Andreas Schaefer

List of Publications by Year
in descending order

49 papers	1,092 citations	516710 16 h-index	414414 32 g-index
49 all docs	49 docs citations	49 times ranked	1538 citing authors

#	Article	IF	Citations
1	Steps and catalytic reactions: CO oxidation with preadsorbed O on Rh(553). Surface Science, 2022, 715, 121928.	1.9	2
2	Oxygen induced faceting of Cu(911). Surface Science, 2022, 715, 121933.	1.9	3
3	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
4	Can oxygen vacancies in ceria surfaces be measured by O1s photoemission spectroscopy?. Journal of Physics Condensed Matter, 2022, 34, 174004.	1.8	11
5	Role of hydroxylation for the atomic structure of a non-polar vicinal zinc oxide. Communications Chemistry, 2021, 4, .	4.5	6
6	Hampered PdO Redox Dynamics by Water Suppresses Lean Methane Oxidation over Realistic Palladium Catalysts. ChemCatChem, 2021, 13, 3765-3771.	3.7	15
7	On-Line Composition Analysis of Complex Hydrocarbon Streams by Time-Resolved Fourier Transform Infrared Spectroscopy and Ionâ€“Molecule Reaction Mass Spectrometry. Analytical Chemistry, 2021, 93, 13187-13195.	6.5	5
8	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
9	CO2 Methanation over Rh/CeO2 Studied with Infrared Modulation Excitation Spectroscopy and Phase Sensitive Detection. Catalysts, 2020, 10, 601.	3.5	11
10	Water Inhibition in Methane Oxidation over Alumina Supported Palladium Catalysts. Journal of Physical Chemistry C, 2019, 123, 25724-25737.	3.1	43
11	Structureâ€“function relationship for CO₂ methanation over ceria supported Rh and Ni catalysts under atmospheric pressure conditions. Catalysis Science and Technology, 2019, 9, 1644-1653.	4.1	61
12	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
13	First layer water phases on anatase TiO2(101). Surface Science, 2018, 674, 25-31.	1.9	16
14	The Role of Oxides in Catalytic CO Oxidation over Rhodium and Palladium. ACS Catalysis, 2018, 8, 4438-4445.	11.2	69
15	Steps Control the Dissociation of CO₂ on Cu(100). Journal of the American Chemical Society, 2018, 140, 12974-12979.	13.7	70
16	Defect-Induced Water Bilayer Growth on Anatase TiO₂(101). Langmuir, 2018, 34, 10856-10864.	3.5	11
17	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
18	Thermal reduction of ceria nanostructures on rhodium(111) and re-oxidation by CO₂. Physical Chemistry Chemical Physics, 2018, 20, 19447-19457.	2.8	13

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19	Adsorption and photolysis of trimethyl acetate on TiO2(B)(001) studied with synchrotron radiation core level photoelectron spectroscopy. Surface Science, 2017, 666, 104-112.	1.9	2
20	Structure of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mrow><mml:msub><mml:mrow><mml:mi>SnO</mml:mi></mml:mrow><mml:mrow><mml:mn>2<stretchy="false">(</mml:mo><mml:mn>110</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (stretchy="false">)</mml:mo><mml:mn>4</mml:mn><mml:mo>Ã—</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (stretchy="false">)</mml:mo><mml:mn>0961	7.8	26
21	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
22	Growth and structure of ultrathin praseodymium oxide layers on ruthenium(0001). Physical Chemistry Chemical Physics, 2017, 19, 3480-3485.	2.8	12
23	Methanol Adsorption and Oxidation on Reduced and Oxidized TbO_x(111) Surfaces. Journal of Physical Chemistry C, 2016, 120, 28617-28629.	3.1	11
24	Photochemistry of Carboxylate on TiO₂(110) Studied with Synchrotron Radiation Photoelectron Spectroscopy. Langmuir, 2016, 32, 11456-11464.	3.5	4
25	CO and D2O chemistry on continuous and discontinuous samaria thin films on Pt(111). Surface Science, 2016, 650, 221-229.	1.9	1
26	Methanol Adsorption and Reaction on Samaria Thin Films on Pt(111). Materials, 2015, 8, 6228-6256.	2.9	5
27	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
28	Effects of air exposure and vacuum storage on Li0.4WO3 studied by photoelectron spectroscopy. Applied Surface Science, 2015, 357, 608-614.	6.1	1
29	Growth of TiO2(B)(001) on Au(111) by chemical vapor deposition. Surface Science, 2015, 633, 102-108.	1.9	9
30	Water Adsorption on TiO_x Thin Films Grown on Au(111). Journal of Physical Chemistry C, 2015, 119, 6660-6669.	3.1	11
31	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
32	Nanoporous Gold-Supported Ceria for the Waterâ€“Gas Shift Reaction: UHV Inspired Design for Applied Catalysis. Journal of Physical Chemistry C, 2014, 118, 29270-29277.	3.1	27
33	Oxidation of a Tb₂O₃(111) Thin Film on Pt(111) by Gas-Phase Oxygen Atoms. Journal of Physical Chemistry C, 2014, 118, 20916-20926.	3.1	25
34	Structural Changes of Ultrathin Cub-PrO2(111)/Si(111) Films Due to Thermally Induced Oxygen Desorption. Journal of Physical Chemistry C, 2014, 118, 3056-3061.	3.1	11
35	Structural transitions of epitaxial ceria films on Si(111). Physical Chemistry Chemical Physics, 2013, 15, 18589.	2.8	30
36	Chemical vapor deposition of ordered TiOx nanostructures on Au(111). Surface Science, 2013, 617, 211-217.	1.9	15

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37	Controlled modification of nanoporous gold: Chemical vapor deposition of TiO2 in ultrahigh vacuum. Applied Surface Science, 2013, 282, 439-443.	6.1	8
38	CO oxidation on nanoporous gold: A combined TPD and XPS study of active catalysts. Surface Science, 2013, 609, 106-112.	1.9	37
39	Growth and Partial Reduction of Sm₂O₃(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
40	Temperature-Dependent Reduction of Epitaxial Ce_{1â€“x}Pr_xO_{2âˆ’Î´} (x = 0â€“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
41	Stabilization of the ceria Î¹-phase (Ce7O12) surface on Si(111). Applied Physics Letters, 2013, 102, .	3.3	33
42	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
43	Modification of surface properties of thin polysaccharide films by low-energy electron exposure. Carbohydrate Polymers, 2011, 83, 608-615.	10.2	12
44	Photoemission study of praseodymia in its highest oxidation state: The necessity of in situ plasma treatment. Journal of Chemical Physics, 2011, 134, 054701.	3.0	30
45	Structure of oxygen-plasma-treated ultrathin praseodymia films on Si(111). Physical Review B, 2011, 83, .	3.2	7
46	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
47	Growth of praseodymium oxide on Si(111) under oxygen-deficient conditions. Physical Review B, 2009, 80, .	3.2	14
48	Nanoporous Au: An Unsupported Pure Gold Catalyst?. Journal of Physical Chemistry C, 2009, 113, 5593-5600.	3.1	232
49	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