Florian Mittendorfer

List of Publications by Year
in descending order

32	899	516710 16	454955 30
papers	citations	h-index	g-index

33	33	33	1699
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	First principles studies of the electronic and structural properties of the rutile VO₂(110) surface and its oxygen-rich terminations. Journal of Physics Condensed Matter, 2021, 33, 475002.	1.8	4
2	Oxygen-rich tetrahedral surface phase on high-temperature rutile <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">V</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:msub><mml:mrow><mml:mo>(</mml:mo><mml:mn>1</mml:mn><mml:mi mathvariant="normal">T</mml:mi></mml:msub></mml:mrow></mml:math> single crystals. Physical Review Materials, 2021, 5, .	2.4	3
3	Many-electron calculations of the phase stability of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>ZrO</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:math> polymorphs. Physical Review Research, 2020, 2, .	3.6	9
4	Single-domain h-BN on Pt(110): Electronic structure, correlation, and bonding. Physical Review Research, 2020, 2, .	3.6	5
5	Quasiliquid Layer Promotes Hexagonal Boron Nitride (h-BN) Single-Domain Growth: h-BN on Pt(110). ACS Nano, 2019, 13, 7083-7090.	14.6	19
6	Adsorption of CO on the Ca3Ru2O7(001)Âsurface. Surface Science, 2019, 680, 18-23.	1.9	2
7	Adsorption of a superoxo O2-Âspecies on the pure and Ca-doped Sr3Ru2O7(001)Âsurface. Surface Science, 2019, 680, 24-31.	1.9	2
8	Role of Precursor Carbides for Graphene Growth on Ni(111). Scientific Reports, 2018, 8, 2662.	3.3	13
9	Monitoring the Interaction of CO with Graphene Supported Ir Clusters by Vibrational Spectroscopy and Density Functional Theory Calculations. Journal of Physical Chemistry C, 2018, 122, 4281-4289.	3.1	9
10	A full monolayer of superoxide: oxygen activation on the unmodified Ca₃Ru₂O₇(001) surface. Journal of Materials Chemistry A, 2018, 6, 5703-5713.	10.3	17
11	Water adsorption at zirconia: from the ZrO₂(111)/Pt₃Zr(0001) model system to powder samples. Journal of Materials Chemistry A, 2018, 6, 17587-17601.	10.3	24
12	Ordered hydroxyls on Ca3Ru2O7(001). Nature Communications, 2017, 8, 23.	12.8	12
13	Adsorption of hydrogen on stable and metastable Ir(100) surfaces. Surface Science, 2017, 656, 66-76.	1.9	9
14	Self-Organized Growth, Structure, and Magnetism of Monatomic Transition-Metal Oxide Chains. Physical Review Letters, 2016, 117, 046101.	7.8	32
15	Metal Adatoms and Clusters on Ultrathin Zirconia Films. Journal of Physical Chemistry C, 2016, 120, 9920-9932.	3.1	18
16	Adsorption of water at the SrO surface ofÂruthenates. Nature Materials, 2016, 15, 450-455.	27.5	63
17	Growth of an Ultrathin Zirconia Film on Pt₃Zr Examined by High-Resolution X-ray Photoelectron Spectroscopy, Temperature-Programmed Desorption, Scanning Tunneling Microscopy, and Density Functional Theory. Journal of Physical Chemistry C, 2015, 119, 2462-2470.	3.1	46
18	Point defects at cleaved<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Sr</mml:mi><mml:mrow><mml:mi>n</mml:mi><mml:mi mathvariant="normal">O</mml:mi><mml:mrow><mml:mn>3</mml:mn><mml:mi>n</mml:mi><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math> surfaces. Physical Review B, 2014, 90, .	3.2	12

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19	High Chemical Activity of a Perovskite Surface: Reaction of CO with<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub><mml:mrow><mml:mi mathvariant="normal">O</mml:mi></mml:mrow><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>. Physical Review Letters, 2014, 113, 116101.	7.8	18
20	Artificially lattice-mismatched graphene/metal interface: Graphene/Ni/Ir(111). Physical Review B, 2013, 87, .	3.2	53
21	Tuning the Growth Orientation of Epitaxial Films by Interface Chemistry. Physical Review Letters, 2012, 108, 066101.	7.8	27
22	Pt<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>Zr(0001): A substrate for growing well-ordered ultrathin zirconia films by oxidation. Physical Review B, 2012, 86, .	3.2	41
23	Nickel Carbide as a Source of Grain Rotation in Epitaxial Graphene. ACS Nano, 2012, 6, 3564-3572.	14.6	77
24	Disorder and Defect Healing in Graphene on Ni(111). Journal of Physical Chemistry Letters, 2012, 3, 136-139.	4.6	65
25	Oxygen-Stabilized Rh Adatoms: 0D Oxides on a Vicinal Surface. Journal of Physical Chemistry Letters, 2011, 2, 2747-2751.	4.6	5
26	Oneâ€Dimensional Oxideâ€“Metal Hybrid Structures: Siteâ€Specific Enhanced Reactivity for CO Oxidation. ChemPhysChem, 2010, 11, 2506-2509.	2.1	20
27	Low-dimensional surface oxides in the oxidation of Rh particles. Journal of Physics Condensed Matter, 2010, 22, 393001.	1.8	13
28	Carbon in palladium catalysts: A metastable carbide. Journal of Chemical Physics, 2010, 132, 024711.	3.0	63
29	A first-principles study of bulk oxide formation on Pd(100). Journal of Chemical Physics, 2009, 131, 054701.	3.0	53
30	Thermodynamic modelling of the partially ordered solid solution Hf5â^'xNbxGe4 supported by ab initio calculations. Solid State Sciences, 2007, 9, 159-165.	3.2	8
31	A density-functional theory study of the adsorption of CO molecules on Au/Ni(111). Journal of Physics Condensed Matter, 2006, 18, 10825-10835.	1.8	8
32	Adsorption of Unsaturated Hydrocarbons on Pd(111) and Pt(111): A DFT Study. Journal of Physical Chemistry B, 2003, 107, 12287-12295.	2.6	148