

# Ville Miikkulainen

## List of Publications by Year in descending order

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33  
papers

1,873  
citations

516215

16  
h-index

360668

35  
g-index

35  
all docs

35  
docs citations

35  
times ranked

2851  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ambient pressure x-ray photoelectron spectroscopy setup for synchrotron-based in situ and operando atomic layer deposition research. <i>Review of Scientific Instruments</i> , 2022, 93, 013905.	0.6	9
2	Synchronizing gas injections and time-resolved data acquisition for perturbation-enhanced APXPS experiments. <i>Review of Scientific Instruments</i> , 2021, 92, 044101.	0.6	11
3	Highly Material Selective and Self-Aligned Photo-Assisted Atomic Layer Deposition of Copper on Oxide Materials. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100014.	1.9	6
4	Atomic layer deposition of AlN using atomic layer annealing—Towards high-quality AlN on vertical sidewalls. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2021, 39, .	0.9	15
5	Constructing Spacecraft Components Using Additive Manufacturing and Atomic Layer Deposition: First Steps for Integrated Electric Circuitry. <i>Journal of Aerospace Engineering</i> , 2021, 34, .	0.8	6
6	Understanding the Stabilizing Effects of Nanoscale Metal Oxide and Li—Metal Oxide Coatings on Lithium-Ion Battery Positive Electrode Materials. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 42773-42790.	4.0	18
7	Ionic conductivity in $\text{Li}_x\text{TaO}_y$ thin films grown by atomic layer deposition. <i>Electrochimica Acta</i> , 2020, 361, 137019.	2.6	6
8	Intercalation of Lithium Ions from Gaseous Precursors into $\text{Li}^2\text{-MnO}_2$ Thin Films Deposited by Atomic Layer Deposition. <i>Journal of Physical Chemistry C</i> , 2019, 123, 15802-15814.	1.5	11
9	Photoassisted atomic layer deposition of oxides employing alkoxides as single-source precursors. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2019, 37, .	0.9	7
10	$\text{TiO}_2$ Photocatalyzed Oxidation of Drugs Studied by Laser Ablation Electrospray Ionization Mass Spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2019, 30, 639-646.	1.2	12
11	Towards space-grade 3D-printed, ALD-coated small satellite propulsion components for fluidics. <i>Additive Manufacturing</i> , 2018, 22, 31-37.	1.7	21
12	Enhanced process and composition control for atomic layer deposition with lithium trimethylsilanolate. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2017, 35, .	0.9	11
13	Studies of the Electrochemical Behavior of $\text{Li}_{0.80}\text{Ni}_{0.15}\text{Co}_{0.05}\text{Al}_{0.05}\text{O}_2$ Electrodes Coated with $\text{LiAlO}_2$ . <i>Journal of the Electrochemical Society</i> , 2017, 164, A3266-A3275.	1.3	43
14	$\text{TiO}_2$ Photocatalysis—DESI-MS Rotating Array Platform for High-Throughput Investigation of Oxidation Reactions. <i>Analytical Chemistry</i> , 2017, 89, 11214-11218.	3.2	7
15	(Invited) Photo-Assisted ALD: Process Development and Application Perspectives. <i>ECS Transactions</i> , 2017, 80, 49-60.	0.3	9
16	(Invited) Photo-Assisted ALD: Process Development and Application Perspectives. <i>ECS Meeting Abstracts</i> , 2017, , .	0.0	1
17	Electrical characterization of amorphous $\text{LiAlO}_2$ thin films deposited by atomic layer deposition. <i>RSC Advances</i> , 2016, 6, 60479-60486.	1.7	34
18	Nuclear reaction analysis for H, Li, Be, B, C, N, O and F with an RBS check. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2016, 371, 211-215.	0.6	32

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19	Atomic Layer Deposited Hybrid Organic-Inorganic Aluminates as Potential Low-k Dielectric Materials. Materials Research Society Symposia Proceedings, 2015, 1791, 15-20.	0.1	2
20	Atomic layer deposited lithium aluminum oxide: (In)dependency of film properties from pulsing sequence. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	17
21	Atomic Layer Deposition of Spinel Lithium Manganese Oxide by Film-Body-Controlled Lithium Incorporation for Thin-Film Lithium-Ion Batteries. Journal of Physical Chemistry C, 2014, 118, 1258-1268.	1.5	66
22	Atomic layer deposition of functional films for Li-ion microbatteries. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 357-367.	0.8	51
23	Atomic layer deposition of $\text{Li}_x\text{TiyO}_z$ thin films. RSC Advances, 2013, 3, 7537-7542.	1.7	49
24	Crystallinity of inorganic films grown by atomic layer deposition: Overview and general trends. Journal of Applied Physics, 2013, 113, .	1.1	1,190
25	Controlling the Crystallinity and Roughness of Atomic Layer Deposited Titanium Dioxide Films. Journal of Nanoscience and Nanotechnology, 2011, 11, 8101-8107.	0.9	51
26	(Invited) ALD of Thin Films for Lithium-Ion Batteries. ECS Transactions, 2011, 41, 331-339.	0.3	9
27	Effect of corona pre-treatment on the performance of gas barrier layers applied by atomic layer deposition onto polymer-coated paperboard. Applied Surface Science, 2010, 257, 736-740.	3.1	47
28	Bis(tert-butylimido)-bis(dialkylamido) Complexes of Molybdenum as Atomic Layer Deposition (ALD) Precursors for Molybdenum Nitride: the Effect of the Alkyl Group. Chemical Vapor Deposition, 2008, 14, 71-77.	1.4	25
29	Thin films of MoN, WN, and perfluorinated silane deposited from dimethylamido precursors as contamination resistant coatings on micro-injection mold inserts. Surface and Coatings Technology, 2008, 202, 5103-5109.	2.2	22
30	Molybdenum nitride nanotubes. Thin Solid Films, 2008, 516, 6041-6047.	0.8	17
31	Atomic Layer Deposition as Pore Diameter Adjustment Tool for Nanoporous Aluminum Oxide Injection Molding Masks. Langmuir, 2008, 24, 4473-4477.	1.6	14
32	Atomic Layer Deposition of Molybdenum Nitride from Bis(tert-butylimido)-bis(dimethylamido)molybdenum and Ammonia onto Several Types of Substrate Materials with Equal Growth per Cycle. Chemistry of Materials, 2007, 19, 263-269.	3.2	42
33	Mono- and heterometallic carbonyl precursor based RuMo/Al <sub>2</sub> O <sub>3</sub> catalysts: hydrodesulfurization activity and temperature programmed studies. Journal of Molecular Catalysis A, 2001, 170, 209-218.	4.8	8