Jan Knudsen

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6358093/publications.pdf

Version: 2024-02-01

56 papers	2,241 citations	201674 27 h-index	214800 47 g-index
56 all docs	56 docs citations	56 times ranked	3345 citing authors

#	Article	IF	Citations
1	Water Chemistry beneath Graphene: Condensation of a Dense OHâ€“H₂O Phase under Graphene. Journal of Physical Chemistry C, 2022, 126, 4347-4354.	3.1	4
2	Upgrade of the SPECIES beamline at the MAX IV Laboratory. Journal of Synchrotron Radiation, 2021, 28, 588-601.	2.4	19
3	Growth, Stability, and Electronic Decoupling of Pt Clusters on h-BN/Ir(111). Journal of Physical Chemistry C, 2021, 125, 3880-3889.	3.1	10
4	Segregation dynamics of a Pd-Ag surface during CO oxidation investigated by NAP-XPS. Catalysis Today, 2021, , .	4.4	8
5	Area-selective Electron-beam induced deposition of Amorphous-BNx on graphene. Applied Surface Science, 2021, 557, 149806.	6.1	1
6	Gas Pulseâ€“X-Ray Probe Ambient Pressure Photoelectron Spectroscopy with Submillisecond Time Resolution. ACS Applied Materials & Interfaces, 2021, 13, 47629-47641.	8.0	9
7	Stroboscopic operando spectroscopy of the dynamics in heterogeneous catalysis by event-averaging. Nature Communications, 2021, 12, 6117.	12.8	27
8	Carbon Embedding of Pt Cluster Superlattices Templated by Hexagonal Boron Nitride on Ir(111). Journal of Physical Chemistry C, 2021, 125, 23435-23444.	3.1	1
9	Cluster Superlattice Membranes. ACS Nano, 2020, 14, 13629-13637.	14.6	6
10	Present and new frontiers in materials research by ambient pressure x-ray photoelectron spectroscopy. Journal of Physics Condensed Matter, 2020, 32, 413003.	1.8	54
11	A five-axis parallel kinematic mirror unit for soft X-ray beamlines at MAXâ€…IV. Journal of Synchrotron Radiation, 2020, 27, 262-271.	2.4	5
12	Self-cleaning and surface chemical reactions during hafnium dioxide atomic layer deposition on indium arsenide. Nature Communications, 2018, 9, 1412.	12.8	46
13	Exciting H₂ Molecules for Graphene Functionalization. ACS Nano, 2018, 12, 513-520.	14.6	24
14	Adsorption of CO on the Fe₃O₄(001) Surface. Journal of Physical Chemistry B, 2018, 122, 721-729.	2.6	20
15	In situ NAP-XPS spectroscopy during methane dry reforming on ZrO₂/Pt(1â€‰1â€‰1) inverse model catalyst. Journal of Physics Condensed Matter, 2018, 30, 264007.	1.8	32
16	The SPECIES beamline at the MAX IV Laboratory: aÂfacility for soft X-ray RIXS and APXPS. Journal of Synchrotron Radiation, 2017, 24, 344-353.	2.4	38
17	From Permeation to Cluster Arrays: Graphene on Ir(111) Exposed to Carbon Vapor. Nano Letters, 2017, 17, 3105-3112.	9.1	20
18	Co3O4(100) films grown on Ag(100): Structure and chemical properties. Surface Science, 2017, 657, 90-95.	1.9	10

#	Article	IF	Citations
19	Interaction of Sulfur Dioxide and Near-Ambient Pressures of Water Vapor with Cuprous Oxide Surfaces. Journal of Physical Chemistry C, 2017, 121, 24011-24024.	3.1	11
20	Preventing sintering of nanoclusters on graphene by radical adsorption. Nanoscale, 2017, 9, 13618-13629.	5.6	5
21	Annealing of ion-irradiated hexagonal boron nitride on Ir(111). Physical Review B, 2017, 96, .	3.2	17
22	Ambient pressure phase transitions over Ir(1â€‰1â€‰1): at the onset of CO oxidation. Journal of Physics Condensed Matter, 2017, 29, 444002.	1.8	10
23	Near Ambient Pressure XPS Investigation of CO Oxidation Over Pd3Au(100). Topics in Catalysis, 2017, 60, 1439-1448.	2.8	17
24	Core level shifts of intercalated graphene. 2D Materials, 2017, 4, 015013.	4.4	45
25	Adsorption of hydrogen on stable and metastable Ir(100) surfaces. Surface Science, 2017, 656, 66-76.	1.9	9
26	Reversed Hysteresis during CO Oxidation over Pd75Ag25(100). ACS Catalysis, 2016, 6, 4154-4161.	11.2	31
27	Adsorption and Reaction of CO and NO on Ir(111) Under Near Ambient Pressure Conditions. Topics in Catalysis, 2016, 59, 487-496.	2.8	18
28	Symmetry-Driven Band Gap Engineering in Hydrogen Functionalized Graphene. ACS Nano, 2016, 10, 10798-10807.	14.6	55
29	Stability and Reactivity of Graphene-Templated Nanoclusters. Journal of Physical Chemistry C, 2016, 120, 26290-26299.	3.1	13
30	Iron phthalocyanine on Cu(111): Coverage-dependent assembly and symmetry breaking, temperature-induced homocoupling, and modification of the adsorbate-surface interaction by annealing. Journal of Chemical Physics, 2016, 144, 094702.	3.0	19
31	Oxidation of Ultrathin FeO(111) Grown on Pt(111): Spectroscopic Evidence for Hydroxylation. Topics in Catalysis, 2016, 59, 506-515.	2.8	21
32	A versatile instrument for ambient pressure x-ray photoelectron spectroscopy: The Lund cell approach. Surface Science, 2016, 646, 160-169.	1.9	69
33	Hydrogen intercalation under graphene on Ir(111). Surface Science, 2016, 651, 57-61.	1.9	24
34	Etching of graphene on Ir(111) with molecular oxygen. Carbon, 2016, 96, 320-331.	10.3	28
35	Nature of the bias-dependent symmetry reduction of iron phthalocyanine on Cu(111). Physical Review B, 2015, 92, .	3.2	22
36	Interface Controlled Oxidation States in Layered Cobalt Oxide Nanoislands on Gold. ACS Nano, 2015, 9, 2445-2453.	14.6	78

#	Article	IF	Citations
37	Adsorption and Activation of CO on Co₃O₄(111) Thin Films. Journal of Physical Chemistry C, 2015, 119, 16688-16699.	3.1	72
38	Epoxidation of olefins with molecular oxygen as the oxidant using gold catalysts supported on polyoxometalates. Green Chemistry, 2014, 16, 1586.	9.0	42
39	Water clustering on nanostructured iron oxide films. Nature Communications, 2014, 5, 4193.	12.8	65
40	CO Intercalation of Graphene on Ir(111) in the Millibar Regime. Journal of Physical Chemistry C, 2013, 117, 16438-16447.	3.1	79
41	CO-Induced Smoluchowski Ripening of Pt Cluster Arrays on the Graphene/Ir(111) MoirÃ©. ACS Nano, 2013, 7, 2020-2031.	14.6	62
42	Clusters binding to the graphene moirÃ© on Ir(111): X-ray photoemission compared to density functional calculations. Physical Review B, 2012, 85, .	3.2	50
43	The new ambient-pressure X-ray photoelectron spectroscopy instrument at MAX-lab. Journal of Synchrotron Radiation, 2012, 19, 701-704.	2.4	119
44	Oxygen Intercalation under Graphene on Ir(111): Energetics, Kinetics, and the Role of Graphene Edges. ACS Nano, 2012, 6, 9951-9963.	14.6	173
45	Comparison of the Carbonyl and Nitrosyl Complexes Formed by Adsorption of CO and NO on Monolayers of Iron Phthalocyanine on Au(111). Journal of Physical Chemistry C, 2011, 115, 24718-24727.	3.1	49
46	Tip-Dependent Scanning Tunneling Microscopy Imaging of Ultrathin FeO Films on Pt(111). Journal of Physical Chemistry C, 2011, 115, 2089-2099.	3.1	55
47	CO-Induced Embedding of Pt Adatoms in a Partially Reduced FeOxFilm on Pt(111). Journal of the American Chemical Society, 2011, 133, 10692-10695.	13.7	27
48	Low-Temperature CO Oxidation on Ni(111) and on a Au/Ni(111) Surface Alloy. ACS Nano, 2010, 4, 4380-4387.	14.6	80
49	Interplay of adsorbate-adsorbate and adsorbate-substrate interactions in self-assembled molecular surface nanostructures. Nano Research, 2010, 3, 459-471.	10.4	29
50	Reduction of FeO/Pt(111) thin films by exposure to atomic hydrogen. Surface Science, 2010, 604, 11-20.	1.9	58
51	On the Mechanism of Low-Temperature CO Oxidation on Ni(111) and NiO(111) Surfaces. Journal of Physical Chemistry C, 2010, 114, 21579-21584.	3.1	71
52	Correlating STM contrast and atomic-scale structure by chemical modification: Vacancy dislocation loops on FeO/Pt(111). Surface Science, 2009, 603, L15-L18.	1.9	53
53	Experimental and theoretical study of oxygen adsorption structures on Ag(111). Physical Review B, 2009, 80, .	3.2	90
54	A Cu/Pt Near-Surface Alloy for Waterâ"Gas Shift Catalysis. Journal of the American Chemical Society, 2007, 129, 6485-6490.	13.7	233

#	Article	IF	Citations
55	Oxidation of a Platinumâ€“Tin Alloy Surface during Catalytic CO Oxidation. Journal of Physical Chemistry C, 0, , .	3.1	4
56	Time Resolved Ambient Pressure X-ray Photoelectron Spectroscopy. ACS Symposium Series, 0, , 219-248.	0.5	4