

# Surface defects of TiO<sub>2</sub>(110): A combined XPS, XAES AND

Surface Science

139, 333-346

DOI: 10.1016/0039-6028(84)90054-2

Citation Report

#	ARTICLE	IF	CITATIONS
1	Localized and delocalized vibrations onTiO2(110) studied by high-resolution electron-energy-loss spectroscopy. Physical Review B, 1984, 30, 3704-3708.	1.1	85
2	Chemisorption and charge transfer at ionic semiconductor surfaces: Implications in designing gas sensors. Progress in Surface Science, 1985, 20, 9-103.	3.8	289
3	The surfaces of metal oxides. Reports on Progress in Physics, 1985, 48, 1481-1541.	8.1	553
4	Electronic study of SrTiO3(001) surfaces by photoemission. Surface Science, 1985, 162, 34-38.	0.8	102
5	Stimulated desorption studies of defect structures on TiO2. Surface Science, 1986, 177, 526-552.	0.8	75
6	Chemisorption of H2 and CO on stoichiometric and defective TiO2(110). Surface Science, 1986, 175, L675-L680.	0.8	22
7	A photoelectron and energy-loss spectroscopy study of Ti and its interaction with H2, O2, N2 and NH3. Surface Science, 1986, 167, 207-230.	0.8	73
8	The High-Resolution Electron-Energy-Loss Spectrum of TiO2 (110). Studies in Surface Science and Catalysis, 1986, 26, 117-126.	1.5	0
9	Vibrations Measured at Surfaces by High Resolution Electron Energy Loss Spectroscopy: Updated Review (1982â€“1985). Studies in Surface Science and Catalysis, 1986, 26, 273-288.	1.5	0
10	Optical Absorbance and Photoelectrochemical Quantum Efficiency of Titanium Oxide Modified by Ion Implantation and Reductive/Oxidative Annealing. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1986, 90, 593-598.	0.9	2
11	Chemisorption of H2 and CO on stoichiometric and defective TiO2(110). Surface Science Letters, 1986, 175, L675-L680.	0.1	1
12	The high-resolution electron-energy-loss spectrum of TiO2(110). Journal of Electron Spectroscopy and Related Phenomena, 1986, 39, 117-126.	0.8	32
13	Vibrations measured at surfaces by high resolution electron energy loss spectroscopy : updated review (1982â€“1985). Journal of Electron Spectroscopy and Related Phenomena, 1986, 39, 273-288.	0.8	12
14	An investigation of air-grown yttrium oxide and experimental determination of the sputtering yield and the inelastic mean free path. Applied Surface Science, 1986, 26, 196-210.	3.1	38
15	Interaction ofSO2with nearly perfect and defectTiO2(110) surfaces. Physical Review B, 1987, 35, 5822-5829.	1.1	76
16	Electronic excitations at oxygen deficient TiO2(110) surfaces: A study by EELS. Surface Science, 1987, 180, 263-278.	0.8	96
17	An auger study of the adsorption of oxygen on TiNi, TiFe and Ti4Fe2O. Surface Science, 1987, 179, 483-497.	0.8	17
18	Titanium overlayers on TiO2(110). Surface Science, 1987, 181, 530-558.	0.8	91

#	ARTICLE	IF	CITATIONS
19	Electron spectroscopic studies of perfect and defect metal oxide surfaces. Physics and Chemistry of Minerals, 1987, 14, 396-400.	0.3	8
20	4 Titanium. Coordination Chemistry Reviews, 1987, 78, 147-251.	9.5	2
21	The effect of plasma-sprayed calcium phosphate ceramic coatings on the metal ion release from porous titanium and cobalt-chromium alloys. Journal of Biomedical Materials Research Part B, 1988, 22, 1137-1163.	3.0	129
22	The role of oxygen vacancies during the decomposition of RhCl <sub>3</sub> /TiO <sub>2</sub> precursor: study by XPS, IR, EPR and NMR.. Catalysis Today, 1988, 2, 663-673.	2.2	16
23	Surface and bulk properties of TiO <sub>2</sub> in relation to sensor applications. Solid State Ionics, 1988, 28-30, 1423-1430.	1.3	24
24	XPS and TDS studies of trapping states of helium implanted in TiO <sub>2</sub> . Journal of Nuclear Materials, 1988, 152, 295-300.	1.3	4
25	Strong metal-support interaction: The role of electronic and geometric factors in real Me/TiO <sub>2</sub> catalysts. Journal of Catalysis, 1988, 110, 262-274.	3.1	29
26	Oxygen vacancies and defect electronic states on the SnO <sub>2</sub> (110)-1 $\bar{1}$ surface. Physical Review B, 1988, 38, 2072-2083.	1.1	376
27	The surface structure of RuO <sub>2</sub> : A lead, auger and XPS study of the (110) and (100) faces. Surface Science, 1988, 202, 142-166.	0.8	86
28	Structure of $\hat{1}\pm$ -Fe <sub>2</sub> O <sub>3</sub> single crystal surfaces following Ar <sup>+</sup> ion bombardment and annealing in O <sub>2</sub> . Surface Science, 1988, 193, 81-93.	0.8	165
29	Modification of surface electronic structure on TiO <sub>2</sub> (110) and TiO <sub>2</sub> (441) by Na deposition. Surface Science, 1988, 199, 54-66.	0.8	125
30	Electron-energy-loss study of the TiO <sub>2</sub> (110) surface. Physical Review B, 1988, 37, 8417-8423.	1.1	31
31	Formation of rutile TiO <sub>2</sub> induced by high-dose O <sup>+</sup> implantation and its characteristics. Nuclear Instruments & Methods in Physics Research B, 1989, 39, 619-622.	0.6	19
32	Target temperature dependence on titanium oxide formation by high-dose oxygen ion implantation into titanium sheets. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 1989, 115, 79-82.	2.6	8
33	Preparation and surface spectroscopic characterization of oxide films on Ti6Al4V. Applied Surface Science, 1989, 35, 283-301.	3.1	191
34	Theoretical study of TiO <sub>2</sub> surfaces. Surface Science Letters, 1989, 219, L537-L542.	0.1	0
35	Compositional changes induced by 3.5 keV Ar <sup>+</sup> ion bombardment in Ni-Ti oxide systems. Surface Science, 1989, 220, 368-380.	0.8	97
36	Theoretical study of TiO <sub>2</sub> surfaces. Surface Science, 1989, 219, L537-L542.	0.8	28

#	ARTICLE	IF	CITATIONS
37	Synchrotron radiation studies of H <sub>2</sub> O adsorption on TiO <sub>2</sub> (110). Surface Science, 1989, 218, 178-200.	0.8	534
38	XPS study of phase mobility in Ni/TiO <sub>2</sub> systems. Surface Science, 1989, 211-212, 1113-1122.	0.8	13
39	Studies of the electronic structure of ultrathin Cu films on a TiO <sub>2</sub> (110) surface. Surface Science, 1989, 224, 250-264.	0.8	78
40	Oxide overlayers and the superconducting properties of yttrium-processed high purity Nb. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 297, 321-328.	0.7	15
41	Surface spectroscopic characterization of titanium implant materials. Applied Surface Science, 1990, 44, 133-146.	3.1	297
42	Ultrathin films of CuCl on TiO <sub>2</sub> (110): electronic structure and surface reconstruction. Vacuum, 1990, 41, 1418-1421.	1.6	5
43	Electronic and structural properties of TiO <sub>2</sub> in the rutile structure. Solid State Communications, 1990, 76, 635-638.	0.9	47
44	Photoelectron study of SrTiO <sub>3</sub> : An inspection of core-level binding energies with the use of a point-ion model and self-consistent atomic-structure calculations. Physical Review B, 1990, 42, 9127-9142.	1.1	36
45	Single crystal RuO <sub>2</sub> /Ti and RuO <sub>2</sub> /TiO <sub>2</sub> interface: LEED, Auger and XPS study. Surface Science, 1990, 230, 95-112.	0.8	35
46	STM tunneling spectroscopy of TiO <sub>2</sub> (001) in air. Surface Science, 1990, 225, L1-L7.	0.8	21
47	Interactions in the Fe/TiO <sub>2</sub> (110) system. Surface Science, 1991, 249, 213-222.	0.8	44
48	Electronic interaction of Ni particles with TiO <sub>2</sub> and SiO <sub>2</sub> . Surface Science, 1991, 251-252, 1012-1017.	0.8	16
49	Effect of surface treatment on SrTiO <sub>3</sub> : An x-ray photoelectron spectroscopic study. Journal of Applied Physics, 1991, 69, 459-462.	1.1	65
50	Cation-ligand hybridization for stoichiometric and reduced TiO <sub>2</sub> (110) surfaces determined by resonant photoemission. Physical Review B, 1991, 43, 12004-12011.	1.1	239
51	Electronic And Structural Properties Of Interfaces Created By Potassium Deposition ON TiO <sub>2</sub> (110) Surfaces. Materials Research Society Symposia Proceedings, 1991, 238, 823.	0.1	11
52	Role of hydrogen in the mobility of phases in Ni <sub>3</sub> Sb/TiO <sub>x</sub> systems. Journal of Catalysis, 1991, 131, 51-59.	3.1	20
53	Energy deposition effects of additional ion bombardment on titanium oxides formed by oxygen implantation. Nuclear Instruments & Methods in Physics Research B, 1991, 61, 44-47.	0.6	9
54	ARXPS ? Studies of nucleation and make-up of sputtered TiN-layers. Fresenius' Journal of Analytical Chemistry, 1991, 341, 320-324.	1.5	21

#	ARTICLE	IF	CITATIONS
55	Ar-ion bombardment effects on ZrO <sub>2</sub> surfaces. Physical Review B, 1992, 45, 1391-1398.	1.1	88
56	Structural and electronic properties of titanium dioxide. Physical Review B, 1992, 46, 1284-1298.	1.1	367
57	Characterization of sapphire surfaces by electron energy-loss spectroscopy. Surface Science, 1992, 273, 427-436.	0.8	87
58	Effect of reduction on the topographic and electronic structure of TiO <sub>2</sub> (110) surfaces. Surface Science, 1992, 274, 35-43.	0.8	56
59	Structure of the TiO <sub>2</sub> (100) 1 Å– 3 surface determined by glancing angle X-ray diffraction and low energy electron diffraction. Surface Science, 1992, 262, 395-408.	0.8	77
60	Surface-dependent pathways for formaldehyde oxidation and reduction on TiO <sub>2</sub> (001). Surface Science, 1992, 262, 113-127.	0.8	103
61	Adsorbate induced phase changes of rhodium on TiO <sub>2</sub> (110). Surface Science, 1992, 279, L159-L164.	0.8	40
62	Electronic structure effects of potassium adsorption on TiO <sub>2</sub> (100). Surface Science, 1992, 269-270, 677-681.	0.8	33
63	Semiempirical calculations of TiO <sub>2</sub> (rutile) clusters. International Journal of Quantum Chemistry, 1992, 44, 477-495.	1.0	36
64	Hydration and preferential molecular adsorption on titanium in vitro. Biomaterials, 1992, 13, 553-561.	5.7	243
65	Adsorbate induced phase changes of rhodium on TiO <sub>2</sub> (110). Surface Science Letters, 1992, 279, L159-L164.	0.1	1
66	Oxidation kinetics of titanium thin films in model physiologic environments. Journal of Colloid and Interface Science, 1992, 150, 404-417.	5.0	46
67	The role of hydrogen in the development of electronic interactions in Ni-titanium oxide systems. Applied Surface Science, 1992, 62, 137-143.	3.1	2
68	In-situ X-ray photoelectron spectroscopic study of the reversible phase transition between CoO and Co <sub>3</sub> O <sub>4</sub> in oxygen of 10 <sup>-3</sup> Pa. Applied Surface Science, 1992, 55, 37-41.	3.1	177
69	Hydroxylation and crystallization of electropolished titanium surface. Ultramicroscopy, 1992, 42-44, 637-643.	0.8	16
70	XPS studies of SiO <sub>2</sub> -TiO <sub>2</sub> powders prepared by sol-gel process. Applied Surface Science, 1993, 70-71, 230-234.	3.1	95
71	Electronic and chemical interactions at aluminum/TiO <sub>2</sub> (110) interfaces. Surface Science Letters, 1993, 289, A508.	0.1	0
72	Photoelectron spectroscopic and surface resistance measurements of TiO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> after rare-gas sputtering. Surface and Interface Analysis, 1993, 20, 682-686.	0.8	5

#	ARTICLE	IF	CITATIONS
73	XPS and ISS study of NiTiO <sub>3</sub> and PbTiO <sub>3</sub> subjected to low-energy ion bombardment. I. Influence of the type of ion (Ar <sup>+</sup> and O <sup>2+</sup> ). Surface and Interface Analysis, 1993, 20, 941-948.	0.8	42
74	Local Structure of Defects on Hydrogen- and Vacuum-Reduced TiO <sub>2</sub> Surfaces. Journal of the American Ceramic Society, 1993, 76, 1137-1142.	1.9	18
75	The encapsulation of Fe on TiO <sub>2</sub> (110). Catalysis Letters, 1993, 20, 269-274.	1.4	41
76	Oxidation and diffusion processes in nickel-titanium oxide systems. Surface Science, 1993, 295, 402-410.	0.8	70
77	Ultrathin reactive metal films on TiO <sub>2</sub> (110): growth, interfacial interaction and electronic structure of chromium films. Surface Science, 1993, 295, 411-426.	0.8	69
78	Electronic and chemical interactions at aluminum/TiO <sub>2</sub> (110) interfaces. Surface Science, 1993, 289, 297-306.	0.8	56
79	Angle-resolved inverse-photoemission study of the nearly perfect TiO <sub>2</sub> (110) surface. Physical Review B, 1993, 47, 13722-13729.	1.1	42
80	Growth mode of ultrathin copper overlayers on TiO <sub>2</sub> (110). Physical Review B, 1993, 47, 3868-3876.	1.1	181
81	Interface characterization of chemically vapor deposited diamond on titanium and TiAl <sub>4</sub> V. Journal of Applied Physics, 1993, 74, 7542-7550.	1.1	61
82	Defects on TiO <sub>2</sub> (110) surfaces. Physical Review B, 1994, 49, 7709-7715.	1.1	171
83	Electronic and geometrical structure of rutile surfaces. Physical Review B, 1994, 50, 12015-12024.	1.1	120
84	The adsorption and photochemistry of CD <sub>3</sub> I on TiO <sub>2</sub> (110). Journal of Chemical Physics, 1994, 100, 4615-4625.	1.2	35
85	Characterization of oxide layers induced by oxygen ion implantation into Ti, V, Cr, Zr, Nb, Mo, Hf, Ta and W. Surface and Coatings Technology, 1994, 66, 384-388.	2.2	16
86	Use of XAS and chemical probes to study the structural damage induced in oxide ceramics by bombardment with low-energy ions. Surface and Interface Analysis, 1994, 21, 418-424.	0.8	16
87	XPS analysis of sol-gel processed doped and undoped TiO <sub>2</sub> films for sensors. Surface and Interface Analysis, 1994, 22, 376-379.	0.8	31
88	Epitaxial growth defects and interfacial structures of Cu deposited on TiO <sub>2</sub> . Journal of Materials Science, 1994, 2, 169-181.	1.2	16
89	Cluster simulation of bulk properties for stoichiometric and non-stoichiometric rutile. Chemical Physics Letters, 1994, 223, 89-94.	1.2	35
90	Charge carrier separation and charge transport in nanocrystalline junctions. Solar Energy Materials and Solar Cells, 1994, 32, 245-257.	3.0	88

#	ARTICLE	IF	CITATIONS
91	Characterization of TiO <sub>2</sub> surfaces active for novel organic syntheses. <i>Catalysis Letters</i> , 1994, 26, 123-139.	1.4	67
92	Electronic structure of anatase TiO <sub>2</sub> oxide. <i>Journal of Applied Physics</i> , 1994, 75, 2945-2951.	1.1	676
93	The preparation of and water adsorption on thin films of niobium oxide on Pt(111). <i>Surface Science</i> , 1994, 320, 62-76.	0.8	18
94	Creation of variable concentrations of defects on TiO <sub>2</sub> (110) using low-density electron beams. <i>Surface Science</i> , 1994, 320, 295-306.	0.8	148
95	The influence of oxide surface structure on adsorbate chemistry: desorption of water from the smooth, the microfaceted and the ion sputtered surfaces of TiO <sub>2</sub> (100). <i>Surface Science</i> , 1994, 319, 315-328.	0.8	107
96	The chemistry of rhodium on TiO <sub>2</sub> (110) deposited by MOCVD of [Rh(CO)2Cl] <sub>2</sub> and MVD. <i>Surface Science</i> , 1994, 301, 61-82.	0.8	56
97	The interaction of H <sub>2</sub> O with a TiO <sub>2</sub> (110) surface. <i>Surface Science</i> , 1994, 302, 329-340.	0.8	455
98	Copper and nickel ultrathin films on metal-oxide crystal surfaces. <i>Materials Science Monographs</i> , 1995, , 473-526.	0.0	0
99	Photocurrent performance of TiO <sub>x</sub> films prepared by Ar <sup>+</sup> ion beam-assisted reactive deposition method. <i>Thin Solid Films</i> , 1995, 269, 36-40.	0.8	7
100	XRD and XPS characterization of superplastic TiO <sub>2</sub> coatings prepared on Ti6Al4V surgical alloy by an electrochemical method. <i>Journal of Materials Science: Materials in Medicine</i> , 1995, 6, 206-210.	1.7	52
101	XPS sputter depth profiling of the chemical states for SrTiO <sub>3</sub> /Si interface by O <sub>2</sub> <sup>+</sup> ion beams. <i>Surface and Interface Analysis</i> , 1995, 23, 851-857.	0.8	13
102	The state of the oxygen at the surface of polycrystalline cobalt oxide. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 71, 61-71.	0.8	319
103	Titanium and reduced titania overlayers on titanium dioxide(110). <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 1995, 73, 1-11.	0.8	256
104	Surface composition of alkali-dope TiO <sub>2</sub> films for sensors investigated by XPS. <i>Sensors and Actuators B: Chemical</i> , 1995, 25, 886-888.	4.0	11
105	Electronic and optical properties of three phases of titanium dioxide: Rutile, anatase, and brookite. <i>Physical Review B</i> , 1995, 51, 13023-13032.	1.1	891
106	Anorganische und organische "Modell"Oberflächen für chemische Sensoren. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1995, 99, 1230-1242.	0.9	2
107	Adhesion at diamond-metal interfaces: a chemical composition perspective. <i>Journal of Adhesion Science and Technology</i> , 1995, 9, 711-724.	1.4	6
108	Study by XPS of ultra-thin nickel deposits on TiO <sub>2</sub> (100) supports with different stoichiometries. <i>Surface Science</i> , 1995, 328, 105-110.	0.8	41

#	ARTICLE	IF	CITATIONS
109	Comparative second harmonic generation and X-ray photoelectron spectroscopy studies of the UV creation and O <sub>2</sub> healing of Ti <sup>3+</sup> defects on (110) rutile TiO <sub>2</sub> surfaces. <i>Surface Science</i> , 1995, 339, 114-124.	0.8	140
110	Mechanism for the bulk-assisted reoxidation of ion sputtered TiO <sub>2</sub> surfaces: diffusion of oxygen to the surface or titanium to the bulk?. <i>Surface Science</i> , 1995, 343, L1156-L1160.	0.8	87
111	The adsorption and photodesorption of oxygen on the TiO <sub>2</sub> (110) surface. <i>Journal of Chemical Physics</i> , 1995, 102, 4657-4662.	1.2	192
112	CO chemisorption on TiO <sub>2</sub> (110): Oxygen vacancy site influence on CO adsorption. <i>Journal of Chemical Physics</i> , 1995, 103, 9438-9443.	1.2	179
113	Catalytic decomposition reaction of formic acid on an Ar <sup>+</sup> -bombarded TiO <sub>2</sub> (110) surface : steady-state kinetics and microscopic surface structure. <i>Journal of the Chemical Society, Faraday Transactions</i> , 1995, 91, 1663.	1.7	23
114	Absence of Platinum Enhancement of a Photoreaction on TiO <sub>2</sub> ~CO Photooxidation on Pt/TiO <sub>2</sub> (110). <i>Journal of the American Chemical Society</i> , 1996, 118, 5284-5289.	6.6	94
115	Surface Structure of Crystalline Ceramics. <i>Handbook of Surface Science</i> , 1996, , 185-228.	0.3	7
116	Decomposition and protonation of surface ethoxys on TiO <sub>2</sub> (110). <i>Surface Science</i> , 1996, 348, 1-16.	0.8	141
117	Characterization and chemical behavior of submonolayer coverages of titania on a Pt foil. <i>Surface Science</i> , 1996, 350, 45-59.	0.8	11
118	Clean and hydroxylated rutile TiO <sub>2</sub> (110) surfaces studied by X-ray photoelectron spectroscopy. <i>Surface Science</i> , 1996, 352-354, 504-510.	0.8	79
119	Photoelectron diffraction study on the structure of a vanadium ultrathin film deposited at the TiO <sub>2</sub> (110) surface. <i>Surface Science</i> , 1996, 349, L169-L173.	0.8	45
120	Oxygen vacancies on MgO(100). <i>Surface Science</i> , 1996, 364, 1-16.	0.8	44
121	Thermal stability and the role of oxygen vacancy defects in strong metal support interaction " Pt on Nb-doped TiO <sub>2</sub> (100). <i>Surface Science</i> , 1996, 365, 638-648.	0.8	80
122	CO Photooxidation on TiO <sub>2</sub> (110). <i>The Journal of Physical Chemistry</i> , 1996, 100, 6631-6636.	2.9	120
123	Dye-Sensitizing Effect of TiOPc Thin Film on n-TiO <sub>2</sub> (001) Surface. <i>The Journal of Physical Chemistry</i> , 1996, 100, 5447-5451.	2.9	70
124	Oxide surfaces. <i>Reports on Progress in Physics</i> , 1996, 59, 283-347.	8.1	378
125	Effects of Potassium Chemisorption on the Electronic Structure of V <sub>x</sub> O <sub>y</sub> /TiO <sub>2</sub> Surfaces. <i>Materials Research Society Symposia Proceedings</i> , 1996, 454, 97.	0.1	0
126	Vanadium-doped TiO <sub>2</sub> catalysts. A unifying picture of powders and suspensions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1996, 117, 267-272.	2.3	5



#	ARTICLE	IF	CITATIONS
127	Surface spectroscopic characterization of titanium implant materials. Journal of Electron Spectroscopy and Related Phenomena, 1996, 81, 343-361.	0.8	203
128	AES study of electron beam induced damage on TiO <sub>2</sub> surfaces. Applied Surface Science, 1996, 99, 133-143.	3.1	15
129	Molecules on oxide surfaces. Catalysis Today, 1996, 32, 1-10.	2.2	38
130	Dielectric properties of TiO <sub>2</sub> -films reactively sputtered from Ti in an RF magnetron. Vacuum, 1996, 47, 1333-1336.	1.6	62
131	Ultrathin Al Overlayers on Clean and K-Covered TiO <sub>2</sub> (110) Surfaces. Surface Science Spectra, 1996, 4, 232-245.	0.3	9
132	Study on photoelectric properties of a TiO <sub>2</sub> nanoparticle. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1997, 15, 1442.	1.6	13
133	Electronic structure of titanium monoxide. Physical Review B, 1997, 56, 10656-10667.	1.1	107
134	The defective nature of the TiO <sub>2</sub> (110) (1 $\bar{1}$ 0) surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1997, 15, 2553-2556.	0.9	20
135	Model Systems for Metal-Ceramic Interface Studies. MRS Bulletin, 1997, 22, 42-48.	1.7	31
136	Effects of Interfacial States on Asymmetric Polarization Switchings of Epitaxial Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> Thin Films. Materials Research Society Symposia Proceedings, 1997, 474, 3.	0.1	0
137	Intrinsic Point Defects on a TiO <sub>2</sub> (110) Surface and Their Reaction with Oxygen: A Scanning Tunneling Microscopy Study. Materials Research Society Symposia Proceedings, 1997, 474, 359.	0.1	0
138	Photo-oxidatively self-cleaning transparent titanium dioxide films on soda lime glass: The deleterious effect of sodium contamination and its prevention. Journal of Materials Research, 1997, 12, 2759-2766.	1.2	205
139	Lithium Intercalation in Nanoporous Anatase TiO <sub>2</sub> Studied with XPS. Journal of Physical Chemistry B, 1997, 101, 3087-3090.	1.2	229
140	Defect Sites on TiO <sub>2</sub> (110). Detection by O <sub>2</sub> Photodesorption. Langmuir, 1997, 13, 4311-4316.	1.6	123
141	Comparative SHG and XPS studies of interactions between defects and N <sub>2</sub> O on rutile TiO <sub>2</sub> (110) surfaces. Surface Science, 1997, 392, 1-7.	0.8	30
142	A photoelectron spectroscopy study of sub-monolayer interfaces annealed from 300 up to 623 K. Surface Science, 1997, 380, 311-323.	0.8	29
143	Enhanced sensitivity to oxide surface defects using Auger-photoelectron coincidence spectroscopy. Surface Science, 1997, 383, L735-L741.	0.8	11
144	A combined AES, resonant photoemission and EELS study of in-situ grown titanium nitride. Surface Science, 1997, 383, 248-260.	0.8	22

#	ARTICLE	IF	CITATIONS
145	An ab initio Hartree-Fock study of the electron-excess gap states in oxygen-deficient rutile TiO <sub>2</sub> . Surface Science, 1997, 384, 192-200.	0.8	74
146	Effects of ion-beam-assisted deposition on the growth of zirconia films. Thin Solid Films, 1997, 303, 122-127.	0.8	28
147	Time variation of secondary electron emission during electron bombardment of rutile. Applied Surface Science, 1997, 111, 270-275.	3.1	9
148	Adhesion and activation of platelets and polymorphonuclear granulocyte cells at TiO <sub>2</sub> surfaces. Translational Research, 1997, 129, 35-46.	2.4	84
149	Interface effects and the Auger parameter in titanium oxide thin films deposited on metals and in sandwich structures. Journal of Electron Spectroscopy and Related Phenomena, 1997, 87, 61-71.	0.8	16
150	Influence of the deposition parameters on the chemical composition of reactively rf sputtered TiO <sub>2</sub> on Si. Applied Surface Science, 1997, 115, 128-134.	3.1	0
151	Glow discharge plasma treatment for surface cleaning and modification of metallic biomaterials. , 1997, 35, 49-73.		193
152	Scanning tunneling microscopy studies of metal clusters supported on TiO <sub>2</sub> (110): Morphology and electronic structure. Progress in Surface Science, 1998, 59, 25-52.	3.8	246
153	Influence of electron irradiation on H <sub>2</sub> O adsorbed on the surface of rutile. Nuclear Instruments & Methods in Physics Research B, 1998, 141, 455-460.	0.6	2
154	SEM and XPS studies of titanium dioxide thin films grown by MOCVD. Thin Solid Films, 1998, 322, 63-67.	0.8	167
155	Silicon supported TiC films produced by pulsed laser ablation. Applied Surface Science, 1998, 134, 53-62.	3.1	36
156	Surface analysis of biocompatible coatings on titanium. Journal of Electron Spectroscopy and Related Phenomena, 1998, 95, 61-69.	0.8	92
157	Adsorption of CO on the TiO <sub>2</sub> (110) Surface: A Theoretical Study. Journal of Physical Chemistry B, 1998, 102, 4556-4565.	1.2	87
158	Laser-induced O <sub>2</sub> desorption from TiO <sub>2</sub> surfaces. Surface Science, 1998, 395, 82-87.	0.8	10
159	An NEXAFS investigation of the reduction and reoxidation of TiO <sub>2</sub> (001). Surface Science, 1998, 397, 237-250.	0.8	172
160	Evidence for bicarbonate formation on vacuum annealed TiO <sub>2</sub> (110) resulting from a precursor-mediated interaction between CO <sub>2</sub> and H <sub>2</sub> O. Surface Science, 1998, 400, 203-219.	0.8	204
161	Intrinsic defects on a TiO <sub>2</sub> (110)(1 $\bar{1}$ -1) surface and their reaction with oxygen: a scanning tunneling microscopy study. Surface Science, 1998, 411, 137-153.	0.8	363
162	Evidence for oxygen adatoms on TiO <sub>2</sub> (110) resulting from O <sub>2</sub> dissociation at vacancy sites. Surface Science, 1998, 412-413, 333-343.	0.8	273

#	ARTICLE	IF	CITATIONS
163	Organofunctionalization of TiO <sub>2</sub> (110): (3,3,3-Trifluoropropyl)trimethoxysilane Adsorption. Journal of Physical Chemistry B, 1998, 102, 4536-4543.	1.2	30
164	Chromyl Chloride Chemistry on the TiO <sub>2</sub> (110) Surface. Journal of Physical Chemistry B, 1998, 102, 111-122.	1.2	12
165	Morphology of Silver Thin Films Deposited on TiO <sub>2</sub> (110) Surfaces. Surface Review and Letters, 1998, 05, 387-392.	0.5	21
166	Nonstoichiometry on TiO <sub>2</sub> (110) and Cu-TiO <sub>2</sub> interfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1998, 16, 1078-1085.	0.9	14
167	Imprint failures and asymmetric electrical properties induced by thermal processes in epitaxial Bi <sub>4</sub> Ti <sub>3</sub> O <sub>12</sub> thin films. Journal of Applied Physics, 1998, 84, 4428-4435.	1.1	59
168	Titanium oxide reduction in ion depth profiling. Applied Surface Science, 1999, 151, 129-138.	3.1	13
169	Removal of inelastic scattering part from Ti2p XPS spectrum of TiO <sub>2</sub> by deconvolution method using O1s as response function. Journal of Electron Spectroscopy and Related Phenomena, 1999, 105, 211-218.	0.8	61
170	Dark- and Photoreactions of Ethanol and Acetaldehyde over TiO <sub>2</sub> /Carbon Molecular Sieve Fibers. Journal of Catalysis, 1999, 185, 223-235.	3.1	43
171	Title is missing!. Topics in Catalysis, 1999, 8, 199-209.	1.3	6
172	Adsorption and coadsorption of water and glycine on TiO <sub>2</sub> . , 1999, 44, 227-242.		46
173	The growth of vanadium oxide on alumina and titania single crystal surfaces. Faraday Discussions, 1999, 114, 67-84.	1.6	27
174	The chemistry of methanol on the TiO <sub>2</sub> (110) surface: the influence of vacancies and coadsorbed species. Faraday Discussions, 1999, 114, 313-329.	1.6	244
175	Studies of Surface Wettability Conversion on TiO <sub>2</sub> Single-Crystal Surfaces. Journal of Physical Chemistry B, 1999, 103, 2188-2194.	1.2	650
176	Structure change of TiO <sub>2</sub> -terminated SrTiO <sub>3</sub> (001) surfaces by annealing in O <sub>2</sub> atmosphere and ultrahigh vacuum. Surface Science, 1999, 421, 273-278.	0.8	108
177	A synchrotron study of the deposition of vanadia on TiO <sub>2</sub> (110). Surface Science, 1999, 432, 178-188.	0.8	54
178	Vanadium oxides thin films grown on rutile TiO <sub>2</sub> (110)-(1 $\bar{1}$ -1) and (1 $\bar{1}$ -2) surfaces. Surface Science, 1999, 437, 38-48.	0.8	63
179	Titanium oxide films grown on Mo(110). Surface Science, 1999, 437, 49-60.	0.8	84
180	Interaction of Molecular Oxygen with the Vacuum-Annealed TiO <sub>2</sub> (110) Surface: Molecular and Dissociative Channels. Journal of Physical Chemistry B, 1999, 103, 5328-5337.	1.2	473

#	ARTICLE	IF	CITATIONS
181	XPS analysis of the activation process in non-evaporable getter thin films. <i>Surface and Interface Analysis</i> , 2000, 30, 623-627.	0.8	28
182	Thermal activation of the electronic transport in porous titanium dioxides. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2000, 69-70, 489-493.	1.7	37
183	Structure-reactivity correlations for oxide-supported metal catalysts: new perspectives from STM. <i>Journal of Molecular Catalysis A</i> , 2000, 162, 33-50.	4.8	144
184	Title is missing!. <i>Journal of Materials Science</i> , 2000, 35, 593-598.	1.7	18
185	Modeling heterogeneous catalysts: metal clusters on planar oxide supports. <i>Topics in Catalysis</i> , 2000, 14, 71-83.	1.3	145
186	The role of defects at low concentrations in the NH <sub>3</sub> /TiO <sub>2</sub> (110) adsorption system: An Auger-photoelectron coincidence spectroscopy study. <i>Journal of Chemical Physics</i> , 2000, 113, 10697-10702.	1.2	22
187	266 nm pulsed laser-induced oxygen atoms desorbed from 873 K high temperature, high vacuum pretreated rutile TiO <sub>2</sub> . <i>Surface Science</i> , 2000, 467, 191-200.	0.8	4
188	Effect of the surface stoichiometry on the interaction of Mo with TiO <sub>2</sub> (110). <i>Surface Science</i> , 2000, 468, 192-202.	0.8	36
189	Electronic structure and growth of vanadium on TiO <sub>2</sub> (110). <i>Surface Science</i> , 2000, 450, 12-26.	0.8	96
190	Improvement of loss factor tan $\delta$ of PZT PbTi <sub>0.75</sub> Zr <sub>0.25</sub> O <sub>3</sub> films by O <sup>+</sup> -ion-implantation. <i>Integrated Ferroelectrics</i> , 2000, 29, 283-290.	0.3	2
191	Preparation of highly ordered quinquethiophene thin films on TiO <sub>2</sub> substrates. <i>Journal of Materials Chemistry</i> , 2000, 10, 47-53.	6.7	21
192	Evidence for Structure Sensitivity in the Thermally Activated and Photocatalytic Dehydrogenation of 2-Propanol on TiO <sub>2</sub> . <i>Journal of Physical Chemistry B</i> , 2000, 104, 9836-9841.	1.2	77
193	Silver Growth on TiO <sub>2</sub> (110) (1 $\times$ 1) and (1 $\times$ 2). <i>Journal of Physical Chemistry B</i> , 2000, 104, 3050-3057.	1.2	129
194	Infrared Spectra of Photoinduced Species on Hydroxylated Titania Surfaces. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9842-9850.	1.2	309
195	Surface and Electronic Structure of Titanium Dioxide Photocatalysts. <i>Journal of Physical Chemistry B</i> , 2000, 104, 9851-9858.	1.2	157
196	Electropolymerization of pyrrole on titanium substrates for the future development of new biocompatible surfaces. <i>Biomaterials</i> , 2001, 22, 2609-2616.	5.7	105
197	Electronic structure of oxide surfaces. <i>Chemical Physics of Solid Surfaces</i> , 2001, 9, 550-607.	0.3	2
198	Resonant L <sub>2</sub> MV and L <sub>3</sub> MV Auger transitions in titanium dioxide. <i>Surface Science</i> , 2001, 482-485, 453-457.	0.8	7

#	ARTICLE	IF	CITATIONS
199	Growth of epitaxial anatase (001) and (101) films. <i>Thin Solid Films</i> , 2001, 397, 157-161.	0.8	90
200	Theoretical study of F-type color center in rutile TiO <sub>2</sub> . <i>Journal of Physics and Chemistry of Solids</i> , 2001, 62, 1257-1262.	1.9	99
201	Compound formation and abrasion resistance of ion-implanted Ti6Al4V. <i>Acta Materialia</i> , 2001, 49, 487-495.	3.8	37
202	Initial growth of Au on oxides. <i>Surface and Interface Analysis</i> , 2001, 32, 161-165.	0.8	28
203	Title is missing!. <i>Journal of Materials Science</i> , 2001, 36, 3573-3577.	1.7	14
204	First-principles study of the TiO <sub>2</sub> (110) surface reduction upon Na adsorption. <i>Physical Review B</i> , 2001, 65, .	1.1	34
205	Intra-atomic versus interatomic process in resonant Auger spectra at the Ti L <sub>23</sub> edges in rutile. <i>Physical Review B</i> , 2001, 64, .	1.1	16
206	Cerium oxides and cerium-platinum surface alloys on Pt(111) single-crystal surfaces studied by scanning tunneling microscopy. <i>Physical Review B</i> , 2002, 65, .	1.1	86
207	Role of Defects in the Adsorption of Aliphatic Alcohols on the TiO <sub>2</sub> (110) Surface. <i>Journal of Physical Chemistry B</i> , 2002, 106, 10680-10692.	1.2	162
208	Surface Structures in the SMSI State; Pd on (1 $\bar{1}$ - 2) Reconstructed TiO <sub>2</sub> (110). <i>Journal of Physical Chemistry B</i> , 2002, 106, 4688-4696.	1.2	94
209	XPS and UPS Characterization of the TiO <sub>2</sub> /ZnPCly Heterointerface: $\bar{A}$ Alignment of Energy Levels. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5814-5819.	1.2	191
210	Variations of the local electronic surface properties of TiO <sub>2</sub> (110) induced by intrinsic and extrinsic defects. <i>Physical Review B</i> , 2002, 66, .	1.1	74
211	Promoted phase transition of titania nanoparticles prepared by a photo-assisted sol-gel method. <i>New Journal of Chemistry</i> , 2002, 26, 975-977.	1.4	34
212	Reduction effects in rutile induced by neutron irradiation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2002, 191, 291-295.	0.6	20
213	Ti <sup>4+</sup> to Ti <sup>3+</sup> Conversion of TiO <sub>2</sub> Uppermost Layer by Low-Temperature Vacuum Annealing: Interest for Titanium Biomedical Applications. <i>Journal of Colloid and Interface Science</i> , 2002, 255, 75-78.	5.0	133
214	Study on the annealing effects of proton-implanted rutile. <i>Surface and Coatings Technology</i> , 2002, 158-159, 426-430.	2.2	0
215	Influence of proton implantation on optical absorption of rutile. <i>Surface and Coatings Technology</i> , 2002, 158-159, 431-435.	2.2	9
216	Characteristics of the surface oxides on turned and electrochemically oxidized pure titanium implants up to dielectric breakdown:. <i>Biomaterials</i> , 2002, 23, 491-501.	5.7	462

#	ARTICLE	IF	CITATIONS
217	Acetic Acid Reduction by H <sub>2</sub> over Supported Pt Catalysts: A DRIFTS and TPD/TPR Study. <i>Journal of Catalysis</i> , 2002, 207, 317-330.	3.1	135
218	Layered Perovskites with Giant Spontaneous Polarizations for Nonvolatile Memories. <i>Physical Review Letters</i> , 2002, 89, 087601.	2.9	394
219	Different binding sites for methanol dehydrogenation and deoxygenation on stoichiometric and defective TiO <sub>2</sub> (110) surfaces. <i>Surface Science</i> , 2003, 544, 241-260.	0.8	96
220	Reactivity of monolayer V <sub>2</sub> O <sub>5</sub> films on TiO <sub>2</sub> (110) produced via the oxidation of vapor-deposited vanadium. <i>Surface Science</i> , 2003, 526, 211-218.	0.8	50
221	Deposition dynamics and chemical properties of size-selected Ir clusters on TiO <sub>2</sub> . <i>Surface Science</i> , 2003, 542, 253-275.	0.8	62
222	The surface science of titanium dioxide. <i>Surface Science Reports</i> , 2003, 48, 53-229.	3.8	6,917
223	The preparation and characterization of nanoparticle TiO <sub>2</sub> /Ti films and their photocatalytic activity. <i>Journal of Physics and Chemistry of Solids</i> , 2003, 64, 615-623.	1.9	211
224	Synthesis and Characterization of Titania Prepared by Using a Photoassisted Solâ€Gel Method. <i>Langmuir</i> , 2003, 19, 3001-3005.	1.6	182
225	Characterization of the Acidâ€Base Properties of the TiO <sub>2</sub> (110) Surface by Adsorption of Amines. <i>Journal of Physical Chemistry B</i> , 2003, 107, 3225-3233.	1.2	96
226	Adsorption of gold on stoichiometric and reduced rutile TiO <sub>2</sub> (110) surfaces. <i>Journal of Chemical Physics</i> , 2003, 118, 6536-6551.	1.2	202
227	Surface-Binding Forms of Carboxylic Groups on Nanoparticulate TiO <sub>2</sub> Surface Studied by the Interface-Sensitive Transient Triplet-State Molecular Probe. <i>Journal of Physical Chemistry B</i> , 2003, 107, 4356-4363.	1.2	129
228	Reactivity of Stoichiometric and Defective TiO <sub>2</sub> (110) Surfaces toward DCOOD Decomposition. <i>Journal of Physical Chemistry B</i> , 2003, 107, 11709-11720.	1.2	30
229	Resonant photoemission of anatase TiO <sub>2</sub> (101) and (001) single crystals. <i>Physical Review B</i> , 2003, 67, .	1.1	129
230	Influence of High-Fluence Proton Irradiation on the Optical Absorption and Microstructure of Rutile. <i>Materials Research Society Symposia Proceedings</i> , 2003, 792, 309.	0.1	0
231	Stoichiometry-related Auger lineshapes in titanium oxides: Influence of valence-band profile and of Coster-Kronig processes. <i>Physical Review B</i> , 2004, 69, .	1.1	55
232	Large crystal local-field effects in the dynamical structure factor of rutile TiO <sub>2</sub> . <i>Physical Review B</i> , 2004, 70, .	1.1	17
233	Two-photon photoemission spectroscopy of TiO <sub>2</sub> (110) surfaces modified by defects and O <sub>2</sub> or H <sub>2</sub> O adsorbates. <i>Physical Review B</i> , 2004, 70, .	1.1	190
234	Influence of high-fluence neutron and/or proton irradiation on the optical properties and microstructure of rutile. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2004, 218, 111-116.	0.6	17

#	ARTICLE	IF	CITATIONS
235	Preparation of bioactive titanium metal via anodic oxidation treatment. <i>Biomaterials</i> , 2004, 25, 1003-1010.	5.7	666
236	Dissociative adsorption of NO on TiO <sub>2</sub> (110) argon ion bombarded surfaces. <i>Surface Science</i> , 2004, 549, 134-142.	0.8	29
237	Interfacial reaction between deposited molybdenum and TiO <sub>2</sub> (110) surface: role of the substrate bulk stoichiometry. <i>Surface Science</i> , 2004, 560, 63-78.	0.8	21
238	Electrical properties of nanocrystalline anatase TiO <sub>2</sub> thin films with different crystallite size. <i>Surface Science</i> , 2004, 566-568, 419-424.	0.8	35
239	Random walk models of charge transfer and transport in dye sensitized systems. <i>Coordination Chemistry Reviews</i> , 2004, 248, 1181-1194.	9.5	299
240	Investigation of the PECVD TiO <sub>2</sub> /Si(100) interface. <i>Applied Surface Science</i> , 2004, 233, 69-79.	3.1	51
241	Growth of subnanometer-thin Si overlayer on TiO <sub>2</sub> (110)-(1 $\times$ 2) surface. <i>Applied Surface Science</i> , 2004, 234, 497-502.	3.1	13
242	Reactivity of TiO <sub>2</sub> with hydrogen and deuterium. <i>Applied Surface Science</i> , 2004, 229, 346-351.	3.1	9
243	Reactions of Ammonia on Stoichiometric and Reduced TiO <sub>2</sub> (001) Single Crystal Surfaces. <i>Langmuir</i> , 2004, 20, 10956-10961.	1.6	19
244	Photoelectron spectroscopy of nanocrystalline anatase TiO <sub>2</sub> films. <i>Applied Surface Science</i> , 2005, 252, 85-88.	3.1	69
245	Nanocrystalline anatase TiO <sub>2</sub> thin films: preparation and crystallite size-dependent properties. <i>Thin Solid Films</i> , 2005, 472, 114-124.	0.8	77
246	Adsorption of bi-isonicotinic acid on anatase TiO <sub>2</sub> (101) and (001) studied by photoemission and NEXAFS spectroscopy. <i>Surface Science</i> , 2005, 592, 159-168.	0.8	27
247	Challenges in the Surface Analytical Characterisation of Anodic TiO <sub>2</sub> Films – a Review. <i>Zeitschrift Fur Physikalische Chemie</i> , 2005, 219, 1561-1582.	1.4	32
248	Surface characteristics of porous titanium implants fabricated by environmental electro-discharge sintering of spherical Ti powders in a vacuum atmosphere. <i>Scripta Materialia</i> , 2005, 53, 905-908.	2.6	24
249	Oxygen vacancies on TiO <sub>2</sub> (110) and their interaction with H <sub>2</sub> O and O <sub>2</sub> : A combined high-resolution STM and DFT study. <i>Surface Science</i> , 2005, 598, 226-245.	0.8	560
250	Influence of laser treatment on the electrical properties of plasma-enhanced-atomic-layer-deposited TiO <sub>2</sub> thin films. <i>Metals and Materials International</i> , 2005, 11, 285-289.	1.8	11
251	Enhancement of Biocompatibility on Bioactive Titanium Surface by Low-Temperature Plasma Treatment. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 8590-8598.	0.8	26
252	A Theoretical Study on the Electronic Structures of TiO <sub>2</sub> : $\hat{A}$ Effect of Hartree-Fock Exchange. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19270-19277.	1.2	135



#	ARTICLE	IF	CITATIONS
253	Density Functional Theory Calculations of Dense TiO <sub>2</sub> Polymorphs: Implication for Visible-Light-Responsive Photocatalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 8693-8700.	1.2	63
254	Surface Science Studies of the Photoactivation of TiO <sub>2</sub> New Photochemical Processes. <i>Chemical Reviews</i> , 2006, 106, 4428-4453.	23.0	1,944
255	Imaging of Atomic Layer Deposited (ALD) Tungsten Monolayers on $\hat{1}\pm$ -TiO <sub>2</sub> (110) by X-ray Standing Wave Fourier Inversion. <i>Journal of Physical Chemistry B</i> , 2006, 110, 12616-12620.	1.2	26
256	Electron-Beam-Induced Topographical, Chemical, and Structural Patterning of Amorphous Titanium Oxide Films. <i>Journal of Physical Chemistry B</i> , 2006, 110, 23660-23668.	1.2	26
257	Surface characteristics of titanium-silver alloys in artificial saliva. <i>Surface and Interface Analysis</i> , 2006, 38, 25-31.	0.8	10
258	Growth of Rh nanoclusters on TiO <sub>2</sub> (110): XPS and LEIS studies. <i>Applied Surface Science</i> , 2006, 252, 8624-8629.	3.1	63
259	Room temperature ferromagnetism of Co-doped TiO <sub>2</sub> nanotube arrays prepared by sol-gel template synthesis. <i>Chemical Physics Letters</i> , 2006, 432, 468-472.	1.2	67
260	XPS study of porous dental implants fabricated by electro-discharge-sintering of spherical Ti-6Al-4V powders in a vacuum atmosphere. <i>Applied Surface Science</i> , 2006, 252, 4250-4256.	3.1	22
261	Improvement of tribological behavior of a Ti-Al-Zr alloy by nitrogen ion implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2006, 248, 42-46.	0.6	4
262	Bonding of metal-free phthalocyanine to TiO <sub>2</sub> (110) single crystal. <i>Solar Energy Materials and Solar Cells</i> , 2006, 90, 3602-3613.	3.0	35
263	X-ray photoelectron spectroscopy of LiM <sub>0.05</sub> Mn <sub>1.95</sub> O <sub>4</sub> (M=Ni, Fe and Ti). <i>Solid State Ionics</i> , 2006, 177, 1483-1488.	1.3	48
264	One-step process for the fabrication of Ti porous compact and its surface modification by environmental-electro-discharge-sintering of spherical Ti powders. <i>Surface and Coatings Technology</i> , 2006, 200, 4300-4304.	2.2	10
265	Characterization of nanocrystalline TiO <sub>2</sub> -HfO <sub>2</sub> thin films prepared by low pressure hot target reactive magnetron sputtering. <i>Surface and Coatings Technology</i> , 2006, 200, 6283-6287.	2.2	25
266	Microstructure and optical properties of TiO <sub>2</sub> thin films prepared by low pressure hot target reactive magnetron sputtering. <i>Thin Solid Films</i> , 2006, 513, 269-274.	0.8	65
267	Ultra-thin Si overlayers on the TiO <sub>2</sub> (110)-(1 $\bar{1}$ -2) surface: Growth mode and electronic properties. <i>Surface Science</i> , 2006, 600, 2696-2704.	0.8	12
268	Extended visible light response of binary TiO <sub>2</sub> -Ti <sub>2</sub> O <sub>3</sub> photocatalyst prepared by a photo-assisted sol-gel method. <i>Applied Catalysis A: General</i> , 2006, 299, 218-223.	2.2	71
269	Efficient Charge Injection from the S <sub>2</sub> Photoexcited State of Special-Pair Mimic Porphyrin Assemblies Anchored on a Titanium-Modified ITO Anode. <i>Chemistry - A European Journal</i> , 2006, 12, 8123-8135.	1.7	29
270	X-ray photoelectron spectroscopy study of the nucleation processes and chemistry of CdS thin films deposited by sublimation on different solar cell substrate materials. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 919-928.	0.9	19



#	ARTICLE	IF	CITATIONS
271	Local electron beam induced reduction and crystallization of amorphous titania films. Applied Physics Letters, 2006, 89, 021902.	1.5	31
272	Electronic structure and momentum density distribution of titanium dioxide. Journal of Alloys and Compounds, 2007, 440, 51-56.	2.8	4
273	Comparison of the electronic structure of anatase and rutile TiO <sub>2</sub> single-crystal surfaces using resonant photoemission and x-ray absorption spectroscopy. Physical Review B, 2007, 75, .	1.1	249
274	Dissociative Adsorption of NO on TiO <sub>2</sub> (110)-(1 Å <sup>-2</sup> ) Surface: Ti <sub>2</sub> O <sub>3</sub> Rows as Active Sites for the Adsorption. Langmuir, 2007, 23, 7583-7586.	1.6	19
275	Direct XPS Evidence for Charge Transfer from a Reduced Rutile TiO <sub>2</sub> (110) Surface to Au Clusters. Journal of Physical Chemistry C, 2007, 111, 12434-12439.	1.5	156
276	Combined investigation of water sorption on TiO <sub>2</sub> rutile (110) single crystal face: XPS vs. periodic DFT. Surface Science, 2007, 601, 518-527.	0.8	150
277	Adsorption of phenylalanine on single crystal rutile TiO <sub>2</sub> (110) surface. Surface Science, 2007, 601, 3828-3832.	0.8	37
278	Molecular approach of the uranyl/mineral interfacial phenomena. Comptes Rendus Chimie, 2007, 10, 1078-1091.	0.2	45
279	The role of SiO <sub>2</sub> barrier layers in determining the structure and photocatalytic activity of TiO <sub>2</sub> films deposited on stainless steel. Applied Catalysis A: General, 2007, 321, 140-146.	2.2	48
280	Nanocrystalline anatase TiO <sub>2</sub> photocatalysts prepared via a facile low temperature nonhydrolytic sol-gel reaction of TiCl <sub>4</sub> and benzyl alcohol. Applied Catalysis B: Environmental, 2007, 76, 82-91.	10.8	167
281	Ti oxynitriding of microporous Ti-6Al-4V compact by electrodischarge sintering in an N <sub>2</sub> atmosphere. Scripta Materialia, 2007, 57, 129-132.	2.6	2
282	Electronic properties of oxygen-deficient and aluminum-doped rutile $Ti_{1-x}O_{2-x}$ from first principles. Physical Review B, 2007, 76, .	1.1	119
283	Surface Stabilization of Nano-sized Titanium Dioxide: Improving the Colloidal Stability and the Sintering Morphology. Journal of Nanoparticle Research, 2007, 9, 403-417.	0.8	38
284	Pulsed laser deposited TiO <sub>2</sub> films: Tailoring optical properties. Thin Solid Films, 2008, 516, 8697-8701.	0.8	17
285	Highly active photocatalyst Bi <sub>2</sub> Ti <sub>2</sub> V <sub>x</sub> O <sub>4x+2y</sub> (x&#x2264;y) for oxygen evolution under visible-light illumination. Physica Status Solidi (B): Basic Research, 2008, 245, 1807-1815.	0.7	9
286	Probing Defect Sites on TiO <sub>2</sub> with [Re <sub>3</sub> (CO) <sub>12</sub> H <sub>3</sub> ]: Spectroscopic Characterization of the Surface Species. Chemistry - A European Journal, 2008, 14, 1402-1414.	1.7	31
287	Versatile Nanocomposite Coatings with Tunable Cell Adhesion and Bactericidity. Advanced Functional Materials, 2008, 18, 3179-3188.	7.8	46
288	Superhydrophilicity and XPS study of boron-doped TiO <sub>2</sub> . Applied Surface Science, 2008, 254, 7056-7060.	3.1	22

#	ARTICLE	IF	CITATIONS
289	Resistive switching in Au/TiO <sub>2</sub> /Pt thin film structures on silicon. Physics of the Solid State, 2008, 50, 1841-1847.	0.2	12
290	Tuning the optical and photoelectrochemical properties of surface-modified TiO <sub>2</sub> . Photochemical and Photobiological Sciences, 2008, 7, 40-48.	1.6	224
291	Studies on Thermal Migration of Eu Ion Doped into TiO <sub>2</sub> Nanoparticles. Japanese Journal of Applied Physics, 2008, 47, 4651-4657.	0.8	14
292	BIPOLAR RESISTIVE SWITCHING IN Au/TiO <sub>2</sub> /Pt THIN FILM STRUCTURES. Integrated Ferroelectrics, 2008, 100, 274-284.	0.3	1
293	Interfacial and electrical properties of Zr <sub>x</sub> Ti <sub>1-x</sub> O <sub>4</sub> (x=0.66) films deposited by liquid-delivery metal organic chemical vapor deposition to be used as high-k gate dielectric. Journal of Vacuum Science & Technology B, 2008, 26, 1338-1343.	1.3	3
294	U on the band-gap states of the reduced rutile (110) TiO <sub>2</sub> surface.	1.1	165
296	Resistive Switching in Au/TiO <sub>2</sub> /Pt Thin Film Structures. Ferroelectrics, 2009, 391, 139-150.	0.3	1
297	CuO Catalysts Supported on Porous TiO <sub>2</sub> Microspheres for Low-Temperature CO Oxidation. Journal of Dispersion Science and Technology, 2009, 30, 1114-1119.	1.3	7
298	Origin of photoactivity of oxygen-deficient TiO <sub>2</sub> under visible light. Applied Physics Letters, 2009, 95, .	1.5	28
299	Photocatalytic Oxidation of CO on TiO <sub>2</sub> : Chemisorption of O <sub>2</sub> , CO, and H <sub>2</sub> . ChemPhysChem, 2009, 10, 411-419.	1.0	31
300	The roles of surface chemistry and topography in the strength and rate of osseointegration of titanium implants in bone. Journal of Biomedical Materials Research - Part A, 2009, 89A, 942-950.	2.1	116
301	Low-Temperature Atomic Layer-Deposited TiO <sub>2</sub> Films with Low Photoactivity. Journal of the American Ceramic Society, 2009, 92, 649-654.	1.9	25
302	Titanium Implants after Alkali Heating Treatment with a [Zn(OH) <sub>4</sub> ] <sup>2-</sup> Complex: Analysis of Interfacial Bond Strength Using Push-Out Tests. Clinical Implant Dentistry and Related Research, 2010, 12, e114-25.	1.6	19
303	Tracking hydroxyl adsorption on TiO <sub>2</sub> (110) through secondary emission changes. Applied Surface Science, 2009, 255, 7389-7393.	3.1	17
304	Fabrication and characterization of oxygen-diffused titanium for biomedical applications. Acta Biomaterialia, 2009, 5, 3605-3615.	4.1	39
305	Dye-Sensitized and Bulk-Heterojunctions Solar Cells: TiO <sub>2</sub> Nanotube Arrays as a Base Material. , 2009, , 217-283.		0
306	Highly Stable Molecular Layers on Nanocrystalline Anatase TiO <sub>2</sub> through Photochemical Grafting. Langmuir, 2009, 25, 10676-10684.	1.6	38
307	Final State Distributions of O <sub>2</sub> Photodesorbed from TiO <sub>2</sub> (110). Journal of Physical Chemistry C, 2009, 113, 13180-13191.	1.5	62

#	ARTICLE	IF	CITATIONS
308	Thermal Decomposition of a Chemical Warfare Agent Simulant (DMMP) on TiO <sub>2</sub> : Adsorbate Reactions with Lattice Oxygen as Studied by Infrared Spectroscopy. Journal of Physical Chemistry C, 2009, 113, 15684-15691.	1.5	99
309	A Density Functional Theory + <i>U</i> Study of Oxygen Vacancy Formation at the (110), (100), (101), and (001) Surfaces of Rutile TiO <sub>2</sub> . Journal of Physical Chemistry C, 2009, 113, 7322-7328.	1.5	223
310	Morphology Dependent Luminescence Properties of Co Doped TiO <sub>2</sub> Nanostructures. Journal of Physical Chemistry C, 2009, 113, 14783-14792.	1.5	170
311	Role of pH in the Formation of Structurally Stable and Catalytically Active TiO <sub>2</sub> -Supported Gold Catalysts. Journal of Physical Chemistry C, 2009, 113, 269-280.	1.5	67
312	TiO <sub>2</sub> Nanotube Arrays. , 2009, , .		196
313	Thermally stable ordered mesoporous CeO <sub>2</sub> /TiO <sub>2</sub> visible-light photocatalysts. Physical Chemistry Chemical Physics, 2009, 11, 3775.	1.3	152
314	Synthesis and characterization of well-aligned anatase TiO <sub>2</sub> nanocrystals on fused silica via metal-organic vapor deposition. CrystEngComm, 2009, 11, 2313.	1.3	18
315	Composition, structure, and stability of the rutile TiO <sub>2</sub> nanocrystals. Physical Review B, 2009, 79, .		26
316	Carbon monoxide annealed TiO <sub>2</sub> nanotube array electrodes for efficient biosensor applications. Journal of Materials Chemistry, 2009, 19, 948-953.	6.7	101
317	TITANIA SEED LAYERS FOR PZT THIN FILM GROWTH ON COPPER-COATED KAPTON FILMS. Integrated Ferroelectrics, 2009, 108, 57-66.	0.3	3
318	Electronic and optical properties of aluminium-doped anatase and rutile TiO <sub>2</sub> nanocrystals. Physical Review B, 2010, 81, .	1.1	121
319	Electronic properties of LiMn <sub>2-x</sub> Ti <sub>x</sub> O <sub>4</sub> . Applied Physics A: Materials Science and Processing, 2010, 98, 455-460.	1.1	16
320	Valence band offset of MgO/TiO <sub>2</sub> (rutile) heterojunction measured by X-ray photoelectron spectroscopy. Applied Surface Science, 2010, 256, 7327-7330.	3.1	18
321	Growth and characterization of well-aligned densely-packed rutile TiO <sub>2</sub> nanocrystals on sapphire (100) and (012) substrates by reactive magnetron sputtering. Thin Solid Films, 2010, 518, 4121-4125.	0.8	12
322	On the longevity of H-mediated ferromagnetism in Co doped : A study of electronic and magnetic interplay. Solid State Communications, 2010, 150, 1154-1157.	0.9	23
323	Dissociative and molecular oxygen chemisorption channels on reduced rutile TiO <sub>2</sub> (110): An STM and TPD study. Surface Science, 2010, 604, 1945-1960.	0.8	132
324	On the annealing temperature, penetration depth of oxygen and film thickness on the DC and AC electrical properties and nano-structure of Ti thin films. Vacuum, 2010, 84, 770-777.	1.6	15
325	Biological nano-functionalization of titanium-based biomaterial surfaces: a flexible toolbox. Journal of the Royal Society Interface, 2010, 7, S93-S105.	1.5	95

#	ARTICLE	IF	CITATIONS
326	Surface Science Approach to Photochemistry of TiO <sub>2</sub> . Solid State Phenomena, 0, 162, 115-133.	0.3	4
327	Cluster size dependence of Pt core-level shifts for mass-selected Pt clusters on TiO <sub>2</sub> (110) surfaces. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2010, 28, 1141-1144.	0.9	23
328	Theoretical analysis of small Pt particles on rutile TiO <sub>2</sub> (110) surfaces. Physical Review B, 2010, 82, .	1.1	38
329	Effects of Pore Sealing on Self-Formation of Ti-Rich Barrier Layers in Cu(Ti)/Porous-Low-k Samples. Japanese Journal of Applied Physics, 2010, 49, 04DB09.	0.8	3
330	<i>In Situ</i> Ambient Pressure Studies of the Chemistry of NO <sub>2</sub> and Water on Rutile TiO <sub>2</sub> (110). Langmuir, 2010, 26, 2445-2451.	1.6	49
331	Ultrafast Interfacial Proton-Coupled Electron Transfer. Chemical Reviews, 2010, 110, 7082-7099.	23.0	75
332	4- <i>tert</i> -Butyl Pyridine Bond Site and Band Bending on TiO <sub>2</sub> (110). Journal of Physical Chemistry C, 2010, 114, 2315-2320.	1.5	40
333	Study of defect-induced ferromagnetism in hydrogenated anatase TiO <sub>2</sub> :Co. Journal of Applied Physics, 2010, 107, .	1.1	46
334	Characterization of thin silicon overlayers on rutile $\text{TiO}_2$ surfaces. Physical Review B, 2010, 82, .	1.1	22
335	Improvement efficiency of a dye-sensitized solar cell using Eu <sup>3+</sup> modified TiO <sub>2</sub> nanoparticles as a secondary layer electrode. Journal of Materials Chemistry, 2010, 20, 6505.	6.7	37
336	Characterization of self-formed Ti-based barrier layers in Cu(Ti)/dielectric-layer samples using X-ray Photoelectron Spectroscopy. , 2010, , .		1
337	Ce-doped ZnO (Ce <sub>x</sub> Zn <sub>1-x</sub> O) becomes an efficient visible-light-sensitive photocatalyst by co-catalyst (Cu <sup>2+</sup> ) grafting. Physical Chemistry Chemical Physics, 2011, 13, 14937.	1.3	131
338	Surface Structures of Ultrathin TiO <sub>x</sub> Films on Au(111). Journal of Physical Chemistry C, 2011, 115, 8643-8652.	1.5	58
339	Ultraviolet-Induced Grafting of Alkenes to TiO <sub>2</sub> Surfaces: Controlling Multilayer Formation. Journal of Physical Chemistry C, 2011, 115, 17102-17110.	1.5	22
340	Formation of Molecular Monolayers on TiO <sub>2</sub> Surfaces: A Surface Analogue of the Williamson Ether Synthesis. Langmuir, 2011, 27, 6879-6889.	1.6	26
341	Electronic Structure, Chemical Interactions and Molecular Orientations of 3,4,9,10-Perylene-tetracarboxylic-dianhydride on TiO <sub>2</sub> (110). Journal of Physical Chemistry C, 2011, 115, 24880-24887.	1.5	50
342	Effect of Compensated Codoping on the Photoelectrochemical Properties of Anatase TiO <sub>2</sub> Photocatalyst. Journal of Physical Chemistry C, 2011, 115, 16963-16969.	1.5	135
343	UV-Sensitized Generation of Phasepure Cobalt-Doped Anatase: Co <sub>x</sub> Ti <sub>1-x</sub> O <sub>2</sub> Nanocrystals with Ferromagnetic Behavior Using Nano-TiO <sub>2</sub> -[Co <sup>III</sup> (en) <sub>2</sub> (MeNH <sub>2</sub> )Cl] <sup>2+</sup> . Journal of Physical Chemistry C, 2011, 115, 3021-3032.	1.5	29

#	ARTICLE	IF	CITATIONS
344	Super-hydrophilic properties of TiO <sub>2</sub> â€“DLC nanocomposite films fabricated by the simple electrochemical process. Applied Surface Science, 2011, 257, 10000-10004.	3.1	20
345	Effect of substrate bias voltage on the structure, electric and dielectric properties of TiO <sub>2</sub> thin films by DC magnetron sputtering. Applied Surface Science, 2011, 258, 1789-1796.	3.1	37
346	Synthesis and Photocatalytic Activity of F/TiO <sub>2</sub> Nanocrystals with Exposed (001) Facets via a Nonhydrolytic Solvothermal Route. Chinese Journal of Catalysis, 2011, 32, 862-871.	6.9	15
347	Effect of annealing on the electrochemical properties of ramsdellite-type lithium titanium oxide. Journal of Power Sources, 2011, 196, 10133-10140.	4.0	7
348	Preparation and characterization of nanoparticle Ru:TiO <sub>2</sub> films and their photocatalytic activity. Rare Metals, 2011, 30, 254-258.	3.6	6
349	The Role of Surface and Subsurface Point Defects for Chemical Model Studies on TiO <sub>2</sub> : A Firstâ€“Principles Theoretical Study of Formaldehyde Bonding on Rutile TiO <sub>2</sub> (110). Chemistry - A European Journal, 2011, 17, 4496-4506.	1.7	72
350	Strong metalâ€“support interactions on rhodium model catalysts. Applied Catalysis A: General, 2011, 391, 175-186.	2.2	45
351	Effect of surface defects on biosensing properties of TiO <sub>2</sub> nanotube arrays. Sensors and Actuators B: Chemical, 2011, 155, 159-164.	4.0	32
352	Structure Analyses of Ti-Based Self-Formed Barrier Layers. Japanese Journal of Applied Physics, 2011, 50, 04DB03.	0.8	6
353	Crystal, Electronic and Magnetic Structure of Co and Ag Doped Rutile TiO <sub>2</sub> from First-Principles Calculations. Advanced Materials Research, 0, 399-401, 1789-1792.	0.3	2
354	Ab-initio Electronic and Structural Properties of Rutile Titanium Dioxide. Japanese Journal of Applied Physics, 2011, 50, 101103.	0.8	32
355	Oxygen-Induced Barrier Failure in Ti-Based Self-Formed and Ta/TaN Barriers for Cu Interconnects. Japanese Journal of Applied Physics, 2012, 51, 04DB06.	0.8	3
356	Visibility of TiO <sub>2</sub> (110)(1Ã—1) bridging oxygen in core level photoelectron spectroscopy. Physical Review B, 2012, 85, .	1.1	3
357	Influence of hydrogen addition to an Ar plasma on the structural properties of TiO <sub>2</sub> thin films deposited by RF sputtering. Journal Physics D: Applied Physics, 2012, 45, 345302.	1.3	57
358	Nonstoichiometry in $TiO_{2-x}$ by Ion Beam Methods and Photoelectron Spectroscopy. Advances in Materials Science and Engineering, 2012, 2012, 1-13.	1.0	28
359	Quantitative theory of the oxygen vacancy and carrier self-trapping in bulk TiO <sub>2</sub> . Physical Review B, 2012, 86, .	1.1	169
360	Interfacial interaction driven CO oxidation: nanostructured Ce <sub>1-x</sub> La <sub>x</sub> O <sub>2</sub> â€“TiO <sub>2</sub> solid solutions. Catalysis Science and Technology, 2012, 2, 745.	2.1	14
361	Enhancement of photoelectric and photocatalytic activities: Mo doped TiO <sub>2</sub> thin films deposited by sputtering. Thin Solid Films, 2012, 522, 361-365.	0.8	38

#	ARTICLE	IF	CITATIONS
362	Reactive-Layer-Assisted Deposition Mechanism and Characterization of Titanium Oxide Films. Langmuir, 2012, 28, 17118-17123.	1.6	5
363	Growth and characterization of epitaxial anatase TiO <sub>2</sub> (001) on SrTiO <sub>3</sub> -buffered Si(001) using atomic layer deposition. Thin Solid Films, 2012, 520, 6525-6530.	0.8	44
364	Calculation of point defects in rutile TiO <sub>2</sub> by the screened-exchange hybrid functional. Physical Review B, 2012, 86, .	1.1	88
365	Influence of fluoride content on the barrier layer formation and titanium dissolution in ethylene glycol-water electrolytes. Electrochimica Acta, 2012, 78, 65-74.	2.6	60
366	Influence of Ammonia on Properties of Nanocrystalline Barium Titanate Particles Prepared by a Hydrothermal Method. Journal of the American Ceramic Society, 2012, 95, 2248-2253.	1.9	22
367	Solar absorption and microstructure of C-doped and H-co-doped TiO <sub>2</sub> thin films. Journal Physics D: Applied Physics, 2012, 45, 385305.	1.3	18
368	Surface photochemistry probed by two-photon photoemission spectroscopy. Energy and Environmental Science, 2012, 5, 6833.	15.6	27
369	Reactivity of CO <sub>2</sub> and H <sub>2</sub> O on TiO <sub>2</sub> catalysts studied by gas phase FT-IR method and deactivation mechanism. Journal of Physics: Conference Series, 2012, 379, 012036.	0.3	8
370	Spontaneous dissociation of Co <sub>2</sub> (CO) <sub>8</sub> and autocatalytic growth of Co on SiO <sub>2</sub> : A combined experimental and theoretical investigation. Beilstein Journal of Nanotechnology, 2012, 3, 546-555.	1.5	44
371	Segregation of K and its effects on the growth, decoration, and adsorption properties of Rh nanoparticles on TiO <sub>2</sub> (110). Journal of Catalysis, 2012, 289, 179-189.	3.1	17
372	Improved thrombogenicity on oxygen etched Ti6Al4V surfaces. Materials Science and Engineering C, 2012, 32, 1196-1203.	3.8	13
373	Analysis of multifunctional titanium oxycarbide films as a function of oxygen addition. Surface and Coatings Technology, 2012, 206, 2525-2534.	2.2	27
374	Influence of high temperature processing of sol-gel derived barium titanate thin films deposited on platinum and strontium ruthenate coated silicon wafers. Thin Solid Films, 2012, 520, 4394-4401.	0.8	19
375	Electron Beam-Induced Writing of Nanoscale Iron Wires on a Functional Metal Oxide. Journal of Physical Chemistry C, 2013, 117, 17674-17679.	1.5	23
376	Interfacial and bulk processes during oxide growth on titanium in ethylene glycol-based electrolytes. Journal of Solid State Electrochemistry, 2013, 17, 1271-1283.	1.2	12
377	X-ray photoelectron spectroscopy investigation of magnetron sputtered Mg-Ti-H thin films. International Journal of Hydrogen Energy, 2013, 38, 10704-10715.	3.8	21
378	The Dynamic Roles of Interstitial and Surface Defects on Oxidation and Reduction Reactions on Titania. Topics in Catalysis, 2013, 56, 1377-1388.	1.3	23
379	Rh-Induced Support Transformation Phenomena in Titanate Nanowire and Nanotube Catalysts. Langmuir, 2013, 29, 3061-3072.	1.6	50





#	ARTICLE	IF	CITATIONS
398	Defects improved photocatalytic ability of TiO <sub>2</sub> . Applied Surface Science, 2014, 317, 568-572.	3.1	30
399	Electronic structures and optical properties of rutile TiO <sub>2</sub> with different point defects from DFT+U calculations. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 2719-2724.	0.9	49
400	Direction-regulated electric field implanted in multilayer MoS <sub>2</sub> /TiO <sub>2</sub> films and its contribution to photocatalytic property. Superlattices and Microstructures, 2014, 75, 927-935.	1.4	6
401	Understanding Photoluminescence of Monodispersed Crystalline Anatase TiO <sub>2</sub> Nanotube Arrays. Journal of Physical Chemistry C, 2014, 118, 9726-9732.	1.5	46
402	Promoted effect of PANI as electron transfer promoter on CO oxidation over Au/TiO <sub>2</sub> . Applied Catalysis B: Environmental, 2014, 158-159, 250-257.	10.8	29
403	Photoelectron Spectroscopy Study of Stoichiometric and Reduced Anatase TiO <sub>2</sub> (101) Surfaces: The Effect of Subsurface Defects on Water Adsorption at Near-Ambient Pressures. Journal of Physical Chemistry C, 2015, 119, 13682-13690.	1.5	195
404	Indium and cerium co-doped mesoporous TiO <sub>2</sub> nanocomposites with enhanced visible light photocatalytic activity. Applied Catalysis A: General, 2015, 492, 212-222.	2.2	41
405	Electrospun Black Titania Nanofibers: Influence of Hydrogen Plasma-Induced Disorder on the Electronic Structure and Photoelectrochemical Performance. Journal of Physical Chemistry C, 2015, 119, 18835-18842.	1.5	68
406	Coordination-Resolved Electron Spectrometrics. Chemical Reviews, 2015, 115, 6746-6810.	23.0	121
407	High-energy electron scattering from TiO <sub>2</sub> surfaces. Nuclear Instruments & Methods in Physics Research B, 2015, 354, 332-339.	0.6	8
408	Ge incorporated epitaxy of (110) rutile TiO <sub>2</sub> on (100) Ge single crystal at low temperature by pulsed laser deposition. Thin Solid Films, 2015, 591, 105-110.	0.8	8
409	Probing Defects in Nitrogen-Doped Cu <sub>2</sub> O. Scientific Reports, 2014, 4, 7240.	1.6	96
411	Thin-film growth of (110) rutile TiO <sub>2</sub> on (100) Ge substrate by pulsed laser deposition. Japanese Journal of Applied Physics, 2016, 55, 06GG06.	0.8	2
412	Synthesis of Nanoporous Li <sub>4</sub> Ti <sub>5</sub> O <sub>12</sub> -TiO <sub>2</sub> Composites for High-Performance Lithium-Ion Battery Anodes. ChemElectroChem, 2016, 3, 1951-1959.	1.7	11
413	Effect of mixed valence state of titanium on reduced recombination for natural dye-sensitized solar cell applications. Journal of Solid State Electrochemistry, 2016, 20, 1921-1932.	1.2	35
414	Ultra-small yellow defective TiO <sub>2</sub> nanoparticles for co-catalyst free photocatalytic hydrogen production. Nano Energy, 2016, 24, 63-71.	8.2	129
415	In situ synthesis of rice-like ZnGa <sub>2</sub> O <sub>4</sub> for the photocatalytic removal of organic and inorganic pollutants. Materials Science in Semiconductor Processing, 2016, 56, 251-259.	1.9	15
417	Tuning Surface Chemistry of TiC Electrodes for Lithium-Air Batteries. Chemistry of Materials, 2016, 28, 8248-8255.	3.2	29



#	ARTICLE	IF	CITATIONS
418	Review of functional titanium oxides. I: TiO <sub>2</sub> and its modifications. Progress in Solid State Chemistry, 2016, 44, 86-105.	3.9	252
419	A facile general route for ternary Fe <sub>2</sub> O <sub>3</sub> @TiO <sub>2</sub> @nanometal (Au, Ag) composite as a high-performance and recyclable photocatalyst. Journal of Industrial and Engineering Chemistry, 2016, 43, 142-149.	2.9	25
420	Hydrothermal synthesis and memristive switching behaviors of single-crystalline anatase TiO <sub>2</sub> nanowire arrays. Journal of Alloys and Compounds, 2016, 688, 294-300.	2.8	17
422	Electronic Conduction in Ti/Poly-TiO <sub>2</sub> /Ti Structures. Scientific Reports, 2016, 6, 29624.	1.6	39
423	Atomic scale characterization and surface chemistry of metal modified titanate nanotubes and nanowires. Surface Science Reports, 2016, 71, 473-546.	3.8	96
424	Endurance and Cycle-to-cycle Uniformity Improvement in Tri-Layered CeO <sub>2</sub> /Ti/CeO <sub>2</sub> Resistive Switching Devices by Changing Top Electrode Material. Scientific Reports, 2017, 7, 39539.	1.6	81
425	Surface chemistry of the titanium powder studied by XPS using internal standard reference. Powder Metallurgy, 2017, 60, 42-48.	0.9	35
426	Photochemical tuning of ultrathin TiO <sub>2</sub> /p-Si p-n junction properties via UV-induced H doping. Electronic Materials Letters, 2017, 13, 107-113.	1.0	5
427	Defect Chemistry of Nonprecious Metal Electrocatalysts for Oxygen Reactions. Advanced Materials, 2017, 29, 1606459.	11.1	1,260
428	Powder bed charging during electron-beam additive manufacturing. Acta Materialia, 2017, 124, 437-445.	3.8	69
429	Influence of methanol when used as a water-miscible carrier of pharmaceuticals in TiO <sub>2</sub> photocatalytic degradation experiments. Journal of Environmental Chemical Engineering, 2017, 5, 4497-4504.	3.3	19
430	Synthesis and Electrochemical Reaction Mechanism of Zn-TiO <sub>x</sub> -C Nanocomposite Anode Materials for Li Secondary Batteries. Journal of the Electrochemical Society, 2017, 164, A2683-A2688.	1.3	7
431	Concurrent photocatalytic and filtration processes using doped TiO <sub>2</sub> coated quartz fiber membranes in a photocatalytic membrane reactor. Chemical Engineering Journal, 2017, 330, 531-540.	6.6	53
432	The visible-light-assisted thermocatalytic methanation of CO <sub>2</sub> over Ru/TiO <sub>2-x</sub> N <sub>x</sub> . Applied Catalysis B: Environmental, 2017, 204, 440-455.	10.8	110
433	Osteoblast Cell Response on the Ti6Al4V Alloy Heat-Treated. Materials, 2017, 10, 445.	1.3	15
434	TiO <sub>2</sub> -Bi <sub>2</sub> O <sub>3</sub> /(BiO) <sub>2</sub> CO <sub>3</sub> -reduced graphene oxide composite as an effective visible light photocatalyst for degradation of aqueous bisphenol A solutions. Catalysis Today, 2018, 315, 237-246.	2.2	35
435	Valence-Tuned Lithium Titanate Nanopowder for High-Rate Electrochemical Energy Storage. Batteries and Supercaps, 2018, 1, 11-26.	2.4	17
436	Excess electrons in reduced rutile and anatase TiO <sub>2</sub> . Surface Science Reports, 2018, 73, 58-82.	3.8	106

#	ARTICLE	IF	CITATIONS
437	Tuning the surface morphology and local atomic structure of Mn-doped TiO <sub>2</sub> thin films using rapid thermal annealing. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 5982-5992.	1.1	7
438	Separation of Surface- and Bulk-specific Ti L-edge XANES Spectra of Rutile (110) Surface. <i>Journal of the Physical Society of Japan</i> , 2018, 87, 013601.	0.7	0
439	Effect of surface hydration on the photocatalytic activity of oxide catalysts in the CO oxidation. <i>Russian Chemical Bulletin</i> , 2018, 67, 243-251.	0.4	5
440	Low-energy ion irradiation in HiPIMS to enable anatase TiO <sub>2</sub> selective growth. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 235301.	1.3	24
441	Activation mechanism of Fe (III) ions in cassiterite flotation with benzohydroxamic acid collector. <i>Minerals Engineering</i> , 2018, 119, 31-37.	1.8	105
442	Surface-Plasmon-Driven Hot Electron Photochemistry. <i>Chemical Reviews</i> , 2018, 118, 2927-2954.	23.0	966
443	Species, engineering and characterizations of defects in TiO <sub>2</sub> -based photocatalyst. <i>Chinese Chemical Letters</i> , 2018, 29, 671-680.	4.8	67
444	Spray pyrolysis-deposited TiO <sub>2</sub> thin films as high-performance lithium ion battery anodes. <i>Ionics</i> , 2018, 24, 2193-2198.	1.2	3
445	Direct observation of atomic step edges on the rutile TiO <sub>2</sub> (110)-(1 Å <sup>-1</sup> ) surface using atomic force microscopy. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 28331-28337.	1.3	11
446	Tunable Coloring via Post-Thermal Annealing of Laser-Processed Metal Surface. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1716.	1.3	5
447	Dependence of calcium phosphate formation on nanostructure of rutile TiO <sub>2</sub> (110) surfaces. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 115501.	0.8	3
448	The Role of Adventitious Carbon in Photo-catalytic Nitrogen Fixation by Titania. <i>Journal of the American Chemical Society</i> , 2018, 140, 15157-15160.	6.6	88
449	Effect of the Heat-Treated Ti6Al4V Alloy on the Fibroblastic Cell Response. <i>Materials</i> , 2018, 11, 21.	1.3	9
450	Novel insights into adsorption mechanism of benzohydroxamic acid on lead (II)-activated cassiterite surface: An integrated experimental and computational study. <i>Minerals Engineering</i> , 2018, 122, 327-338.	1.8	63
451	Bias-Dependent Scanning Tunneling Microscopy Signature of Bridging-Oxygen Vacancies on Rutile TiO <sub>2</sub> (110). <i>ACS Omega</i> , 2018, 3, 6540-6545.	1.6	5
452	Electrochemical properties of NASICON-structured glass-ceramics of the Li <sub>1+x</sub> Crx(GeyTi <sub>1-y</sub> ) <sub>2-x</sub> (PO <sub>4</sub> ) <sub>3</sub> system. <i>Electrochimica Acta</i> , 2018, 283, 1835-1844.	2.6	3
453	Selective Flotation of Cassiterite from Calcite with Salicylhydroxamic Acid Collector and Carboxymethyl Cellulose Depressant. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 316.	0.8	28
454	Surface Reactivity of Titania-Vanadia Mixed Oxides Under Oxidizing Conditions. <i>Topics in Catalysis</i> , 2018, 61, 792-799.	1.3	1

#	ARTICLE	IF	CITATIONS
455	Syntheses and structural understanding of a Tiâ€“Ta alloy-based nanotubular oxide photocatalyst. CrystEngComm, 2018, 20, 5583-5591.	1.3	7
456	Evaluation of in situ water electrochemical disinfection using novel carbon-based and noble metal electrodes. Euro-Mediterranean Journal for Environmental Integration, 2018, 3, 1.	0.6	4
457	Argon Embedded by Ion Bombardment: Relevance of Hidden Dopants in Rutile TiO <sub>2</sub> . Journal of Physical Chemistry C, 2019, 123, 20434-20442.	1.5	17
458	Activation of Small Organic Molecules on Ti <sup>2+</sup> -Rich TiO <sub>2</sub> Surfaces: Deoxygenation vs. Câ€“C Coupling. Zeitschrift Fur Naturforschung - Section A Journal of Physical Sciences, 2019, 74, 697-707.	0.7	12
459	Metallurgical Characterization of Joined Materials. , 2019, , 203-218.		0
460	Introducing catalysis in photocatalysis: What can be understood from surface science studies of alcohol photoreforming on TiO <sub>2</sub> . Journal of Physics Condensed Matter, 2019, 31, 473002.	0.7	19
461	Tuning the Electrical Properties of Titanium Oxide Bilayers Prepared by Atomic Layer Deposition at Different Temperatures. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1900495.	0.8	6
462	Trellises of Molecular Oxygen on Anatase TiO <sub>2</sub> (101). Journal of Physical Chemistry C, 2019, 123, 26170-26177.	1.5	2
463	Pseudocubic Phase Tungsten Oxide as a Photocatalyst for Hydrogen Evolution Reaction. ACS Applied Energy Materials, 2019, 2, 8792-8800.	2.5	19
464	Mg <sup>2+</sup> and Ti <sup>4+</sup> Coâ€“Doped Spinel LiMn <sub>2</sub> O <sub>4</sub> as Lithiumâ€“ion Battery Cathode. ChemistrySelect, 2019, 4, 9583-9589.	0.7	25
465	Why co-catalyst-loaded rutile facilitates photocatalytic hydrogen evolution. Physical Chemistry Chemical Physics, 2019, 21, 1491-1496.	1.3	23
466	Growth of Ultrathin Single-Crystalline IrO <sub>2</sub> (110) Films on a TiO <sub>2</sub> (110) Single Crystal. Langmuir, 2019, 35, 7720-7726.	1.6	21
467	Experimental study of oxygen catalytic recombination on a smooth surface in a shock tube. Applied Thermal Engineering, 2019, 156, 678-691.	3.0	18
468	The role of surface reduction in the formation of Ti interstitials. RSC Advances, 2019, 9, 12182-12188.	1.7	6
469	Visible light assisted thermocatalytic reaction of COâ€“+â€“NO over Pd/LaFeO <sub>3</sub> . Applied Catalysis B: Environmental, 2019, 251, 130-142.	10.8	57
470	Engineering atomically flat rutile TiO <sub>2</sub> (100) over a centimeter scale. Surface Topography: Metrology and Properties, 2019, 7, 025002.	0.9	0
471	Band Gap Modification of TiO <sub>2</sub> Nanoparticles by Ascorbic Acid-Stabilized Pd Nanoparticles for Photocatalytic Suzukiâ€“Miyaura and Ullmann Coupling Reactions. Catalysis Letters, 2019, 149, 1595-1610.	1.4	27
472	Bulk Defect Dependence of Low-Temperature Partial Oxidation of Methanol and High-Temperature Hydrocarbon Formation on Rutile TiO <sub>2</sub> (110). Journal of Physical Chemistry C, 2019, 123, 7615-7626.	1.5	25

#	ARTICLE	IF	CITATIONS
473	Quasicrystals and their Approximants in 2D Ternary Oxides. <i>Physica Status Solidi (B): Basic Research</i> , 2020, 257, 1900624.	0.7	13
474	Improving the high-temperature oxidation resistance of TiB <sub>2</sub> thin films by alloying with Al. <i>Acta Materialia</i> , 2020, 196, 677-689.	3.8	65
475	Fabrication of a hydrazine chemical sensor based on facile synthesis of doped NZO nanostructure materials. <i>New Journal of Chemistry</i> , 2020, 44, 13018-13029.	1.4	25
476	Electron Probe for Surface Science and Surface Defect Engineering of Oxide Semiconductors for Sustainable Energy Conversion. <i>Journal of Physical Chemistry C</i> , 2020, 124, 20617-20642.	1.5	4
477	Enhancing the Photocatalytic Activity of TiO <sub>2</sub> by Modifying Surface with Polar Organic Anions for photocathodic Protection of 304 Stainless Steel. <i>International Journal of Electrochemical Science</i> , 2020, 15, 6880-6891.	0.5	3
478	Ti <sup>3+</sup> and oxygen defects controlled colored TiO <sub>2</sub> nanoparticles by continuous spray pyrolysis. <i>Vacuum</i> , 2020, 182, 109612.	1.6	18
479	Tuning the Carrier Lifetime in Black Phosphorene through Family Atom Doping. <i>Journal of Physical Chemistry Letters</i> , 2020, 11, 4662-4667.	2.1	48
480	Transfer of stored electrons between TiO <sub>2</sub> polymorphs during photocatalytic H <sub>2</sub> production in methanol-water medium. <i>Applied Catalysis A: General</i> , 2020, 598, 117548.	2.2	7
481	Photocatalytic performance of bipyramidal anatase TiO <sub>2</sub> toward the degradation organic dyes and its catalyst poisoning effect. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2020, 130, 531-546.	0.8	3
482	A functionalized duplex coating on CP-titanium for biomedical applications. <i>Surface and Coatings Technology</i> , 2020, 399, 126117.	2.2	7
483	Hydrogenation and hydrogen diffusion at the anatase TiO <sub>2</sub> (101) surface. <i>Journal of Chemical Physics</i> , 2020, 152, 074708.	1.2	11
484	Defect Engineering in Titanium-Based Oxides for Electrochemical Energy Storage Devices. <i>Electrochemical Energy Reviews</i> , 2020, 3, 286-343.	13.1	52
485	Synergistic effects of carbon doping and coating of TiO <sub>2</sub> with exceptional photocurrent enhancement for high performance H <sub>2</sub> production from water splitting. <i>Journal of Energy Chemistry</i> , 2021, 56, 141-151.	7.1	36
486	Enhanced photoelectrochemical cathodic protection performance of MoS <sub>2</sub> /TiO <sub>2</sub> nanocomposites for 304 stainless steel under visible light. <i>Journal of Materials Science and Technology</i> , 2021, 64, 21-28.	5.6	34
487	Enhanced photoluminescence and photocatalytic performance of a TiO <sub>2</sub> @ZnWO <sub>4</sub> nanocomposite induced by oxygen vacancies. <i>CrystEngComm</i> , 2021, 23, 1336-1344.	1.3	9
488	Structural and Electronic Properties of Various Useful Metal Oxides. , 2021, , 49-84.		0
489	A combined laboratory and synchrotron in-situ photoemission study of the rutile TiO <sub>2</sub> (110)/water interface. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 194001.	1.3	6
490	Unmodified Titanium Dioxide Nanoparticles as a Potential Contrast Agent in Photon Emission Computed Tomography. <i>Crystals</i> , 2021, 11, 171.	1.0	18

#	ARTICLE	IF	CITATIONS
491	Role of the Metal Oxide Electron Acceptor on Goldâ€‘Plasmon Hot-Carrier Dynamics and Its Implication to Photocatalysis and Photovoltaics. ACS Applied Nano Materials, 2021, 4, 2052-2060.	2.4	19
492	Study of the K <sub>2</sub> Ti <sub>6-x</sub> Zr <sub>x</sub> O <sub>13</sub> (x = 0 - 1) solid solution for enhancing the photocatalytic hydrogen production: Oxygen vacancies playing an important role in the catalytic performance. Journal of Photochemistry and Photobiology A: Chemistry, 2021, 409, 113134.	2.0	4
493	Interaction of Water with Atomic Layer Deposited Titanium Dioxide on p-Si Photocathode: Modeling of Photoelectrochemical Interfaces in Ultrahigh Vacuum with Cryo-Photoelectron Spectroscopy. Advanced Materials Interfaces, 2021, 8, 2002257.	1.9	13
494	Photocatalytic and Antibacterial Potency of Titanium Dioxide Nanoparticles: A Cost-Effective and Environmentally Friendly Media for Treatment of Air and Wastewater. Catalysts, 2021, 11, 709.	1.6	20
495	Effects of surface defects on adsorption of CO and methyl groups on rutile TiO <sub>2</sub> (110). Chinese Journal of Chemical Physics, 2021, 34, 249-255.	0.6	0
496	Hydrogen induced trap states in TiO <sub>2</sub> probed by resonant X-ray photoemission. , 2021, , .		0
497	Oxidation of Sn at the Clusterâ€‘Support Interface: Sn and Ptâ€‘Sn Clusters on TiO <sub>2</sub> (110). Journal of Physical Chemistry C, 2021, 125, 17671-17683.	1.5	10
498	Borocarbonitride Layers on Titanium Dioxide Nanoribbons for Efficient Photoelectrocatalytic Water Splitting. Materials, 2021, 14, 5490.	1.3	4
499	Benzohydroxamic acid on rutile TiO <sub>2</sub> (110)-(1Å <sup>-1</sup> )â€‘ a comparison of ultrahigh-vacuum evaporation with deposition from solution. Surface Science, 2022, 716, 121955.	0.8	4
500	Tuning the electronic properties of a clean TiO <sub>2</sub> (1 1 0) surface via repeated sputtering and annealing: A KPFM and LC-AFM study. Applied Surface Science, 2022, 571, 151303.	3.1	4
501	Surface Chemistry of Model Oxide-Supported Metal Catalysts: An Overview of Gold on Titania. Fundamental and Applied Catalysis, 2002, , 147-189.	0.9	5
502	Site Specificity in Stimulated Desorption from TiO <sub>2</sub> . Springer Series in Surface Sciences, 1985, , 89-93.	0.3	2
503	Theoretical Investigation of Metal-Support Interactions and Their Influence on Chemisorption. , 1990, , 311-398.		3
504	The Structure and Reactivity of TiO <sub>2</sub> (110) Supported Palladium and Rhodium. , 1997, , 215-235.		3
505	Surface Defects in Two-Dimensional Photocatalysts for Efficient Organic Synthesis. Matter, 2020, 2, 842-861.	5.0	107
506	X-ray absorption linear dichroism at the Ti <i>K</i> -edge of rutile (001) TiO <sub>2</sub> single crystal. Journal of Synchrotron Radiation, 2020, 27, 425-435.	1.0	7
507	Adsorption of Phthalocyanines on Stoichiometric and Reduced Rutile TiO <sub>2</sub> (110). ECS Journal of Solid State Science and Technology, 2020, 9, 061021.	0.9	3
508	Electrolytic Deposition of Nanocomposite Coatings: Processing, Properties, and Applications. , 2010, , 257-304.		7

#	ARTICLE	IF	CITATIONS
509	Sensor.. Hyomen Kagaku, 1989, 10, 877-883.	0.0	1
510	Effect of Oxygen Vacancies on Photocatalytic Efficiency of TiO <sub>2</sub> Nanotubes Aggregation. Bulletin of the Korean Chemical Society, 2012, 33, 2255-2259.	1.0	33
511	Structure Analyses of Ti-Based Self-Formed Barrier Layers. Japanese Journal of Applied Physics, 2011, 50, 04DB03.	0.8	3
512	<i>Ab-initio</i> Electronic and Structural Properties of Rutile Titanium Dioxide. Japanese Journal of Applied Physics, 2011, 50, 101103.	0.8	40
513	Oxygen-Induced Barrier Failure in Ti-Based Self-Formed and Ta/TaN Barriers for Cu Interconnects. Japanese Journal of Applied Physics, 2012, 51, 04DB06.	0.8	3
514	Designs from single junctions, heterojunctions to multijunctions for high-performance perovskite solar cells. Chemical Society Reviews, 2021, 50, 13090-13128.	18.7	91
515	Surface Characteristics of Porous Ti-6Al-4V Implants Fabricated by Electro-Discharge-Sintering in a Low Vacuum Atmosphere. Korean Journal of Materials Research, 2006, 16, 178-182.	0.1	0
516	Photoemission Study of the Au-SrTiO <sub>3</sub> (100) Surface. IEEJ Transactions on Electronics, Information and Systems, 2009, 129, 225-228.	0.1	0
517	Transition Metal Nitride-Based Nanolayered Multilayer Coatings and Nanocomposite Coatings as Novel Superhard Materials. , 2010, , 439-492.		1
518	Transition Metal Nitride-Based Nanolayered Multilayer Coatings and Nanocomposite Coatings as Novel Superhard. , 2010, , 427-480.		2
521	Electronic Excitations at Oxide Surfaces. Springer Series in Solid-state Sciences, 1996, , 65-77.	0.3	0
522	Characterization of the Schottky Barrier Height of the Pt/HfO <sub>2</sub> /p-type Si MIS Capacitor by Internal Photoemission Spectroscopy. Korean Journal of Materials Research, 2017, 27, 48-52.	0.1	0
523	Resistive switching characteristics and resistive switching mechanism of Au/TiO <sub>2</sub> /FTO memristor. Wuli Xuebao/Acta Physica Sinica, 2018, 67, 157302.	0.2	8
524	Hetero- and Under-Coordination Coupling. , 2020, , 205-214.		0
525	Investigation of surface defects in BaTiO <sub>3</sub> nanopowders studied by XPS and positron annihilation lifetime spectroscopy. Applied Surface Science, 2022, 578, 151807.	3.1	28
526	Wet-chemistry hydrogen doped TiO <sub>2</sub> with switchable defects control for photocatalytic hydrogen evolution. Matter, 2022, 5, 206-218.	5.0	66
527	Optimized Bridgman growth and quality improvement of LiInSe <sub>2</sub> crystal by annealing in Li <sub>2</sub> Se vapor atmosphere. Journal of Alloys and Compounds, 2022, 904, 163991.	2.8	2
528	Properties of self-oxidized single crystalline perovskite N:BaTiO <sub>3</sub> oxynitrides epitaxial thin films. Materials Advances, 0, , .	2.6	0

#	ARTICLE	IF	CITATIONS
529	Effect of external electric field on ultraviolet-induced nanoparticle colloid jet machining. <i>Nanotechnology</i> , 2022, 33, 215302.	1.3	3
530	Ti and TiO <sub>2</sub> magnetron sputtering in roll-to-roll fabrication of hybrid membranes. <i>Surfaces and Interfaces</i> , 2022, 31, 101975.	1.5	4
532	Formic acid and hydrogen generation from the photocatalytic reduction of CO <sub>2</sub> on visible light activated N-TiO <sub>2</sub> /CeO <sub>2</sub> /CuO composites. <i>Journal of Photochemistry and Photobiology</i> , 2022, 11, 100125.	1.1	9
533	Understanding the fundamentals of TiO <sub>2</sub> surfaces. Part I. The influence of defect states on the correlation between crystallographic structure, electronic structure and physical properties of single-crystal surfaces. <i>Surface Engineering</i> , 2022, 38, 91-149.	1.1	5
534	Oxygen vacancies role in thermally driven and photon driven catalytic reactions. <i>Chem Catalysis</i> , 2022, 2, 1549-1560.	2.9	8
535	Foundry Service of CMOS MEMS Processes and the Case Study of the Flow Sensor. <i>Processes</i> , 2022, 10, 1280.	1.3	2
536	Efficient and stable Pt/CaO-TiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> for the catalytic dehydrogenation of cycloalkanes as an endothermic hydrocarbon fuel. <i>Fuel</i> , 2023, 331, 125732.	3.4	4
537	Hydrothermally Grown Dual-Phase Heterogeneous Electrocatalysts for Highly Efficient Rechargeable Metal-Air Batteries with Long-Term Stability. <i>Advanced Science</i> , 0, , 2203663.	5.6	4
538	Synergistic Bactericidal Activity of Nanospire-Structured Titanium Dioxide (Anatase) Synergistic Bactericidal Activity of Nanospire-Structured Titanium Dioxide (Anatase). <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
539	Enhanced selective photocatalytic oxidation of a bio-derived platform chemical with vacancy-induced core-shell anatase TiO <sub>2</sub> nanoparticles. <i>Applied Catalysis B: Environmental</i> , 2023, 322, 122140.	10.8	6
540	Inherent Redox Activity of Titania Support Enhances Catalytic Activity of Highly Dispersed Cu Catalyst. <i>ChemistrySelect</i> , 2022, 7, .	0.7	0
541	TiO <sub>2</sub> NGQD composite photocatalysts with switchable photocurrent response. <i>Nanoscale</i> , 2023, 15, 2788-2797.	2.8	4
542	Unraveling the Water Oxidation Mechanism on a Stoichiometric and Reduced Rutile TiO <sub>2</sub> (100) Surface Using First-Principles Calculations. <i>Journal of Physical Chemistry C</i> , 2023, 127, 3444-3451.	1.5	2
543	Understanding the fundamentals of TiO <sub>2</sub> surfaces Part II. Reactivity and surface chemistry of TiO <sub>2</sub> single crystals. <i>Surface Engineering</i> , 2022, 38, 846-906.	1.1	0
544	Effect of Decoration of C@TiO <sub>2</sub> Core-Shell Composites with Nano-Ag Particles on Photocatalytic Activity in 4-Nitrophenol Degradation. <i>Catalysts</i> , 2023, 13, 764.	1.6	0