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	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
2	Nickel Carbide as a Source of Grain Rotation in Epitaxial Graphene. ACS Nano, 2012, 6, 3564-3572.	14.6	77
3	Disorder and Defect Healing in Graphene on Ni(111). Journal of Physical Chemistry Letters, 2012, 3, 136-139.	4.6	65
4	Carbon in palladium catalysts: A metastable carbide. Journal of Chemical Physics, 2010, 132, 024711.	3.0	63
5	Adsorption of water at the SrO surface ofÂruthenates. Nature Materials, 2016, 15, 450-455.	27.5	63
6	A first-principles study of bulk oxide formation on Pd(100). Journal of Chemical Physics, 2009, 131, 054701.	3.0	53
7	Artificially lattice-mismatched graphene/metal interface: Graphene/Ni/Ir(111). Physical Review B, 2013, 87, .	3.2	53
8	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
9	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
10	Self-Organized Growth, Structure, and Magnetism of Monatomic Transition-Metal Oxide Chains. Physical Review Letters, 2016, 117, 046101.	7.8	32
11	Tuning the Growth Orientation of Epitaxial Films by Interface Chemistry. Physical Review Letters, 2012, 108, 066101.	7.8	27
12	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
13	Oneâ€Dimensional Oxideâ€“Metal Hybrid Structures: Siteâ€Specific Enhanced Reactivity for CO Oxidation. ChemPhysChem, 2010, 11, 2506-2509.	2.1	20
14	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
15	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>2</mml:mn></mml:mrow></mml:msub><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
16	Metal Adatoms and Clusters on Ultrathin Zirconia Films. Journal of Physical Chemistry C, 2016, 120, 9920-9932.	3.1	18
17	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
18	Low-dimensional surface oxides in the oxidation of Rh particles. Journal of Physics Condensed Matter, 2010, 22, 393001.	1.8	13

#	Article	IF	Citations
19	Role of Precursor Carbides for Graphene Growth on Ni(111). Scientific Reports, 2018, 8, 2662.	3.3	13
20	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> surfaces. Physical Review B, 2014, 90, .	3.2	12
21	Ordered hydroxyls on Ca3Ru2O7(001). Nature Communications, 2017, 8, 23.	12.8	12
22	Adsorption of hydrogen on stable and metastable Ir(100) surfaces. Surface Science, 2017, 656, 66-76.	1.9	9
23	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
24	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></mm polymorphs. Physical Review Research, 2020, 2, .	3.6	9
25	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
26	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
27	Oxygen-Stabilized Rh Adatoms: 0D Oxides on a Vicinal Surface. Journal of Physical Chemistry Letters, 2011, 2, 2747-2751.	4.6	5
28	Single-domain h-BN on Pt(110): Electronic structure, correlation, and bonding. Physical Review Research, 2020, 2, .	3.6	5
29	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
30	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 mathvariant="normal">T</mml:mi></mml:msub></mml:mrow></mml:math> single crystals. Physical Review Materials, 2021, 5, .	2.4	3
31	Adsorption of CO on the Ca3Ru2O7(001)Âsurface. Surface Science, 2019, 680, 18-23.	1.9	2
32	Adsorption of a superoxo O2-Âspecies on the pure and Ca-doped Sr3Ru2O7(001)Âsurface. Surface Science, 2019, 680, 24-31.	1.9	2