

Lauri Aarik

List of Publications by Year in descending order

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31
papers

564
citations

687363

13
h-index

642732

23
g-index

31
all docs

31
docs citations

31
times ranked

723
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a thin ceramic-graphene nanolaminate coating for corrosion protection of stainless steel. <i>Corrosion Science</i> , 2016, 105, 161-169.	6.6	100
2	Atomic layer deposition of TiO ₂ from TiCl ₄ and O ₃ . <i>Thin Solid Films</i> , 2013, 542, 100-107.	1.8	64
3	Influence of phase composition on optical properties of TiO ₂ : Dependence of refractive index and band gap on formation of TiO ₂ -II phase in thin films. <i>Optical Materials</i> , 2019, 96, 109335.	3.6	52
4	Effect of substrate-enhanced and inhibited growth on atomic layer deposition and properties of aluminum-titanium oxide films. <i>Thin Solid Films</i> , 2016, 600, 119-125.	1.8	44
5	Effective corrosion protection of aluminum alloy AA2024-T3 with novel thin nanostructured oxide coating. <i>Surface and Coatings Technology</i> , 2021, 411, 126993.	4.8	32
6	Atomic layer deposition of high-quality Al ₂ O ₃ and Al-doped TiO ₂ thin films from hydrogen-free precursors. <i>Thin Solid Films</i> , 2014, 565, 19-24.	1.8	31
7	Temperature induced inversion of oxygen response in CVD graphene on SiO ₂ . <i>Sensors and Actuators B: Chemical</i> , 2014, 190, 1006-1013.	7.8	28
8	Chemical resistance of thin film materials based on metal oxides grown by atomic layer deposition. <i>Thin Solid Films</i> , 2013, 542, 219-224.	1.8	24
9	Atomic layer deposition of aluminum oxide films on graphene. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 49, 012014.	0.6	18
10	Atomic layer deposition of rutile-phase TiO ₂ on RuO ₂ from TiCl ₄ and O ₃ : Growth of high-permittivity dielectrics with low leakage current. <i>Journal of Crystal Growth</i> , 2013, 382, 61-66.	1.5	17
11	Influence of process parameters on atomic layer deposition of ZrO ₂ thin films from CpZr(NMe ₂) ₃ and H ₂ O. <i>Thin Solid Films</i> , 2014, 565, 37-44.	1.8	17
12	Influence of growth temperature on the structure and electrical properties of high-permittivity TiO ₂ films in TiC ₄ H ₂ O ₂ and TiC ₄ H ₃ O ₃ atomic layer deposition processes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 425-432.	1.8	14
13	Growth of TiAl ₂ O ₃ films by atomic layer deposition using successive supply of metal precursors. <i>Thin Solid Films</i> , 2015, 591, 276-284.	1.8	13
14	TiO ₂ -Based Metal-Insulator-Metal Structures for Future DRAM Storage Capacitors. <i>ECS Transactions</i> , 2013, 50, 79-87.	0.5	12
15	Chemical resistance of TiO ₂ and Al ₂ O ₃ single-layer and multilayer coatings atomic layer deposited from hydrogen-free precursors on silicon and stainless steel. <i>Materials Chemistry and Physics</i> , 2019, 228, 285-292.	4.0	11
16	Influence of oxygen precursors on atomic layer deposition of HfO ₂ and hafnium-titanium oxide films: Comparison of O ₃ - and H ₂ O-based processes. <i>Applied Surface Science</i> , 2020, 530, 147229.	6.1	11
17	Atomic layer deposition of rutile and TiO ₂ -II from TiCl ₄ and O ₃ on sapphire: Influence of substrate orientation on thin film structure. <i>Journal of Crystal Growth</i> , 2015, 428, 86-92.	1.5	9
18	Mechanical properties of crystalline and amorphous aluminum oxide thin films grown by atomic layer deposition. <i>Surface and Coatings Technology</i> , 2022, 438, 128409.	4.8	9

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19	Atomic layer deposition of Zr ₂ O ₃ for graphene-based multilayer structures: <i>In situ</i> and <i>ex situ</i> characterization of growth process. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 397-402.	1.8	8
20	Low-Temperature Atomic Layer Deposition of Al ₂ O ₃ Thin Films. <i>Crystal Growth and Design</i> , 2021, 21, 4220-4229.	3.0	8
21	Tribological properties of PVD coatings with lubricating films. <i>Estonian Journal of Engineering</i> , 2012, 18, 193.	0.4	6
22	Functionalization of Titanium Alloy Surface by Graphene Nanoplatelets and Metal Oxides: Corrosion Inhibition. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 6533-6540.	0.9	6
23	Dysprosium oxide and dysprosium-oxide-doped titanium oxide thin films grown by atomic layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015, 33, .	2.1	6
24	Atomic layer deposition of high-k dielectrics on carbon nanoparticles. <i>Thin Solid Films</i> , 2013, 538, 16-20.	1.8	5
25	Atomic Layer Deposition and Characterization of Dysprosium-Doped Zirconium Oxide Thin Films. <i>Chemical Vapor Deposition</i> , 2015, 21, 181-187.	1.3	5
26	Atomic-layer design and properties of Pr-doped HfO ₂ thin films. <i>Journal of Alloys and Compounds</i> , 2021, 868, 159100.	5.5	4
27	Nanostructured Coating for Aluminum Alloys Used in Aerospace Applications. <i>Journal of the Electrochemical Society</i> , 2022, 169, 071503.	2.9	4
28	Al alloy protection via ultra-thin ceramic coatings and different surface pretreatments. <i>Surface and Coatings Technology</i> , 2022, 435, 128240.	4.8	3
29	Structure and Electrical Behavior of Hafnium-Praseodymium Oxide Thin Films Grown by Atomic Layer Deposition. <i>Materials</i> , 2022, 15, 877.	2.9	2
30	Influence of Al ₂ O ₃ Template and Process Parameters on Atomic Layer Deposition and Properties of Thin Films Containing High-Density TiO ₂ Phases. <i>Coatings</i> , 2021, 11, 1280.	2.6	1
31	Atomic Layer Deposition of Zirconium Oxide on Carbon Nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2013, 49, 012019.	0.6	0