

# Jeppe V Lauritsen

## List of Publications by Year in descending order

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124  
papers

9,546  
citations

34016

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96  
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127  
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127  
docs citations

127  
times ranked

9905  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrically Tunable Reactivity of Substrate-Supported Cobalt Oxide Nanocrystals. <i>Small</i> , 2022, 18, e2106407.	5.2	5
2	Water dissociation on Mixed Co-Fe oxide bilayer nanoislands on Au(111). <i>Journal of Physics Condensed Matter</i> , 2022, , .	0.7	2
3	Iron carbide formation on thin iron films grown on Cu(1 0 0): FCC iron stabilized by a stable surface carbide. <i>Applied Surface Science</i> , 2022, 585, 152684.	3.1	5
4	WO <sub>3</sub> Monomers Supported on Anatase TiO <sub>2</sub> (101), $\bar{1}10$ , and Rutile TiO <sub>2</sub> (110): A Comparative STM and XPS Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 2493-2502.	1.5	8
5	The cobalt oxidation state in preferential CO oxidation on CoO <sub>x</sub> /Pt(111) investigated by <i>operando</i> X-ray photoemission spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	1.3	7
6	Adsorption and Reaction of NH <sub>3</sub> on Rutile TiO <sub>2</sub> (110): An STM Study. <i>Journal of Physical Chemistry C</i> , 2022, 126, 6590-6600.	1.5	1
7	Size-dependent phase stability in transition metal dichalcogenide nanoparticles controlled by metal substrates. <i>Nanoscale</i> , 2021, 13, 10167-10180.	2.8	4
8	Applications of high-resolution scanning probe microscopy in hydroprocessing catalysis studies. <i>Journal of Catalysis</i> , 2021, 403, 4-15.	3.1	7
9	Lateral Interfaces between Monolayer MoS <sub>2</sub> Edges and Armchair Graphene Nanoribbons on Au(111). <i>ACS Nano</i> , 2021, 15, 6699-6708.	7.3	4
10	Electronic properties of single-layer CoO <sub>2</sub> /Au(111). <i>2D Materials</i> , 2021, 8, 035050.	2.0	7
11	Spectroscopic view of ultrafast charge carrier dynamics in single- and bilayer transition metal dichalcogenide semiconductors. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021, 250, 147093.	0.8	9
12	A versatile electrochemical cell for hanging meniscus or flow cell measurement of planar model electrodes characterized with scanning tunneling microscopy and x-ray photoelectron spectroscopy. <i>Review of Scientific Instruments</i> , 2021, 92, 094101.	0.6	5
13	Structural Dynamics of Ultrathin Cobalt Oxide Nanoislands under Potential Control. <i>Advanced Functional Materials</i> , 2021, 31, 2009923.	7.8	26
14	Nanoscale Chevrel-Phase Mo <sub>6</sub> S <sub>8</sub> Prepared by a Molecular Precursor Approach for Highly Efficient Electrocatalysis of the Hydrogen Evolution Reaction in Acidic Media. <i>ACS Applied Energy Materials</i> , 2021, 4, 13015-13026.	2.5	12
15	The Effect of Fe Dopant Location in Co(Fe)OOH <sub>x</sub> Nanoparticles for the Oxygen Evolution Reaction. <i>ACS Nano</i> , 2021, 15, 18226-18236.	7.3	37
16	Preparation and Characterization of V <sub>2</sub> O <sub>5</sub> /a-TiO <sub>2</sub> (101) Model Catalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26916-26924.	1.5	4
17	Site-dependent reactivity of MoS <sub>2</sub> nanoparticles in hydrodesulfurization of thiophene. <i>Nature Communications</i> , 2020, 11, 4369.	5.8	44
18	Cubes on a string: a series of linear coordination polymers with cubane-like nodes and dicarboxylate linkers. <i>Nanoscale</i> , 2020, 12, 11601-11611.	2.8	6

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19	Direct Integration of Few-Layer MoS <sub>2</sub> at Plasmonic Au Nanostructure by Substrate-Diffusion Delivered Mo. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902093.	1.9	4
20	Molecular Nanowire Bonding to Epitaxial Single-Layer MoS <sub>2</sub> by an On-Surface Ullmann Coupling Reaction. <i>Small</i> , 2020, 16, 1906892.	5.2	6
21	Adsorption and reaction of methanol on Fe <sub>3</sub> O <sub>4</sub> (001). <i>Journal of Chemical Physics</i> , 2020, 152, 064703.	1.2	10
22	Diffusion mechanisms and the effect of intermolecular repulsion. <i>Physical Review Materials</i> , 2020, 4, 043301.	0.9	5
23	W <sub>3</sub> O <sub>3</sub> clusters on anatase TiO <sub>2</sub> (101) surface. <i>Physical Review Materials</i> , 2020, 4, 043302.	0.9	1
24	Anisotropic iron-doping patterns in two-dimensional cobalt oxide nanoislands on Au(111). <i>Nano Research</i> , 2019, 12, 2364-2372.	5.8	4
25	Basal plane oxygen exchange of epitaxial MoS <sub>2</sub> without edge oxidation. <i>2D Materials</i> , 2019, 6, 045013.	2.0	22
26	Structure of CoO <sub>x</sub> Thin Films on Pt(111) in Oxidation of CO. <i>Journal of Physical Chemistry C</i> , 2019, 123, 17407-17415.	1.5	11
27	Atomic-Scale View of the Oxidation and Reduction of Supported Ultrathin FeO Islands. <i>ACS Nano</i> , 2019, 13, 11632-11641.	7.3	21
28	Surface Topotactic Growth of Edge-Terminated MoS <sub>2</sub> Catalysts. <i>Microscopy and Microanalysis</i> , 2019, 25, 1456-1457.	0.2	0
29	Dissociation of water on atomically-defined cobalt oxide nanoislands on Pt(111) and its effect on the adsorption of CO. <i>Journal of Materials Research</i> , 2019, 34, 379-393.	1.2	9
30	Structure and Stability of Au-Supported Layered Cobalt Oxide Nanoislands in Ambient Conditions. <i>Journal of Physical Chemistry C</i> , 2019, 123, 9176-9182.	1.5	14
31	Structural and electronic properties of Fe dopants in cobalt oxide nanoislands on Au(111). <i>Journal of Chemical Physics</i> , 2019, 150, 041731.	1.2	14
32	Atomically Defined Iron Carbide Surface for Fischer-Tropsch Synthesis Catalysis. <i>ACS Catalysis</i> , 2019, 9, 1264-1273.	5.5	48
33	Adsorption of nitrogenous inhibitor molecules on MoS <sub>2</sub> and CoMoS hydrodesulfurization catalysts particles investigated by scanning tunneling microscopy. <i>Journal of Catalysis</i> , 2019, 370, 232-240.	3.1	26
34	Coverage-dependent oxidation and reduction of vanadium supported on anatase TiO <sub>2</sub> (101). <i>Journal of Catalysis</i> , 2018, 360, 118-126.	3.1	16
35	Step edge structures on the anatase TiO <sub>2</sub> (001) surface studied by atomic-resolution TEM and STM. <i>Faraday Discussions</i> , 2018, 208, 325-338.	1.6	13
36	Controllable etching of MoS <sub>2</sub> basal planes for enhanced hydrogen evolution through the formation of active edge sites. <i>Nano Energy</i> , 2018, 49, 634-643.	8.2	220

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37	NH <sub>3</sub> adsorption on anatase-TiO <sub>2</sub> (101). Journal of Chemical Physics, 2018, 148, 124704.	1.2	11
38	Sulfur-driven switching of the Ullmann coupling on Au(111). Chemical Communications, 2018, 54, 3621-3624.	2.2	15
39	Phase Transitions of Cobalt Oxide Bilayers on Au(111) and Pt(111): The Role of Edge Sites and Substrate Interactions. Journal of Physical Chemistry B, 2018, 122, 561-571.	1.2	26
40	Water Dissociation and Hydroxyl Ordering on Anatase $\text{TiO}_2$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 612 Td (stretchy="false")</mml:mo><mml:mn>001</mml:mn><mml:mo>		

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55	The reaction mechanism for the SCR process on monomer V <sup>5+</sup> sites and the effect of modified Brønsted acidity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 17071-17080.	1.3	53
56	Effects of particle size and edge structure on the electronic structure, spectroscopic features, and chemical properties of Au(111)-supported MoS <sub>2</sub> nanoparticles. <i>Faraday Discussions</i> , 2016, 188, 323-343.	1.6	22
57	Correlation between stoichiometry and surface structure of the polar MgAl <sub>2</sub> O <sub>4</sub> (100) surface as a function of annealing temperature. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 5795-5804.	1.3	9
58	Atom-resolved scanning tunneling microscopy investigations of molecular adsorption on MoS <sub>2</sub> and CoMoS hydrodesulfurization catalysts. <i>Journal of Catalysis</i> , 2015, 328, 49-58.	3.1	104
59	Van der Waals Epitaxy of Two-Dimensional MoS <sub>2</sub> "Graphene Heterostructures in Ultrahigh Vacuum. <i>ACS Nano</i> , 2015, 9, 6502-6510.	7.3	153
60	Growth and electronic structure of epitaxial single-layer WS <sub>2</sub> on Au(111). <i>Physical Review B</i> , 2015, 92, .	7.3	140
61	Noncontact AFM Imaging of Atomic Defects on the Rutile TiO <sub>2</sub> (110) Surface. <i>Springer Series in Surface Sciences</i> , 2015, , 241-272.	0.3	2
62	Electronic Structure of Epitaxial Single-Layer MoS <sub>2</sub> . <i>Physical Review Letters</i> , 2015, 114, 046802.	2.9	140
63	Interface Controlled Oxidation States in Layered Cobalt Oxide Nanoislands on Gold. <i>ACS Nano</i> , 2015, 9, 2445-2453.	7.3	78
64	<i>In Situ</i> Detection of Active Edge Sites in Single-Layer MoS <sub>2</sub> Catalysts. <i>ACS Nano</i> , 2015, 9, 9322-9330.	7.3	144
65	Coexistence of Square Pyramidal Structures of Oxo Vanadium (+5) and (+4) Species Over Low-Coverage VO <sub>x</sub> /TiO <sub>2</sub> (101) and (001) Anatase Catalysts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 23445-23452.	1.5	34
66	Synthesis of Epitaxial Single-Layer MoS <sub>2</sub> on Au(111). <i>Langmuir</i> , 2015, 31, 9700-9706.	1.6	119
67	Observation of Ultrafast Free Carrier Dynamics in Single Layer MoS <sub>2</sub> . <i>Nano Letters</i> , 2015, 15, 5883-5887.	4.5	138
68	Enhanced wetting of Cu on ZnO by migration of subsurface oxygen vacancies. <i>Nature Communications</i> , 2015, 6, 8845.	5.8	57
69	Nucleation and growth of Pt nanoparticles on reduced and oxidized rutile TiO <sub>2</sub> (110). <i>Journal of Chemical Physics</i> , 2014, 141, 214702.	1.2	27
70	Morphology and Atomic-Scale Structure of MoS <sub>2</sub> Nanoclusters Synthesized with Different Sulfiding Agents. <i>Topics in Catalysis</i> , 2014, 57, 207-214.	1.3	39
71	Formation and sintering of Pt nanoparticles on vicinal rutile TiO <sub>2</sub> surfaces. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 21289-21299.	1.3	17
72	Atomic Structure of a Spinel-Like Transition Al <sub>2</sub> O <sub>3</sub> on TiO <sub>2</sub> (110) Surfaces. <i>Journal of Physical Chemistry C</i> , 2014, 118, 10610-10619.	2.9	13

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73	Monolayer Iron Carbide Films on Au(111) as a Fischer-Tropsch Model Catalyst. ACS Catalysis, 2014, 4, 3255-3260.	5.5	14
74	Structure and Electronic Properties of <i>In Situ</i> Synthesized Single-Layer MoS <sub>2</sub> on a Gold Surface. ACS Nano, 2014, 8, 6788-6796.	7.3	136
75	Stabilization mechanism for the polar ZnO(0001) surface. Physical Review B, 2013, 87, 115404.	1.1	77
76	MoS <sub>2</sub> nanoparticle morphologies in hydrodesulfurization catalysis studied by scanning tunneling microscopy. Journal of Catalysis, 2013, 308, 306-318.	3.1	101
77	Morphology and atomic-scale structure of single-layer WS <sub>2</sub> nanoclusters. Physical Chemistry Chemical Physics, 2013, 15, 15971.	1.3	65
78	Quantification of tip-broadening in non-contact atomic force microscopy with carbon nanotube tips. Nanotechnology, 2012, 23, 405705.	1.3	24
79	Non-contact atomic force microscopy study of hydroxyl groups on the spinel MgAl <sub>2</sub> O <sub>4</sub> (100) surface. Nanotechnology, 2012, 23, 325703.	1.3	19
80	Atomic-scale insight into adsorption of sterically hindered dibenzothiophenes on MoS <sub>2</sub> and CoMoS hydrotreating catalysts. Journal of Catalysis, 2012, 295, 146-154.	3.1	116
81	Al <sub>2</sub> O <sub>3</sub> (112̄,0) surface as a template for the ordered growth of Ni and Co nanoclusters. Physical Chemistry Chemical Physics, 2012, 14, 2092.	1.3	11
82	Effect of Particle Morphology on the Ripening of Supported Pt Nanoparticles. Journal of Physical Chemistry C, 2012, 116, 5646-5653.	1.5	61
83	Noncontact atomic force microscopy study of the spinel MgAl <sub>2</sub> O <sub>4</sub> (111) surface. Beilstein Journal of Nanotechnology, 2012, 3, 192-197.	1.5	13
84	Stabilization Principles for Polar Surfaces of ZnO. ACS Nano, 2011, 5, 5987-5994.	7.3	144
85	Spectroscopy, microscopy and theoretical study of NO adsorption on MoS <sub>2</sub> and CoMoS hydrotreating catalysts. Journal of Catalysis, 2011, 279, 337-351.	3.1	64
86	An atomic-scale investigation of carbon in MoS <sub>2</sub> hydrotreating catalysts sulfided by organosulfur compounds. Journal of Catalysis, 2011, 281, 345-351.	3.1	30
87	Stable Cation Inversion at the MgAl <sub>2</sub> O <sub>4</sub> (111) Surface. ACS Nano, 2011, 5, 1154-1162.	2.9	45
88	Noncontact atomic force microscopy imaging of atomic structure and cation defects of the polar MgAl <sub>2</sub> O <sub>4</sub> (111) surface. Physical Chemistry Chemical Physics, 2011, 13, 1154-1162.	1.1	15
89	Atomic-scale insight into the origin of pyridine inhibition of MoS <sub>2</sub> -based hydrotreating catalysts. Journal of Catalysis, 2010, 271, 280-289.	3.1	67
90	Comparative atomic-scale analysis of promotional effects by late 3d-transition metals in MoS <sub>2</sub> hydrotreating catalysts. Journal of Catalysis, 2010, 272, 195-203.	3.1	108

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91	Enevoldsen <i>et al.</i> Reply: Physical Review Letters, 2010, 104, .	2.9	11
92	Ordering of monodisperse Ni nanoclusters by templating on high-temperature reconstructed $\gamma\text{-Al}_2\text{O}_3(0001)$ . Nanotechnology, 2010, 21, 265602.	1.3	10
93	Atomic resolution non-contact atomic force microscopy of clean metal oxide surfaces. Journal of Physics Condensed Matter, 2010, 22, 263001.	0.7	67
94	Size Threshold in the Dibenzothiophene Adsorption on $\text{MoS}_2$ Nanoclusters. ACS Nano, 2010, 4, 4677-4682.	7.3	158
95	Unravelling the atomic structure of cross-linked (1 $\text{\AA}$ – 2) $\text{TiO}_2(110)$ . Physical Chemistry Chemical Physics, 2010, 12, 12436.	1.3	26
96	Imaging of the Hydrogen Subsurface Site in Rutile $\text{TiO}_2$ . Physical Review Letters, 2009, 102, 136103.	2.9	84
97	The role of tip size and orientation, tip surface relaxations and surface impurities in simultaneous AFM and STM studies on the $\text{TiO}_2(110)$ surface. Nanotechnology, 2009, 20, 264020.	1.3	21
98	Scanning tunneling microscopy studies of $\text{TiO}_2$ -supported hydrotreating catalysts: Anisotropic particle shapes by edge-specific $\text{MoS}_2$ support bonding. Journal of Catalysis, 2009, 263, 98-103.	3.1	61
99	Atomic-scale surface science phenomena studied by scanning tunneling microscopy. Surface Science, 2009, 603, 1315-1327.	0.8	58
100	Atomic-Scale Structure and Stability of the $\text{Al}_2\text{O}_3$ Surface. Physical Review Letters, 2008, 101, 136103.	2.9	58
101	Recent STM, DFT and HAADF-STEM studies of sulfide-based hydrotreating catalysts: Insight into mechanistic, structural and particle size effects. Catalysis Today, 2008, 130, 86-96.	2.2	265
102	Morphology, Dispersion, and Stability of Cu Nanoclusters on Clean and Hydroxylated $\gamma\text{-Al}_2\text{O}_3(0001)$ Substrates. Journal of Physical Chemistry C, 2008, 112, 16953-16960.	1.5	40
103	Scanning tunneling microscopy as a tool to study catalytically relevant model systems. Chemical Society Reviews, 2008, 37, 2191.	18.7	64
104	Atomic-Scale Structure of $\text{MoS}_2$ Nanowires. Nano Letters, 2008, 8, 3928-3931.	4.5	68
105	Detailed scanning probe microscopy tip models determined from simultaneous atom-resolved AFM and STM studies of the $\text{TiO}_2$ surface. Physical Review B, 2008, 78, 115407.	1.1	81
106	Atomic Scale Kelvin Probe Force Microscopy Studies of the Surface Potential Variations on the $\text{TiO}_2$ Surface. Physical Review Letters, 2008, 101, 136103.	2.9	115
107	Restructuring of Cobalt Nanoparticles Induced by Formation and Diffusion of Monodisperse Metal-Sulfur Complexes. Physical Review Letters, 2008, 100, 116104.	2.9	28
108	STM studies of model catalysts. Nano Today, 2007, 2, 30-39.	6.2	46

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109	Size-dependent structure of MoS <sub>2</sub> nanocrystals. <i>Nature Nanotechnology</i> , 2007, 2, 53-58.	15.6	638
110	Location and coordination of promoter atoms in Co- and Ni-promoted MoS <sub>2</sub> -based hydrotreating catalysts. <i>Journal of Catalysis</i> , 2007, 249, 220-233.	3.1	428
111	Noncontact atomic force microscopy studies of vacancies and hydroxyls of $\text{TiO}_2$ . Experiments and atomistic simulations. <i>Physical Review B</i> , 2007, 76, .	1.1	92
112	Cobalt growth on two related close-packed noble metal surfaces. <i>Surface Science</i> , 2007, 601, 1967-1972.	0.8	54
113	Application of Atom-resolved Scanning Tunneling Microscopy in Catalysis Research. <i>Nanoscience and Technology</i> , 2007, , 197-224.	1.5	1
114	Cluster-Support Interactions and Morphology of MoS <sub>2</sub> Nanoclusters in a Graphite-Supported Hydrotreating Model Catalyst. <i>Journal of the American Chemical Society</i> , 2006, 128, 13950-13958.	6.6	172
115	Model Catalyst Surfaces Investigated by Scanning Tunneling Microscopy. <i>Advances in Catalysis</i> , 2006, 50, 97-147.	0.1	68
116	Chemical identification of point defects and adsorbates on a metal oxide surface by atomic force microscopy. <i>Nanotechnology</i> , 2006, 17, 3436-3441.	1.3	149
117	From atom-resolved scanning tunneling microscopy (STM) studies to the design of new catalysts. <i>Catalysis Today</i> , 2006, 111, 34-43.	2.2	68
118	The role of reaction pathways and support interactions in the development of high activity hydrotreating catalysts. <i>Catalysis Today</i> , 2005, 107-108, 12-22.	2.2	145
119	Atomic-scale insight into structure and morphology changes of MoS <sub>2</sub> nanoclusters in hydrotreating catalysts. <i>Journal of Catalysis</i> , 2004, 221, 510-522.	3.1	379
120	Hydrodesulfurization reaction pathways on MoS <sub>2</sub> nanoclusters revealed by scanning tunneling microscopy. <i>Journal of Catalysis</i> , 2004, 224, 94-106.	3.1	308
121	Chemistry of one-dimensional metallic edge states in MoS <sub>2</sub> nanoclusters. <i>Nanotechnology</i> , 2003, 14, 385-389.	1.3	212
122	Atomic-Scale Structure of Co-MoS <sub>2</sub> Nanoclusters in Hydrotreating Catalysts. <i>Journal of Catalysis</i> , 2001, 197, 1-5.	3.1	331
123	One-Dimensional Metallic Edge States in MoS <sub>2</sub> . <i>Physical Review Letters</i> , 2001, 87, 196803.	2.9	563
124	Atomic-Scale Structure of Single-Layer MoS <sub>2</sub> Nanoclusters. <i>Physical Review Letters</i> , 2000, 84, 951-954.	2.9	801