

## Publications (peer-reviewed)

Ulrike Diebold

2021

265. Margareta Wagner, Jakub Planer, Bettina S. J. Heller, Jens Langer, Andreas Limbeck, Lynn A. Boatner, Hans-Peter Steinrück, Josef Redinger, Florian Maier, Florian Mittendorfer, Michael Schmid and Ulrike Diebold  
“An oxygen-rich, tetrahedral surface phase on high-temperature rutile VO<sub>2</sub>(110)T single crystals”  
Physical Review Materials, in press (October 2021)  
<http://arxiv.org/abs/2107.00350>
264. Zdenek Jakub, Matthias Meier, Florian Kraushofer, Jan Balajka, Jiri Pavelec, Michael Schmid, Cesare Franchini, Ulrike Diebold, Gareth S. Parkinson  
“Rapid oxygen exchange at the hematite/water interface: The crucial role of surface diffusion”  
Nature Communications, in press (October 2021)
263. Giada Franceschi, Michael Schmid, Rene Heller, Michael Stöger-Pollach, Ulrike Diebold, and Michele Riva  
“A 2D surface phase diagram for a multicomponent perovskite oxide: La<sub>0.8</sub>Sr<sub>0.2</sub>MnO<sub>3</sub>(110)”  
Physical Review Materials, in press (August 2021)  
DOI: [10.1103/PhysRevMaterials.00.002400](https://doi.org/10.1103/PhysRevMaterials.00.002400)  
<http://arxiv.org/abs/2010.05205>
262. Francesca Mirabella, Matthias Müllner, Thomas Touzialin, Michele Riva, Zdenek Jakub, Florian Kraushofer, Michael Schmid, Marc T.M. Koper, Gareth S. Parkinson, and Ulrike Diebold  
“Ni modified Fe<sub>3</sub>O<sub>4</sub>(001) surface as a simple model system for understanding the Oxygen Evolution Reaction”  
Electrochimica Acta, 389 (2021) 138639  
<https://doi.org/10.1016/j.electacta.2021.138638>
261. Igor Sokolovic, Giada Franceschi, Jian Xu, Zhichang Wang, Jiri Pavelec, Michele Riva, Michael Schmid, Ulrike Diebold, and Martin Setvin  
“The quest for a pristine, unreconstructed SrTiO<sub>3</sub>(001) surface: A study with atomically-resolved nc-AFM”  
Physical Review B, 103 (2021) L241406  
<https://journals.aps.org/prb/abstract/10.1103/PhysRevB.103.L241406>
260. Margareta Wagner, Bernd Meyer, Martin Setvin, Michael Schmid, and Ulrike Diebold  
“Assessing of the acidity of individual surface hydroxyls”  
Nature, 592 (2021) 722–725  
<https://doi.org/10.1038/s41586-021-03432-3>
259. Cesare Franchini, Michele Reticcioli, Martin Setvin, and Ulrike Diebold  
“Polarons in Materials”  
Nature Materials Reviews (2021)  
<https://doi.org/10.1038/s41578-021-00289-w>

258. Florian Kraushofer, Nikolaus Resch, Moritz Eder, Ali Rafsanjani-Abbasi, Sarah Tobisch, Zdenek Jakub, Giada Franceschi, Michele Riva, Matthias Meier, Michael Schmid, Ulrike Diebold, Gareth S. Parkinson  
 “Surface reduction state determines stabilization and incorporation of Rh on  $\alpha$ -Fe<sub>2</sub>O<sub>3</sub>(1-102)”  
Advanced Materials Interfaces (2021) 2001908  
[DOI: 10.1002/admi.202001908](https://doi.org/10.1002/admi.202001908)
257. Jan Hulva, Matthias Meier, Roland Bliem, Zdenek Jakub, Michael Schmid, Ulrike Diebold, Cesare Franchini, Gareth S. Parkinson  
 “Unravelling CO Adsorption on Model Single-Atom Catalysts”  
Science, 371 (2021) 375-379  
[doi: 10.1126/science.abe5757](https://doi.org/10.1126/science.abe5757)

## 2020

256. Jakob Timmermann, Florian Kraushofer, Nikolaus Resch, Piegang Li, Yu wang, Zhiqiang Mao, Michele Riva, Yonghyuk Lee, Carsten Staacke, Michael Schmid, Christoph Scheurer, Gareth Parkinson, Ulrike Diebold, and Karsten Reuter  
 “IrO<sub>2</sub> Surface Complexions Identified Through Machine Learning and Surface Investigations”  
Physical Review Letters, 125 (2020) 206101  
<https://journals.aps.org/prl/pdf/10.1103/PhysRevLett.125.206101>
255. Giada Franceschi, Michael Schmid, Ulrike Diebold, and Michele Riva  
 “Atomically resolved surfaces of lanthanum-strontium manganite (110) films”  
Journal of Materials Chemistry A, 8 (2020) 22947 - 22961  
[DOI: 10.1039/D0TA07032G](https://doi.org/10.1039/D0TA07032G)
254. Doris Grumelli, Tim Wiegmann, Sara Barja, Finn Reikowski, Foad Maroun, Phillipe Allongue, Jan Balajka, Gareth S. Parkinson, Ulrike Diebold, Klaus Kern, Olaf Magnussen  
 “Electrochemical stability of reconstructed Fe<sub>3</sub>O<sub>4</sub>(001)”  
Angewandte Chemie International Edition, 59 (2020) 21904 - 21908  
<https://doi.org/10.1002/anie.202008785>
253. Francesca Mirabella, Jan Balajka, Jiri Pavelec, Markus Göbel, Florian Kraushofer, Michael Schmid, Gareth Parkinson and Ulrike Diebold  
 “Atomic-scale studies of Fe<sub>3</sub>O<sub>4</sub>(001) and TiO<sub>2</sub>(110) surfaces following immersion in CO<sub>2</sub>-acidified water”  
ChemPhysChem, 21 (2020) 1788 - 1796  
[DOI: 10.1002/cphc.202000471](https://doi.org/10.1002/cphc.202000471)
252. Martin Štubian, Juraj Bobek, Martin Setvin, Ulrike Diebold, and Michael Schmid  
 “Fast low-noise transimpedance amplifier for scanning tunneling microscopy and beyond”  
Review of Scientific Instruments, 91 (2020) 074701  
[doi: 10.1063/5.0011097](https://doi.org/10.1063/5.0011097)
251. Giada Franceschi, Michael Schmid, Ulrike Diebold, and Michele Riva  
 “Movable holder for quartz crystal microbalance for exact growth rates during pulsed laser deposition”  
Review of Scientific Instruments, 91 (2020) 065003  
[doi: 10.1063/5.0007643](https://doi.org/10.1063/5.0007643)
250. Igor Sokolović, Michele Reticcioli, Martin Calkovsyk, Margareta Wagner, Michael Schmid, , Cesare Franchini\*, Ulrike Diebold, and Martin Setvin  
 “Resolving the adsorption of molecular O<sub>2</sub> on the rutile TiO<sub>2</sub>(110)-(1x1) surface by non-contact atomic force microscopy”  
Proceeding of the National Academy of Sciences, 26 (2020) 14827 - 14837  
[www.pnas.org/cgi/doi/10.1073/pnas.1922452117](https://www.pnas.org/cgi/doi/10.1073/pnas.1922452117)

249. Giada Franceschi, Florian Kraushofer, Matthias Meier, Gareth Parkinson, Michael Schmid, Ulrike Diebold, and Michele Riva  
 “Tailoring materials properties for mechanistic insights into photocatalysis: Ti-doped Fe<sub>2</sub>O<sub>3</sub>(11bar02)”  
Chemistry of Materials, in press (April 2020)  
<https://pubs.acs.org/doi/10.1021/acs.chemmater.9b049>
248. Zdenek Jakub, Jan Hulva, Paul T. P. Ryan, David A. Duncan, David J. Payne, Roland Bliem, Manuel Ulreich, Patrick Hofegger, Florian Kraushofer, Matthias Meier, Ulrike Diebold, Gareth S. Parkinson  
 “Structural evolution changes mechanism of CO oxidation on Rh/Fe<sub>3</sub>O<sub>4</sub>(001) model catalyst”  
Nanoscale, 12 (2020) 5866 - 5875  
 DOI: [10.1039/c9nr10087c](https://doi.org/10.1039/c9nr10087c)
247. Peter Lackner, Amy Brandt, Ulrike Diebold, and Michael Schmid  
 Few-monolayer yttria-doped zirconia films: Segregation and phase stabilization  
Journal of Chemical Physics, 152 (2020) 064709  
<https://doi.org/10.1063/1.5140266>  
<http://arxiv.org/abs/2001.07395>
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246. Peter Lackner, Joong-Il Jake Choi, Ulrike Diebold, and Michael Schmid  
 “Substoichiometric ultrathin zirconia films cause strong metal-support interaction “  
Journal of Materials Chemistry A, 7 (2019) 24837 - 24846  
 doi: [10.1103/PhysRevResearch.1.033059](https://doi.org/10.1103/PhysRevResearch.1.033059)  
*Part of the themed collection: 2019 Journal of Materials Chemistry A HOT Papers*
245. Michele Riva, Giada Franceschi, Michael Schmid, and Ulrike Diebold  
 “Surface Reconstructions Affect the Epitaxial Growth of Complex Oxide Thin Films”  
Physical Review Research 1 (September 2019) 033059  
 doi: [10.1103/PhysRevResearch.1.033059](https://doi.org/10.1103/PhysRevResearch.1.033059)
244. Giada Franceschi, Margareta Wagner, Jakob Hofinger, Tomáš Krajčák, Michael Schmid, Ulrike Diebold, Michele Riva  
 “Growth of In<sub>2</sub>O<sub>3</sub>(111) Thin Films with Optimized Surfaces”  
Physical Review Materials, 3 (2019) 103403  
 DOI: [10.1103/PhysRevMaterials.3.103403](https://doi.org/10.1103/PhysRevMaterials.3.103403)
243. Florian Kraushofer, Francesca Mirabella, Jian Xu, Jiri Pavelec, Jan Balajka, Matthias Müllner, Nikolaus Resch, Zdenek Jakub, Jan Hulva, Matthias Meier, Michael Schmid, Ulrike Diebold and Gareth Parkinson  
 “Dissolution and Passivation of Magnetite: An Atomic-Scale View”  
Journal of Chemical Physics, 151 (2019) 154702  
<https://aip.scitation.org/doi/10.1063/1.5116652>  
*Feature Article in J. Chem Phys Scilight "Rusting at the atomic level,"*  
<https://doi.org/10.1063/10.0000168>
242. Peter Lackner, Zhiyu Zou, Sabrina Mayr, Ulrike Diebold, and Michael Schmid  
 “Using photoelectron spectroscopy to observe oxygen spillover to zirconia”  
Phys Chem Chem Phys, 21 (2019) 17613 - 17620  
 DOI: [10.1039/c9cp03322j](https://doi.org/10.1039/c9cp03322j)
241. Zdenek Jakub, Jan Hulva, Matthias Meier, Roland Bliem, Florian Kraushofer, Martin Setvin, Michael Schmid, Ulrike Diebold, Cesare Franchini, Gareth S. Parkinson  
 “Local Structure and Coordination Effects Define Adsorption in a Model Ir<sub>1</sub>/Fe<sub>3</sub>O<sub>4</sub> Single-Atom Catalyst”  
Angewandte Chemie International Edition, 7 (2019) 2559  
<https://doi.org/10.1002/anie.201907536>

240. Manuel Ulreich, Lynn A. Boatner, Igor Sokolovic, Michele Reticcioli, Berthold Stoeger, Flora Poelzleitner, Cesare Franchini, Michael Schmid, Ulrike Diebold and Martin Setvin  
“Defect chemistry of Eu dopants in NaI scintillators studied by atomically resolved force microscopy”  
Physical Review Materials, 3 (2019) 075004  
<https://doi.org/10.1103/PhysRevMaterials.3.075004>
239. Zdenek Jakub, Jan Hulva, Francesca Mirabella, Florian Kraushofer, Matthias Meier, Roland Bliem, Ulrike Diebold, Gareth S. Parkinson\*  
“Nickel doping enhances the reactivity of Fe<sub>3</sub>O<sub>4</sub>(001) to water”  
Journal of Physical Chemistry C, in press (May 2019)  
DOI: 10.1021/acs.jpcc.9b02993
238. Michele Riva,\* Giada Franceschi, Qiyang Lu, Michael Schmid, Bilge Yildiz, Ulrike Diebold  
“Pushing the Detection of Cation Deficiency to the Limit”  
Physical Review Materials, 3, 043802 (2019)  
DOI: 10.1103/PhysRevMaterials.00.003800
237. Igor Sokolovic, Michael Schmid, Ulrike Diebold, and Martin Setvin  
“Bulk-terminated SrTiO<sub>3</sub>(001): Coupling between surface defects and ferroelectricity”  
Physical Review Materials, 3 (2019) 034407  
[doi:10.1103/PhysRevMaterials.3.034407](https://doi.org/10.1103/PhysRevMaterials.3.034407)  
[arXiv:1807.09379](https://arxiv.org/abs/1807.09379)
236. Zdenek Jakub, Florian Kraushofer, Magdalena Bichler, Jan Balajka, Jan Hulva, Jiri Pavelec, Igor Sokolović, Matthias Müllner, Martin Setvin, Michael Schmid, Ulrike Diebold, Peter Blaha, Gareth S. Parkinson\*  
Partially Dissociated Water Dimers at the Water-Hematite Interface  
ACS Energy Letters, 4 (2019) 390-396  
DOI: 10.1021/acsenergylett.8b02324
235. Michele Reticcioli, Igor Sokolovic, Michael Schmid, Ulrike Diebold, Martin Setvin, and Cesare Franchini  
“Interplay between adsorbates and polarons: CO on rutile TiO<sub>2</sub>(110)”  
Physical Review Letters, 122 (2019) 016805  
[doi:10.1103/PhysRevLett.122.016805](https://doi.org/10.1103/PhysRevLett.122.016805)  
<http://arxiv.org/abs/1807.05859>
234. Peter Lackner, Zhiyu Zou, Sabrina Mayr, Joong-Il Jake Choi, Ulrike Diebold, and Michael Schmid  
“Surface structures of ZrO<sub>2</sub> films on Rh(111): From two layers to bulk termination”  
Surface Science, 679 (2019) 180 - 187  
<https://doi.org/10.1016/j.susc.2018.09.004>  
<http://arxiv.org/abs/1808.08301>
233. Wernfried Mayr-Schmölzer, Daniel Halwidl, Florian Mittendorfer, Michael Schmid, Ulrike Diebold, and Josef  
“Adsorption of CO on the Ca<sub>3</sub>Ru<sub>2</sub>O<sub>7</sub>(001) surface”  
Surface Science, 680 (2019) 18-23  
<https://doi.org/10.1016/j.susc.2018.10.004>  
<http://arxiv.org/abs/1810.01186>

## 2018

232. Matthias Müllner, Michele Riva, Florian Kraushofer, Michael Schmid, Gareth S. Parkinson, Stijn F.L. Mertens and Ulrike Diebold  
“Stability and catalytic performance of reconstructed Fe<sub>3</sub>O<sub>4</sub>(001) and Fe<sub>3</sub>O<sub>4</sub>(110) surfaces during oxygen evolution reaction”  
Journal of Physical Chemistry C, 123 (2018) 8304-8311  
DOI: 10.1021/acs.jpcc.8b08733

231. Jan Balajka, Jiri Pavelec, Mojmir Komora, Michael Schmid, and Ulrike Diebold  
“Apparatus for dosing liquid water in ultrahigh vacuum”  
Review of Scientific Instruments, 89 (2018) 083906  
<https://doi.org/10.1063/1.5046846>
230. Peter Lackner, Jan Hulva, Eva-Maria Köck, Wernfried Mayr-Schmölzer, Joong Il J. Choi, Simon Penner, Ulrike Diebold, Florian Mittendorfer, Josef Redinger, Bernhard Klötzer, Gareth S. Parkinson, and Michael Schmid  
“Water adsorption at ZrO<sub>2</sub>: The ZrO<sub>2</sub>(111)/Pt<sub>3</sub>Zr(0001) model system”  
Journal of Materials Chemistry A, 6 (2018) 17587.  
DOI: [10.1039/C8TA04137G](https://doi.org/10.1039/C8TA04137G)
229. Michele Reticcioli, Martin Setvin, Michael Schmid, Ulrike Diebold, and Cesare Franchini  
“Formation and dynamics of small polarons in rutile TiO<sub>2</sub>(110) surface”  
Physical Review B, B **98**, 045306 (2018)  
<http://arxiv.org/abs/1805.01849>
228. Jan Balajka, Melissa A. Hines, William J. I. DeBenedetti, Mojmir Komora, Jiri Pavelec, Michael Schmid, and Ulrike Diebold  
“High Affinity Adsorption leads to Molecularly Ordered Interfaces on Model TiO<sub>2</sub> in Air and Solution”  
Science, 361 (2018) 768-789  
<https://doi.org/10.1063/1.5046846>
227. Michele Riva, Markus Kubicek, Xianfeng Hao, Stefan Gerhold, Giada Franceschi, Michael Schmid, Herbert Hutter, Juergen Fleig, Cesare Franchini, Bilge Yildiz, and Ulrike Diebold  
“Influence of Surface Atomic Structure Demonstrated on Oxygen Incorporation Mechanism at a Model Perovskite Oxide”  
Nature Communications, 9 (2018) 3710  
DOI: [10.1038/s41467-018-05685-5](https://doi.org/10.1038/s41467-018-05685-5)
226. Matthias Meier, Jan Hulva, Zdeněk Jakub, Jiri Pavelec, Martin Setvin, Roland Bliem, Michael Schmid, Ulrike Diebold, Cesare Franchini, and Gareth S. Parkinson  
“Water Agglomerates on Fe<sub>3</sub>O<sub>4</sub>(001)”  
Proceedings of the National Academy of Sciences, 115 (25) (2018) E5642-5650  
[www.pnas.org/cgi/doi/10.1073/pnas.1801661115](http://www.pnas.org/cgi/doi/10.1073/pnas.1801661115)
225. Margareta Wagner, Jakob Hofinger, Martin Setvin, Lynn A. Boatner, Michael Schmid, and Ulrike Diebold  
“The prototypical organic-oxide interface: intra-molecular resolution of sexiphenyl on In<sub>2</sub>O<sub>3</sub>(111)”  
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224. Margareta Wagner, Martin Setvín, Michael Schmid, and Ulrike Diebold  
“Sexiphenyl on Cu(100)”: nc-AFM tip functionalization and identification”  
Surface Science, in press (March 2018)  
<http://arxiv.org/abs/1803.08028>
223. Daniel Halwidl, Wernfried Mayr-Schmölzer, David Fobes, Jin Peng, Zhiqiang Mao, Martin Setvin, Michael Schmid, Florian Mittendorfer, Josef Redinger, Ulrike Diebold  
“A Monolayer of Superoxide on the Ca<sub>3</sub>Ru<sub>2</sub>O<sub>7</sub>(001) Surface”  
Journal of Materials Chemistry A, 6 (2018) 5703 - 5713.  
DOI: [10.1039/C8TA00265G](https://doi.org/10.1039/C8TA00265G)
222. Martin Setvin, Michele Reticcoli, Flora Poeltzleitner, Jan Hulva, Michael Schmid, Lynn A. Boatner, Cesare Franchini and Ulrike Diebold  
“Polarity compensation mechanism on the perovskite surface KTaO<sub>3</sub>(001)”  
Science, 359 (6375), (2018) 572-575  
doi: [10.1126/science.aar2287](https://doi.org/10.1126/science.aar2287)

221. Matthias Meier, Zdenek Jakub, Jan Balajka, Jan Hulva, Roland Bliem, P. K. Thakur, Tien –Lin Lee, Cesare Franchini, Michael Schmid, Ulrike Diebold, Francesco Allegretti, David A. Duncan and Gareth S. Parkinson  
“Probing the Geometry of Copper and Silver Adatoms on Magnetite: Quantitative Experiments versus Theory”  
Nanoscale, 10 (2018) 2226 – 2230  
DOI: [10.1039/c7nr07319d](https://doi.org/10.1039/c7nr07319d)
220. Florian Kraushofer, Zdenek Jakub, Magdalena Bichler, Jan Hulva, Petr Drmota, Michael Weinold, Michael Schmid, Martin Setvin, Ulrike Diebold, Peter Blaha, Gareth S. Parkinson  
“Atomic-Scale Structure of the Fe<sub>2</sub>O<sub>3</sub>(1102) “R-cut” Surface”  
Journal of Physical Chemistry C, 122 (201) 657-1669  
DOI: [10.1021/acs.jpcc.7b10515](https://doi.org/10.1021/acs.jpcc.7b10515)
219. Jan Hulva, Zdeněk Jakub, Zbyněk Novotný, Niclas Johansson, Jan Knudsen, Joachim Schnadt, Michael Schmid, Ulrike Diebold, and Gareth S. Parkinson  
“Adsorption of CO on the Fe<sub>3</sub>O<sub>4</sub>(001) Surface”  
Journal of Physical Chemistry B, 122 (2018) 721-729  
<http://dx.doi.org/10.1021/acs.jpcc.7b06349>

## 2017

218. Margareta Wagner, Peter Lackner, Steffen Seiler, Achim Brunsch, Roland Bliem, Stefan Gerhold, Zhiming Wang, Jacek Osiecki, Karina Schulte, Lynn A. Boatner, Michael Schmid, Bernd Meyer, and Ulrike Diebold  
“Resolving the Structure of a Well-ordered Hydroxylated Overlayer on In<sub>2</sub>O<sub>3</sub>(111): Nanomanipulation and Theory”  
ACS nano, 11(11) (2017) 11531–11541  
DOI: [10.1021/acs.nano.7b06387](https://doi.org/10.1021/acs.nano.7b06387)
217. Jan Balajka, Ulrich Aschauer, Annabella Selloni, Stijn Mertens, Michael Schmid and Ulrike Diebold  
“Surface Structure of TiO<sub>2</sub> Rutile (011) Exposed to Liquid Water”  
Journal of Physical Chemistry C, 121 (47) (2017) 26424–26431  
DOI: [10.1021/acs.jpcc.7b09674](https://doi.org/10.1021/acs.jpcc.7b09674)
216. Peter Lackner, Joong-Il Jake Chong, Ulrike Diebold, and Michael Schmid  
“Construction and Evaluation of an ultrahigh-vacuum-compatible sputter deposition source”  
Review of Scientific Instruments, 88 (2017) 103904  
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215. Martin Setvin, Thomas Simschitz, Cristiana di Valentin, Annabella Selloni, Michael Schmid, Ulrike Diebold  
“Methanol on anatase TiO<sub>2</sub> (101): mechanistic insights into photocatalysis”  
ACS Catalysis, 7 (10) (2017) 7081–7091  
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214. Michele Reticcioli, Martin Setvin, Xianfeng Hao, Peter Flauger, Georg Kresse, Michael Schmid, Ulrike Diebold, and Cesare Franchini  
“Polaron-driven surface reconstructions”  
Phys Rev X, 7(3) (2017) 031053-10  
DOI: [10.1103/PhysRevX.7.031053](https://doi.org/10.1103/PhysRevX.7.031053) <https://www.nature.com/articles/natrevmats201771>
213. Matthias Müllner, Jan Balajka, Michael Schmid, Ulrike Diebold, and Stijn Mertens  
“Self-limiting adsorption of WO<sub>3</sub> oligomers on oxide substrates in solution”  
Journal of Physical Chemistry C, 121 (36) (2017) 19743–19750  
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212. Ulrike Diebold  
“Perspective Article: A controversial benchmark system for water-oxide interfaces:  $\text{H}_2\text{O}/\text{TiO}_2(110)$ ”  
Journal of Chemical Physics, 147 (2017) 040901  
DOI: [10.1021/acs.jpcc.7b04076](https://doi.org/10.1021/acs.jpcc.7b04076)
211. Martin Setvin, Thomas Simschitz, Honghong Wang, Cristiana Di Valentin, Gareth Parkinson, Jan Hulva, Michael Schmid, Annabella Selloni, and Ulrike Diebold  
“Formaldehyde Adsorption on the Anatase  $\text{TiO}_2(101)$  Surface – Experimental and Theoretical Investigation”  
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DOI: [10.1021/acs.jpcc.7b01434](https://doi.org/10.1021/acs.jpcc.7b01434)
210. Daniel Halwidl, Wernfried Mayr-Schmölzer, David Fobes, Jin Peng, Zhiqiang Mao, Michael Schmid, Florian Mittendorfer, Josef Redinger, and Ulrike Diebold  
“Ordered Hydroxyls on  $\text{Ca}_3\text{Ru}_2\text{O}_7(001)$ ”  
Nature Communications, 8 (March 2017) 23  
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209. Martin Setvin, Margareta Wagner, Michael Schmid, Gareth S. Parkinson, and Ulrike Diebold  
“Point Defects on Bulk Oxides, Characterized by Atomically-Resolved Scanning Probe Microscopy (Tutorial Review)”  
Chemical Society Reviews, 46 (2017) 1772 - 1784  
DOI: [10.1039/c7cs00076f](https://doi.org/10.1039/c7cs00076f)
208. Martin Setvin, Jan Hulva, Gareth S. Parkinson, Michael Schmid, and Ulrike Diebold  
“*Electron Transfer between Anatase  $\text{TiO}_2$  and an Adsorbed  $\text{O}_2$  Molecule: Direct Observation by Atomic Force Microscopy*”  
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[www.pnas.org/cgi/doi/10.1073/pnas.1618723114](http://www.pnas.org/cgi/doi/10.1073/pnas.1618723114)
207. Jiri Pavelec, Jan Hulva, Daniel Halwidl, Roland Bliem, Oscar Gamba, Zdenek Jakub, Florian Brunbauer, Michael Schmid, Ulrike Diebold, and Gareth S. Parkinson  
“*A Multi-Technique Study of  $\text{CO}_2$  Adsorption on  $\text{Fe}_3\text{O}_4$  Magnetite*”  
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206. Oscar Gamba, Jan Hulva, Jiri Pavelec, Roland Bliem, Michael Schmid, Ulrike Diebold, and Gareth Parkinson  
“*The Role of Surface Defects in the Adsorption of Methanol on  $\text{Fe}_3\text{O}_4(001)$* ”  
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## 2016

205. Margareta Wagner, Peter Lackner, Steffen Seiler, Stefan Gerhold, Jan Osiecki, Karina Schulte, Lynn A. Boatner, Michael Schmid, Bernd Meyer, and Ulrike Diebold  
“*Well-Ordered In Adatoms at the  $\text{In}_2\text{O}_3(111)$  Surface Created by Fe Deposition*”  
Physical Review Letters, 117(2016) 20610  
DOI: [10.1103/PhysRevLett.117.206101](https://doi.org/10.1103/PhysRevLett.117.206101)
204. Martin Setvin, Ulrich Aschauer, Jan Hulva, Thomas Simschitz, Benjamin Daniel, Michael Schmid, Annabella Selloni, Ulrike Diebold  
“*Water Dissociation on Anatase  $\text{TiO}_2(101)$  via Reaction with Oxygen*”  
Journal of the American Chemical Society, 138 (2016) 9565 - 9571  
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203. Roland Bliem, Jessi E.S. van der Hoeven, Jan Hulva, Jiri Pavelec, Oscar Gamba, Petra E. de Jongh, Michael Schmid, Peter Blaha, Ulrike Diebold, and Gareth S. Parkinson  
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