

# Markku Leskela

## List of Publications by Citations

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758  
papers

29,875  
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78  
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134  
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776  
ext. papers

31,823  
ext. citations

4.5  
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7.05  
L-index

#	Paper	IF	Citations
758	Crystallinity of inorganic films grown by atomic layer deposition: Overview and general trends. <i>Journal of Applied Physics</i> , <b>2013</b> , 113, 021301	2.5	1011
757	Atomic layer deposition (ALD): from precursors to thin film structures. <i>Thin Solid Films</i> , <b>2002</b> , 409, 138-146	16.2	958
756	Atomic layer deposition chemistry: recent developments and future challenges. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5548-54	16.4	843
755	Atomic layer deposition of oxide thin films with metal alkoxides as oxygen sources. <i>Science</i> , <b>2000</b> , 288, 319-21	33.3	415
754	Molecular tweezers for hydrogen: synthesis, characterization, and reactivity. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 14117-9	16.4	332
753	Atomic Layer Deposition of Platinum Thin Films. <i>Chemistry of Materials</i> , <b>2003</b> , 15, 1924-1928	9.6	329
752	A frustrated-Lewis-pair approach to catalytic reduction of alkynes to cis-alkenes. <i>Nature Chemistry</i> , <b>2013</b> , 5, 718-23	17.6	290
751	Growth of titanium dioxide thin films by atomic layer epitaxy. <i>Thin Solid Films</i> , <b>1993</b> , 225, 288-295	2.2	276
750	Facile heterolytic H <sub>2</sub> activation by amines and B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 6001-3	16.4	263
749	Titanium isopropoxide as a precursor in atomic layer epitaxy of titanium dioxide thin films. <i>Chemistry of Materials</i> , <b>1993</b> , 5, 1174-1181	9.6	259
748	Perfectly Conformal TiN and Al <sub>2</sub> O <sub>3</sub> Films Deposited by Atomic Layer Deposition. <i>Chemical Vapor Deposition</i> , <b>1999</b> , 5, 7-9		254
747	Atomic layer epitaxy - a valuable tool for nanotechnology?. <i>Nanotechnology</i> , <b>1999</b> , 10, 19-24	3.4	249
746	Atomic Layer Deposition of Noble Metals and Their Oxides. <i>Chemistry of Materials</i> , <b>2014</b> , 26, 786-801	9.6	244
745	Thin Film Deposition Methods for CuInSe <sub>2</sub> Solar Cells. <i>Critical Reviews in Solid State and Materials Sciences</i> , <b>2005</b> , 30, 1-31	10.1	235
744	Atomic layer deposition <b>2002</b> , 103-159		232
743	Effect of water dose on the atomic layer deposition rate of oxide thin films. <i>Thin Solid Films</i> , <b>2000</b> , 368, 1-7	2.2	227
742	WO <sub>3</sub> photocatalysts: Influence of structure and composition. <i>Journal of Catalysis</i> , <b>2012</b> , 294, 119-127	7.3	219

741	Ruthenium Thin Films Grown by Atomic Layer Deposition. <i>Chemical Vapor Deposition</i> , <b>2003</b> , 9, 45-49		219
740	Pyridinylimine-based nickel(II) and palladium(II) complexes: preparation, structural characterization and use as alkene polymerization catalysts. <i>Journal of Organometallic Chemistry</i> , <b>2000</b> , 606, 112-124	2.3	198
739	Tailoring the dielectric properties of HfO <sub>2</sub> /Ta <sub>2</sub> O <sub>5</sub> nanolaminates. <i>Applied Physics Letters</i> , <b>1996</b> , 68, 3737-3739		194
738	Atomic Layer Deposition of Photocatalytic TiO <sub>2</sub> Thin Films from Titanium Tetramethoxide and Water. <i>Chemical Vapor Deposition</i> , <b>2004</b> , 10, 143-148		190
737	Reaction Mechanism Studies on Atomic Layer Deposition of Ruthenium and Platinum. <i>Electrochemical and Solid-State Letters</i> , <b>2003</b> , 6, C130		186
736	Titanium isopropoxide as a precursor for atomic layer deposition: characterization of titanium dioxide growth process. <i>Applied Surface Science</i> , <b>2000</b> , 161, 385-395	6.7	182
735	New C <sub>2</sub> v- and Chiral C <sub>2</sub> -Symmetric Olefin Polymerization Catalysts Based on Nickel(II) and Palladium(II) Diimine Complexes Bearing 2,6-Diphenyl Aniline Moieties: Synthesis, Structural Characterization, and First Insight into Polymerization Properties. <i>Organometallics</i> , <b>2001</b> , 20, 2321-2330	3.8	182
734	Atomic layer deposition in nanometer-level replication of cellulosic substances and preparation of photocatalytic TiO <sub>2</sub> /cellulose composites. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 14178-9	16.4	175
733	Development of crystallinity and morphology in hafnium dioxide thin films grown by atomic layer epitaxy. <i>Thin Solid Films</i> , <b>1994</b> , 250, 72-80	2.2	175
732	Atomic Layer Deposition of Hafnium Dioxide Films from Hafnium Tetrakis(ethylmethanamide) and Water. <i>Chemical Vapor Deposition</i> , <b>2002</b> , 8, 199-204		174
731	Control of Stereoerror Formation with High-Activity Dual-Side Zirconocene Catalysts: A Novel Strategy To Design the Properties of Thermoplastic Elastic Polypropenes. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 4348-4355	16.4	160
730	Highly Active Metal-Free Catalysts for Hydrogenation of Unsaturated Nitrogen-Containing Compounds. <i>Advanced Synthesis and Catalysis</i> , <b>2011</b> , 353, 2093-2110	5.6	152
729	Controlled Growth of TaN, Ta <sub>3</sub> N <sub>5</sub> , and TaO <sub>x</sub> N <sub>y</sub> Thin Films by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>1999</b> , 11, 1712-1718	9.6	150
728	Atomic layer deposition of noble metals: Exploration of the low limit of the deposition temperature. <i>Journal of Materials Research</i> , <b>2004</b> , 19, 3353-3358	2.5	140
727	Zirconium dioxide thin films deposited by ALE using zirconium tetrachloride as precursor. <i>Applied Surface Science</i> , <b>1994</b> , 75, 333-340	6.7	137
726	TEMPO-Copper(II) Diimine-Catalysed Oxidation of Benzylic Alcohols in Aqueous Media. <i>Advanced Synthesis and Catalysis</i> , <b>2007</b> , 349, 1173-1179	5.6	136
725	Polymerization of ethylene with new diimine complexes of late transition metals. <i>Macromolecular Rapid Communications</i> , <b>1999</b> , 20, 487-491	4.8	135
724	Crystallization in hafnia- and zirconia-based systems. <i>Physica Status Solidi (B): Basic Research</i> , <b>2004</b> , 241, 2268-2278	1.3	134

723	Growth of SrTiO <sub>3</sub> and BaTiO <sub>3</sub> Thin Films by Atomic Layer Deposition. <i>Electrochemical and Solid-State Letters</i> , <b>1999</b> , 2, 504		133
722	Aerobic Oxidation of Benzylic Alcohols in Water by 2,2,6,6-Tetramethylpiperidine-1-oxyl (TEMPO)/Copper(II) 2-N-Arylpyrrololecarbaldimino Complexes. <i>Advanced Synthesis and Catalysis</i> , <b>2009</b> , 351, 2625-2632	5.6	132
721	Atomic layer deposition of metal tellurides and selenides using alkylsilyl compounds of tellurium and selenium. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 3478-80	16.4	132
720	Atomic Layer Deposition of Ruthenium Thin Films from Ru(thd) <sub>3</sub> and Oxygen. <i>Chemical Vapor Deposition</i> , <b>2004</b> , 10, 215-219		127
719	Einfache heterolytische H <sub>2</sub> -Aktivierung mit Aminen und B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> . <i>Angewandte Chemie</i> , <b>2008</b> , 120, 6090-6092		125
718	Atomic Layer Epitaxy Growth of TiN Thin Films. <i>Journal of the Electrochemical Society</i> , <b>1995</b> , 142, 2731-2737		125
717	Atomic Layer Deposition of Iridium Thin Films. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, G489	3.9	123
716	Synthesis and X-ray Structures of New Mononuclear and Dinuclear Diimine Complexes of Late Transition Metals. <i>European Journal of Inorganic Chemistry</i> , <b>1999</b> , 1999, 959-964	2.3	121
715	Chemical vapour deposition of high-T <sub>c</sub> superconducting thin films. <i>Superconductor Science and Technology</i> , <b>1993</b> , 6, 627-656	3.1	121
714	Hollow Inorganic Nanospheres and Nanotubes with Tunable Wall Thicknesses by Atomic Layer Deposition on Self-Assembled Polymeric Templates. <i>Advanced Materials</i> , <b>2007</b> , 19, 102-106	24	118
713	Rare-earth oxide thin films for gate dielectrics in microelectronics. <i>Journal of Alloys and Compounds</i> , <b>2006</b> , 418, 27-34	5.7	118
712	Chiral molecular tweezers: synthesis and reactivity in asymmetric hydrogenation. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 4038-41	16.4	117
711	Synthesis of oxide thin films and overlayers by atomic layer epitaxy for advanced applications. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1996</b> , 41, 23-29	3.1	117
710	Rare earths in electroluminescent and field emission display phosphors. <i>Journal of Alloys and Compounds</i> , <b>1998</b> , 275-277, 702-708	5.7	116
709	Growth of In <sub>2</sub> S <sub>3</sub> thin films by atomic layer epitaxy. <i>Applied Surface Science</i> , <b>1994</b> , 82-83, 122-125	6.7	115
708	Comparison of hafnium oxide films grown by atomic layer deposition from iodide and chloride precursors. <i>Thin Solid Films</i> , <b>2002</b> , 416, 72-79	2.2	114
707	Atomic Layer Epitaxy Growth of Tantalum Oxide Thin Films from Ta (OC <sub>2</sub> H <sub>5</sub> ) <sub>5</sub> and H <sub>2</sub> O. <i>Journal of the Electrochemical Society</i> , <b>1995</b> , 142, 1670-1675	3.9	112
706	Atomic Layer Deposition of Nanostructured TiO <sub>2</sub> Photocatalysts via Template Approach. <i>Chemistry of Materials</i> , <b>2007</b> , 19, 1816-1820	9.6	108

705	Properties of Ta <sub>2</sub> O <sub>5</sub> -Based Dielectric Nanolaminates Deposited by Atomic Layer Epitaxy. <i>Journal of the Electrochemical Society</i> , <b>1997</b> , 144, 300-306	3.9	107
704	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
703	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
702	New bis(imino)pyridine-iron(II)- and cobalt(II)-based catalysts: synthesis, characterization and activity towards polymerization of ethylene. <i>Journal of Organometallic Chemistry</i> , <b>2002</b> , 648, 55-61	2.3	100
701	In Situ Mass Spectrometry Study on Surface Reactions in Atomic Layer Deposition of Al <sub>2</sub> O <sub>3</sub> Thin Films from Trimethylaluminum and Water. <i>Langmuir</i> , <b>2000</b> , 16, 4034-4039	4	99
700	Electrodeposition of Cu on Ru Barrier Layers for Damascene Processing. <i>Journal of the Electrochemical Society</i> , <b>2006</b> , 153, C37	3.9	98
699	Rare-earth oxide thin films as gate oxides in MOSFET transistors. <i>Journal of Solid State Chemistry</i> , <b>2003</b> , 171, 170-174	3.3	98
698	Growth of CuS thin films by the successive ionic layer adsorption and reaction method. <i>Applied Surface Science</i> , <b>2000</b> , 158, 75-80	6.7	97
697	Atomic Layer Deposition of SrTiO <sub>3</sub> Thin Films from a Novel Strontium Precursor Strontium-bis(tri-isopropyl cyclopentadienyl). <i>Chemical Vapor Deposition</i> , <b>2001</b> , 7, 75-80		96
696	Atomic layer epitaxy growth of titanium dioxide thin films from titanium ethoxide. <i>Chemistry of Materials</i> , <b>1994</b> , 6, 556-561	9.6	95
695	Use of 1,1-Dimethylhydrazine in the Atomic Layer Deposition of Transition Metal Nitride Thin Films. <i>Journal of the Electrochemical Society</i> , <b>2000</b> , 147, 3377	3.9	93
694	Hydrogen activation by 2-boryl-N,N-dialkylanilines: a revision of Piers' ansa-aminoborane. <i>Dalton Transactions</i> , <b>2012</b> , 41, 9029-32	4.3	92
693	Development of Dielectric Properties of Niobium Oxide, Tantalum Oxide, and Aluminum Oxide Based Nanolayered Materials. <i>Journal of the Electrochemical Society</i> , <b>2001</b> , 148, F35	3.9	90
692	Plasma-Enhanced Atomic Layer Deposition of Silver Thin Films. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 2901-2907	3.7	89
691	Influence of growth temperature on properties of zirconium dioxide films grown by atomic layer deposition. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 1833-1840	2.5	89
690	Nitrides of titanium, niobium, tantalum and molybdenum grown as thin films by the atomic layer epitaxy method. <i>Thin Solid Films</i> , <b>1988</b> , 166, 149-154	2.2	88
689	Selective-Area Atomic Layer Deposition Using Poly(methyl methacrylate) Films as Mask Layers. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 15791-15795	3.8	87
688	Experimental and theoretical treatment of hydrogen splitting and storage in boron-nitrogen systems. <i>Journal of Organometallic Chemistry</i> , <b>2009</b> , 694, 2654-2660	2.3	86

- 687 Atomic layer epitaxy growth of aluminum oxide thin films from a novel  $\text{Al}(\text{CH}_3)_2\text{Cl}$  precursor and  $\text{H}_2\text{O}$ . *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1997**, 15, 2214-2218 2.9 85
- 686 Atomic Layer Deposition of Platinum Oxide and Metallic Platinum Thin Films from  $\text{Pt}(\text{acac})_2$  and Ozone. *Chemistry of Materials*, **2008**, 20, 6840-6846 9.6 83
- 685 Low-Temperature Deposition of Zirconium Oxide-Based Nanocrystalline Films by Alternate Supply of  $\text{Zr}[\text{OC}(\text{CH}_3)_3]_4$  and  $\text{H}_2\text{O}$ . *Chemical Vapor Deposition*, **2000**, 6, 297-302 83
- 684 Zinc chalcogenide thin films grown by the atomic layer epitaxy technique using zinc acetate as source material. *Thin Solid Films*, **1985**, 124, 125-128 2.2 83
- 683 AFM studies on ZnS thin films grown by atomic layer epitaxy. *Applied Surface Science*, **1997**, 120, 43-50 6.7 82
- 682 Surface modification of thermoplastics by atomic layer deposition of  $\text{Al}_2\text{O}_3$  and  $\text{TiO}_2$  thin films. *European Polymer Journal*, **2008**, 44, 3564-3570 5.2 81
- 681 Thermal study on electrospun polyvinylpyrrolidone/ammonium metatungstate nanofibers: optimising the annealing conditions for obtaining  $\text{WO}_3$  nanofibers. *Journal of Thermal Analysis and Calorimetry*, **2011**, 105, 73-81 4.1 79
- 680 Intramolecular frustrated Lewis pair with the smallest boryl site: reversible  $\text{H}_2$  addition and kinetic analysis. *Angewandte Chemie - International Edition*, **2015**, 54, 1749-53 16.4 78
- 679 Lithium Phosphate Thin Films Grown by Atomic Layer Deposition. *Journal of the Electrochemical Society*, **2012**, 159, A259-A263 3.9 77
- 678 Some recent developments in the MOCVD and ALD of high- $\kappa$  dielectric oxides. *Journal of Materials Chemistry*, **2004**, 14, 3101-3112 77
- 677 Crystal Structure of  $\mu_4$ -Oxo-hexakis( $\mu$ -acetato)tetrazinc and Thermal Studies of its Precursor, Zinc Acetate Dihydrate.. *Acta Chemica Scandinavica*, **1987**, 41a, 548-555 77
- 676 Atomic force microscopy study of titanium dioxide thin films grown by atomic layer epitaxy. *Thin Solid Films*, **1993**, 228, 32-35 2.2 76
- 675 Atomic Layer Deposition of Crystalline  $\text{MoS}_2$  Thin Films: New Molybdenum Precursor for Low-Temperature Film Growth. *Advanced Materials Interfaces*, **2017**, 4, 1700123 4.6 75
- 674 Energy transfer phenomena in  $\text{GdMgB}_5\text{O}_{10}$ . *Materials Research Bulletin*, **1984**, 19, 151-159 5.1 75
- 673 Ethylenebis(salicylideneiminato)zirconium Dichloride: Crystal Structure and Use as a Heterogeneous Catalyst in the Polymerization of Ethylene. *Macromolecules*, **1997**, 30, 171-175 5.5 74
- 672 Novel ALD Process for Depositing  $\text{CaF}_2$  Thin Films. *Chemistry of Materials*, **2007**, 19, 3387-3392 9.6 74
- 671 History of atomic layer deposition and its relationship with the American Vacuum Society. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2013**, 31, 050818 2.9 73
- 670 Atomic layer deposition of zirconium oxide from zirconium tetraiodide, water and hydrogen peroxide. *Journal of Crystal Growth*, **2001**, 231, 262-272 1.6 73

669	SILAR deposition of Cd <sub>x</sub> Zn <sub>1-x</sub> S thin films. <i>Applied Surface Science</i> , <b>2000</b> , 161, 396-405	6.7	73
668	Growth and characterization of aluminium oxide thin films deposited from various source materials by atomic layer epitaxy and chemical vapor deposition processes. <i>Materials Chemistry and Physics</i> , <b>1991</b> , 28, 379-388	4.4	72
667	Bismuth precursors for atomic layer deposition of bismuth-containing oxide films. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 3191-3197		71
666	Aerobic oxidation of benzylic alcohols with bis(3,5-di-tert-butylsalicylaldimine)copper(II) complexes. <i>Applied Catalysis A: General</i> , <b>2009</b> , 371, 17-21	5.1	69
665	Atomic layer deposition of TiO <sub>2</sub> thin films from TiI <sub>4</sub> and H <sub>2</sub> O. <i>Applied Surface Science</i> , <b>2002</b> , 193, 277-286	6.7	69
664	Characterization of titanium dioxide atomic layer growth from titanium ethoxide and water. <i>Thin Solid Films</i> , <b>2000</b> , 370, 163-172	2.2	69
663	Introducing atomic layer epitaxy for the deposition of optical thin films. <i>Thin Solid Films</i> , <b>1996</b> , 289, 250-255		69
662	Ruthenium/aerogel nanocomposites via atomic layer deposition. <i>Nanotechnology</i> , <b>2007</b> , 18, 055303	3.4	68
661	The preparation of reusable magnetic and photocatalytic composite nanofibers by electrospinning and atomic layer deposition. <i>Nanotechnology</i> , <b>2009</b> , 20, 035602	3.4	67
660	In situ study of atomic layer epitaxy growth of tantalum oxide thin films from Ta(OC <sub>2</sub> H <sub>5</sub> ) <sub>5</sub> and H <sub>2</sub> O. <i>Applied Surface Science</i> , <b>1997</b> , 112, 236-242	6.7	66
659	Structural and dielectric properties of thin ZrO <sub>2</sub> films on silicon grown by atomic layer deposition from cyclopentadienyl precursor. <i>Journal of Applied Physics</i> , <b>2004</b> , 95, 84-91	2.5	66
658	Atomic layer deposition of hafnium dioxide thin films from hafnium tetrakis(dimethylamide) and water. <i>Thin Solid Films</i> , <b>2005</b> , 491, 328-338	2.2	66
657	Atomic layer deposition and characterization of vanadium oxide thin films. <i>RSC Advances</i> , <b>2013</b> , 3, 1179-1185	3.7	65
656	Copper catalyzed oxidation of benzylic alcohols in water with H <sub>2</sub> O <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2012</b> , 411-412, 180-187	5.1	65
655	Oxidation of veratryl alcohol by molecular oxygen in aqueous solution catalyzed by cobalt salen-type complexes: the effect of reaction conditions. <i>Journal of Molecular Catalysis A</i> , <b>2003</b> , 203, 9-19		64
654	Atomic Layer Epitaxy Growth of TiN Thin Films from TiI <sub>4</sub> and NH <sub>3</sub> . <i>Journal of the Electrochemical Society</i> , <b>1998</b> , 145, 2914-2920	3.9	64
653	Precursors as enablers of ALD technology: Contributions from University of Helsinki. <i>Coordination Chemistry Reviews</i> , <b>2013</b> , 257, 3297-3322	23.2	63
652	Low-Temperature Deposition of Aluminum Oxide by Radical Enhanced Atomic Layer Deposition. <i>Journal of the Electrochemical Society</i> , <b>2005</b> , 152, F90	3.9	63

651	Enhanced stability of rubbery amylose-rich maize starch films plasticized with a combination of sorbitol and glycerol. <i>International Journal of Pharmaceutics</i> , <b>2003</b> , 251, 205-8	6.5	63
650	Exploitation of atomic layer deposition for nanostructured materials. <i>Materials Science and Engineering C</i> , <b>2007</b> , 27, 1504-1508	8.3	62
649	Growth of ZnS, CdS and multilayer ZnS/CdS thin films by SILAR technique. <i>Applied Surface Science</i> , <b>1997</b> , 115, 386-392	6.7	61
648	Radical-Enhanced Atomic Layer Deposition of Silver Thin Films Using Phosphine-Adducted Silver Carboxylates. <i>Chemical Vapor Deposition</i> , <b>2007</b> , 13, 408-413		60
647	Molecular hydrogen tweezers: structure and mechanisms by neutron diffraction, NMR, and deuterium labeling studies in solid and solution. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 20245-57	16.4	59
646	Deposition of copper films by an alternate supply of CuCl and Zn. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>1997</b> , 15, 2330-2333	2.9	59
645	Electrodeposition of lead selenide thin films. <i>Journal of Materials Chemistry</i> , <b>1998</b> , 8, 651-654		59
644	Study of a novel ALD process for depositing MgF <sub>2</sub> thin films. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 5077		59
643	Growth of In <sub>2</sub> O <sub>3</sub> Thin Films by Atomic Layer Epitaxy. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, 3210-3213	3.9	59
642	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
641	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
640	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
639	Electrodeposition of PbTe thin films. <i>Thin Solid Films</i> , <b>1998</b> , 326, 78-82	2.2	58
638	Effect of selected atomic layer deposition parameters on the structure and dielectric properties of hafnium oxide films. <i>Journal of Applied Physics</i> , <b>2004</b> , 96, 5298-5307	2.5	58
637	Growth of ultra thin PbS films by SILAR technique. <i>Thin Solid Films</i> , <b>2003</b> , 428, 223-226	2.2	58
636	Growth of strongly orientated lead sulfide thin films by successive ionic layer adsorption and reaction (SILAR) technique. <i>Journal of Materials Chemistry</i> , <b>1996</b> , 6, 161-164		58
635	Selective-Area Atomic Layer Deposition Using Poly(vinyl pyrrolidone) as a Passivation Layer. <i>Journal of the Electrochemical Society</i> , <b>2010</b> , 157, K10	3.9	57
634	H <sub>2</sub> S modified atomic layer deposition process for photocatalytic TiO <sub>2</sub> thin films. <i>Journal of Materials Chemistry</i> , <b>2007</b> , 17, 1361-1371		57



633	Novel mixed alkylamido-cyclopentadienyl precursors for ALD of ZrO <sub>2</sub> thin films. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 5243		56
632	Selective-area atomic layer deposition with microcontact printed self-assembled octadecyltrichlorosilane monolayers as mask layers. <i>Thin Solid Films</i> , <b>2008</b> , 517, 972-975	2.2	56
631	Properties of HfO <sub>2</sub> Thin Films Grown by ALD from Hafnium tetrakis(ethylmethanamide) and Water. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, F189	3.9	56
630	Alkaline earth sulfide thin films grown by atomic layer epitaxy. <i>Journal of Crystal Growth</i> , <b>1987</b> , 84, 151-154		56
629	Review Article: Recommended reading list of early publications on atomic layer deposition. Outcome of the Virtual Project on the History of ALD. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2017</b> , 35, 010801	2.9	55
628	Controlled growth of HfO <sub>2</sub> thin films by atomic layer deposition from cyclopentadienyl-type precursor and water. <i>Journal of Materials Chemistry</i> , <b>2005</b> , 15, 2271		55
627	Electrochemical preparation of In and Al doped ZnO thin films for CuInSe <sub>2</sub> solar cells. <i>Thin Solid Films</i> , <b>2003</b> , 434, 20-23	2.2	55
626	Analysis of AlN thin films by combining TOF-ERDA and NRB techniques. <i>Thin Solid Films</i> , <b>1996</b> , 289, 159-165		55
625	Cover Picture: Facile Heterolytic H <sub>2</sub> Activation by Amines and B(C <sub>6</sub> F <sub>5</sub> ) <sub>3</sub> (Angew. Chem. Int. Ed. 32/2008). <i>Angewandte Chemie - International Edition</i> , <b>2008</b> , 47, 5861-5861	16.4	54
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