

# Maarit Karppinen

## List of Publications by Year in Descending Order

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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.

208  
papers

6,047  
citations

38  
h-index

69  
g-index

220  
ext. papers

6,845  
ext. citations

5.4  
avg, IF

6.54  
L-index

#	Paper	IF	Citations
208	Simultaneously enhanced electrical conductivity and suppressed thermal conductivity for ALD ZnO films via purge-time controlled defects. <i>Applied Physics Letters</i> , <b>2022</b> , 120, 062106	3.4	0
207	Gas-phase deposition of di- and tetra-lithium salts of 2,5-dihydroxyterephthalic acid.. <i>Dalton Transactions</i> , <b>2022</b> ,	4.3	1
206	Optically controlled large-coercivity room-temperature thin-film magnets. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 10, 294-300	7.1	3
205	Atomic and Molecular Layer Deposition of Alkali Metal Based Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 56793-56811	9.5	6
204	Extremely Overdoped Superconducting Cuprates via High Pressure Oxygenation Methods. <i>Condensed Matter</i> , <b>2021</b> , 6, 50	1.8	0
203	Role of terminal groups in aromatic molecules on the growth of AlO-based hybrid materials. <i>Dalton Transactions</i> , <b>2021</b> , 50, 17583-17593	4.3	1
202	Atomic/molecular layer deposition of Ni-terephthalate thin films. <i>Dalton Transactions</i> , <b>2021</b> , 50, 16133-16138	4.3	1
201	Functionally Graded Tunable Microwave Absorber with Graphene-Augmented Alumina Nanofibers. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 21613-21625	9.5	4
200	Effect of carbon backbone on luminescence properties of Eu-organic hybrid thin films prepared by ALD/MLD. <i>Journal of Materials Science</i> , <b>2021</b> , 56, 12634-12642	4.3	4
199	Benzenedisulfonic Acid as an ALD/MLD Building Block for Crystalline Metal-Organic Thin Films*. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 8799-8803	4.8	5
198	Mixed-Anion Compounds: An Unexplored Playground for ALD Fabrication. <i>Advanced Materials Interfaces</i> , <b>2021</b> , 8, 2100146	4.6	4
197	Organic-component dependent thermal conductivity reduction in ALD/MLD grown ZnO:organic superlattice thin films. <i>Applied Physics Letters</i> , <b>2021</b> , 118, 211903	3.4	3
196	Photoactive Thin-Film Structures of Curcumin, TiO and ZnO. <i>Molecules</i> , <b>2021</b> , 26,	4.8	4
195	Luminescent (Er,Ho)2O3 thin films by ALD to enhance the performance of silicon solar cells. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 219, 110787	6.4	3
194	Rational Development of Guanidinate and Amidinate Based Cerium and Ytterbium Complexes as Atomic Layer Deposition Precursors: Synthesis, Modeling, and Application. <i>Chemistry - A European Journal</i> , <b>2021</b> , 27, 4913-4926	4.8	3
193	Dynamical magnetic behavior of anisotropic spinel-structured ferrite for GHz technologies. <i>Scientific Reports</i> , <b>2021</b> , 11, 614	4.9	3
192	Mechanics of Nanoscale [Fe2O3/Organic Superlattices toward Flexible Thin-Film Magnets. <i>ACS Applied Nano Materials</i> , <b>2021</b> , 4, 1692-1701	5.6	3

191	Emergence of Metallic Conductivity in Ordered One-Dimensional Coordination Polymer Thin Films upon Reductive Doping. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 10249-10256	9.5	2
190	Chemical intercalation and electrochemical deintercalation of 2-aminoterephthalic acid into the layered titanoniobate HTiNbO <sub>5</sub> . <i>Solid State Ionics</i> , <b>2021</b> , 360, 115535	3.3	1
189	Advances in upconversion enhanced solar cell performance. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 230, 111234	6.4	10
188	Atomic/molecular layer deposition of Ti-organic thin films from different aromatic alcohol and amine precursors. <i>Thin Solid Films</i> , <b>2021</b> , 736, 138896	2.2	3
187	Visible-Light Absorbing TiO <sub>2</sub> : Curcumin Thin Films with ALD/MLD. <i>ChemNanoMat</i> , <b>2021</b> , 7, 253-256	3.5	3
186	Lanthanide-based inorganic-organic hybrid materials for photon-upconversion. <i>Journal of Materials Chemistry C</i> , <b>2020</b> , 8, 6946-6965	7.1	24
185	Tailoring phonon modes of few-layered MoS <sub>2</sub> by in-plane electric field. <i>Npj 2D Materials and Applications</i> , <b>2020</b> , 4,	8.8	4
184	Organic-Component Dependent Crystal Orientation and Electrical Transport Properties in ALD/MLD Grown ZnO-Organic Superlattices. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 13765-13770	3.8	10
183	Modulating the Structure and Magnetic Properties of FeO Nanoparticles via Electrochemical Li Insertion. <i>Inorganic Chemistry</i> , <b>2020</b> , 59, 4357-4365	5.1	1
182	CO <sub>2</sub> -based atomic/molecular layer deposition of lithium ethylene carbonate thin films. <i>Nanoscale Advances</i> , <b>2020</b> , 2, 2441-2447	5.1	5
181	Layered structure of alumina/graphene-augmented-inorganic-nanofibers with directional electrical conductivity. <i>Carbon</i> , <b>2020</b> , 167, 634-645	10.4	5
180	Exchange Interactions Mediated by Nonmagnetic Cations in Double Perovskites. <i>Physical Review Letters</i> , <b>2020</b> , 124, 077202	7.4	6
179	Local lattice distortions and dynamics in extremely overdoped superconducting YSrCuMoO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 4559-4564	11.5	7
178	Atomic/molecular layer deposition and electrochemical performance of dilithium 2-aminoterephthalate. <i>Dalton Transactions</i> , <b>2020</b> , 49, 1591-1599	4.3	13
177	Atomic layer deposited aluminum oxide mitigates outgassing from fused filament fabrication-based 3-D printed components. <i>Surface and Coatings Technology</i> , <b>2020</b> , 386, 125459	4.4	1
176	Atomic layer deposition of thermoelectric layered cobalt oxides. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 032412	2.9	3
175	Flexible FeO-Terephthalate Thin-Film Magnets through ALD/MLD. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 21912-21921	9.5	19
174	FeSe: a possible ferrimagnetic half-metal?. <i>Journal of Physics Condensed Matter</i> , <b>2020</b> , 32, 455801	1.8	0

173	Nonadiabatic coupling of the dynamical structure to the superconductivity in YSrCuMoO and SrCuO. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2020</b> , 117, 33099-33106 <sup>3</sup>	11.5	3
172	Characterization of ZnO/AlO <sub>x</sub> /benzene thin-film heterostructures grown through atomic layer deposition/molecular layer deposition. <i>Semiconductor Science and Technology</i> , <b>2020</b> , 36, 025012	1.8	3
171	Textile-Integrated ZnO-Based Thermoelectric Device Using Atomic Layer Deposition. <i>Advanced Engineering Materials</i> , <b>2020</b> , 22, 2000535	3.5	8
170	Experimental Control and Statistical Analysis of Thermal Conductivity in ZnO-Benzene Multilayer Thin Films. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 24731-24739	3.8	6
169	Composition-tuned metal-organic thin-film structures based on photoswitchable azobenzene by ALD/MLD. <i>Dalton Transactions</i> , <b>2020</b> , 49, 11310-11316	4.3	3
168	Vacuum outgassing characteristics of unpigmented 3D printed polymers coated with atomic layer deposited alumina. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 053204	2.9	1
167	Spontaneous Generation of Carrier Electrons at the Interface between Polycrystalline ZnO and Amorphous InGaZnO <sub>4</sub> . <i>Advanced Electronic Materials</i> , <b>2020</b> , 6, 2000404	6.4	2
166	Low-pressure thermogravimetric analysis for finding sublimation temperatures for organic precursors in atomic/molecular layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2020</b> , 38, 052406	2.9	7
165	Electrochemically Active In Situ Crystalline Lithium-Organic Thin Films by ALD/MLD. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 41557-41566	9.5	12
164	Assessment of magnetic properties of AB'B''O double perovskites by multivariate data analysis techniques. <i>Chemical Communications</i> , <b>2019</b> , 55, 1722-1725	5.8	10
163	Flexible thermoelectric modules based on ALD-grown ZnO on different substrates. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2019</b> , 37, 020906	2.9	8
162	Magnetic interactions in the S = 1/2 square-lattice antiferromagnets BaCuTeO and BaCuWO: parent phases of a possible spin liquid. <i>Chemical Communications</i> , <b>2019</b> , 55, 1132-1135	5.8	6
161	Fermi surface topology and large magnetoresistance in the topological semimetal candidate PrBi. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	9
160	Isovalent substitution effects on thermoelectric transport properties of CoSbX (X = S, Se, Te) system. <i>Journal of Physics Condensed Matter</i> , <b>2019</b> , 31, 405704	1.8	3
159	Porosity-tuned thermal conductivity in thermoelectric Al-doped ZnO thin films grown by mist-chemical vapor deposition. <i>Thin Solid Films</i> , <b>2019</b> , 685, 180-185	2.2	23
158	Up-converting ALD/MLD thin films with Yb <sup>3+</sup> , Er <sup>3+</sup> in amorphous organic framework. <i>Journal of Luminescence</i> , <b>2019</b> , 213, 310-315	3.8	10
157	New chemical mechanism explaining the breakdown of protective oxides on high temperature steels in biomass combustion and gasification plants.. <i>RSC Advances</i> , <b>2019</b> , 9, 10034-10048	3.7	6
156	Atomic/Molecular Layer Deposited Iron-Azobenzene Framework Thin Films for Stimuli-Induced Gas Molecule Capture/Release. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 13400-13404	16.4	19

155	Organic electrode materials with solid-state battery technology. <i>Journal of Materials Chemistry A</i> , <b>2019</b> , 7, 18735-18758	13	57
154	Atomic/Molecular Layer Deposited IronAzobenzene Framework Thin Films for Stimuli-Induced Gas Molecule Capture/Release. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 13534-13538	3.6	9
153	Atomic layer deposition of metals: Precursors and film growth. <i>Applied Physics Reviews</i> , <b>2019</b> , 6, 041309	17.3	38
152	New s-Block Metal Pyridinedicarboxylate Network Structures through Gas-Phase Thin-Film Synthesis. <i>Chemistry - A European Journal</i> , <b>2019</b> , 25, 11466-11473	4.8	13
151	Amorphous-to-crystalline transition and photoluminescence switching in guest-absorbing metal-organic network thin films. <i>Chemical Communications</i> , <b>2019</b> , 56, 241-244	5.8	13
150	Experimental setup for anisotropic thermoelectric transport measurements using MPMS. <i>Measurement Science and Technology</i> , <b>2019</b> , 30, 025602	2	3
149	Numerical study on the fluid dynamical aspects of atomic layer deposition process. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2018</b> , 36, 021516	2.9	10
148	Mössbauer study of magnetism in Fe <sub>3</sub> Se <sub>4</sub> . <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 746, 135-139	5.7	4
147	Thermal Conductivity Reduction at Inorganic/Organic Interfaces: From Regular Superlattices to Irregular Gradient Layer Sequences. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701692	4.6	21
146	Three- and Two-Photon NIR-to-Vis (Yb,Er) Upconversion from ALD/MLD-Fabricated Molecular Hybrid Thin Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 8845-8852	9.5	26
145	Atomic Layer Deposition of Conducting CuS Thin Films from Elemental Sulfur. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701366	4.6	8
144	The [U <sub>2</sub> F <sub>12</sub> ] <sup>2-</sup> Anion of Sr[U <sub>2</sub> F <sub>12</sub> ]. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 2964-2968	3.6	5
143	Structural distinction due to deposition method in ultrathin films of cellulose nanofibres. <i>Cellulose</i> , <b>2018</b> , 25, 1715-1724	5.5	10
142	The [U F ] Anion of Sr[U F ]. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 2914-2918	16.4	9
141	In situ lithiated quinone cathode for ALD/MLD-fabricated high-power thin-film battery. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 7027-7033	13	29
140	Spin-liquid-like state in a spin-1/2 square-lattice antiferromagnet perovskite induced by d-d cation mixing. <i>Nature Communications</i> , <b>2018</b> , 9, 1085	17.4	41
139	Tuning the S=1/2 square-lattice antiferromagnet Sr <sub>2</sub> Cu(Te <sub>1-x</sub> W <sub>x</sub> )O <sub>6</sub> from Néel order to quantum disorder to columnar order. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	18
138	Reversible Photoswitching Function in Atomic/Molecular-Layer-Deposited ZnO:Azobenzene Superlattice Thin Films. <i>Chemistry of Materials</i> , <b>2018</b> , 30, 5904-5911	9.6	23

137	Iron-Terephthalate Coordination Network Thin Films Through In-Situ Atomic/Molecular Layer Deposition. <i>Scientific Reports</i> , <b>2018</b> , 8, 8976	4.9	33
136	Atomic/molecular layer deposition of Cu-organic thin films. <i>Dalton Transactions</i> , <b>2018</b> , 47, 15791-15800	4.3	12
135	Electronic and Vibrational Properties of TiS <sub>2</sub> , ZrS <sub>2</sub> , and HfS <sub>2</sub> : Periodic Trends Studied by Dispersion-Corrected Hybrid Density Functional Methods. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 26835-26844	3.8	21
134	Tailoring of Optoelectronic Properties of $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> Thin Films Through Insertion of Organic Interlayers. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2018</b> , 12, 1800390	2.5	11
133	Microstructure and optical properties of ultra-thin NiO films grown by atomic layer deposition. <i>Semiconductor Science and Technology</i> , <b>2018</b> , 33, 115015	1.8	7
132	Efficient Process for Direct Atomic Layer Deposition of Metallic Cu Thin Films Based on an Organic Reductant. <i>Chemistry of Materials</i> , <b>2017</b> , 29, 1230-1235	9.6	20
131	Lithium Aryloxide Thin Films with Guest-Induced Structural Transformation by ALD/MLD. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 2988-2992	4.8	22
130	Atomic/molecular layer deposition of hybrid inorganic-organic thin films from erbium guanidinate precursor. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 6216-6224	4.3	13
129	Flexible Thermoelectric ZnO/Organic Superlattices on Cotton Textile Substrates by ALD/MLD. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600459	6.4	37
128	Photon up-converting (Yb,Er) <sub>2</sub> O <sub>3</sub> thin films by atomic layer deposition. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2017</b> , 11, 1700076	2.5	9
127	Simple ALD process for $\gamma$ -Fe <sub>2</sub> O <sub>3</sub> thin films. <i>APL Materials</i> , <b>2017</b> , 5, 056104	5.7	19
126	Atomic Layer Deposition of Thermoelectric Materials <b>2017</b> , 259-274		
125	Strongly reduced thermal conductivity in hybrid ZnO/nanocellulose thin films. <i>Journal of Materials Science</i> , <b>2017</b> , 52, 6093-6099	4.3	13
124	Atomic layer deposition of nickel-cobalt spinel thin films. <i>Dalton Transactions</i> , <b>2017</b> , 46, 4796-4805	4.3	16
123	Enhanced p-Type Transparent Semiconducting Characteristics for ALD-Grown Mg-Substituted CuCrO <sub>2</sub> Thin Films. <i>Advanced Electronic Materials</i> , <b>2017</b> , 3, 1600341	6.4	27
122	Atomic/Molecular Layer Deposition of s-Block Metal Carboxylate Coordination Network Thin Films. <i>Chemistry - A European Journal</i> , <b>2017</b> , 23, 18225-18231	4.8	29
121	Low-Temperature Molecular Layer Deposition Using Monofunctional Aromatic Precursors and Ozone-Based Ring-Opening Reactions. <i>Langmuir</i> , <b>2017</b> , 33, 9657-9665	4	10
120	Atomic Layer Deposition of p-Type Semiconducting Thin Films: a Review. <i>Advanced Materials Interfaces</i> , <b>2017</b> , 4, 1700300	4.6	32

119	Luminescent Metal-Nucleobase Network Thin Films by Atomic/Molecular Layer Deposition. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 17538-17545	3.8	16
118	Excitation-dependent fluorescence from atomic/molecular layer deposited sodium-uracil thin films. <i>Scientific Reports</i> , <b>2017</b> , 7, 6982	4.9	11
117	Intercalation of Primary Alcohols into Layered Titanoniobates. <i>Inorganic Chemistry</i> , <b>2017</b> , 56, 9132-9138	5.1	12
116	Titanium dioxide thin films by atomic layer deposition: a review. <i>Semiconductor Science and Technology</i> , <b>2017</b> , 32, 093005	1.8	83
115	Structure evolution upon chemical and physical pressure in (Sr <sub>1-x</sub> Bax) <sub>2</sub> FeSbO <sub>6</sub> . <i>Journal of Solid State Chemistry</i> , <b>2017</b> , 246, 245-251	3.3	7
114	In Situ Atomic/Molecular Layer-by-Layer Deposition of Inorganic/Organic Coordination Network Thin Films from Gaseous Precursors. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 6260-6265	9.6	49
113	Bulk superconductivity at 84 K in the strongly overdoped regime of cuprates. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	20
112	Competition between ferromagnetism and antiferromagnetism in the rutile Cr <sub>1-x</sub> VxO <sub>2</sub> system. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	10
111	Reduction in thermal conductivity and tunable heat capacity of inorganic/organic hybrid superlattices. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	27
110	Heat-transport mechanisms in molecular building blocks of inorganic/organic hybrid superlattices. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	35
109	Anomalous thickness-dependent optical energy gap of ALD-grown ultra-thin CuO films. <i>Journal of Physics Condensed Matter</i> , <b>2016</b> , 28, 475801	1.8	11
108	ALD/MLD fabrication of luminescent Eu-organic hybrid thin films using different aromatic carboxylic acid components with N and O donors. <i>RSC Advances</i> , <b>2016</b> , 6, 103412-103417	3.7	14
107	Three-Dimensional Uracil Network with Sodium as a Linker. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 26342-26349	3.8	17
106	ALD/MLD processes for Mn and Co based hybrid thin films. <i>Dalton Transactions</i> , <b>2016</b> , 45, 10730-5	4.3	20
105	Atomic/Molecular Layer Deposition of Lithium Terephthalate Thin Films as High Rate Capability Li-Ion Battery Anodes. <i>Nano Letters</i> , <b>2016</b> , 16, 1276-81	11.5	83
104	Layer-by-layer design of nanostructured thermoelectrics: First-principles study of ZnO:organic superlattices fabricated by ALD/MLD. <i>Nano Energy</i> , <b>2016</b> , 22, 338-348	17.1	24
103	Pressure-induced phase transitions of hexagonal perovskite-like oxides. <i>Journal of Solid State Chemistry</i> , <b>2016</b> , 233, 492-496	3.3	8
102	Atomic/molecular layer deposition: a direct gas-phase route to crystalline metal-organic framework thin films. <i>Chemical Communications</i> , <b>2016</b> , 52, 1139-42	5.8	80

101	Transparent ferrimagnetic semiconducting CuCr <sub>2</sub> O <sub>4</sub> thin films by atomic layer deposition. <i>APL Materials</i> , <b>2016</b> , 4, 046106	5.7	8
100	Substantially enhanced Raman signal for inorganic-organic nanocomposites by ALD-TiO <sub>2</sub> capping. <i>RSC Advances</i> , <b>2016</b> , 6, 41087-41091	3.7	1
99	Low-temperature atomic layer deposition of crystalline manganese oxide thin films. <i>Dalton Transactions</i> , <b>2016</b> , 45, 18737-18741	4.3	10
98	Spin wave excitations in the tetragonal double perovskite Sr <sub>2</sub> CuWO <sub>6</sub> . <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	16
97	Tunable optical properties of hybrid inorganic-organic [(TiO <sub>2</sub> ) <sub>m</sub> (Ti-O-C <sub>6</sub> H <sub>4</sub> -O-) <sub>k</sub> ] <sub>n</sub> superlattice thin films. <i>Dalton Transactions</i> , <b>2015</b> , 44, 591-7	4.3	27
96	Atomic layer deposition of transparent semiconducting oxide CuCrO <sub>2</sub> thin films. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 8364-8371	7.1	33
95	Semiconducting BiOCuSe Thermoelectrics and Its Metallic Derivative Bi <sub>2</sub> YO <sub>4</sub> Cu <sub>2</sub> Se <sub>2</sub> . <i>European Journal of Inorganic Chemistry</i> , <b>2015</b> , 2015, 2574-2578	2.3	8
94	Oxygen-Nonstoichiometric YBaCo <sub>4</sub> O <sub>7+x</sub> as a Catalyst in H <sub>2</sub> O <sub>2</sub> Oxidation of Cyclohexene. <i>Catalysis Letters</i> , <b>2015</b> , 145, 576-582	2.8	3
93	Ultra-low thermal conductivity in TiO <sub>2</sub> :C superlattices. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 11527-11532	11.3	31
92	Atomic layer deposition of quaternary oxide (La,Sr)CoO <sub>3-x</sub> thin films. <i>Dalton Transactions</i> , <b>2015</b> , 44, 8001-6	4.3	26
91	Al <sub>2</sub> O <sub>3</sub> coating grown on Nafion membranes by atomic layer deposition. <i>Journal of Membrane Science</i> , <b>2015</b> , 495, 101-109	9.6	7
90	Atomic Layer Deposition of Lithium Phosphorus Oxynitride. <i>Chemistry of Materials</i> , <b>2015</b> , 27, 6987-6993	9.6	85
89	Inorganic-organic superlattice thin films for thermoelectrics. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 10349-10361	7.1	45
88	Iron-based inorganic-organic hybrid and superlattice thin films by ALD/MLD. <i>Dalton Transactions</i> , <b>2015</b> , 44, 19194-9	4.3	20
87	Flexible inorganic-organic thin film phosphors by ALD/MLD. <i>Journal of Materials Chemistry C</i> , <b>2015</b> , 3, 12316-12321	7.1	20
86	A <sub>2</sub> B <sub>2</sub> O <sub>6</sub> perovskites: A review. <i>Progress in Solid State Chemistry</i> , <b>2015</b> , 43, 1-36	8	625
85	Atomic-Level Structural and Electronic Properties of Hybrid Inorganic-Organic ZnO:Hydroquinone Superlattices Fabricated by ALD/MLD. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 13105-13114	3.8	54
84	EXAFS study of thermoelectric BiCuOSe: Effects of Cu vacancies. <i>Solid State Communications</i> , <b>2015</b> , 206, 12-16	1.6	13



83	Characterization of magnetic properties of Sr <sub>2</sub> CuWO <sub>6</sub> and Sr <sub>2</sub> CuMoO <sub>6</sub> . <i>Physical Review B</i> , <b>2014</b> , 89,	3.3	29
82	Hybrid inorganic-organic superlattice structures with atomic layer deposition/molecular layer deposition. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , <b>2014</b> , 32, 01A105	2.9	23
81	<sup>57</sup> Fe Mössbauer study of a secondary phase in FeSe <sub>1-x</sub> with a large quadrupole splitting. <i>Hyperfine Interactions</i> , <b>2014</b> , 226, 341-349	0.8	3
80	Magnetic structure of Sr <sub>2</sub> CuWO <sub>6</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2014</b> , 26, 496001	1.8	16
79	Efficiently suppressed thermal conductivity in ZnO thin films via periodic introduction of organic layers. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 12150-12152	13	59
78	Synthesis, crystal structure and magnetic properties of a new B-site ordered double perovskite Sr <sub>2</sub> Cu <sub>2</sub> O <sub>6</sub> . <i>Journal of Solid State Chemistry</i> , <b>2014</b> , 220, 28-31	3.3	8
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76	Antibacterial and barrier properties of oriented polymer films with ZnO thin films applied with atomic layer deposition at low temperatures. <i>Thin Solid Films</i> , <b>2014</b> , 562, 331-337	2.2	42
75	ZnO: Hydroquinone superlattice structures fabricated by atomic/molecular layer deposition. <i>Thin Solid Films</i> , <b>2014</b> , 551, 23-26	2.2	31
74	Organic and inorganic-organic thin film structures by molecular layer deposition: A review. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 1104-36	3	208
73	SrCoO <sub>3</sub> thin films by atomic layer deposition. <i>Applied Surface Science</i> , <b>2014</b> , 320, 838-842	6.7	5
72	Organic-Inorganic Thin Films from TiCl <sub>4</sub> and 4-Aminophenol Precursors: A Model Case of ALD/MLD Hybrid-Material Growth?. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 968-974	2.3	22
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70	Mixing ALD/MLD-grown ZnO and Zn-4-aminophenol layers into various thin-film structures. <i>Dalton Transactions</i> , <b>2013</b> , 42, 15043-52	4.3	12
69	Thermoelectric characteristics of (Zn,Al)O/hydroquinone superlattices. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13619	13	62
68	Evidence of magnetic broadening in Mössbauer spectra of superconducting FeTe <sub>0.8</sub> S <sub>0.2</sub> . <i>Hyperfine Interactions</i> , <b>2013</b> , 221, 15-21	0.8	4
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66	Electron doping of ALD-grown ZnO thin films through Al and P substitutions. <i>Journal of Materials Science</i> , <b>2013</b> , 48, 2806-2811	4.3	16

65	Oxygen Storage Capacity and Phase Stability of Variously Substituted YBaCo <sub>4</sub> O <sub>7</sub> + $\delta$ <i>Chemistry of Materials</i> , <b>2013</b> , 25, 599-604	9.6	53
64	Overdoped cuprates with high-temperature superconducting transitions. <i>APL Materials</i> , <b>2013</b> , 1, 021103	5.7	11
63	Spin State of Co <sup>3+</sup> in LaCo <sub>1-x</sub> Rh <sub>x</sub> O <sub>3</sub> Investigated by Structural Phenomena. <i>Journal of the Physical Society of Japan</i> , <b>2013</b> , 82, 114606	1.5	6
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61	Barrier properties of Al <sub>2</sub> O <sub>3</sub> and alucone coatings and nanolaminates on flexible biopolymer films. <i>Thin Solid Films</i> , <b>2012</b> , 520, 6780-6785	2.2	59
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59	Synthesis and Characterization of Sr <sub>2</sub> Cu(W <sub>1-x</sub> Mox)O <sub>6</sub> : A Quasi-Two-Dimensional Magnetic System. <i>Chemistry of Materials</i> , <b>2012</b> , 24, 2764-2774	9.6	25
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57	Preparation of amino acid nanoparticles at varying saturation conditions in an aerosol flow reactor. <i>Journal of Nanoparticle Research</i> , <b>2012</b> , 14, 1	2.3	2
56	Inorganic hollow nanotube aerogels by atomic layer deposition onto native nanocellulose templates. <i>ACS Nano</i> , <b>2011</b> , 5, 1967-74	16.7	265
55	Homologous series of (Cu,Mo)Sr <sub>2</sub> (Y,Ce) <sub>s</sub> Cu <sub>2</sub> O <sub>5+2s</sub> + $\delta$ copper-oxide superconductors: Synthesis of members up to s=6. <i>Solid State Communications</i> , <b>2011</b> , 151, 1400-1403	1.6	4
54	Effect of heat-treatment on the performance of gas barrier layers applied by atomic layer deposition onto polymer-coated paperboard. <i>Journal of Applied Polymer Science</i> , <b>2011</b> , 122, 2221-2227	2.9	10
53	Extensive Series of Hexagonal and Orthorhombic RMnO <sub>3</sub> (R = Y, La, Sm, Tb, Yb, Lu) Thin Films by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2011</b> , 23, 1835-1840	9.6	31
52	Layer-by-layer deposition of Ti <sub>4</sub> ,4'-oxydianiline hybrid thin films. <i>Applied Surface Science</i> , <b>2011</b> , 257, 6435-6439	6.7	43
51	Low-temperature atomic layer deposition of ZnO thin films: Control of crystallinity and orientation. <i>Thin Solid Films</i> , <b>2011</b> , 519, 5319-5322	2.2	81
50	Magnetodielectric response of square-coordinated MnO <sub>2</sub> unit in cubic BiMn <sub>7</sub> O <sub>12</sub> . <i>Applied Physics Letters</i> , <b>2011</b> , 98, 072903	3.4	9
49	Self-erasing and rewritable wettability patterns on ZnO thin films. <i>Applied Physics Letters</i> , <b>2010</b> , 97, 044102	10.2	24
48	Superconductivity and oxygen ordering correlations in the homologous series of (Cu,Mo)Sr <sub>2</sub> (Ce,Y) <sub>s</sub> Cu <sub>2</sub> O <sub>5+2s</sub> + $\delta$ <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	24

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46	Photo-Controlled Wettability Switching by Conformal Coating of Nanoscale Topographies with Ultrathin Oxide Films. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 3349-3352	9.6	52
45	Control of Oxygen Nonstoichiometry and Magnetic Property of $\text{MnCo}_2\text{O}_4$ Thin Films Grown by Atomic Layer Deposition. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6297-6300	9.6	30
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43	Phase formation and magnetotransport of alkali metal doped $\text{Na}_{0.75}\text{CoO}_2$ thermoelectric oxide. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 09D716	2.5	4
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19	Growth of conductive copper sulfide thin films by atomic layer deposition. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 1022-1026		78
18	Oxygen content analysis of functional perovskite-derived cobalt oxides. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 1761-1764		112
17	Application of Multivariate Data Analysis Techniques in Modeling Structure-Property Relationships of Some Superconductive Cuprates. <i>Journal of Solid State Chemistry</i> , <b>2001</b> , 162, 1-9	3.3	7
16	Simultaneously enhanced thermoelectric power and reduced resistivity of Na <sub>x</sub> Co <sub>2</sub> O <sub>4</sub> by controlling Na nonstoichiometry. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 1480-1482	3.4	136
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13	Application of high-pressure techniques: stabilization and oxidation-state control of novel superconductive and related multi-layered copper oxides. <i>Superconductor Science and Technology</i> , <b>2000</b> , 13, R33-R52	3.1	59
12	Ca-substitution and O-doping effects in superconducting Cu(Ba <sub>0.8</sub> Sr <sub>0.2</sub> ) <sub>2</sub> (Yb <sub>1-x</sub> Cax)Cu <sub>2</sub> O <sub>6</sub> +z obtained from neutron diffraction refinements. <i>Physical Review B</i> , <b>1999</b> , 60, 4378-4385	3.3	15

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6	Homologous series of layered cuprates. <i>Physica C: Superconductivity and Its Applications</i> , <b>1996</b> , 263, 146-150		66
5	Studies of hyperfine interactions in RBa <sub>2</sub> (Cu <sub>1-x</sub> 57Fex) <sub>3</sub> O <sub>7</sub> -high-T <sub>c</sub> superconductors. <i>Hyperfine Interactions</i> , <b>1990</b> , 55, 1399-1403	0.8	7
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1	Atomic/Molecular Layer Deposition for Designer's Functional Metal/Organic Materials. <i>Advanced Materials Interfaces</i> , 2200210	4.6	5