystal Studied by Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 2939-2943	3.8	25
144	Interfacial Structure of Primary and Tertiary Liquid Alcohols over Hydrophilic Thiolate Monolayers. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 5730-5735	3.8	9
143	Competitive adsorption on graphite investigated using frequency-modulation atomic force microscopy: interfacial liquid structure controlled by the competition of adsorbed species. <i>Langmuir</i> , 2013 , 29, 5801-5	4	4
142	Time-Resolved Infrared Absorption Study of SrTiO ₃ Photocatalysts Codoped with Rhodium and Antimony. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 19101-19106	3.8	73
141	Phonon mode of TiO ₂ coupled with the electron transfer from N3 dye. <i>Journal of Chemical Physics</i> , 2013 , 138, 224704	3.9	3

140	The relationship between local liquid density and force applied on a tip of atomic force microscope: a theoretical analysis for simple liquids. <i>Journal of Chemical Physics</i> , 2013 , 139, 224710	3.9	47
139	Hydration of hydrophilic thiolate monolayers visualized by atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2012 , 14, 8419-24	3.6	39
138	Minitips in Frequency-Modulation Atomic Force Microscopy at Liquid-Solid Interfaces. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 025703	1.4	7
137	Kelvin probe force microscopy study of a Pt/TiO ₂ catalyst model placed in an atmospheric pressure of N ₂ environment. <i>Chemistry - an Asian Journal</i> , 2012 , 7, 1251-5	4.5	11
136	Two-dimensional distribution of liquid hydrocarbons facing alkanethiol monolayers visualized by frequency modulation atomic force microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012 , 396, 203-207	5.1	26
135	Cross-Sectional Structure of Liquid 1-Decanol over Graphite. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26475-26479	3.8	40
134	FM-AFM imaging of a commercial polyethylene film immersed in n-dodecane. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 084011	1.8	9
133	Minitips in Frequency-Modulation Atomic Force Microscopy at Liquid-Solid Interfaces. <i>Japanese Journal of Applied Physics</i> , 2012 , 51, 025703	1.4	9
132	Noncontact Atomic Force Microscopy and Related Topics 2011 , 195-237		2
131	Molecular Science at Interfaces. <i>Molecular Science</i> , 2011 , 5, A0045	0	
130	Surface Science of NaTaO ₃ Photocatalysts. <i>Hyomen Kagaku</i> , 2011 , 32, 88-92		
129	Surface Science Approach to Photochemistry of TiO ₂ . <i>Solid State Phenomena</i> , 2010 , 162, 115-133	0.4	4
128	Black-Dye-Adsorbed TiO ₂ (110) Electrodes Studied by Frequency-Modulation Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2010 , 49, 08LB06	1.4	
127	Acetone Adsorption on Oxidized and Reduced TiO ₂ (110): A Scanning Tunneling Microscope Study. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 14579-14582	3.8	13
126	Aqueous Solution Structure over α -Al ₂ O ₃ (011 2) Probed by Frequency-Modulation Atomic Force Microscopy. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21423-21426	3.8	44
125	STM imaging of a model surface of Ru(4,4'-dicarboxy-2,2'-bipyridine) ₂ (NCS) ₂ dye-sensitized TiO ₂ photoelectrodes. <i>Surface Science</i> , 2010 , 604, 106-110	1.8	21
124	Noncontact Atomic Force Microscopy and Related Topics 2010 , 635-662		1
123	Solution-TiO ₂ Interface Probed by Frequency-Modulation Atomic Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009 , 48, 08JB19	1.4	18

122	Optically excited near-surface phonons of TiO ₂ (110) observed by fourth-order coherent Raman spectroscopy. <i>Journal of Chemical Physics</i> , 2009 , 131, 084703	3.9	13
121	The effects of antimony doping on the surface structure of rutile TiO ₂ (110). <i>Nanotechnology</i> , 2009 , 20, 264003	3.4	15
120	Metal-to-Oxide Charge Transfer Observed by a Kelvin Probe Force Microscope. <i>Catalysis Surveys From Asia</i> , 2009 , 13, 9-15	2.8	16
119	Lateral distribution of N3 dye molecules on TiO ₂ (110) surface. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 202, 185-190	4.7	10
118	Cr/Sb co-doped TiO ₂ from first principles calculations. <i>Chemical Physics Letters</i> , 2009 , 469, 166-171	2.5	79
117	Evidence for Vacancy Creation by Chromium Doping of Rutile Titanium Dioxide (110). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 3277-3280	3.8	32
116	Time-Domain Infrared/Visible/Visible Sum-Frequency Generation for Surface Vibrational Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 21467-21470	3.8	4
115	Time-Resolved Infrared Absorption Study of NaTaO ₃ Photocatalysts Doped with Alkali Earth Metals. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13918-13923	3.8	50
114	Fourth-order coherent Raman spectroscopy of liquid-solid interfaces: near-surface phonons of TiO ₂ (110) in liquids. <i>Applied Spectroscopy</i> , 2009 , 63, 941-6	3.1	2
113	Surface Reconstruction Induced by Transition Metal Doping of Rutile Titanium Dioxide (110). <i>Journal of Physical Chemistry C</i> , 2009 , 113, 13199-13203	3.8	14
112	Photoinduced Dynamics of TiO ₂ Doped with Cr and Sb. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 1167-1173	3.7	102
111	Kelvin Probe Force Microscope Observation of Chlorine-Adsorbed TiO ₂ (110) Surfaces. <i>Japanese Journal of Applied Physics</i> , 2008 , 47, 6149-6152	1.4	8
110	Work Function on Dye-Adsorbed TiO ₂ Surfaces Measured by Using a Kelvin Probe Force Microscope. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 6961-6967	3.8	21
109	Scanning tunneling microscopy study of black dye and deoxycholic acid adsorbed on a rutile TiO ₂ (110). <i>Langmuir</i> , 2008 , 24, 8056-60	4	44
108	Fourth-order Raman spectroscopy of adsorbed organic species on TiO ₂ surface. <i>Chemical Physics Letters</i> , 2008 , 455, 343-347	2.5	6
107	Fourth-order coherent Raman spectroscopy in a time domain: applications to buried interfaces. <i>Physical Chemistry Chemical Physics</i> , 2007 , 9, 5515-21	3.6	21
106	Time-resolved infrared absorption study of nine TiO ₂ photocatalysts. <i>Chemical Physics</i> , 2007 , 339, 133-137	3.7	41
105	Noncontact Atomic Force Microscopy and Related Topics 2007 , 651-678		1

104	Local work function of Pt clusters vacuum-deposited on a TiO ₂ surface. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17584-8	3-4	64
103	Time-resolved infrared spectroscopy of K ₃ Ta ₃ B ₂ O ₁₂ photocatalysts for water splitting. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 7883-6	3-4	25
102	AFM observation of immobilized self-oscillating polymer. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 5170-3	3-4	36
101	Probe microscope observation of platinum atoms deposited on the TiO ₂ (110)-(1 x 1) surface. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13453-7	3-4	78
100	STM observation of a ruthenium dye adsorbed on a TiO ₂ (110) surface. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 4751-5	3-4	55
99	Molecular vibrations at a liquid-liquid interface observed by fourth-order Raman spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 9571-8	3-4	16
98	????STM?????????????. <i>Electrochemistry</i> , 2006 , 74, 401-405	1.2	
97	Direct visualization of defect-mediated dissociation of water on TiO ₂ (110). <i>Nature Materials</i> , 2006 , 5, 189-192	27	536
96	Transient IR absorption study of charge carriers photogenerated in sulfur-doped TiO ₂ . <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2006 , 177, 269-275	4-7	72
95	Photochemical reaction of trimethyl acetate on Pt/TiO ₂ (110). <i>Langmuir</i> , 2005 , 21, 11802-5	4	24
94	Fourth-order Raman spectroscopy of wide-band gap materials. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8557-61	3-4	22
93	Low-frequency vibrations of molecular submonolayers detected by time-domain Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2005 , 735-736, 169-177	3-4	8
92	Time-resolved Infrared Absorption Study of Photochemical Reactions Over Metal Oxides. <i>Topics in Catalysis</i> , 2005 , 35, 211-216	2-3	14
91	Adsorption of Fluorescein Isothiocyanate Isomer-I (FITC-I) Dye on TiO ₂ (110) from an Acetone Solution. <i>Japanese Journal of Applied Physics</i> , 2005 , 44, 5438-5442	1-4	11
90	Topography of anatase TiO ₂ film synthesized on LaAlO ₃ (001). <i>Nanotechnology</i> , 2005 , 16, S18-S21	3-4	22
89	Noncontact Atomic Force Microscopy and Its Related Topics 2005 , 141-183		1
88	Formate Adsorption on the (111) Surface of Rutile TiO ₂ . <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13706-13710	3-4	130
87	Non-contact atomic force microscopy using silicon cantilevers covered with organic monolayers via silicon-carbon covalent bonds. <i>Nanotechnology</i> , 2004 , 15, S65-S68	3-4	5

86	Individual Na Adatoms on TiO ₂ (110)-(1 $\bar{1}$) Surface Observed Using Kelvin Probe Force Microscope. <i>Japanese Journal of Applied Physics</i> , 2004 , 43, 4647-4650	1.4	27
85	Stereotactic hypofractionated high-dose irradiation for stage I nonsmall cell lung carcinoma: clinical outcomes in 245 subjects in a Japanese multiinstitutional study. <i>Cancer</i> , 2004 , 101, 1623-31	6.4	711
84	Time-Domain Raman Measurement of Molecular Submonolayers by Time-Resolved Reflection Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 1525-1528	3.4	8
83	Topography of the rutile TiO ₂ (110) surface exposed to water and organic solvents. <i>Langmuir</i> , 2004 , 20, 4782-3	4	27
82	Photoinduced Redox Reaction Coupled with Limited Electron Mobility at Metal Oxide Surface. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10621-10624	3.4	52
81	Interface-Specific Vibrational Spectroscopy of Molecules with Visible Lights. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 10636-10639	3.4	28
80	Fifth-Order Raman Spectroscopy of Excited-State Molecules. <i>Journal of Physical Chemistry A</i> , 2004 , 108, 11165-11171	2.8	10
79	Effect of Annealing Temperature on Back Electron Transfer and Distribution of Deep Trap Sites in Dye-Sensitized TiO ₂ , Studied by Time-Resolved Infrared Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 2963-2969	3.4	30
78	An Ordered Retinoate Monolayer Prepared on Rutile TiO ₂ (110). <i>Journal of Physical Chemistry B</i> , 2004 , 108, 17166-17170	3.4	23
77	Oxygen-Atom Vacancies Imaged by a Noncontact Atomic Force Microscope Operated in an Atmospheric Pressure of N ₂ Gas. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15735-15737	3.4	26
76	Carrier Dynamics in TiO ₂ and Pt/TiO ₂ Powders Observed by Femtosecond Time-Resolved Near-Infrared Spectroscopy at a Spectral Region of 0.9 $\bar{1}$.5 μ m with the Direct Absorption Method. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 20233-20239	3.4	91
75	CO ₂ Sensing Properties of La-loaded SnO ₂ Thin Films Prepared by Sputtering. <i>Chemistry Letters</i> , 2004 , 33, 1080-1081	1.7	3
74	Multiplex Sum-frequency Spectroscopy with Electronic Resonance Enhancement. <i>Chemistry Letters</i> , 2004 , 33, 1404-1407	1.7	9
73	Multiplex Infrared-visible Sum-frequency Generation Spectroscopy and Its Applications to Organic Monolayers. <i>Shinku/Journal of the Vacuum Society of Japan</i> , 2004 , 47, 431-438		
72	Noncontact Atomic Force Microscopy and Its Related Topics 2004 , 385-411		
71	Noncontact Atomic Force Microscopy and Its Related Topics 2004 , 385-411		0
70	27 Time-resolved infrared absorption study of electron- and hole-capture reactions on photoexcited Pt/TiO ₂ in the presence of methanol-water vapor mixture. <i>Studies in Surface Science and Catalysis</i> , 2003 , 145, 157-160	1.8	
69	Pressure dependence of electron- and hole-consuming reactions in photocatalytic water splitting on Pt/TiO ₂ studied by time-resolved IR absorption spectroscopy. <i>International Journal of Photoenergy</i> , 2003 , 5, 7-9	2.1	25

68	Electron- and Hole-transfer from TiO ₂ Particles to Adsorbates Studied by Time-Resolved Infrared Absorption Spectroscopy.. <i>Hyomen Kagaku</i> , 2003 , 24, 46-52		3
67	Elucidation of CO ₂ Formation Mechanism in CO + NO Reaction on Pd(111) and Pd(110) Surfaces Using IR Chemiluminescence Method. <i>Catalysis Letters</i> , 2003 , 85, 213-216	2.8	15
66	Photophysics and Electron Dynamics in Dye-Sensitized Semiconductor Film Studied by Time-Resolved Mid-IR Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4156-4161	3.4	37
65	Molecular conformation of n-alkyl monolayers covalently bonded to Si(1 1 1) probed by infrared-visible sum-frequency spectroscopy. <i>Chemical Physics Letters</i> , 2003 , 367, 376-381	2.5	17
64	Microsecond kinetics of photocatalytic oxidation on Pt/TiO ₂ traced by vibrational spectroscopy. <i>Chemical Physics Letters</i> , 2003 , 376, 576-580	2.5	33
63	Local work function of a rutile TiO ₂ (110) surface observed by Kelvin probe force microscopy. <i>Surface Science</i> , 2003 , 529, L245-L250	1.8	22
62	Effects of accumulated electrons on the decay kinetics of photogenerated electrons in Pt/TiO ₂ photocatalyst studied by time-resolved infrared absorption spectroscopy. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2003 , 160, 33-36	4.7	21
61	Kinetics of the photocatalytic water-splitting reaction on TiO ₂ and Pt/TiO ₂ studied by time-resolved infrared absorption spectroscopy. <i>Journal of Molecular Catalysis A</i> , 2003 , 199, 85-94		121
60	Carboxylates Adsorbed on TiO ₂ (110). <i>Springer Series in Chemical Physics</i> , 2003 , 75-89	0.3	13
59	Photochemical charge transfer and trapping at the interface between an organic adlayer and an oxide semiconductor. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14974-5	16.4	157
58	Effects of Water Addition on the Methanol Oxidation on Pt/TiO ₂ Photocatalyst Studied by Time-Resolved Infrared Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9820-9823	3.4	71
57	Chemical Identification of Carboxylate Surfactants with One-Fluorine-Atom Sensitivity Achieved by Noncontact Atomic Force Microscopy. <i>Langmuir</i> , 2003 , 19, 7474-7477	4	8
56	The Dependence of Scanning Tunneling Microscope Topography of Carboxylates on Their Terminal Groups. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 13925-13928	3.4	19
55	Chemical Recognition at an Atomically Flat Surface of Metal Oxide. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 9939-9942	3.4	3
54	Photodynamics of NaTaO ₃ Catalysts for Efficient Water Splitting. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 14383-14387	3.4	139
53	Molecule-dependent topography determined by noncontact atomic force microscopy: carboxylates on TiO ₂ (1 1 0). <i>Applied Surface Science</i> , 2002 , 188, 257-264	6.7	34
52	A needle-like organic molecule imaged by noncontact atomic force microscopy. <i>Applied Surface Science</i> , 2002 , 188, 265-271	6.7	35
51	Formic Acid Adsorption on Anatase TiO ₂ (001) Thin Films Studied by NC-AFM and STM	3.4	78

50	A multiplex infrared-visible sum-frequency spectrometer with wavelength tunability of the visible probe. <i>Applied Physics Letters</i> , 2002 , 81, 1338-1340	3.4	43
49	Time-Resolved Infrared Absorption Studies of Surface OH Groups on TiO ₂ Particles Irradiated by UV Pulses. <i>Bulletin of the Chemical Society of Japan</i> , 2002 , 75, 1019-1022	5.1	15
48	Microscopic Identification of a Bimolecular Reaction Intermediate. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 11549-11552	3.4	25
47	Electron- and Hole-Capture Reactions on Pt/TiO ₂ Photocatalyst Exposed to Methanol Vapor Studied with Time-Resolved Infrared Absorption Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9122-9125	3.4	194
46	Multiplex Infrared-Visible Sum-Frequency Spectrometer with a Phase-Conjugated Pulse Mixing Device for Narrow-Bandwidth Visible Probe Generation. <i>Applied Spectroscopy</i> , 2002 , 56, 1298-1302	3.1	26
45	Noncontact Atomic Force Microscopy. Noncontact Atomic Force Microscope Topography of Adsorbed Organic Molecules. <i>Hyomen Kagaku</i> , 2002 , 23, 186-193		
44	Single-Molecule Analysis. <i>Nanoscience and Technology</i> , 2002 , 215-231	0.6	1
43	Observation of individual adsorbed pyridine, ammonia, and water on TiO ₂ (110) by means of scanning tunneling microscopy. <i>Studies in Surface Science and Catalysis</i> , 2001 , 753-756	1.8	13
42	Time-resolved infrared absorption spectroscopy of photogenerated electrons in platinumized TiO ₂ particles. <i>Chemical Physics Letters</i> , 2001 , 333, 271-277	2.5	169
41	Vibrationally resonant sum-frequency generation spectral shape dependent on the interval between picosecond-visible and femtosecond-infrared laser pulses. <i>Chemical Physics Letters</i> , 2001 , 346, 413-418	2.5	24
40	Noncontact atomic force microscope topography dependent on the electrostatic dipole field of individual molecules. <i>Physical Review B</i> , 2001 , 64,	3.3	37
39	Single-Molecule Analysis by Noncontact Atomic Force Microscopy. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 1-4	3.4	61
38	Water- and Oxygen-Induced Decay Kinetics of Photogenerated Electrons in TiO ₂ and Pt/TiO ₂ : A Time-Resolved Infrared Absorption Study. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 7258-7262	3.4	269
37	Image topography of alkyl-substituted carboxylates observed by noncontact atomic force microscopy. <i>Surface Science</i> , 2001 , 481, L437-L442	1.8	31
36	In situ STM study of surface catalytic reactions on TiO ₂ (110) relevant to catalyst design. <i>Topics in Catalysis</i> , 2000 , 14, 163-172	2.3	13
35	Scanning Tunneling Microscopy Study of Surface Reconstructions of Rutile TiO ₂ (111). <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 3769-3772	1.4	11
34	Noncontact-Mode Atomic Force Microscopy Observation of Al ₂ O ₃ (0001) Surface. <i>Japanese Journal of Applied Physics</i> , 2000 , 39, 3773-3776	1.4	12
33	Hydrogen adatoms on TiO ₂ (110)-(1x1) characterized by scanning tunneling microscopy and electron stimulated desorption. <i>Physical Review Letters</i> , 2000 , 84, 2156-9	7.4	167

32	Space-Correlation Analysis of Formate Ions Adsorbed on TiO ₂ (110). <i>Japanese Journal of Applied Physics</i> , 1999 , 38, 3830-3832	1.4	11
31	Imaging of atomic-scale structure of oxide surfaces and adsorbed molecules by noncontact atomic force microscopy. <i>Applied Surface Science</i> , 1999 , 140, 259-264	6.7	29
30	The condensation reaction of pyridine on TiO ₂ (110): STM observation in the presence of the reactant atmosphere. <i>Chemical Physics Letters</i> , 1999 , 304, 225-230	2.5	17
29	Structure and dynamic behaviour of atoms and molecules at catalyst model surfaces. <i>Surface and Interface Analysis</i> , 1999 , 28, 135-141	1.5	1
28	The selective adsorption and kinetic behaviour of molecules on TiO ₂ (110) observed by STM and NC-AFM. <i>Faraday Discussions</i> , 1999 , 114, 259-266	3.6	27
27	Identification of individual 4-methylpyridine molecules physisorbed and chemisorbed on TiO ₂ (110)-(1 × 1) surface by STM. <i>Catalysis Letters</i> , 1998 , 54, 177-180	2.8	16
26	STM visualization of site-specific adsorption of pyridine on TiO ₂ (110). <i>Catalysis Letters</i> , 1998 , 50, 117-123	2.8	30
25	Study of pyridine and its derivatives adsorbed on a TiO ₂ (110) surface by means of STM, TDS, XPS and MD calculation in relation to surface acid-base interaction. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1998 , 94, 161-166		50
24	Atom-Resolved Image of the TiO ₂ (110) Surface by Noncontact Atomic Force Microscopy. <i>Physical Review Letters</i> , 1997 , 79, 4202-4205	7.4	237
23	Low-energy electron diffraction analysis of the Pd(100)-p(2 × 2)-p4g-Al surface: a buried-heteroatom structure. <i>Surface Science</i> , 1997 , 392, L51-L55	1.8	9
22	Imaging of individual formate ions adsorbed on TiO ₂ (110) surface by non-contact atomic force microscopy. <i>Chemical Physics Letters</i> , 1997 , 280, 296-301	2.5	93
21	STM observation of surface reactions on a metal oxide. <i>Surface Science</i> , 1996 , 357-358, 773-776	1.8	33
20	Atom-resolved observation of Na ensembles activating CO ₂ adsorption on a TiO ₂ (110)-(1 × 1) surface as the genesis of basic sites. <i>Catalysis Letters</i> , 1996 , 38, 89-94	2.8	38
19	Molecularly resolved observation of anisotropic intermolecular force in a formate-ion monolayer on a TiO ₂ (110) surface by scanning tunneling microscopy. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996 , 109, 335-343	5.1	37
18	Temperature-Jump STM Observation of Reaction Intermediate on Metal Oxide Surfaces. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 9582-9584		50
17	Dynamic visualization of a metal-oxide-surface/gas-phase reaction: Time-resolved observation by scanning tunneling microscopy at 800 K. <i>Physical Review Letters</i> , 1996 , 76, 791-794	7.4	234
16	Special Issue on Recent Developments of the Study on Catalytic Reaction Mechanisms. Atomic-Scale STM-Visualization of Dynamic Surface Processes of Metal Oxide Catalyst.. <i>Hyomen Kagaku</i> , 1996 , 17, 188-193		
15	Adsorption and Thermal or Photodecomposition of Triethylgallium and Trimethylgallium on Si(111) × 7. <i>Japanese Journal of Applied Physics</i> , 1995 , 34, 4910-4916	1.4	2

14	Catalytic decomposition reaction of formic acid on an Ar ⁺ -bombarded TiO ₂ (110) surface : steady-state kinetics and microscopic surface structure. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995 , 91, 1663		22
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12	Removal of Adsorbed Organic Molecules with Scanning Tunneling Microscope: Formate Anions on $\text{TiO}_2(110)$ Surface. <i>Japanese Journal of Applied Physics</i> , 1994 , 33, L1338-L1341	1.4	30
11	STM-imaging of formate intermediates adsorbed on a TiO ₂ (110) surface. <i>Chemical Physics Letters</i> , 1994 , 226, 111-114	2.5	155
10	Observation of Anisotropic Migration of Adsorbed Organic Species Using Nanoscale Patchworks Fabricated with a Scanning Tunneling Microscope. <i>Langmuir</i> , 1994 , 10, 4414-4416	4	37
9	Reconstruction of TiO ₂ (110) surface: STM study with atomic-scale resolution. <i>Surface Science</i> , 1994 , 313, L783-L789	1.8	301
8	Na ₂ O overlayers epitaxially prepared on Pd(100) and structure-sensitive CO ₂ adsorption. <i>Surface Science</i> , 1994 , 310, 135-146	1.8	11
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6	Catalytic reactions on a metal oxide single crystal: switchover of the reaction paths in formic acid decomposition on titanium dioxide TiO ₂ (110). <i>Journal of the American Chemical Society</i> , 1993 , 115, 10460-10464	16.4	54
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3	Adsorption of CH ₃ OH, HCOOH and SO ₂ on TiO ₂ (110) and stepped TiO ₂ (441) surfaces. <i>Surface Science</i> , 1988 , 193, 33-46	1.8	152
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