

Jouko Lahtinen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2966140/publications.pdf>

Version: 2024-02-01

121
papers

4,030
citations

101384

36
h-index

138251

58
g-index

124
all docs

124
docs citations

124
times ranked

5173
citing authors

#	ARTICLE	IF	CITATIONS
1	Dumbbell-Shaped Ternary Transition-Metal (Cu, Ni, Co) Phosphate Bundles: A Promising Catalyst for the Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 6570-6581.	4.0	24
2	Inkjet-Printed Ternary Oxide Dielectric and Doped Interface Layer for Metal-Oxide Thin-Film Transistors with Low Voltage Operation. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100728.	1.9	16
3	Electronic and Magnetic Characterization of Epitaxial CrBr ₃ Monolayers on a Superconducting Substrate. <i>Advanced Materials</i> , 2021, 33, e2006850.	11.1	38
4	Giant anisotropic photonics in the 1D van der Waals semiconductor fibrous red phosphorus. <i>Nature Communications</i> , 2021, 12, 4822.	5.8	32
5	Understanding the Stabilizing Effects of Nanoscale Metal Oxide and Li-Metal Oxide Coatings on Lithium-Ion Battery Positive Electrode Materials. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 42773-42790.	4.0	18
6	Tuning of Emission Wavelength of CaS:Eu by Addition of Oxygen Using Atomic Layer Deposition. <i>Materials</i> , 2021, 14, 5966.	1.3	2
7	Effect of Polishing on Electrochemical Behavior and Passive Layer Composition of Different Stainless Steels. <i>Materials</i> , 2020, 13, 3402.	1.3	12
8	Raman fingerprints and exciton-phonon coupling in 2D ternary layered semiconductor InSeBr. <i>Applied Physics Letters</i> , 2020, 116, 163105.	1.5	3
9	Liquid-phase Hydrodeoxygenation of 4-Propylphenol to Propylbenzene: Reducible Supports for Pt Catalysts. <i>ChemCatChem</i> , 2020, 12, 4090-4104.	1.8	9
10	Mimicking Neurotransmitter Release and Long-Term Plasticity by Oxygen Vacancy Migration in a Tunnel Junction Memristor. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900036.	3.3	17
11	Highly Luminescent Gold Nanocluster Frameworks. <i>Advanced Optical Materials</i> , 2019, 7, 1900620.	3.6	42
12	Noble copper-silver-gold trimetallic nanobowls: An efficient catalyst. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 140-146.	5.0	22
13	Nickel Supported on Mesoporous Zirconium Oxide by Atomic Layer Deposition: Initial Fixed-Bed Reactor Study. <i>Topics in Catalysis</i> , 2019, 62, 611-620.	1.3	11
14	Size- and density-controlled photodeposition of metallic platinum nanoparticles on titanium dioxide for photocatalytic applications. <i>Journal of Materials Chemistry A</i> , 2019, 7, 14519-14525.	5.2	20
15	Microstructural Characteristics of Vehicle-Aged Heavy-Duty Diesel Oxidation Catalyst and Natural Gas Three-Way Catalyst. <i>Catalysts</i> , 2019, 9, 137.	1.6	11
16	Promoting effect of H ₂ S on the performance of ZrO ₂ and La ₂ O ₃ -ZrO ₂ catalysts in biomass gasification gas clean-up. <i>Applied Catalysis A: General</i> , 2018, 556, 172-179.	2.2	5
17	Atomic Layer Deposition of Conducting CuS Thin Films from Elemental Sulfur. <i>Advanced Materials Interfaces</i> , 2018, 5, 1701366.	1.9	15
18	One-Pot Synthesis of Au Embedded ZnO Nanorods Composite Heterostructures with Excellent Photocatalytic Properties. <i>ChemistrySelect</i> , 2018, 3, 7882-7890.	0.7	17

#	ARTICLE	IF	CITATIONS
19	Titania nanotubes prepared by rapid breakdown anodization for photocatalytic decolorization of organic dyes under UV and natural solar light. <i>Nanoscale Research Letters</i> , 2018, 13, 179.	3.1	14
20	The Impact of Sulphur, Phosphorus and their Co-effect on Pt/SiO ₂ -ZrO ₂ Diesel Oxidation Catalysts. <i>Topics in Catalysis</i> , 2017, 60, 307-311.	1.3	6
21	Crystal quality of two-dimensional gallium telluride and gallium selenide using Raman fingerprint. <i>AIP Advances</i> , 2017, 7, .	0.6	43
22	Phosphorus adlayers on Platinum (110). <i>Surface Science</i> , 2017, 664, 216-221.	0.8	1
23	Electron microscopic studies of natural gas oxidation catalyst – Effects of thermally accelerated aging on catalyst microstructure. <i>Journal of Catalysis</i> , 2017, 349, 19-29.	3.1	10
24	Straightforward synthesis of nitrogen-doped carbon nanotubes as highly active bifunctional electrocatalysts for full water splitting. <i>Journal of Catalysis</i> , 2017, 353, 19-27.	3.1	105
25	Deactivation of Pt/SiO ₂ -ZrO ₂ diesel oxidation catalysts by sulphur, phosphorus and their combinations. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 409-419.	10.8	20
26	Optimizing the sputter deposition process of polymers for the Storing Matter technique using PMMA. <i>Journal of Mass Spectrometry</i> , 2016, 51, 889-899.	0.7	0
27	The Influence of Phosphorus Exposure on a Natural-Gas-Oxidation Catalyst. <i>Topics in Catalysis</i> , 2016, 59, 1044-1048.	1.3	4
28	Accelerated deactivation studies of the natural-gas oxidation catalyst – Verifying the role of sulfur and elevated temperature in catalyst aging. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 439-448.	10.8	24
29	Carbon nanotube (CNT) forest grown on diamond-like carbon (DLC) thin films significantly improves electrochemical sensitivity and selectivity towards dopamine. <i>Sensors and Actuators B: Chemical</i> , 2015, 211, 177-186.	4.0	52
30	Characterization of a Hexagonal Phosphorus Adlayer on Platinum (111). <i>Journal of Physical Chemistry C</i> , 2015, 119, 12291-12297.	1.5	7
31	Core-shell ZnO@CuInS ₂ hexagonal nanopylramids with improved photo-conversion efficiency. <i>Solar Energy Materials and Solar Cells</i> , 2015, 143, 326-334.	3.0	11
32	The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts – Part I: Activity Measurements, Elementary and Surface Analyses. <i>Topics in Catalysis</i> , 2015, 58, 961-970.	1.3	17
33	The Effect of Phosphorus Exposure on Diesel Oxidation Catalysts – Part II: Characterization of Structural Changes by Transmission Electron Microscopy. <i>Topics in Catalysis</i> , 2015, 58, 971-976.	1.3	12
34	XPS depth profiling analysis of passive surface layers formed on austenitic AISI 304L and AISI 316L SS after high-current-density electropolishing. <i>Surface and Coatings Technology</i> , 2015, 276, 516-520.	2.2	49
35	Experimental and Numerical Study of Submonolayer Sputter Deposition of Polystyrene Fragments on Silver for the Storing Matter Technique. <i>Analytical Chemistry</i> , 2014, 86, 11217-11225.	3.2	4
36	Adsorption of maleic anhydride on Pt(111). <i>Surface Science</i> , 2014, 620, 9-16.	0.8	2

#	ARTICLE	IF	CITATIONS
37	Structural Characteristics of Natural-Gas-Vehicle-Aged Oxidation Catalyst. Topics in Catalysis, 2013, 56, 576-585.	1.3	27
38	Deactivation of Diesel Oxidation Catalysts by Sulphur in Laboratory and Engine-Bench Scale Aging. Topics in Catalysis, 2013, 56, 672-678.	1.3	14
39	Bright white light emitting Eu and Tb co-doped monodisperse In ₂ O ₃ nanocrystals. Journal of Materials Chemistry C, 2013, 1, 5557.	2.7	52
40	Structure and local variations of the graphene moiré on Ir(111). Physical Review B, 2013, 88, .	1.1	57
41	Hybrid Colloidal Au-CdSe Pentapod Heterostructures Synthesis and Their Photocatalytic Properties. ACS Applied Materials & Interfaces, 2012, 4, 6266-6272.	4.0	118
42	Self-Assembly of Cobalt-Phthalocyanine Molecules on Epitaxial Graphene on Ir(111). Journal of Physical Chemistry C, 2012, 116, 20433-20437.	1.5	74
43	Enhanced magnetic and dielectric properties of Eu and Co co-doped BiFeO ₃ nanoparticles. Applied Physics Letters, 2012, 101, 042401.	1.5	192
44	Optical and structural properties of SiO _x films grown by molecular beam deposition: Effect of the Si concentration and annealing temperature. Journal of Applied Physics, 2012, 112, .	1.1	24
45	Topographic and electronic contrast of the graphene moiré on Ir(111) probed by scanning tunneling microscopy and noncontact atomic force microscopy. Physical Review B, 2011, 83, .	1.1	46
46	The Effect of Sulphur and Water Treatments on the Performance of Pd/Î ² -Zeolite Diesel Oxidation Catalysts. Topics in Catalysis, 2011, 54, 1185-1189.	1.3	3
47	Optical and structural properties of silicon-rich silicon oxide films: Comparison of ion implantation and molecular beam deposition methods. Physica Status Solidi (A) Applications and Materials Science, 2011, 208, 2176-2181.	0.8	11
48	The activity of Pt/Al ₂ O ₃ diesel oxidation catalyst after sulphur and calcium treatments. Catalysis Today, 2010, 154, 303-307.	2.2	34
49	Selective Covalent Functionalization of Carbon Nanobuds. Chemistry of Materials, 2010, 22, 4347-4349.	3.2	16
50	Direct evidence on reduced adhesion of Salbutamol sulphate particles due to L-leucine coating. Powder Technology, 2009, 192, 6-11.	2.1	22
51	The Effect of SO ₂ and H ₂ O on the Activity of Pd/CeO ₂ and Pd/ZrO ₂ -CeO ₂ Diesel Oxidation Catalysts. Topics in Catalysis, 2009, 52, 2025-2028.	1.3	16
52	Light-emission mechanism of thermally annealed silicon-rich silicon oxide revisited: What is the role of silicon nanocrystals?. Applied Physics Letters, 2009, 94, 043115.	1.5	27
53	Characterization and gas-sensing behavior of an iron oxide thin film prepared by atomic layer deposition. Thin Solid Films, 2008, 516, 6110-6115.	0.8	73
54	Optical properties of silicon nanocrystals in silica: Results from spectral filtering effect, m-line technique, and x-ray photoelectron spectroscopy. Journal of Applied Physics, 2008, 104, .	1.1	21

#	ARTICLE	IF	CITATIONS
55	Aspects of using the factor analysis for XPS data interpretation. <i>Surface Science</i> , 2007, 601, 479-489.	0.8	18
56	Preparation and structure of alumina supported niobia model catalysts. <i>Surface Science</i> , 2007, 601, 5605-5610.	0.8	7
57	XPS study on the correlation between chemical state and oxygen-sensing properties of an iron oxide thin film. <i>Applied Surface Science</i> , 2007, 253, 9476-9482.	3.1	59
58	Adhesion as an interplay between particle size and surface roughness. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 524-529.	5.0	192
59	Experimental humidity dependency of small particle adhesion on silica and titania. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 518-523.	5.0	69
60	Coadsorption of CO and C ₆ H ₆ on Co(0001). <i>Surface Science</i> , 2005, 584, 70-76.	0.8	4
61	Chemical state quantification of iron and chromium oxides using XPS: the effect of the background subtraction method. <i>Surface Science</i> , 2005, 578, 108-123.	0.8	272
62	Methanol on Co(0001): XPS, TDS, WF and LEED results. <i>Surface Science</i> , 2005, 598, 128-135.	0.8	32
63	An XPS study of CrO _x on a thin alumina film and in alumina supported catalysts. <i>Applied Surface Science</i> , 2005, 252, 1076-1083.	3.1	34
64	LEED and DFT investigation on the (2 $\sqrt{3}$ –2)-S overlayer on Co(0001). <i>Surface Science</i> , 2005, 599, 113-121.	0.8	22
65	Towards an accurate description of the capillary force in nanoparticle-surface interactions. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2005, 13, 1175-1186.	0.8	154
66	Wavelength-selective optical waveguiding of photoluminescence in a thermally annealed Si/SiO ₂ superlattice. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 3219-3228.	0.7	16
67	Deposition of platinum into beta-zeolite. <i>Studies in Surface Science and Catalysis</i> , 2004, 154, 1708-1713.	1.5	4
68	Characterization of iron oxide thin films. <i>Surface and Interface Analysis</i> , 2004, 36, 1004-1006.	0.8	106
69	Pull-off test in the assessment of adhesion at printed wiring board metallisation/epoxy interface. <i>Microelectronics Reliability</i> , 2004, 44, 993-1007.	0.9	63
70	The adsorption structure on Co{0001}: a combined Tensor LEED and DFT study. <i>Surface Science</i> , 2004, 572, 1-10.	0.8	13
71	Sulfur poisoning of the CO adsorption on Co(0001). <i>Surface Science</i> , 2004, 573, 183-190.	0.8	26
72	Platinum catalysts on alumina and silica prepared by gas- and liquid- phase deposition in cinnamaldehyde hydrogenation. <i>Applied Catalysis A: General</i> , 2004, 276, 129-137.	2.2	45

#	ARTICLE	IF	CITATIONS
73	Tunable wavelength-selective waveguiding of photoluminescence in Si-rich silica optical wedges. <i>Journal of Applied Physics</i> , 2004, 95, 7592-7601.	1.1	22
74	Hydrogen on Cobalt: The Effects of Carbon Monoxide and Sulphur Additives on the D2/Co(0001) System. <i>Physica Scripta</i> , 2004, , 77.	1.2	17
75	Interaction of oxygen with chromium deposited on Al ₂ O ₃ /NiAl(110). <i>Surface Science</i> , 2003, 532-535, 396-401.	0.8	16
76	Deposition of palladium and ruthenium η^2 -diketonates on alumina and silica supports in gas and liquid phase. <i>Applied Catalysis A: General</i> , 2003, 241, 51-63.	2.2	40
77	Reduction of chromia/alumina catalyst monitored by DRIFTS-mass spectrometry and TPR-Raman spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 4371-4377.	1.3	36
78	Initial Growth of Co on Cu{001} Studied with LEED I(V). <i>Surface Review and Letters</i> , 2003, 10, 641-648.	0.5	2
79	Chromium deposition on ordered alumina films: An x-ray photoelectron spectroscopy study of the interaction with oxygen. <i>Journal of Chemical Physics</i> , 2002, 116, 3870-3874.	1.2	17
80	An experimental study on adsorption of benzene on Co(0001). <i>Surface Science</i> , 2002, 507-510, 57-61.	0.8	11
81	Thermal annealing of Si/SiO ₂ materials: Modification of structural and photoluminescence emission properties. <i>Journal of Applied Physics</i> , 2002, 92, 5856-5862.	1.1	62
82	Adsorption of HgCl ₂ molecules on Au(111) surfaces studied by scanning tunneling microscopy. <i>Journal of Chemical Physics</i> , 2001, 115, 3763-3768.	1.2	1
83	LEED investigations on Co(0001): The $(2\sqrt{3}\times 2)\sqrt{3}$ (K+2CO) overlayer. <i>Physical Review B</i> , 2001, 63, .	1.1	6
84	LEED investigations on Co(0001): the overlayer. <i>Surface Science</i> , 2000, 448, 269-278.	0.8	59
85	1,3- and 1,4-cyclohexadiene reaction intermediates in cyclohexene hydrogenation and dehydrogenation on Pt(111) crystal surface: a combined reaction kinetics and surface vibrational spectroscopy study using sum frequency generation. <i>Journal of Molecular Catalysis A</i> , 1999, 141, 9-19.	4.8	48
86	LEED investigations on Co(0001): the clean surface and the $(2\sqrt{3}\times 2)$ -K overlayer. <i>Surface Science</i> , 1999, 425, 90-100.	0.8	22
87	Title is missing!. <i>Catalysis Letters</i> , 1998, 54, 9-15.	1.4	49
88	The effects of promoters in carbon monoxide hydrogenation on cobalt foil model catalysts. <i>Journal of Molecular Catalysis A</i> , 1998, 130, 255-260.	4.8	21
89	Adsorption of Potassium on Co(0001). <i>Surface Science</i> , 1998, 395, 88-97.	0.8	20
90	Adsorption and structure dependent desorption of CO on Co(0001). <i>Surface Science</i> , 1998, 418, 502-510.	0.8	120

#	ARTICLE	IF	CITATIONS
91	Characterization of Alumina-Supported Model Catalysts Using Positronium Lifetime Technique. <i>Journal of Physical Chemistry B</i> , 1997, 101, 1609-1614.	1.2	17
92	The adsorption and decomposition of acetylene on clean and K-covered Co(0001). <i>Catalysis Letters</i> , 1997, 44, 43-49.	1.4	65
93	An XPD and ISS study of the (2 Å ⁻²)-(CO + K) coadsorption structure on Co(0001). <i>Surface Science</i> , 1996, 346, 1-10.	0.8	22
94	A bimetallic Ru ₃ Co surface prepared by Ru ₃ (CO) ₁₂ adsorption on Co(0001). <i>Surface Science</i> , 1996, 346, 11-17.	0.8	10
95	Synchrotron Section Topographic Study of Czochralski-Grown Silicon Wafers for Advanced Memory Circuits. <i>Journal of the Electrochemical Society</i> , 1995, 142, 1699-1701.	1.3	9
96	Reactions of CO and NO on Mg promoted cobalt. <i>Applied Surface Science</i> , 1995, 89, 103-111.	3.1	0
97	Preparation and characterization of Co/SiO ₂ , Co-Mg/SiO ₂ and Mg-Co/SiO ₂ catalysts and their activity in CO hydrogenation. <i>Topics in Catalysis</i> , 1995, 2, 45-57.	1.3	33
98	Monte Carlo simulations combined with UHV-atmospheric pressure reaction studies on CO hydrogenation on cobalt. <i>Topics in Catalysis</i> , 1995, 2, 173-181.	1.3	1
99	An XPS study of metallic three-way catalysts: The effect of additives on platinum, rhodium, and cerium. <i>Applied Catalysis B: Environmental</i> , 1995, 5, 221-231.	10.8	49
100	Monte Carlo study of CO hydrogenation on cobalt model catalysts. <i>Journal of Chemical Physics</i> , 1995, 102, 7674-7682.	1.2	10
101	Growth of silicon carbide on (100) silicon substrates by molecular beam epitaxy. <i>Physica Scripta</i> , 1994, T54, 205-207.	1.2	2
102	Reactive and thermal properties of CO on potassium-covered polycrystalline cobalt. <i>Applied Surface Science</i> , 1994, 78, 255-267.	3.1	8
103	Adsorption of CO on Mg-promoted Co(poly). <i>Applied Surface Science</i> , 1994, 81, 289-297.	3.1	11
104	Role of readsorption during CO hydrogenation over cobalt model catalysts. <i>Journal of Molecular Catalysis</i> , 1994, 91, 387-397.	1.2	9
105	C, CO and CO ₂ hydrogenation on cobalt foil model catalysts: evidence for the need of CoO reduction. <i>Catalysis Letters</i> , 1994, 25, 241-255.	1.4	43
106	Monte-Carlo simulations of CO hydrogenation on a (0001) surface. <i>Surface Science</i> , 1994, 311, 331-336.	0.8	4
107	Carbon Monoxide Hydrogenation on Cobalt Foil and on Thin Cobalt Film Model Catalysts. <i>Journal of Catalysis</i> , 1993, 142, 206-225.	3.1	33
108	Growth and oxidation of Mg films on polycrystalline cobalt. <i>Surface Science</i> , 1992, 277, 253-262.	0.8	10

#	ARTICLE	IF	CITATIONS
109	Studies of Mg-O overlayers on Co(0001): growth mode and CO chemisorption properties. Surface Science, 1991, 245, 244-254.	0.8	30
110	Promotion of CO dissociation by magnesia on Co(0001). Surface Science, 1991, 251-252, 1096-1099.	0.8	13
111	Applications of positron techniques to surface studies and catalysis. Catalysis Letters, 1991, 8, 67-100.	1.4	17
112	Hydrogenation of CO ₂ , acetone, and CO on a Rh foil promoted by titania overlayers. Catalysis Letters, 1990, 5, 385-394.	1.4	46
113	Adsorption and desorption measurements of CO and O ₂ on cobalt. Vacuum, 1990, 41, 112-114.	1.6	37
114	Defect formation in H implantation of crystalline Si. Physical Review B, 1988, 37, 8269-8277.	1.1	106
115	Sputtering damage in Mo(111) studied with slow positrons and computer simulations. Journal of Physics F: Metal Physics, 1987, 17, 1477-1490.	1.6	24
116	Hydrogen-implantation-induced damage in silicon. Physical Review B, 1987, 36, 1344-1347.	1.1	34
117	Vacancy-type defect distributions near argon sputtered Al(100) surface studied by variable-energy positrons and molecular dynamics simulations. Surface Science, 1986, 175, 385-414.	0.8	46
118	High-intensity variable-energy positron beam for surface and near-surface studies. Nuclear Instruments & Methods in Physics Research B, 1986, 17, 73-80.	0.6	45
119	Near-surface defect profiling with slow positrons: Argon-sputtered Al(110). Physical Review B, 1985, 32, 7561-7563.	1.1	39
120	Determination of the L _{2,3} -X-Ray Multiplet Structure in Na, Mg, and Al. Physica Scripta, 1983, 28, 188-192.	1.2	20
121	Electron Double Ionization Cross Section in Sodium Obtained from K α Hypersatellite Spectra. Physica Scripta, 1983, 27, 334-338.	1.2	10