Livia Giordano

List of Publications by Year
in descending order

165 papers	15,351 citations	25034 57 h-index	18647 119 g-index
173 all docs	173 docs citations	173 times ranked	14949 citing authors

#	Article	IF	Citations
1	Inorganic Solid-State Electrolytes for Lithium Batteries: Mechanisms and Properties Governing Ion Conduction. Chemical Reviews, 2016, 116, 140-162.	47.7	1,777
2	Activating lattice oxygen redox reactions in metal oxides to catalyse oxygen evolution. Nature Chemistry, 2017, 9, 457-465.	13.6	1,409
3	Perovskites in catalysis and electrocatalysis. Science, 2017, 358, 751-756.	12.6	1,138
4	Electrodeâ€“Electrolyte Interface in Li-Ion Batteries: Current Understanding and New Insights. Journal of Physical Chemistry Letters, 2015, 6, 4653-4672.	4.6	811
5	Charge-transfer-energy-dependent oxygen evolution reaction mechanisms for perovskite oxides. Energy and Environmental Science, 2017, 10, 2190-2200.	30.8	401
6	Charging of Metal Atoms on UltrathinMgO/Mo(100)Films. Physical Review Letters, 2005, 94, 226104.	7.8	338
7	Control of the Charge State of Metal Atoms on Thin MgO Films. Physical Review Letters, 2007, 98, 096107.	7.8	310
8	pH dependence of OER activity of oxides: Current and future perspectives. Catalysis Today, 2016, 262, 2-10.	4.4	288
9	Towards identifying the active sites on RuO₂(110) in catalyzing oxygen evolution. Energy and Environmental Science, 2017, 10, 2626-2637.	30.8	278
10	Tuning the surface metal work function by deposition of ultrathin oxide films: Density functional calculations. Physical Review B, 2006, 73, .	3.2	231
11	Partial Dissociation of Water Molecules in the (3Ã—2) Water Monolayer Deposited on the MgO (100) Surface. Physical Review Letters, 1998, 81, 1271-1273.	7.8	217
12	Revealing electrolyte oxidation <i>via</i> carbonate dehydrogenation on Ni-based oxides in Li-ion batteries by <i>in situ</i> Fourier transform infrared spectroscopy. Energy and Environmental Science, 2020, 13, 183-199.	30.8	202
13	The Interplay between Structure and CO Oxidation Catalysis on Metalâ€Supported Ultrathin Oxide Films. Angewandte Chemie - International Edition, 2010, 49, 4418-4421.	13.8	191
14	The Effect of Electrode-Electrolyte Interface on the Electrochemical Impedance Spectra for Positive Electrode in Li-Ion Battery. Journal of the Electrochemical Society, 2019, 166, A5090-A5098.	2.9	190
15	An <i>In Situ</i> Surface-Enhanced Infrared Absorption Spectroscopy Study of Electrochemical CO₂ Reduction: Selectivity Dependence on Surface C-Bound and O-Bound Reaction Intermediates. Journal of Physical Chemistry C, 2019, 123, 5951-5963.	3.1	172
16	Activity and stability of cobalt phosphides for hydrogen evolution upon water splitting. Nano Energy, 2016, 29, 37-45.	16.0	166
17	Operando identification of site-dependent water oxidation activity on ruthenium dioxide single-crystal surfaces. Nature Catalysis, 2020, 3, 516-525.	34.4	166
18	Tuning mobility and stability of lithium ion conductors based on lattice dynamics. Energy and Environmental Science, 2018, 11, 850-859.	30.8	158

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19	Oxide Films at the Nanoscale: New Structures, New Functions, and New Materials. Accounts of Chemical Research, 2011, 44, 1244-1252.	15.6	156
20	Structure, Bonding, and Catalytic Activity of Monodisperse, Transition-Metal-Substituted CeO₂ Nanoparticles. Journal of the American Chemical Society, 2014, 136, 17193-17200.	13.7	149
21	Electronic properties of rutileTiO2ultrathin films: Odd-even oscillations with the number of layers. Physical Review B, 2004, 70, .	3.2	144
22	Cu, Ag, and Au atoms adsorbed on TiO2(110): cluster and periodic calculations. Surface Science, 2001, 471, 21-31.	1.9	131
23	Interplay between structural, magnetic, and electronic properties in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Fe</mml:mi><mml:mi mathvariant="normal">O</mml:mi><mml:mo>âˆ•</mml:mo><mml:mi mathvariant="normal">Pt</mml:mi><mml:mrow><mml:mo>(</mml:mo><mml:mn>111</mml:mn><mml:mo>)</mml:mo></mml:mrow film. Physical Review B, 2007, 76, .	3.2	129
24	Coupled LiPF₆ Decomposition and Carbonate Dehydrogenation Enhanced by Highly Covalent Metal Oxides in High-Energy Li-Ion Batteries. Journal of Physical Chemistry C, 2018, 122, 27368-27382.	3.1	127
25	Tunable metal hydroxideâ€"organic frameworks for catalysing oxygen evolution. Nature Materials, 2022, 21, 673-680.	27.5	123
26	Elucidating the Nature of the Active Phase in Copper/Ceria Catalysts for CO Oxidation. ACS Catalysis, 2016, 6, 1675-1679.	11.2	122
27	Enhancing oxygen reduction electrocatalysis by tuning interfacial hydrogen bonds. Nature Catalysis, 2021, 4, 753-762.	34.4	122
28	Charging of Metal Adatoms on Ultrathin Oxide Films: Au and Pd on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>FeO</mml:mi><mml:mo>/</mml:mo><mml:mi>Pt</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>111</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 367 Td (stretchy="false">)</mn	7.8	109
29	Cation- and pH-Dependent Hydrogen Evolution and Oxidation Reaction Kinetics. Jacs Au, 2021, 1, 1674-1687.	7.9	109
30	Characteristics ofPdadsorption on theMgO(100)surface: Role of oxygen vacancies. Physical Review B, 2001, 64, .	3.2	108
31	Identification of Defect Sites on MgO(100) Thin Films by Decoration with Pd Atoms and Studying CO Adsorption Properties. Journal of the American Chemical Society, 2001, 123, 6172-6178.	13.7	108
32	Iron-Based Perovskites for Catalyzing Oxygen Evolution Reaction. Journal of Physical Chemistry C, 2018, 122, 8445-8454.	3.1	106
33	Using Polarity for Engineering Oxide Nanostructures: Structural Phase Diagram in Free and Supported MgO(111) Ultrathin Films. Physical Review Letters, 2004, 93, 215702.	7.8	104
34	Chemical Reactivity Descriptor for the Oxide-Electrolyte Interface in Li-Ion Batteries. Journal of Physical Chemistry Letters, 2017, 8, 3881-3887.	4.6	104
35	Nucleation of Pd Dimers at Defect Sites of the MgO(100) Surface. Physical Review Letters, 2004, 92, 096105.	7.8	101
36	When the Reporter Induces the Effect: Unusual IR spectra of CO on Au1/MgO(001)/Mo(001). Angewandte Chemie - International Edition, 2006, 45, 2633-2635.	13.8	101

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37	Activation of Oxygen on MgO: O₂^{.âˆ’} Radical Ion Formation on Thin, Metalâ€Supported MgO(001) Films. Angewandte Chemie - International Edition, 2011, 50, 2635-2638.	13.8	101
38	Tailoring the Shape of Metal Adâ€Particles by Doping the Oxide Support. Angewandte Chemie - International Edition, 2011, 50, 11525-11527.	13.8	99
39	Prediction of Uncompensated Polarity in Ultrathin Films. Physical Review Letters, 2007, 98, 205701.	7.8	94
40	Cationic and anionic vacancies on the NiO(100) surface: DFT+U and hybrid functional density functional theory calculations. Journal of Chemical Physics, 2007, 127, 174711.	3.0	93
41	Oxygen-Induced Transformations of an FeO(111) Film on Pt(111): A Combined DFT and STM Study. Journal of Physical Chemistry C, 2010, 114, 21504-21509.	3.1	90
42	Donor Characteristics of Transition-Metal-Doped Oxides: Cr-Doped MgO versus Mo-Doped CaO. Journal of the American Chemical Society, 2012, 134, 11380-11383.	13.7	90
43	Water monolayers on MgO(100): structural investigations by LEED experiments, tensor LEED dynamical analysis and potential calculations. Surface Science, 1998, 409, 101-116.	1.9	88
44	Reactivity of Perovskites with Water: Role of Hydroxylation in Wetting and Implications for Oxygen Electrocatalysis. Journal of Physical Chemistry C, 2015, 119, 18504-18512.	3.1	88
45	Bonding of Pd, Ag, and Au atoms on MgO(100) surfaces andMgOâˆ•Mo(100)ultra-thin films: A comparative DFT study. Physical Review B, 2005, 72, .	3.2	82
46	Charge transfers at metal/oxide interfaces: a DFT study of formation of KÎ´+and AuÎ´âˆ’species on MgO/Ag(100) ultra-thin films from deposition of neutral atoms. Physical Chemistry Chemical Physics, 2006, 8, 3335-3341.	2.8	82
47	In Situ Spectroscopy and Mechanistic Insights into CO Oxidation on Transition-Metal-Substituted Ceria Nanoparticles. ACS Catalysis, 2017, 7, 6843-6857.	11.2	78
48	Lithium Conductivity and Meyer-Neldel Rule in Li₃PO₄â€“Li₃VO₄â€“Li₄GeO₄ Lithium Superionic Conductors. Chemistry of Materials, 2018, 30, 5573-5582.	6.7	74
49	The effect of water on discharge product growth and chemistry in Liâ€“O₂batteries. Physical Chemistry Chemical Physics, 2016, 18, 24944-24953.	2.8	73
50	Electronic structure ofNiOâˆ•Ag(100)thin films fromDFT+Uand hybrid functional DFT approaches. Physical Review B, 2006, 74, .	3.2	68
51	Structure and vibrational spectra of crystalline SiO2 ultra-thin films on Mo(112). Surface Science, 2005, 584, 225-236.	1.9	65
52	Charge-induced formation of linear Au clusters on thin MgO films: Scanning tunneling microscopy and density-functional theory study. Physical Review B, 2008, 78, .	3.2	64
53	Enhanced Cycling Performance of Ni-Rich Positive Electrodes (NMC) in Li-Ion Batteries by Reducing Electrolyte Free-Solvent Activity. ACS Applied Materials & Interfaces, 2019, 11, 34973-34988.	8.0	63
54	Au Dimers on Thin MgO(001) Films: Flat and Charged or Upright and Neutral?. Journal of the American Chemical Society, 2008, 130, 7814-7815.	13.7	62

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55	Oxidation of Ethylene Carbonate on Li Metal Oxide Surfaces. Journal of Physical Chemistry C, 2018, 122, 10442-10449.	3.1	60
56	Properties of MgO(100) ultrathin layers on Pd(100):â€ƒInfluence of the metal support. Physical Review B, 2003, 67, .	3.2	57
57	From Heterolytic to Homolytic H₂ Dissociation on Nanostructured MgO(001) Films As a Function of the Metal Support. Journal of Physical Chemistry C, 2013, 117, 10623-10629.	3.1	57
58	Conversion of Methane into Liquid Fuelsâ€"Bridging Thermal Catalysis with Electrocatalysis. Advanced Energy Materials, 2020, 10, 2002154.	19.5	57
59	Regulating oxygen activity of perovskites to promote NOx oxidation and reduction kinetics. Nature Catalysis, 2021, 4, 663-673.	34.4	54
60	Molecularly Tunable Polyanions for Single-Ion Conductors and Poly(solvate ionic liquids). Chemistry of Materials, 2021, 33, 524-534.	6.7	53
61	Optical and EPR properties of point defects at a crystalline silica surface:Ab initioembedded-cluster calculations. Physical Review B, 2007, 75, .	3.2	49
62	Adsorption of metal adatoms on FeO(111) and MgO(111) monolayers: Effects of charge state of adsorbate on rumpling of supported oxide film. Physical Review B, 2009, 80, .	3.2	49
63	Role of Surface Defects in the Activation of Supported Metals:â€‰ A Quantum-Chemical Study of Acetylene Cyclotrimerization on Pd1/MgO. Journal of Physical Chemistry B, 2000, 104, 10612-10617.	2.6	48
64	CO adsorption on Rh, Pd and Ag atoms deposited on the MgO surface: a comparative ab initio study. Surface Science, 2003, 540, 63-75.	1.9	47
65	Enhanced CO Oxidation on the Oxide/Metal Interface: From Ultraâ€High Vacuum to Nearâ€Atmospheric Pressures. ChemCatChem, 2015, 7, 2620-2627.	3.7	47
66	Revealing Electronic Signatures of Lattice Oxygen Redox in Lithium Ruthenates and Implications for High-Energy Li-Ion Battery Material Designs. Chemistry of Materials, 2019, 31, 7864-7876.	6.7	47
67	Adsorption of Au and Pd on Ruthenium-Supported Bilayer Silica. Journal of Physical Chemistry C, 2014, 118, 20959-20969.	3.1	46
68	Probing Surface Chemistry Changes Using LiCoO₂-only Electrodes in Li-Ion Batteries. Journal of the Electrochemical Society, 2018, 165, A1377-A1387.	2.9	46
69	Electron Trapping at Point Defects on Hydroxylated Silica Surfaces. Physical Review Letters, 2007, 99, 136801.	7.8	45
70	Charging of Gold Atoms on Doped MgO and CaO: Identifying the Key Parameters by DFT Calculations. Journal of Physical Chemistry C, 2013, 117, 9943-9951.	3.1	45
71	Tuning the work function of ultrathin oxide films on metals by adsorption of alkali atoms. Journal of Chemical Physics, 2008, 128, 164707.	3.0	44
72	Surface Orientation Dependent Water Dissociation on Rutile Ruthenium Dioxide. Journal of Physical Chemistry C, 2018, 122, 17802-17811.	3.1	44

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73	Density functional theory study of TiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>/Ag interfaces and their role in memristor devices. Physical Review B, 2011, 83, .	3.2	43
74	Reversibility of water dissociation on the MgO (100) surface. Physical Review B, 2000, 62, 15406-15408.	3.2	42
75	Selectivity of Surface Defects for the Activation of Supported Metal Atoms:Â Acetylene Cyclotrimerization on Pd1/MgO. Journal of Physical Chemistry B, 2002, 106, 3173-3181.	2.6	42
76	Acetylene trimerization on Ag, Pd and Rh atoms deposited on MgO thin films. Physical Chemistry Chemical Physics, 2005, 7, 955-962.	2.8	42
77	Electronic Structure-Based Descriptors for Oxide Properties and Functions. Accounts of Chemical Research, 2022, 55, 298-308.	15.6	42
78	Microstructure and thermal expansion of Al2TiO5â€"MgTi2O5 solid solutions obtained by reaction sintering. Journal of the European Ceramic Society, 2002, 22, 1811-1822.	5.7	41
79	Au and Pd atoms adsorbed on pure and Ti-doped SiO2âˆ•Mo(112) films. Journal of Chemical Physics, 2006, 124, 034701.	3.0	41
80	Editors' Choiceâ€"Coating-Dependent Electrode-Electrolyte Interface for Ni-Rich Positive Electrodes in Li-Ion Batteries. Journal of the Electrochemical Society, 2019, 166, A1022-A1030.	2.9	41
81	Bismuth Substituted Strontium Cobalt Perovskites for Catalyzing Oxygen Evolution. Journal of Physical Chemistry C, 2020, 124, 6562-6570.	3.1	41
82	Towards controlling the reversibility of anionic redox in transition metal oxides for high-energy Li-ion positive electrodes. Energy and Environmental Science, 2021, 14, 2322-2334.	30.8	41
83	Electronic structure and magnetic moments of Co4 and Ni4 clusters supported on the MgO(001) surface. Surface Science, 2001, 473, 213-226.	1.9	40
84	Pd nanoclusters at the MgO(100) surface. Surface Science, 2005, 575, 197-209.	1.9	40
85	The structure of a stoichiometric TiO2 nanophase on Pt(1 1 1). Surface Science, 2007, 601, 3488-3496.	1.9	40
86	The effect of oxygen vacancies on water wettability of transition metal based SrTiO₃ and rare-earth based Lu₂O₃. RSC Advances, 2016, 6, 109234-109240.	3.6	40
87	Acetylene polymerization on supported transition metal clusters. Journal of Molecular Catalysis A, 2003, 199, 103-113.	4.8	39
88	Interaction of Water with FeO(111)/Pt(111): Environmental Effects and Influence of Oxygen. Journal of Physical Chemistry C, 2011, 115, 19328-19335.	3.1	39
89	Understanding surface core-level shifts using the Auger parameter: A study of Pd atoms adsorbed on ultrathin SiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>films. Physical Review B, 2014, 89, .	3.2	38
90	Pd1/MgO(): a model system in nanocatalysis. Surface Science, 2002, 514, 249-255.	1.9	37

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91	Interaction of Ag, Rh, and Pd Atoms with MgO Thin Films Studied by the CO Probe Molecule. Journal of Physical Chemistry B, 2003, 107, 9377-9387.	2.6	37
92	Tailoring the Interaction Strength between Gold Particles and Silica Thin Films via Work Function Control. Physical Review Letters, 2009, 103, 056801.	7.8	37
93	Adsorption of Late Transition Metal Atoms on MgO/Mo(100) and MgO/Ag(100) Ultrathin Films: A Comparative DFT Study. Journal of Physical Chemistry C, 2009, 113, 16694-16701.	3.1	37
94	Adsorption properties of Ni4 and Ni8 clusters supported on regular and defect sites of the MgO (001) surface. Surface Science, 2002, 499, 73-84.	1.9	35
95	Strain-induced formation of ultrathin mixed-oxide films. Physical Review B, 2011, 83, .	3.2	34
96	Resolving all atoms of an alkali halide via nanomodulation of the thin NaCl film surface using the Au(111) reconstruction. Physical Review B, 2012, 85, .	3.2	33
97	Mapping a stable solvent structure landscape for aprotic Liâ€“air battery organic electrolytes. Journal of Materials Chemistry A, 2017, 5, 23987-23998.	10.3	33
98	Palladium Monomers, Dimers, and Trimers on the MgO(001) Surface Viewed Individually. Angewandte Chemie - International Edition, 2007, 46, 8703-8706.	13.8	32
99	pH Dependent Electronic and Geometric Structures at the Waterâ€“Silica Nanoparticle Interface. Journal of Physical Chemistry C, 2014, 118, 29007-29016.	3.1	32
100	Evidence for a Sizeâ€Selective Adsorption Mechanism on Oxide Surfaces: Pd and Au atoms on SiO₂/Mo(112). ChemPhysChem, 2008, 9, 1367-1370.	2.1	31
101	F and F⁺ Centers on MgO/Ag(100) or MgO/Mo(100) Ultrathin Films:â€‰ Are They Stable?. Journal of Physical Chemistry C, 2008, 112, 3857-3865.	3.1	31
102	How Growing Conditions and Interfacial Oxygen Affect the Final Morphology of MgO/Ag(100) Films. Journal of Physical Chemistry C, 2014, 118, 26091-26102.	3.1	31
103	Nucleation and growth of Ni clusters on regular sites and F centers on the MgO() surface. Surface Science, 2003, 522, 175-184.	1.9	30
104	Theory of oxides surfaces, interfaces and supported nano-clusters. Theoretical Chemistry Accounts, 2007, 117, 827-845.	1.4	30
105	Li, Al, and Ni Substitutional Doping in MgO Ultrathin Films on Metals: Work Function Tuning via Charge Compensation. Journal of Physical Chemistry C, 2012, 116, 5781-5786.	3.1	30
106	Chemistry on single atoms: key factors for the acetylene trimerization on MgO-supported Rh, Pd, and Ag atoms. Chemical Physics Letters, 2004, 399, 266-270.	2.6	29
107	Observable consequences of formation of Au anions from deposition of Au atoms on ultrathin oxide films. Journal of Chemical Physics, 2007, 127, 144713.	3.0	29
108	Adsorption of Au and Pd Atoms on Thin SiO₂ Films:â€‰ the Role of Atomic Structure. Journal of Physical Chemistry C, 2008, 112, 3405-3409.	3.1	29

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109	CO Adsorption on One-, Two-, and Three-Dimensional Au Clusters Supported on MgO/Ag(001) Ultrathin Films. Journal of Physical Chemistry C, 2009, 113, 10256-10263.	3.1	29
110	Direct Measurement of the Attractive Interaction Forces on F⁰ Color Centers on MgO(001) by Dynamic Force Microscopy. ACS Nano, 2010, 4, 2510-2514.	14.6	29
111	CO+NO versus CO+O₂ Reaction on Monolayer FeO(111) Films on Pt(111). ChemCatChem, 2011, 3, 671-674.	3.7	29
112	Nature of Point Defects on SiO2/Mo(112) Thin Films and Their Interaction with Au Atoms. Journal of Physical Chemistry B, 2006, 110, 17015-17023.	2.6	28
113	Ligand-Dependent Energetics for Dehydrogenation: Implications in Li-Ion Battery Electrolyte Stability and Selective Oxidation Catalysis of Hydrogen-Containing Molecules. Chemistry of Materials, 2019, 31, 5464-5474.	6.7	28
114	X-ray Photoemission Study of the Charge State of Au Nanoparticles on Thin MgO/Fe(001) Films. Journal of Physical Chemistry C, 2009, 113, 19957-19965.	3.1	27
115	Nucleation and growth on defect sites: experimentâ€"theory comparison for Pd/MgO(001). Journal of Physics Condensed Matter, 2006, 18, S411-S427.	1.8	26
116	Fluorinated Aryl Sulfonimide Tagged (FAST) salts: modular synthesis and structureâ€"property relationships for battery applications. Energy and Environmental Science, 2018, 11, 1326-1334.	30.8	26
117	Nano-assembled Pd catalysts on MgO thin films. Thin Solid Films, 2001, 400, 37-42.	1.8	25
118	Formation of Pd dimers at regular and defect sites of the MgO(100) surface: cluster model calculations. Chemical Physics, 2005, 309, 41-47.	1.9	25
119	Vibrational and electron paramagnetic resonance properties of free and MgO supported AuCO complexes. Journal of Chemical Physics, 2006, 124, 174709.	3.0	25
120	Realization of an atomic sieve: Silica on Mo(112). Surface Science, 2009, 603, 1145-1149.	1.9	25
121	Polarity of ultrathin MgO(111) films deposited on a metal substrate. Physical Review B, 2010, 81, .	3.2	25
122	Atomic Scale Structure and Reduction of Cerium Oxide at the Interface with Platinum. Advanced Materials Interfaces, 2015, 2, 1500375.	3.7	25
123	Growth of ternary oxides in the Gd2O3â€"Fe2O3 system. A diffusion couple study. Solid State Ionics, 2002, 146, 257-271.	2.7	24
124	Controlling the charge state of single Mo dopants in a CaO film. Physical Review B, 2013, 88, .	3.2	24
125	Self-Doping of Ultrathin Insulating Films by Transition Metal Atoms. Physical Review Letters, 2014, 112, 026102.	7.8	23
126	Correlation of nanoscale behaviour of forces and macroscale surface wettability. Nanoscale, 2016, 8, 15597-15603.	5.6	23

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127	Neutron diffraction investigation of water on MgO(001) surfaces, from monolayer to bulk condensation. Surface Science, 2000, 462, L581-L586.	1.9	21
128	Modifying the Adsorption Characteristic of Inert Silica Films by Inserting Anchoring Sites. Physical Review Letters, 2009, 102, 016102.	7.8	21
129	Lithium incorporation into a silica thin film: Scanning tunneling microscopy and density functional theory. Physical Review B, 2009, 80, .	3.2	21
130	Theoretical description of metal/oxide interfacial properties: The case of MgO/Ag(001). Applied Surface Science, 2016, 390, 578-582.	6.1	21
131	Local zero-bias anomaly in tunneling spectra of a transition-metal oxide thin film. Physical Review B, 2007, 75, .	3.2	20
132	Electronic and electrostatic properties of polar oxide nanostructures: MgO(111) islands on Au(111). Physical Review B, 2012, 86, .	3.2	20
133	Modified Ion Pair Interaction for Water Dimers on Supported MgO Ultrathin Films. Journal of Physical Chemistry C, 2012, 116, 20349-20355.	3.1	19
134	Identification of Active Sites in a Realistic Model of Strong Metalâ€“Support Interaction Catalysts: The Case of Platinumâ€‰(1â€‰1â€‰1)â€Supported Iron Oxide Film. ChemCatChem, 2014, 6, 185-190.	3.7	19
135	Surface defects and their impact on the electronic structure of Mo-doped CaO films: an STM and DFT study. Physical Chemistry Chemical Physics, 2014, 16, 12764-12772.	2.8	19
136	Properties of Pt-supported iron oxide ultra-thin films: Similarity of Hubbard-corrected and hybrid density functional theory description. Journal of Chemical Physics, 2014, 141, 144702.	3.0	19
137	Surface (Electro)chemistry of CO₂ on Pt Surface: An <i>in Situ</i> Surface-Enhanced Infrared Absorption Spectroscopy Study. Journal of Physical Chemistry C, 2018, 122, 12341-12349.	3.1	19
138	CO adsorption on Ni4 and Ni8 clusters deposited on regular and defect sites of the MgO(001) surface. Surface Science, 2005, 575, 103-114.	1.9	18
139	Tuning the Charge State of (WO₃)₃ Nanoclusters Deposited on MgO/Ag(001) Films. Journal of Physical Chemistry C, 2012, 116, 17668-17675.	3.1	18
140	Toward Establishing Electronic and Phononic Signatures of Reversible Lattice Oxygen Oxidation in Lithium Transition Metal Oxides For Li-Ion Batteries. Chemistry of Materials, 2020, 32, 5502-5514.	6.7	17
141	Cluster and Periodic DFT Calculations of MgO/Pd(CO) and MgO/Pd(CO)2Surface Complexes. Journal of Physical Chemistry B, 2005, 109, 3416-3422.	2.6	16
142	Polarity compensation in low-dimensional oxide nanostructures: The case of metal-supported MgO nanoribbons. Physical Review B, 2013, 87, .	3.2	16
143	Adsorption of transition metal atoms on the NiO(100) surface and on NiO/Ag(100) thin films. Theoretical Chemistry Accounts, 2008, 120, 575-582.	1.4	15
144	Gold Nanostructures on TiOx/Mo(112) Thin Films. Journal of Physical Chemistry C, 2008, 112, 191-200.	3.1	15

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145	Compensating Edge Polarity: A Means To Alter the Growth Orientation of MgO Nanostructures on Au(111). Journal of Physical Chemistry C, 2012, 116, 11126-11132.	3.1	15
146	Spontaneous Oxidation of Ni Nanoclusters on MgO Monolayers Induced by Segregation of Interfacial Oxygen. Journal of Physical Chemistry Letters, 2015, 6, 3104-3109.	4.6	15
147	Mechanism of Charging of Au Atoms and Nanoclusters on Li Doped SiO₂/Mo(112) Films. ChemPhysChem, 2010, 11, 412-418.	2.1	14
148	Probing Depth-Dependent Transition-Metal Redox of Lithium Nickel, Manganese, and Cobalt Oxides in Li-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 55865-55875.	8.0	14
149	Adsorption of Li, Na, K, and Mg Atoms on Amorphous and Crystalline Silica Bilayers on Ru(0001): A DFT Study. Journal of Physical Chemistry C, 2014, 118, 15884-15891.	3.1	13
150	Surface Oxygen Vacancies Confined by Ferroelectric Polarization for Tunable CO Oxidation Kinetics. Advanced Materials, 2022, 34, e2202072.	21.0	13
151	Implications of Nonelectrochemical Reaction Steps on the Oxygen Evolution Reaction: Oxygen Dimer Formation on Perovskite Oxide and Oxynitride Surfaces. ACS Catalysis, 2022, 12, 1433-1442.	11.2	12
152	Structure, Composition, and Electronic Properties of TiOx/Mo(112) Thin Films. Journal of Physical Chemistry C, 2007, 111, 7437-7445.	3.1	11
153	Stabilizing Monomeric Iron Species in a Porous Silica/Mo(112) Film. ACS Nano, 2010, 4, 863-868.	14.6	11
154	Spectroscopic Evidences of Charge Transfer Phenomena and Stabilization of Unusual Phases at Iron Oxide Monolayers Grown on Pt(111). Topics in Catalysis, 2013, 56, 1074-1081.	2.8	11
155	Design of S-Substituted Fluorinated Aryl Sulfonamide-Tagged (S-FAST) Anions To Enable New Solvate Ionic Liquids for Battery Applications. Chemistry of Materials, 2019, 31, 7558-7564.	6.7	11
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