## CITATION REPORT List of articles citing

The 21 reconstruction of the rutile TiO2(011) surface: A combined density functional theory, X-ray diffraction, and scanning tunneling microscopy study

DOI: 10.1016/j.susc.2008.10.034 Surface Science, 2009, 603, 138-144.

Source: https://exaly.com/paper-pdf/46144227/citation-report.pdf

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
96	Formamide reactions on rutile TiO2(011) surface. Surface Science, 2009, 603, 2986-2990	1.8	17
95	Geometric structure of (011)(21) surface by low energy electron diffraction (LEED). <i>Surface Science</i> , <b>2009</b> , 603, 3367-3373	1.8	25
94	Manipulation of oxide surfaces. <i>Surface Science</i> , <b>2009</b> , 603, 3255-3261	1.8	10
93	Nucleation and Growth of 1D Water Clusters on Rutile TiO2 (011)-2 <b>1</b> . <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10329-10332	3.8	32
92	Oxide surface science. <i>Annual Review of Physical Chemistry</i> , <b>2010</b> , 61, 129-48	15.7	151
91	Titania-water interactions: a review of theoretical studies. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 103	19	228
90	Model studies on CO oxidation catalyst systems: titania and gold nanoparticles. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1344-63	3.2	26
89	Controlled reorientation of CuPc molecules in ordered structures assembled on the TiO(2)(011)-(2x1) surface. <i>ChemPhysChem</i> , <b>2010</b> , 11, 1863-6	3.2	13
88	Photoreactions of Organic Compounds with TiO2 Single Crystal Surfaces. <i>Nanostructure Science and Technology</i> , <b>2010</b> , 503-524	0.9	2
87	Surface properties and electronic structure of low-index stoichiometric anatase TiO(2) surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 175008	1.8	42
86	Photoreaction of the rutile TiO2(011) single-crystal surface: reaction with acetic acid. <i>Langmuir</i> , <b>2010</b> , 26, 6411-7	4	48
85	Role of Surface Structure on the Charge Trapping in TiO2 Photocatalysts. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 3200-3206	6.4	44
84	Fundamental aspects of surface engineering of transition metal oxide photocatalysts. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 3275	35.4	209
83	First-Principles Study of Adsorption of Dimethyl Methylphosphonate on the TiO2 Anatase (001) Surface: Formation of a Stable Titanyl (Ti?O) Site. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 6741-6747	3.8	32
82	Adsorption of Acetic Acid on Rutile TiO2(110) vs (011)-2 🛭 Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 3434-3442	3.8	44
81	Dedicated beamlines for in-situ investigations of materials in reduced dimensions. <i>International Journal of Materials Research</i> , <b>2011</b> , 102, 913-924	0.5	5
80	Adsorption of organic molecules on the TiO2(011) surface: STM study. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 224701	3.9	34

79	A two-dimensional phase of TiODwith a reduced bandgap. <i>Nature Chemistry</i> , <b>2011</b> , 3, 296-300	17.6	339
78	Discovery of deep and shallow trap states from step structures of rutile TiO2 vicinal surfaces by second harmonic and sum frequency generation spectroscopy. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 154704	3.9	32
77	A surface science perspective on TiO2 photocatalysis. Surface Science Reports, 2011, 66, 185-297	12.9	1592
76	Oxygen adsorption on anatase surfaces and edges. <i>Applied Surface Science</i> , <b>2011</b> , 257, 8402-8408	6.7	10
75	Adsorption and reaction of glycine on the rutile TiO2(011) single crystal surface. <i>Surface Science</i> , <b>2011</b> , 605, 206-213	1.8	23
74	Structure of the rutile TiO2(011) surface in an aqueous environment. <i>Physical Review Letters</i> , <b>2011</b> , 106, 166102	7.4	39
73	Role of ethylene on surface oxidation of TiO2(110). Applied Physics Letters, 2012, 101, 211601	3.4	2
72	Scanning tunneling microscopy contrast mechanisms for TiO2. <i>Physical Review Letters</i> , <b>2012</b> , 109, 1561	0 <del>5</del> .4	31
71	Adsorbate induced restructuring of TiO2(011)-(211) leads to one-dimensional nanocluster formation. <i>Physical Review Letters</i> , <b>2012</b> , 108, 106105	7.4	25
70	Diffusion and Reaction of Hydrogen on Rutile TiO2(011)-2 <mark>1</mark> 1: The Role of Surface Structure. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 20438-20446	3.8	39
69	[11]Anthrahelicene on TiO2 surfaces. Surface Science, 2012, 606, 1600-1607	1.8	14
68	Fingerprints of order and disorder in the electronic and optical properties of crystalline and amorphous TiO2. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	56
67	The photoreaction of TiO2 and Au/TiO2 single crystal and powder surfaces with organic adsorbates. Emphasis on hydrogen production from renewables. <i>Green Chemistry</i> , <b>2012</b> , 14, 260-280	10	61
66	Polymerization of polyanthrylene on a titanium dioxide (011)-(211) surface. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 10300-3	16.4	48
65	Electronic Origin of the Surface Reactivity of Transition-Metal-Doped TiO2(110). <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 460-465	3.8	72
64	TiO2 nanocluster modified-rutile TiO2 photocatalyst: a first principles investigation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 2515	13	35
63	Study of the interaction of formic acid, formaldehyde and formamide with the bulk terminated (1 🛭 1) and reconstructed (2 🗓) surfaces of rutile TiO2(011). <i>Surface Science</i> , <b>2013</b> , 607, 187-196	1.8	17
62	Surface Science Studies of Metal Oxide Gas Sensing Materials. <b>2013</b> , 35-67		2

61	Structure of clean and adsorbate-covered single-crystal rutile TiO2 surfaces. <i>Chemical Reviews</i> , <b>2013</b> , 113, 3887-948	68.1	257
60	Adsorption and Self-Assembly of Large Polycyclic Molecules on the Surfaces of TiO2 Single Crystals. <i>International Journal of Molecular Sciences</i> , <b>2013</b> , 14, 2946-66	6.3	43
59	Polymerization of Polyanthrylene on a Titanium Dioxide (011)-(211) Surface. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 10490-10493	3.6	12
58	The hydroxylated and reduced rutile TiO2(011)-21 surfaces: A first-principles study. <i>Surface Science</i> , <b>2014</b> , 628, 126-131	1.8	5
57	LSDA+U calculations of the electronic and optical properties of rutile TiO2(110) vs (011)-2d surfaces. <i>Computational Materials Science</i> , <b>2014</b> , 90, 1-6	3.2	4
56	The Role of Hydrogen on the Adsorption Behavior of Carboxylic Acid on TiO2 Surfaces. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 10771-10779	3.8	26
55	Titanium dioxide (anatase and rutile): surface chemistry, liquid-solid interface chemistry, and scientific synthesis of supported catalysts. <i>Chemical Reviews</i> , <b>2014</b> , 114, 9754-823	68.1	228
54	Density functional theory study of mixed-phase TiOIheterostructures and electronic properties. Journal of Molecular Modeling, <b>2014</b> , 20, 2215	2	9
53	(2 🛮) Reconstructions of TiO(011) Revealed by Noncontact Atomic Force Microscopy and Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 23168-23174	3.8	11
52	First-principles study of structural, electronic, and optical properties of the rutile TiO2(011)-2 <b>1</b> surface. <i>Surface Science</i> , <b>2014</b> , 621, 88-93	1.8	11
51	Influence of hydroxyls on Pd atom mobility and clustering on rutile TiO(2)(011)-2 🗓 . <i>ACS Nano</i> , <b>2014</b> , 8, 6321-33	16.7	46
50	Ordered heteromolecular overlayers formed by metal phthalocyanines and porphyrins on rutile titanium dioxide surface studied at room temperature. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 224702	3.9	14
49	Effect of Surface Structure on the Photoreactivity of TiO2. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 6121-6127	3.8	41
48	Ordered Fe(II)Ti(IV)O3 Mixed Monolayer Oxide on Rutile TiO2(011). ACS Nano, 2015, 9, 8627-36	16.7	12
47	Role of a Carboxyl Group in the Adsorption of Zn Porphyrins on TiO2(011)-2 Surface. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 21561-21566	3.8	20
46	Facet Dependence of Photochemistry of Methanol on Single Crystalline Rutile Titania (Chinese Journal of Chemical Physics, <b>2016</b> , 29, 105-111	0.9	3
45	Fe(II)Ti(IV)O3 mixed oxide monolayer at rutile TiO2(011): Structures and reactivities. <i>Surface Science</i> , <b>2016</b> , 653, 34-40	1.8	4
44	The unexpectedly rich reconstructions of rutile TiO2(011)-(2 🗓) surface and the driving forces behind their formation: an ab initio evolutionary study. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 19549-56	3.6	17

## (2018-2016)

43	Locating structures and evolution pathways of reconstructed rutile TiO2(011) using genetic algorithm aided density functional theory calculations. <i>Journal of Molecular Modeling</i> , <b>2016</b> , 22, 114	2	2
42	Rutile TiO(011)-2 Ill Reconstructed Surfaces with Optical Absorption over the Visible Light Spectrum. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2016</b> , 8, 27403-27410	9.5	14
41	An Ordered Mixed Oxide Monolayer Formed by Iron Segregation on Rutile-TiO2(011): Structural Determination by X-ray Photoelectron Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 26414-26	4 <b>2</b> :8	4
40	Structure of TiO2 (011) revealed by photoelectron diffraction. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	6
39	Monolayer Intermixed Oxide Surfaces: Fe, Ni, Cr, and V Oxides on Rutile TiO2(011). <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 14782-14794	3.8	10
38	Imaging the TiO2(011)-(2 🗓) Surface using Noncontact Atomic Force Microscopy and Scanning Tunneling Microscopy. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 3390-3395	3.8	9
37	Elementary photocatalytic chemistry on TiO2 surfaces. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 3701-30	58.5	242
36	Anatase (101)-like Structural Model Revealed for Metastable Rutile TiO(011) Surface. <i>ACS Applied Materials &amp; Amp; Interfaces</i> , <b>2017</b> , 9, 7891-7896	9.5	22
35	Structural motifs of water on metal oxide surfaces. Chemical Society Reviews, 2017, 46, 1785-1806	58.5	127
34	Electronic structures of rutile (011)(2 🗈) surfaces: A many-body perturbation theory study. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 124702	3.9	6
33	Structural Dependence of Competitive Adsorption of Water and Methanol on TiO2 Surfaces. <i>Chinese Journal of Chemistry</i> , <b>2017</b> , 35, 889-895	4.9	10
32	Perspectives on dendritic architectures and their biological applications: From core to cell. <i>Journal of Photochemistry and Photobiology B: Biology</i> , <b>2017</b> , 173, 61-83	6.7	10
31	Surface Structure of TiO Rutile (011) Exposed to Liquid Water. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 26424-26431	3.8	27
30	Van der Waals Interaction Really Matters: Energetics of Benzoic Acid on TiO2 Rutile Surfaces. Journal of Physical Chemistry C, <b>2017</b> , 121, 17207-17214	3.8	9
29	Mixed oxides on rutile TiO2(011): Cr2O3 and Cu2O. <i>Journal of Vacuum Science and Technology A:</i> Vacuum, Surfaces and Films, <b>2017</b> , 35, 061406	2.9	1
28	Ordering of Zn-centered porphyrin and phthalocyanine on TiO(011): STM studies. <i>Beilstein Journal of Nanotechnology</i> , <b>2017</b> , 8, 99-107	3	12
27	Anatase (101) Reconstructed Surface with Novel Functionalities: Desired Bandgap for Visible Light Absorption and High Chemical Reactivity. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1705529	15.6	9
26	ArylAryl Covalent Coupling on Rutile TiO2 Surfaces. <i>Advances in Atom and Single Molecule Machines</i> , <b>2018</b> , 153-177	О	

25	On-Surface Synthesis II. Advances in Atom and Single Molecule Machines, 2018,	О	11
24	Structure and Reactivity of Methanol Adsorbed on Rutile TiO2(011) Surface. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 24202-24208	3.8	1
23	Accelerating atomic structure search with cluster regularization. <i>Journal of Chemical Physics</i> , <b>2018</b> , 148, 241734	3.9	15
22	Titania and Its Outstanding Properties: Insights from First Principles Calculations. <b>2018</b> , 1-23		1
21	A review of titanium dioxide and its highlighted application in molecular imprinting technology in environment. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2018</b> , 91, 517-531	5.3	24
20	Surface chemistry and catalysis of oxide model catalysts from single crystals to nanocrystals. <i>Surface Science Reports</i> , <b>2019</b> , 74, 100471	12.9	65
19	Single Molecule Photocatalysis on TiO Surfaces. <i>Chemical Reviews</i> , <b>2019</b> , 119, 11020-11041	68.1	115
18	Comprehensive DFT study of hydroxyl coverage on titania surfaces. <i>Applied Surface Science</i> , <b>2019</b> , 498, 143893	6.7	5
17	Water-Induced Reversal of the TiO(011)-(2 🗓) Surface Reconstruction: Observed with in Situ Surface X-ray Diffraction. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 13545-13550	3.8	6
16	Surface Reconstructions of Metal Oxides and the Consequences on Catalytic Chemistry. <i>ACS Catalysis</i> , <b>2019</b> , 9, 5692-5707	13.1	65
15	Water Adsorption on MO (M = Ti, Ru, and Ir) Surfaces. Importance of Octahedral Distortion and Cooperative Effects. <i>ACS Omega</i> , <b>2019</b> , 4, 2989-2999	3.9	19
14	Attaching titania clusters of various size to reduced graphene oxide and its impact on the conceivable photocatalytic behavior of the junctions-a DFT/D + U and TD DFTB modeling. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 404001	1.8	7
13	Why Do We Use the Materials and Operating Conditions We Use for Heterogeneous (Photo)Electrochemical Water Splitting?. <i>ACS Catalysis</i> , <b>2020</b> , 10, 11177-11234	13.1	36
12	Biocompatible Ag/Fe-Enhanced TiO Nanoparticles as an Effective Compound in Sunscreens. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	6
11	High-Resolution Crystal Truncation Rod Scattering: Application to Ultrathin Layers and Buried Interfaces. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1901772	4.6	13
10	Surface chemistry and photochemistry of small molecules on rutile TiO(001) and TiO(011)-(2 🗓) surfaces: The crucial roles of defects. <i>Journal of Chemical Physics</i> , <b>2020</b> , 152, 044702	3.9	5
9	Surface chemistry of TiO connecting thermal catalysis and photocatalysis. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 9875-9909	3.6	20
8	Titania and Its Outstanding Properties: Insights from First Principles Calculations. <b>2020</b> , 29-51		1

## CITATION REPORT

7 Chapter 2:Computational Materials Discovery Using Evolutionary Algorithms. **2018**, 15-65

6	The Chemical Nature of TiO: Vibrational Predissociation Spectroscopy Combined with Global Structure Optimization. <i>Journal of Physical Chemistry A</i> , <b>2021</b> , 125, 9571-9577	2.8	1
5	Exploring graphene quantum dots@TiO2 rutile (0 1 1) interface for visible-driven hydrogen production in photoelectrochemical cell: Density functional theory and experimental study. <i>Applied Surface Science</i> , <b>2022</b> , 576, 151871	6.7	1
4	Oxidative decomposition of dimethyl methylphosphonate on rutile TiO2(110): the role of oxygen vacancies. <b>2022</b> , 24, 23402-23419		O
3	(21) Reconstruction Mechanism of Rutile TiO2(011) Surface. 2023, 17, 3549-3556		О
2	Understanding the fundamentals of TiO2 surfacesPart II. Reactivity and surface chemistry of TiO2 single crystals. <b>2022</b> , 38, 846-906		О
1	Interaction of Atomic Deuterium with Rutile TiO2(011)-(2 <b>1</b> ). <b>2023</b> , 127, 6723-6732		О