

# Mikko Heikkil

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

81  
papers

1,641  
citations

22  
h-index

37  
g-index

83  
ext. papers

1,831  
ext. citations

4.4  
avg, IF

4.48  
L-index

#	Paper	IF	Citations
81	Atomic Layer Deposition of High-k Oxides of the Group 4 Metals for Memory Applications. <i>Advanced Engineering Materials</i> , <b>2009</b> , 11, 223-234	3.5	105
80	Atomic layer deposition of TiO <sub>2</sub> /N <sub>x</sub> thin films for photocatalytic applications. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2006</b> , 177, 68-75	4.7	105
79	Thermal study on electrospun polyvinylpyrrolidone/ammonium metatungstate nanofibers: optimising the annealing conditions for obtaining WO <sub>3</sub> nanofibers. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2011</b> , 105, 73-81	4.1	79
78	Lithium Phosphate Thin Films Grown by Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , <b>2012</b> , 159, A259-A263	3.9	77
77	Atomic layer deposition and characterization of vanadium oxide thin films. <i>RSC Advances</i> , <b>2013</b> , 3, 1179-1185	3.75	65
76	Studies on atomic layer deposition of MOF-5 thin films. <i>Microporous and Mesoporous Materials</i> , <b>2013</b> , 182, 147-154	5.3	58
75	Photocatalytic Properties of WO <sub>3</sub> /TiO <sub>2</sub> Core/Shell Nanofibers prepared by Electrospinning and Atomic Layer Deposition. <i>Chemical Vapor Deposition</i> , <b>2013</b> , 19, 149-155		58
74	Atomic layer deposition of Ge <sub>2</sub> Sb <sub>2</sub> Te <sub>5</sub> thin films. <i>Microelectronic Engineering</i> , <b>2009</b> , 86, 1946-1949	2.5	58
73	Effect of thickness of ALD grown TiO <sub>2</sub> films on photoelectrocatalysis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>2009</b> , 204, 200-208	4.7	58
72	Noble metal-modified TiO <sub>2</sub> thin film photocatalyst on porous steel fiber support. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 95, 358-364	21.8	53
71	Amphiphilic and phase-separable ionic liquids for biomass processing. <i>ChemSusChem</i> , <b>2014</b> , 7, 1422-34	8.3	48
70	Evaluation and Comparison of Novel Precursors for Atomic Layer Deposition of Nb <sub>2</sub> O <sub>5</sub> Thin Films. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 975-980	9.6	41
69	Suppression of Forward Electron Injection from Ru(dcbpy) <sub>2</sub> (NCS) <sub>2</sub> to Nanocrystalline TiO <sub>2</sub> Film As a Result of an Interfacial Al <sub>2</sub> O <sub>3</sub> Barrier Layer Prepared with Atomic Layer Deposition. <i>Journal of Physical Chemistry Letters</i> , <b>2010</b> , 1, 536-539	6.4	38
68	Atomic Layer Deposition of Aluminum and Titanium Phosphates. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 5920-5925	3.8	31
67	Advanced low-temperature ceramic nanocomposite fuel cells using ultra high ionic conductivity electrolytes synthesized through freeze-dried method and solid-route. <i>Materials Today Energy</i> , <b>2017</b> , 5, 338-346	7	30
66	Atomic Layer Deposition of Ta <sub>2</sub> O <sub>5</sub> /Polyimide Nanolaminates. <i>Chemical Vapor Deposition</i> , <b>2009</b> , 15, 221-226		30
65	Microwave-assisted base-free oxidation of glucose on gold nanoparticle catalysts. <i>Catalysis Communications</i> , <b>2016</b> , 74, 115-118	3.2	29

64	Atomic Layer Deposition of AlF <sub>3</sub> Thin Films Using Halide Precursors. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 604-611	9.6	27
63	Binary TiO <sub>2</sub> /SiO <sub>2</sub> nanoparticle coating for controlling the wetting properties of paperboard. <i>Materials Chemistry and Physics</i> , <b>2015</b> , 149-150, 230-237	4.4	25
62	Mechanical properties of aluminum, zirconium, hafnium and tantalum oxides and their nanolaminates grown by atomic layer deposition. <i>Surface and Coatings Technology</i> , <b>2015</b> , 282, 36-42	4.4	24
61	Atomic Layer Deposition of Iridium Thin Films Using Sequential Oxygen and Hydrogen Pulses. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 15235-15243	3.8	23
60	The structure and the photocatalytic activity of titania based nanotube and nanofiber coatings. <i>Applied Surface Science</i> , <b>2016</b> , 368, 165-172	6.7	22
59	Atomic layer deposition of crystalline molybdenum oxide thin films and phase control by post-deposition annealing. <i>Materials Today Chemistry</i> , <b>2018</b> , 9, 17-27	6.2	22
58	Atomic layer deposition and properties of mixed Ta <sub>2</sub> O <sub>5</sub> and ZrO <sub>2</sub> films. <i>AIP Advances</i> , <b>2017</b> , 7, 025001	1.5	21
57	Diamine Adduct of Cobalt(II) Chloride as a Precursor for Atomic Layer Deposition of Stoichiometric Cobalt(II) Oxide and Reduction Thereof to Cobalt Metal Thin Films. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 3499-3507 <sup>21</sup>	8.6	21
56	Chemical vapour deposition of In <sub>2</sub> O <sub>3</sub> thin films from a tris-guanidinate indium precursor. <i>Dalton Transactions</i> , <b>2011</b> , 40, 9425-30	4.3	21
55	Cellulose fatty acid esters as sustainable film materials Effect of side chain structure on barrier and mechanical properties. <i>RSC Advances</i> , <b>2015</b> , 5, 80702-80708	3.7	20
54	Atomic Layer Deposition of Photoconductive CuO Thin Films. <i>ACS Omega</i> , <b>2019</b> , 4, 11205-11214	3.9	19
53	Impedance spectroscopy study of the unipolar and bipolar resistive switching states of atomic layer deposited polycrystalline ZrO <sub>2</sub> thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2015</b> , 212, 751-766	1.6	18
52	Bioinspired synthesis of superhydrophobic coatings. <i>Langmuir</i> , <b>2008</b> , 24, 10625-8	4	18
51	Studies on atomic layer deposition of IRMOF-8 thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2015</b> , 33, 01A121	2.9	17
50	Atomic Layer Deposition of Materials for Phase-Change Memories. <i>ECS Transactions</i> , <b>2009</b> , 25, 399-407	1	17
49	Bismuth iron oxide thin films using atomic layer deposition of alternating bismuth oxide and iron oxide layers. <i>Thin Solid Films</i> , <b>2016</b> , 611, 78-87	2.2	16
48	Facile open air oxidation of benzylic alcohols in distilled water by in situ made copper(II) complexes. <i>Applied Catalysis A: General</i> , <b>2012</b> , 449, 153-162	5.1	16
47	In Situ Reaction Mechanism Studies on Atomic Layer Deposition of Al <sub>x</sub> Si <sub>y</sub> O <sub>z</sub> from Trimethylaluminium, Hexakis(ethylamino)disilane, and Water. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 3859-3867 <sup>9.6</sup>	9.6	16

46	Role of ALD AlO Surface Passivation on the Performance of p-Type CuO Thin Film Transistors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 4156-4164	9.5	15
45	Thermal ageing and short-range ordering of Alloy 690 between 350 and 550 °C. <i>Journal of Nuclear Materials</i> , <b>2017</b> , 485, 56-66	3.3	14
44	Isosorbide synthesis from cellulose with an efficient and recyclable ruthenium catalyst. <i>Green Chemistry</i> , <b>2017</b> , 19, 4563-4570	10	14
43	Study of atomic layer deposited ZrO <sub>2</sub> and ZrO <sub>2</sub> /TiO <sub>2</sub> films for resistive switching application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2014</b> , 211, 301-309	1.6	13
42	Mechanical strength and water resistance of paperboard coated with long chain cellulose esters. <i>Packaging Technology and Science</i> , <b>2011</b> , 24, 249-258	2.3	13
41	Van der Waals epitaxy of continuous thin films of 2D materials using atomic layer deposition in low temperature and low vacuum conditions. <i>2D Materials</i> , <b>2020</b> , 7, 011003	5.9	13
40	Zeolitic imidazole Framework-8 (ZIF-8) fibers by gas-phase conversion of electroblown zinc oxide and aluminum doped zinc oxide fibers. <i>Microporous and Mesoporous Materials</i> , <b>2018</b> , 267, 212-220	5.3	12
39	Optical and Dielectric Characterization of Atomic Layer Deposited Nb <sub>2</sub> O <sub>5</sub> Thin Films. <i>ECS Solid State Letters</i> , <b>2012</b> , 1, N1-N3		12
38	High-performance imido-imido precursor for the atomic layer deposition of Ta <sub>2</sub> O <sub>5</sub> . <i>Semiconductor Science and Technology</i> , <b>2012</b> , 27, 074003	1.8	12
37	Atomic layer deposition and characterization of zirconium oxide/erbium oxide nanolaminates. <i>Thin Solid Films</i> , <b>2010</b> , 519, 666-673	2.2	12
36	Preparation of Lithium Containing Oxides by the Solid State Reaction of Atomic Layer Deposited Thin Films. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 998-1005	9.6	11
35	Electrospinning of calcium carbonate fibers and their conversion to nanocrystalline hydroxyapatite. <i>Materials Science and Engineering C</i> , <b>2014</b> , 45, 469-76	8.3	11
34	Preparation and bioactive properties of nanocrystalline hydroxyapatite thin films obtained by conversion of atomic layer deposited calcium carbonate. <i>Biointerphases</i> , <b>2014</b> , 9, 031008	1.8	11
33	Synthesis, characterisation and application of novel self-assembled comb-like liquid crystalline biphenyl-cellulose as UV absorber for paper. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 639-644		10
32	Studies on aluminium corrosion during and after HF vapour treatment. <i>Microelectronic Engineering</i> , <b>2010</b> , 87, 501-504	2.5	10
31	Intercalation of Lithium Ions from Gaseous Precursors into MnO <sub>2</sub> Thin Films Deposited by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2019</b> , 123, 15802-15814	3.8	9
30	Holmium and titanium oxide nanolaminates by atomic layer deposition. <i>Thin Solid Films</i> , <b>2014</b> , 565, 165-171		9
29	Novel electroblowing synthesis of submicron zirconium dioxide fibers: effect of fiber structure on antimony(V) adsorption. <i>Nanoscale Advances</i> , <b>2019</b> , 1, 4373-4383	5.1	9

28	As <sub>2</sub> S <sub>3</sub> thin films deposited by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 01B114	2.9	8
27	Effect of substrate deformation on functional properties of atomic-layer-deposited TiO <sub>2</sub> coatings on stainless steel. <i>Thin Solid Films</i> , <b>2009</b> , 517, 3797-3805	2.2	8
26	Atomic Layer Deposition and Performance of ZrO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> Thin Films. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, P287-P294	2	8
25	Hierarchical paramecium-like hollow and solid Au/Pt bimetallic nanostructures constructed using goethite as template. <i>Nanotechnology</i> , <b>2010</b> , 21, 395604	3.4	6
24	Experimental constraints on the ordinary chondrite shock darkening caused by asteroid collisions. <i>Astronomy and Astrophysics</i> , <b>2020</b> , 639, A146	5.1	6
23	Studies on Li <sub>3</sub> AlF <sub>6</sub> thin film deposition utilizing conversion reactions of thin films. <i>Thin Solid Films</i> , <b>2017</b> , 636, 26-33	2.2	5
22	Studies on solid state reactions of atomic layer deposited thin films of lithium carbonate with hafnia and zirconia. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 020929	2.9	5
21	Solid-State Conversion of Scandium Phosphate into Scandium Oxide with Sodium Compounds. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 14609-14620	3.9	5
20	Nickel Germanide Thin Films by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2019</b> , 31, 5314-5319	9.6	5
19	Effect of self-assembly via stacking to morphology and crystallinity on tritylated cellulose. <i>Materials Letters</i> , <b>2009</b> , 63, 473-476	3.3	5
18	Atomic Layer Deposition of Nickel Nitride Thin Films using NiCl <sub>2</sub> (TMPDA) and Tert-Butylhydrazine as Precursors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900058	1.6	4
17	Effect of Electrochemical Potential on Stress Corrosion Cracking Susceptibility of EN 1.4301 (AISI 304) Austenitic Stainless Steels in Simulated Hot Black Liquor. <i>Corrosion</i> , <b>2015</b> , 71, 887-894	1.8	4
16	Voltage Controlled Hot Carrier Injection Enables Ohmic Contacts Using Au Island Metal Films on Ge. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 27357-27364	9.5	4
15	Red YO:Eu-Based Electroluminescent Device Prepared by Atomic Layer Deposition for Transparent Display Applications. <i>Materials</i> , <b>2021</b> , 14,	3.5	4
14	Sulphide-induced stress corrosion cracking and hydrogen absorption of copper in deoxygenated water at 90°C. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2021</b> , 72, 317-332	1.6	4
13	Silicon oxide-niobium oxide mixture films and nanolaminates grown by atomic layer deposition from niobium pentaethoxide and hexakis(ethylamino) disilane. <i>Nanotechnology</i> , <b>2020</b> , 31, 195713	3.4	3
12	Phosphopeptide enrichment with stable spatial coordination on a titanium dioxide coated glass slide. <i>Rapid Communications in Mass Spectrometry</i> , <b>2009</b> , 23, 3661-7	2.2	3
11	TlBr purification and single crystal growth for the detector applications. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 633, S72-S74	1.2	3

10	Toward epitaxial ternary oxide multilayer device stacks by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 020602	2.9	3
9	Magnetic properties and resistive switching in mixture films and nanolaminates consisting of iron and silicon oxides grown by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 042405	2.9	2
8	Early stage oxidation behavior of Al- and Si-alloyed stainless steels as well as Ni-based alloys in air at elevated temperatures. <i>Materials and Corrosion - Werkstoffe Und Korrosion</i> , <b>2018</b> , 69, 690-702	1.6	2
7	Atomic Layer Deposition of Zinc Glutarate Thin Films. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700512	4.6	2
6	Atomic layer deposition of TbF <sub>3</sub> thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2021</b> , 39, 022404	2.9	2
5	Al <sub>2</sub> O <sub>3</sub> Thin Films Prepared by a Combined Thermal-Plasma Atomic Layer Deposition Process at Low Temperature for Encapsulation Applications. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900237	1.6	2
4	High-temperature X-ray scattering studies of atomic layer deposited IrO <sub>2</sub> . <i>Journal of Applied Crystallography</i> , <b>2020</b> , 53, 369-380	3.8	1
3	Atomic Layer Deposition of Insulating AlF <sub>3</sub> /Polyimide Nanolaminate Films. <i>Coatings</i> , <b>2021</b> , 11, 355	2.9	1
2	Novel electroblowing synthesis of tin dioxide and composite tin dioxide/silicon dioxide submicron fibers for cobalt(ii) uptake.. <i>RSC Advances</i> , <b>2021</b> , 11, 15245-15257	3.7	0
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