

Jan Knudsen

List of Publications by Year in descending order

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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	A Cu/Pt Near-Surface Alloy for Water-Gas Shift Catalysis. <i>Journal of the American Chemical Society</i> , 2007, 129, 6485-6490.	13.7	233
2	Oxygen Intercalation under Graphene on Ir(111): Energetics, Kinetics, and the Role of Graphene Edges. <i>ACS Nano</i> , 2012, 6, 9951-9963.	14.6	173
3	The new ambient-pressure X-ray photoelectron spectroscopy instrument at MAX-lab. <i>Journal of Synchrotron Radiation</i> , 2012, 19, 701-704.	2.4	119
4	Experimental and theoretical study of oxygen adsorption structures on Ag(111). <i>Physical Review B</i> , 2009, 80, .	3.2	90
5	Low-Temperature CO Oxidation on Ni(111) and on a Au/Ni(111) Surface Alloy. <i>ACS Nano</i> , 2010, 4, 4380-4387.	14.6	80
6	CO Intercalation of Graphene on Ir(111) in the Millibar Regime. <i>Journal of Physical Chemistry C</i> , 2013, 117, 16438-16447.	3.1	79
7	Interface Controlled Oxidation States in Layered Cobalt Oxide Nanoislands on Gold. <i>ACS Nano</i> , 2015, 9, 2445-2453.	14.6	78
8	Adsorption and Activation of CO on Co ₃ O ₄ (111) Thin Films. <i>Journal of Physical Chemistry C</i> , 2015, 119, 16688-16699.	3.1	72
9	On the Mechanism of Low-Temperature CO Oxidation on Ni(111) and NiO(111) Surfaces. <i>Journal of Physical Chemistry C</i> , 2010, 114, 21579-21584.	3.1	71
10	A versatile instrument for ambient pressure x-ray photoelectron spectroscopy: The Lund cell approach. <i>Surface Science</i> , 2016, 646, 160-169.	1.9	69
11	Water clustering on nanostructured iron oxide films. <i>Nature Communications</i> , 2014, 5, 4193.	12.8	65
12	CO-Induced Smoluchowski Ripening of Pt Cluster Arrays on the Graphene/Ir(111) Moiré. <i>ACS Nano</i> , 2013, 7, 2020-2031.	14.6	62
13	Reduction of FeO/Pt(111) thin films by exposure to atomic hydrogen. <i>Surface Science</i> , 2010, 604, 11-20.	1.9	58
14	Tip-Dependent Scanning Tunneling Microscopy Imaging of Ultrathin FeO Films on Pt(111). <i>Journal of Physical Chemistry C</i> , 2011, 115, 2089-2099.	3.1	55
15	Symmetry-Driven Band Gap Engineering in Hydrogen Functionalized Graphene. <i>ACS Nano</i> , 2016, 10, 10798-10807.	14.6	55
16	Present and new frontiers in materials research by ambient pressure x-ray photoelectron spectroscopy. <i>Journal of Physics Condensed Matter</i> , 2020, 32, 413003.	1.8	54
17	Correlating STM contrast and atomic-scale structure by chemical modification: Vacancy dislocation loops on FeO/Pt(111). <i>Surface Science</i> , 2009, 603, L15-L18.	1.9	53
18	Clusters binding to the graphene moiré on Ir(111): X-ray photoemission compared to density functional calculations. <i>Physical Review B</i> , 2012, 85, .	3.2	50

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19	Comparison of the Carbonyl and Nitrosyl Complexes Formed by Adsorption of CO and NO on Monolayers of Iron Phthalocyanine on Au(111). <i>Journal of Physical Chemistry C</i> , 2011, 115, 24718-24727.	3.1	49
20	Self-cleaning and surface chemical reactions during hafnium dioxide atomic layer deposition on indium arsenide. <i>Nature Communications</i> , 2018, 9, 1412.	12.8	46
21	Core level shifts of intercalated graphene. <i>2D Materials</i> , 2017, 4, 015013.	4.4	45
22	Epoxidation of olefins with molecular oxygen as the oxidant using gold catalysts supported on polyoxometalates. <i>Green Chemistry</i> , 2014, 16, 1586.	9.0	42
23	The SPECIES beamline at the MAX IV Laboratory: a facility for soft X-ray RIXS and APXPS. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 344-353.	2.4	38
24	<i>In situ</i> NAP-XPS spectroscopy during methane dry reforming on ZrO ₂ /Pt(1%)/inverse model catalyst. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 264007.	1.8	32
25	Reversed Hysteresis during CO Oxidation over Pd ₇₅ Ag ₂₅ (100). <i>ACS Catalysis</i> , 2016, 6, 4154-4161.	11.2	31
26	Interplay of adsorbate-adsorbate and adsorbate-substrate interactions in self-assembled molecular surface nanostructures. <i>Nano Research</i> , 2010, 3, 459-471.	10.4	29
27	Etching of graphene on Ir(111) with molecular oxygen. <i>Carbon</i> , 2016, 96, 320-331.	10.3	28
28	CO-Induced Embedding of Pt Adatoms in a Partially Reduced FeOx Film on Pt(111). <i>Journal of the American Chemical Society</i> , 2011, 133, 10692-10695.	13.7	27
29	Stroboscopic operando spectroscopy of the dynamics in heterogeneous catalysis by event-averaging. <i>Nature Communications</i> , 2021, 12, 6117.	12.8	27
30	Hydrogen intercalation under graphene on Ir(111). <i>Surface Science</i> , 2016, 651, 57-61.	1.9	24
31	Exciting H ₂ Molecules for Graphene Functionalization. <i>ACS Nano</i> , 2018, 12, 513-520.	14.6	24
32	Nature of the bias-dependent symmetry reduction of iron phthalocyanine on Cu(111). <i>Physical Review B</i> , 2015, 92, .	3.2	22
33	Oxidation of Ultrathin FeO(111) Grown on Pt(111): Spectroscopic Evidence for Hydroxylation. <i>Topics in Catalysis</i> , 2016, 59, 506-515.	2.8	21
34	From Permeation to Cluster Arrays: Graphene on Ir(111) Exposed to Carbon Vapor. <i>Nano Letters</i> , 2017, 17, 3105-3112.	9.1	20
35	Adsorption of CO on the Fe ₃ O ₄ (001) Surface. <i>Journal of Physical Chemistry B</i> , 2018, 122, 721-729.	2.6	20
36	Iron phthalocyanine on Cu(111): Coverage-dependent assembly and symmetry breaking, temperature-induced homocoupling, and modification of the adsorbate-surface interaction by annealing. <i>Journal of Chemical Physics</i> , 2016, 144, 094702.	3.0	19

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37	Upgrade of the SPECIES beamline at the MAX IV Laboratory. <i>Journal of Synchrotron Radiation</i> , 2021, 28, 588-601.	2.4	19
38	Adsorption and Reaction of CO and NO on Ir(111) Under Near Ambient Pressure Conditions. <i>Topics in Catalysis</i> , 2016, 59, 487-496.	2.8	18
39	Annealing of ion-irradiated hexagonal boron nitride on Ir(111). <i>Physical Review B</i> , 2017, 96, .	3.2	17
40	Near Ambient Pressure XPS Investigation of CO Oxidation Over Pd ₃ Au(100). <i>Topics in Catalysis</i> , 2017, 60, 1439-1448.	2.8	17
41	Stability and Reactivity of Graphene-Templated Nanoclusters. <i>Journal of Physical Chemistry C</i> , 2016, 120, 26290-26299.	3.1	13
42	Interaction of Sulfur Dioxide and Near-Ambient Pressures of Water Vapor with Cuprous Oxide Surfaces. <i>Journal of Physical Chemistry C</i> , 2017, 121, 24011-24024.	3.1	11
43	Co ₃ O ₄ (100) films grown on Ag(100): Structure and chemical properties. <i>Surface Science</i> , 2017, 657, 90-95.	1.9	10
44	Ambient pressure phase transitions over Ir(111): at the onset of CO oxidation. <i>Journal of Physics Condensed Matter</i> , 2017, 29, 444002.	1.8	10
45	Growth, Stability, and Electronic Decoupling of Pt Clusters on h-BN/Ir(111). <i>Journal of Physical Chemistry C</i> , 2021, 125, 3880-3889.	3.1	10
46	Adsorption of hydrogen on stable and metastable Ir(100) surfaces. <i>Surface Science</i> , 2017, 656, 66-76.	1.9	9
47	Gas Pulse X-Ray Probe Ambient Pressure Photoelectron Spectroscopy with Submillisecond Time Resolution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 47629-47641.	8.0	9
48	Segregation dynamics of a Pd-Ag surface during CO oxidation investigated by NAP-XPS. <i>Catalysis Today</i> , 2021, , .	4.4	8
49	Cluster Superlattice Membranes. <i>ACS Nano</i> , 2020, 14, 13629-13637.	14.6	6
50	Preventing sintering of nanoclusters on graphene by radical adsorption. <i>Nanoscale</i> , 2017, 9, 13618-13629.	5.6	5
51	A five-axis parallel kinematic mirror unit for soft X-ray beamlines at MAX IV. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 262-271.	2.4	5
52	Water Chemistry beneath Graphene: Condensation of a Dense OH ₂ Phase under Graphene. <i>Journal of Physical Chemistry C</i> , 2022, 126, 4347-4354.	3.1	4
53	Oxidation of a Platinum-Tin Alloy Surface during Catalytic CO Oxidation. <i>Journal of Physical Chemistry C</i> , 0, , .	3.1	4
54	Time Resolved Ambient Pressure X-ray Photoelectron Spectroscopy. <i>ACS Symposium Series</i> , 0, , 219-248.	0.5	4

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55	Area-selective Electron-beam induced deposition of Amorphous-BNx on graphene. Applied Surface Science, 2021, 557, 149806.	6.1	1
56	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