

Andreas Schaefer

List of Publications by Year in descending order

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49
papers

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516710

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414414

32
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49
all docs

49
docs citations

49
times ranked

1538
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoporous Au: An Unsupported Pure Gold Catalyst?. Journal of Physical Chemistry C, 2009, 113, 5593-5600.	3.1	232
2	Steps Control the Dissociation of CO ₂ on Cu(100). Journal of the American Chemical Society, 2018, 140, 12974-12979.	13.7	70
3	The Role of Oxides in Catalytic CO Oxidation over Rhodium and Palladium. ACS Catalysis, 2018, 8, 4438-4445.	11.2	69
4	Structure–function relationship for CO ₂ methanation over ceria supported Rh and Ni catalysts under atmospheric pressure conditions. Catalysis Science and Technology, 2019, 9, 1644-1653.	4.1	61
5	Toward Controlled Modification of Nanoporous Gold. A Detailed Surface Science Study on Cleaning and Oxidation. Journal of Physical Chemistry C, 2012, 116, 4564-4571.	3.1	51
6	Water Inhibition in Methane Oxidation over Alumina Supported Palladium Catalysts. Journal of Physical Chemistry C, 2019, 123, 25724-25737.	3.1	43
7	CO oxidation on nanoporous gold: A combined TPD and XPS study of active catalysts. Surface Science, 2013, 609, 106-112.	1.9	37
8	Stabilization of the ceria δ -phase (Ce ₇ O ₁₂) surface on Si(111). Applied Physics Letters, 2013, 102, .	3.3	33
9	Photoemission study of praseodymia in its highest oxidation state: The necessity of <i>in situ</i> plasma treatment. Journal of Chemical Physics, 2011, 134, 054701.	3.0	30
10	Structural transitions of epitaxial ceria films on Si(111). Physical Chemistry Chemical Physics, 2013, 15, 18589.	2.8	30
11	Nanoporous Gold-Supported Ceria for the Water–Gas Shift Reaction: UHV Inspired Design for Applied Catalysis. Journal of Physical Chemistry C, 2014, 118, 29270-29277.	3.1	27
12	Growth and Partial Reduction of Sm ₂ O ₃ (111) Thin Films on Pt(111): Evidence for the Formation of SmO(100). Journal of Physical Chemistry C, 2013, 117, 21396-21406.	3.1	26
13	Controlling the physics and chemistry of binary and ternary praseodymium and cerium oxide systems. Physical Chemistry Chemical Physics, 2015, 17, 24513-24540.	2.8	26
14	Structure of the δ -phase of ceria on Si(111). Surface Science, 2013, 609, 106-112.	7.8	26
15	Oxidation of a Tb ₂ O ₃ (111) Thin Film on Pt(111) by Gas-Phase Oxygen Atoms. Journal of Physical Chemistry C, 2014, 118, 20916-20926.	3.1	25
16	Heteroepitaxial praseodymium sesquioxide films on Si(111): A new model catalyst system for praseodymium oxide based catalysts. Surface Science, 2007, 601, 1473-1480.	1.9	24
17	Temperature-Dependent Reduction of Epitaxial Ce _{1-x} Pr _x O ₂ ($x = 0 \leq 1$) Thin Films on Si(111): A Combined Temperature-Programmed Desorption, X-ray Diffraction, X-ray Photoelectron Spectroscopy, and Raman Study. Journal of Physical Chemistry C, 2013, 117, 24851-24857.	3.1	17
18	Initial oxidation of Cu(100) studied by X-ray photo-electron spectroscopy and density functional theory calculations. Surface Science, 2018, 675, 64-69.	1.9	17

#	ARTICLE	IF	CITATIONS
19	First layer water phases on anatase TiO ₂ (101). Surface Science, 2018, 674, 25-31.	1.9	16
20	Chemical vapor deposition of ordered TiO _x nanostructures on Au(111). Surface Science, 2013, 617, 211-217.	1.9	15
21	Hampered PdO Redox Dynamics by Water Suppresses Lean Methane Oxidation over Realistic Palladium Catalysts. ChemCatChem, 2021, 13, 3765-3771.	3.7	15
22	Growth of praseodymium oxide on Si(111) under oxygen-deficient conditions. Physical Review B, 2009, 80, .	3.2	14
23	Growth, Structure, and Stability of the High-Index TbO _x (112) Surface on Cu(111). Journal of Physical Chemistry C, 2015, 119, 14175-14184.	3.1	13
24	Thermal reduction of ceria nanostructures on rhodium(111) and re-oxidation by CO ₂ . Physical Chemistry Chemical Physics, 2018, 20, 19447-19457.	2.8	13
25	Modification of surface properties of thin polysaccharide films by low-energy electron exposure. Carbohydrate Polymers, 2011, 83, 608-615.	10.2	12
26	Growth and structure of ultrathin praseodymium oxide layers on ruthenium(0001). Physical Chemistry Chemical Physics, 2017, 19, 3480-3485.	2.8	12
27	Structural Changes of Ultrathin Cub-PrO ₂ (111)/Si(111) Films Due to Thermally Induced Oxygen Desorption. Journal of Physical Chemistry C, 2014, 118, 3056-3061.	3.1	11
28	Water Adsorption on TiO _x Thin Films Grown on Au(111). Journal of Physical Chemistry C, 2015, 119, 6660-6669.	3.1	11
29	Methanol Adsorption and Oxidation on Reduced and Oxidized TbO _x (111) Surfaces. Journal of Physical Chemistry C, 2016, 120, 28617-28629.	3.1	11
30	Defect-Induced Water Bilayer Growth on Anatase TiO ₂ (101). Langmuir, 2018, 34, 10856-10864.	3.5	11
31	CO ₂ Methanation over Rh/CeO ₂ Studied with Infrared Modulation Excitation Spectroscopy and Phase Sensitive Detection. Catalysts, 2020, 10, 601.	3.5	11
32	Can oxygen vacancies in ceria surfaces be measured by O1s photoemission spectroscopy?. Journal of Physics Condensed Matter, 2022, 34, 174004.	1.8	11
33	Growth of TiO ₂ (B)(001) on Au(111) by chemical vapor deposition. Surface Science, 2015, 633, 102-108.	1.9	9
34	Deactivation of a Pd/Pt Bimetallic Oxidation Catalyst Used in a Biogas-Powered Euro VI Heavy-Duty Engine Installation. Catalysts, 2019, 9, 1014.	3.5	9
35	Controlled modification of nanoporous gold: Chemical vapor deposition of TiO ₂ in ultrahigh vacuum. Applied Surface Science, 2013, 282, 439-443.	6.1	8
36	Structure of oxygen-plasma-treated ultrathin praseodymia films on Si(111). Physical Review B, 2011, 83, .	3.2	7

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37	Role of hydroxylation for the atomic structure of a non-polar vicinal zinc oxide. Communications Chemistry, 2021, 4, .	4.5	6
38	Methanol Adsorption and Reaction on Samaria Thin Films on Pt(111). Materials, 2015, 8, 6228-6256.	2.9	5
39	On-Line Composition Analysis of Complex Hydrocarbon Streams by Time-Resolved Fourier Transform Infrared Spectroscopy and Ion-Molecule Reaction Mass Spectrometry. Analytical Chemistry, 2021, 93, 13187-13195.	6.5	5
40	Photochemistry of Carboxylate on TiO ₂ (110) Studied with Synchrotron Radiation Photoelectron Spectroscopy. Langmuir, 2016, 32, 11456-11464.	3.5	4
41	Chemistry of thin film formation and stability during praseodymium oxide deposition on Si(111) under oxygen-deficient conditions. Surface Science, 2010, 604, 1287-1293.	1.9	3
42	Nanoscale analysis of the oxidation state and surface termination of praseodymium oxide ultrathin films on ruthenium(0001). Ultramicroscopy, 2017, 183, 61-66.	1.9	3
43	Oxygen induced faceting of Cu(911). Surface Science, 2022, 715, 121933.	1.9	3
44	Adsorption and photolysis of trimethyl acetate on TiO ₂ (B)(001) studied with synchrotron radiation core level photoelectron spectroscopy. Surface Science, 2017, 666, 104-112.	1.9	2
45	Deactivation of a Vanadium-Based SCR Catalyst Used in a Biogas-Powered Euro VI Heavy-Duty Engine Installation. Catalysts, 2020, 10, 552.	3.5	2
46	Steps and catalytic reactions: CO oxidation with preadsorbed O on Rh(553). Surface Science, 2022, 715, 121928.	1.9	2
47	Valorisation of 2,5-dimethylfuran over zeolite catalysts studied by on-line FTIR-MS gas phase analysis. Catalysis Science and Technology, 2022, 12, 750-761.	4.1	2
48	Effects of air exposure and vacuum storage on Li _{0.4} WO ₃ studied by photoelectron spectroscopy. Applied Surface Science, 2015, 357, 608-614.	6.1	1
49	CO and D ₂ O chemistry on continuous and discontinuous samaria thin films on Pt(111). Surface Science, 2016, 650, 221-229.	1.9	1