Maarit Karppinen

List of Publications by Year
in descending order

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215	7,636	66234	66788
papers	citations	42 h-index	78 g-index

220	220	220	8513
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A2Bâ€²Bâ€³O6 perovskites: A review. Progress in Solid State Chemistry, 2015, 43, 1-36.	3.9	904
2	Atomic layer deposition of ZnO: a review. Semiconductor Science and Technology, 2014, 29, 043001.	1.0	331
3	Inorganic Hollow Nanotube Aerogels by Atomic Layer Deposition onto Native Nanocellulose Templates. ACS Nano, 2011, 5, 1967-1974.	7.3	292
4	Organic and inorganicâ€“organic thin film structures by molecular layer deposition: A review. Beilstein Journal of Nanotechnology, 2014, 5, 1104-1136.	1.5	245
5	Double-Perovskite Anode Materials Sr₂MMoO₆ (M = Co, Ni) for Solid Oxide Fuel Cells. Chemistry of Materials, 2009, 21, 2319-2326.	3.2	218
6	Evidence for valence fluctuation of Fe in Sr2FeMoO6âˆ'w double perovskite. Applied Physics Letters, 2000, 76, 2925-2927.	1.5	185
7	Simultaneously enhanced thermoelectric power and reduced resistivity of NaxCo2O4 by controlling Na nonstoichiometry. Applied Physics Letters, 2001, 79, 1480-1482.	1.5	148
8	Oxygen content analysis of functional perovskite-derived cobalt oxides. Journal of Materials Chemistry, 2002, 12, 1761-1764.	6.7	125
9	Evidence for Oxygen Vacancies in Misfit-Layered Calcium Cobalt Oxide, [CoCa2O3]qCoO2. Chemistry of Materials, 2004, 16, 2790-2793.	3.2	124
10	Titanium dioxide thin films by atomic layer deposition: a review. Semiconductor Science and Technology, 2017, 32, 093005.	1.0	118
11	Atomic Layer Deposition of Lithium Phosphorus Oxynitride. Chemistry of Materials, 2015, 27, 6987-6993.	3.2	105
12	Organic electrode materials with solid-state battery technology. Journal of Materials Chemistry A, 2019, 7, 18735-18758.	5.2	101
13	Control of the charge inhomogeneity and high-Tc superconducting properties in homologous series of multi-layered copper oxides. Materials Science and Engineering Reports, 1999, 26, 51-96.	14.8	99
14	Atomic/Molecular Layer Deposition of Lithium Terephthalate Thin Films as High Rate Capability Li-Ion Battery Anodes. Nano Letters, 2016, 16, 1276-1281.	4.5	97
15	Atomic/molecular layer deposition: a direct gas-phase route to crystalline metalâ€“organic framework thin films. Chemical Communications, 2016, 52, 1139-1142.	2.2	97
16	Low-temperature atomic layer deposition of ZnO thin films: Control of crystallinity and orientation. Thin Solid Films, 2011, 519, 5319-5322.	0.8	90
17	Growth of conductive copper sulfide thin films by atomic layer deposition. Journal of Materials Chemistry, 2002, 12, 1022-1026.	6.7	88
18	Cationic Ordering and Microstructural Effects in the Ferromagnetic Perovskite La_{0.5}Ba_{0.5}CoO₃: Impact upon Magnetotransport Properties. Chemistry of Materials, 2008, 20, 2742-2750.	3.2	88

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19	New Member of the â€œ112â€•Family, LaBaCo₂O_{5.5}: Synthesis, Structure, and Magnetism. Chemistry of Materials, 2009, 21, 102-109.	3.2	81
20	Spin-liquid-like state in a spin-1/2 square-lattice antiferromagnet perovskite induced by d10â€“d0 cation mixing. Nature Communications, 2018, 9, 1085.	5.8	81
21	Homologous series of layered cuprates. Physica C: Superconductivity and Its Applications, 1996, 263, 146-150.	0.6	78
22	Atomic-Level Structural and Electronic Properties of Hybrid Inorganicâ€“Organic ZnO:Hydroquinone Superlattices Fabricated by ALD/MLD. Journal of Physical Chemistry C, 2015, 119, 13105-13114.	1.5	75
23	Comparison of some coating techniques to fabricate barrier layers on packaging materials. Thin Solid Films, 2010, 518, 5463-5466.	0.8	74
24	Application of high-pressure techniques: stabilization and oxidation-state control of novel superconductive and related multi-layered copper oxides. Superconductor Science and Technology, 2000, 13, R33-R52.	1.8	73
25	Crystal and Magnetic Structure of the Orthorhombic Perovskite YbMnO3. Chemistry of Materials, 2006, 18, 2130-2134.	3.2	70
26	Thermoelectric characteristics of (Zn,Al)O/hydroquinone superlattices. Journal of Materials Chemistry A, 2013, 1, 13619.	5.2	68
27	Barrier properties of Al2O3 and alucone coatings and nanolaminates on flexible biopolymer films. Thin Solid Films, 2012, 520, 6780-6785.	0.8	66
28	Efficiently suppressed thermal conductivity in ZnO thin films via periodic introduction of organic layers. Journal of Materials Chemistry A, 2014, 2, 12150-12152.	5.2	66
29	Synthesis and Properties of CoO₂, the x = 0 End Member of the Li_xCoO₂ and Na_xCoO₂ Systems. Chemistry of Materials, 2007, 19, 5063-5066.	3.2	62
30	A comparative study of the functionalization of mesoporous silica MCM-41 by deposition of 3-aminopropyltrimethoxysilane from toluene and from the vapor phase. Microporous and Mesoporous Materials, 2009, 121, 79-83.	2.2	59
31	Atomic layer deposition of metals: Precursors and film growth. Applied Physics Reviews, 2019, 6, .	5.5	58
32	Photo-Controlled Wettability Switching by Conformal Coating of Nanoscale Topographies with Ultrathin Oxide Films. Chemistry of Materials, 2010, 22, 3349-3352.	3.2	57
33	In Situ Atomic/Molecular Layer-by-Layer Deposition of Inorganicâ€“Organic Coordination Network Thin Films from Gaseous Precursors. Chemistry of Materials, 2016, 28, 6260-6265.	3.2	57
34	Oxygen Storage Capacity and Phase Stability of Variously Substituted YBaCo₄O_{7+Î´}. Chemistry of Materials, 2013, 25, 599-604.	3.2	56
35	Inorganicâ€“organic superlattice thin films for thermoelectrics. Journal of Materials Chemistry C, 2015, 3, 10349-10361.	2.7	55
36	Flexible Thermoelectric ZnOâ€“Organic Superlattices on Cotton Textile Substrates by ALD/MLD. Advanced Electronic Materials, 2017, 3, 1600459.	2.6	48

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37	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
38	Layer-by-layer deposition of Tiâ€“4,4â€²-oxydianiline hybrid thin films. Applied Surface Science, 2011, 257, 6435-6439.	3.1	47
39	Antibacterial and barrier properties of oriented polymer films with ZnO thin films applied with atomic layer deposition at low temperatures. Thin Solid Films, 2014, 562, 331-337.	0.8	47
40	Atomic Layer Deposition of WO₃ Thin Films using W(CO)₆ and O₃ Precursors. Chemical Vapor Deposition, 2012, 18, 245-248.	1.4	45
41	Atomic Layer Deposition of pâ€Type Semiconducting Thin Films: a Review. Advanced Materials Interfaces, 2017, 4, 1700300.	1.9	45
42	Iron-Terephthalate Coordination Network Thin Films Through In-Situ Atomic/Molecular Layer Deposition. Scientific Reports, 2018, 8, 8976.	1.6	45
43	Advances in upconversion enhanced solar cell performance. Solar Energy Materials and Solar Cells, 2021, 230, 111234.	3.0	45
44	Lanthanide-based inorganicâ€“organic hybrid materials for photon-upconversion. Journal of Materials Chemistry C, 2020, 8, 6946-6965.	2.7	43
45	New Water-Containing Phase Derived from the Sr3Fe2O7-Î´Phase of the Ruddlesdenâ€“Popper Structure. Chemistry of Materials, 2005, 17, 2775-2779.	3.2	40
46	Heat-transport mechanisms in molecular building blocks of inorganic/organic hybrid superlattices. Physical Review B, 2016, 93, .	1.1	40
47	Control of Oxygen Nonstoichiometry and Magnetic Property of MnCo₂O₄ Thin Films Grown by Atomic Layer Deposition. Chemistry of Materials, 2010, 22, 6297-6300.	3.2	39
48	Extensive Series of Hexagonal and Orthorhombic RMnO₃ (R = Y, La, Sm, Tb, Yb, Lu) Thin Films by Atomic Layer Deposition. Chemistry of Materials, 2011, 23, 1835-1840.	3.2	39
49	Parent of Misfit-Layered Cobalt Oxides:â€‰ [Sr2O2]qCoO2. Chemistry of Materials, 2006, 18, 155-158.	3.2	38
50	Porosity-tuned thermal conductivity in thermoelectric Al-doped ZnO thin films grown by mist-chemical vapor deposition. Thin Solid Films, 2019, 685, 180-185.	0.8	38
51	Atomic layer deposition of transparent semiconducting oxide CuCrO₂ thin films. Journal of Materials Chemistry C, 2015, 3, 8364-8371.	2.7	37
52	In situ lithiated quinone cathode for ALD/MLD-fabricated high-power thin-film battery. Journal of Materials Chemistry A, 2018, 6, 7027-7033.	5.2	37
53	Tuning the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> square-lattice antiferromagnet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi		

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55	Identification of superconducting phases in the Ba-Ca-Cu-O system: an unstable phase with Tcâ‰ˆ126 K and its derivative with Tcâ‰ˆ90 K. Journal of Materials Chemistry, 1999, 9, 1141-1148.	6.7	35
56	Hole concentration in the three-CuO2-plane copper-oxide superconductor Cu-1223. Journal of Solid State Chemistry, 2004, 177, 1037-1043.	1.4	35
57	Characterization of magnetic properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow><mml:mi>Sr</mml:mi></mml:mrow><mml:mn>2</mml:mn><mml:mrow><mml:mi>CuWO</mml:mi></mml:mrow><mml:mn>6</mml:mn></mml:msub></mml:math>. Physical Review B, 2014, 89, .	1.1	35
58	ALD/MLD of novel layer-engineered Zn-based inorganicâ€“organic hybrid thin films using heterobifunctional 4-aminophenol as an organic precursor. Dalton Transactions, 2013, 42, 3869.	1.6	34
59	Atomic/Molecular Layer Deposition of sâ€Block Metal Carboxylate Coordination Network Thin Films. Chemistry - A European Journal, 2017, 23, 18225-18231.	1.7	34
60	Electronic and Vibrational Properties of TiS₂, ZrS₂, and HfS₂: Periodic Trends Studied by Dispersion-Corrected Hybrid Density Functional Methods. Journal of Physical Chemistry C, 2018, 122, 26835-26844.	1.5	34
61	The YBaCo₄O₇₊_{Î´}â€Based Functional Oxide Material Family: A Review. European Journal of Inorganic Chemistry, 2014, 2014, 4056-4067.	1.0	33
62	ZnO: Hydroquinone superlattice structures fabricated by atomic/molecular layer deposition. Thin Solid Films, 2014, 551, 23-26.	0.8	33
63	Ultra-low thermal conductivity in TiO2:C superlattices. Journal of Materials Chemistry A, 2015, 3, 11527-11532.	5.2	33
64	Enhanced pâ€Type Transparent Semiconducting Characteristics for ALDâ€Grown Mgâ€Substituted CuCrO₂ Thin Films. Advanced Electronic Materials, 2017, 3, 1600341.	2.6	33
65	Layer-specific hole concentrations inBi2Sr2(Y1â¯xCax)Cu2O8+Î´as probed by XANES spectroscopy and coulometric redox analysis. Physical Review B, 2003, 67, .	1.1	32
66	Synthesis and Characterization of Sr₂Cu(W_{1â€“x}Mo_x)O₆: A Quasi-Two-Dimensional Magnetic System. Chemistry of Materials, 2012, 24, 2764-2774.	3.2	32
67	Self-erasing and rewritable wettability patterns on ZnO thin films. Applied Physics Letters, 2010, 97, .	1.5	31
68	Atomic layer deposition of quaternary oxide (La,Sr)CoO_{3â¯Î´} thin films. Dalton Transactions, 2015, 44, 8001-8006.	1.6	31
69	Tunable optical properties of hybrid inorganicâ€“organic [(TiO₂)_m(Tiâ€“Oâ€“C₆H₄â€“Oâ€“)_k]_n superlattice thin films. Dalton Transactions, 2015, 44, 591-597.	1.6	29
70	Reduction in thermal conductivity and tunable heat capacity of inorganic/organic hybrid superlattices. Physical Review B, 2016, 93, .	1.1	29
71	Reversible Photoswitching Function in Atomic/Molecular-Layer-Deposited ZnO:Azobenzene Superlattice Thin Films. Chemistry of Materials, 2018, 30, 5904-5911.	3.2	29
72	Atomic/Molecular Layer Deposited Ironâ€“Azobenzene Framework Thin Films for Stimuliâ€Induced Gas Molecule Capture/Release. Angewandte Chemie - International Edition, 2019, 58, 13400-13404.	7.2	29

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73	Flexible Îµ-Fe₂O₃-Terephthalate Thin-Film Magnets through ALD/MLD. ACS Applied Materials & Interfaces, 2020, 12, 21912-21921.	4.0	29
74	Atomic/Molecular Layer Deposition for Designer's Functional Metalâ€“Organic Materials. Advanced Materials Interfaces, 2022, 9, .	1.9	29
75	Homologous Series of SrCoO(3nâ^'1)/n Perovskites Obtained Through Br2 Oxygenation of SrCoO2.5. Chemistry of Materials, 2008, 20, 7143-7147.	3.2	28
76	Simple ALD process for Îµ-Fe₂O₃ thin films. APL Materials, 2017, 5, 056104.	2.2	28
77	Hybrid inorganicâ€“organic superlattice structures with atomic layer deposition/molecular layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	27
78	Organic-Inorganic Thin Films from TiCl4and 4-Aminophenol Precursors: A Model Case of ALD/MLD Hybrid-Material Growth?. European Journal of Inorganic Chemistry, 2014, 2014, 968-974.	1.0	26
79	Magnetic structure of Sr₂CuWO₆. Journal of Physics Condensed Matter, 2014, 26, 496001.	0.7	26
80	Iron-based inorganicâ€“organic hybrid and superlattice thin films by ALD/MLD. Dalton Transactions, 2015, 44, 19194-19199.	1.6	26
81	Layer-by-layer design of nanostructured thermoelectrics: First-principles study of ZnO:organic superlattices fabricated by ALD/MLD. Nano Energy, 2016, 22, 338-348.	8.2	26
82	Thermal Conductivity Reduction at Inorganicâ€“Organic Interfaces: From Regular Superlattices to Irregular Gradient Layer Sequences. Advanced Materials Interfaces, 2018, 5, 1701692.	1.9	26
83	Superconductivity and oxygen ordering correlations in the homologous series of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"		

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91	Exchange Interactions Mediated by Nonmagnetic Cations in Double Perovskites. Physical Review Letters, 2020, 124, 077202.	2.9	23
92	Thermoelectric Properties of Oxygen-Tuned ALD-Grown [Ca₂CoO₃]_{0.62}[CoO₂] Thin Films. Chemistry of Materials, 2010, 22, 5900-5904.	3.2	22
93	Electrochemically Active In Situ Crystalline Lithium-Organic Thin Films by ALD/MLD. ACS Applied Materials & Interfaces, 2020, 12, 41557-41566.	4.0	21
94	Amorphous-to-crystalline transition and photoluminescence switching in guest-absorbing metalâ€“organic network thin films. Chemical Communications, 2020, 56, 241-244.	2.2	20
95	Impacts of the â€œzeroâ€•homologous series, 01(nâˆ’1)n and 02(nâˆ’1)n. Physica C: Superconductivity and Its Applications, 2000, 335, 273-278.	0.6	19
96	Atomic/molecular layer deposited thin-film alloys of Ti-4,4â€²-oxydianiline hybridâ€“TiO2 with tunable properties. Dalton Transactions, 2012, 41, 10731.	1.6	19
97	Strongly reduced thermal conductivity in hybrid ZnO/nanocellulose thin films. Journal of Materials Science, 2017, 52, 6093-6099.	1.7	19
98	Electronic Structures, Hole-Doping, and Superconductivity of the s = 1, 2, 3, and 4 Members of the (Cu,Mo)-12s2 Homologous Series of Superconductive Copper Oxides. Journal of the American Chemical Society, 2010, 132, 838-841.	6.6	18
99	Electron doping of ALD-grown ZnO thin films through Al and P substitutions. Journal of Materials Science, 2013, 48, 2806-2811.	1.7	18
100	Competition between ferromagnetism and antiferromagnetism in the rutile<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">C</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>1</mml:mn><mml:mo>â”</mml:mo><mml:mi>x</mml:mi></mml:mrow></mml:msub><mml:msub><mml:mi mathvariant="normal">V</mml:mi><mml:mi>x</mml:mi></mml:msub><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math>system.	1.1	18
101	Three-Dimensional Uracil Network with Sodium as a Linker. Journal of Physical Chemistry C, 2016, 120, 26342-26349.	1.5	18
102	Atomic layer deposition of nickelâ€“cobalt spinel thin films. Dalton Transactions, 2017, 46, 4796-4805.	1.6	18
103	Luminescent Metal-Nucleobase Network Thin Films by Atomic/Molecular Layer Deposition. Journal of Physical Chemistry C, 2017, 121, 17538-17545.	1.5	18
104	Fermi surface topology and large magnetoresistance in the topological semimetal candidate PrBi. Physical Review B, 2019, 99, .	1.1	18
105	Ca-substitution and O-doping effects in superconductingCu(Ba0.8Sr0.2)2(Yb1â”xCax)Cu2O6+zobtained from neutron diffraction refinements. Physical Review B, 1999, 60, 4378-4385.	1.1	17
106	Atomic/molecular layer deposition of hybrid inorganicâ€“organic thin films from erbium guanidinate precursor. Journal of Materials Science, 2017, 52, 6216-6224.	1.7	17
107	Intercalation of Primary Alcohols into Layered Titanoniobates. Inorganic Chemistry, 2017, 56, 9132-9138.	1.9	17
108	Atomic/molecular layer deposition and electrochemical performance of dilithium 2-aminoterephthalate. Dalton Transactions, 2020, 49, 1591-1599.	1.6	17

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109	Synthesis, crystal structure and magnetic properties of a new B -site ordered double perovskite Sr 2 CuIrO 6. Journal of Solid State Chemistry, 2014, 220, 28-31.	1.4	16
110	ALD/MLD fabrication of luminescent Eu-organic hybrid thin films using different aromatic carboxylic acid components with N and O donors. RSC Advances, 2016, 6, 103412-103417.	1.7	16
111	Low-temperature atomic layer deposition of crystalline manganese oxide thin films. Dalton Transactions, 2016, 45, 18737-18741.	1.6	15
112	Anomalous thickness-dependent optical energy gap of ALD-grown ultra-thin CuO films. Journal of Physics Condensed Matter, 2016, 28, 475801.	0.7	15
113	Numerical study on the fluid dynamical aspects of atomic layer deposition process. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, .	0.9	15
114	Atomic Layer Deposition of Conducting CuS Thin Films from Elemental Sulfur. Advanced Materials Interfaces, 2018, 5, 1701366.	1.9	15
115	New sâ€Block Metal Pyridinedicarboxylate Network Structures through Gasâ€Phase Thinâ€Film Synthesis. Chemistry - A European Journal, 2019, 25, 11466-11473.	1.7	15
116	Magnetic interactions in the S = 1/2 square-lattice antiferromagnets Ba₂CuTeO₆ and Ba₂CuWO₆: parent phases of a possible spin liquid. Chemical Communications, 2019, 55, 1132-1135.	2.2	15
117	Atomic and Molecular Layer Deposition of Alkali Metal Based Thin Films. ACS Applied Materials & Interfaces, 2021, 13, 56793-56811.	4.0	15
118	High-Tcsuperconductivity in three-fluorite-layer copper oxides. II.(Cu,Mo)Sr2(Ce,Y)3Cu2O11+Î´. Physical Review B, 2004, 70, .	1.1	14
119	Mixing ALD/MLD-grown ZnO and Zn-4-aminophenol layers into various thin-film structures. Dalton Transactions, 2013, 42, 15043.	1.6	14
120	Atomic/molecular layer deposition of Cuâ€“organic thin films. Dalton Transactions, 2018, 47, 15791-15800.	1.6	14
121	Tailoring of Optoelectronic Properties of Ïµâ€Fe₂O₃ Thin Films Through Insertion of Organic Interlayers. Physica Status Solidi - Rapid Research Letters, 2018, 12, 1800390.	1.2	14
122	Redox state analysis for understanding the high-Tc superconductivity in highly unstable Ba2Ca2Cu3O8â¯Î´ phase with Tcâ‰ˆ124 K and its derivative phase with Tcâ‰ˆ78 K. Physica C: Superconductivity and Its Applications, 2002, 382, 276-282.	0.6	13
123	Effect of heatâ€treatment on the performance of gas barrier layers applied by atomic layer deposition onto polymerâ€coated paperboard. Journal of Applied Polymer Science, 2011, 122, 2221-2227.	1.3	13
124	EXAFS study of thermoelectric BiCuOSe: Effects of Cu vacancies. Solid State Communications, 2015, 206, 12-16.	0.9	13
125	Excitation-dependent fluorescence from atomic/molecular layer deposited sodium-uracil thin films. Scientific Reports, 2017, 7, 6982.	1.6	13
126	Assessment of magnetic properties of A₂Bâ€²Bâ€²â€²O₆ double perovskites by multivariate data analysis techniques. Chemical Communications, 2019, 55, 1722-1725.	2.2	13

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127	Up-converting ALD/MLD thin films with Yb3+, Er3+ in amorphous organic framework. Journal of Luminescence, 2019, 213, 310-315.	1.5	13
128	Mechanics of Nanoscale Îµ-Fe₂O₃/Organic Superlattices toward Flexible Thin-Film Magnets. ACS Applied Nano Materials, 2021, 4, 1692-1701.	2.4	13
129	Functionally Graded Tunable Microwave Absorber with Graphene-Augmented Alumina Nanofibers. ACS Applied Materials & Interfaces, 2021, 13, 21613-21625.	4.0	13
130	Phase formation and magnetotransport of alkali metal doped Na0.75CoO2 thermoelectric oxide. Journal of Applied Physics, 2010, 107, 09D716.	1.1	12
131	Transparent ferrimagnetic semiconducting CuCr2O4 thin films by atomic layer deposition. APL Materials, 2016, 4, .	2.2	12
132	Pressure-induced phase transitions of hexagonal perovskite-like oxides. Journal of Solid State Chemistry, 2016, 233, 492-496.	1.4	12
133	Structural distinction due to deposition method in ultrathin films of cellulose nanofibres. Cellulose, 2018, 25, 1715-1724.	2.4	12
134	Textileâ€Integrated ZnOâ€Based Thermoelectric Device Using Atomic Layer Deposition. Advanced Engineering Materials, 2020, 22, 2000535.	1.6	12
135	Layered structure of alumina/graphene-augmented-inorganic-nanofibers with directional electrical conductivity. Carbon, 2020, 167, 634-645.	5.4	12
136	Local lattice distortions and dynamics in extremely overdoped superconducting YSr ₂ Cu _{2.75} Mo _{0.25} O _{7.54}. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4559-4564.	3.3	12
137	Hole doping and superconductivity characteristics of the s=1, 2 and 3 members of the (Cu,Mo)-12s2 homologous series of layered copper oxides. Journal of Solid State Chemistry, 2005, 178, 3464-3470.	1.4	11
138	Overdoped cuprates with high-temperature superconducting transitions. APL Materials, 2013, 1, .	2.2	11
139	Al2O3 coating grown on Nafion membranes by atomic layer deposition. Journal of Membrane Science, 2015, 495, 101-109.	4.1	11
140	Low-Temperature Molecular Layer Deposition Using Monofunctional Aromatic Precursors and Ozone-Based Ring-Opening Reactions. Langmuir, 2017, 33, 9657-9665.	1.6	11
141	Structure evolution upon chemical and physical pressure in (Sr1â^'xBax)2FeSbO6. Journal of Solid State Chemistry, 2017, 246, 245-251.	1.4	11
142	The [U₂F₁₂]^{2â^'} Anion of Sr[U₂F₁₂]. Angewandte Chemie - International Edition, 2018, 57, 2914-2918.	7.2	11
143	Atomic/Molecular Layer Deposited Ironâ€“Azobenzene Framework Thin Films for Stimuliâ€Induced Gas Molecule Capture/Release. Angewandte Chemie, 2019, 131, 13534-13538.	1.6	11
144	Organic-Component Dependent Crystal Orientation and Electrical Transport Properties in ALD/MLD Grown ZnOâ€“Organic Superlattices. Journal of Physical Chemistry C, 2020, 124, 13765-13770.	1.5	11

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145	CO₂-based atomic/molecular layer deposition of lithium ethylene carbonate thin films. Nanoscale Advances, 2020, 2, 2441-2447.	2.2	11
146	Rational Development of Guanidinate and Amidinate Based Cerium and Ytterbium Complexes as Atomic Layer Deposition Precursors: Synthesis, Modeling, and Application. Chemistry - A European Journal, 2021, 27, 4913-4926.	1.7	11
147	Mixedâ€Anion Compounds: An Unexplored Playground for ALD Fabrication. Advanced Materials Interfaces, 2021, 8, 2100146.	1.9	11
148	Semiconducting BiOCuSe Thermoelectrics and Its Metallic Derivative Bi₂YO₄Cu₂Se₂. European Journal of Inorganic Chemistry, 2015, 2015, 2574-2578.	1.0	10
149	Photon upâ€converting (Yb,Er)₂O₃ thin films by atomic layer deposition. Physica Status Solidi - Rapid Research Letters, 2017, 11, 1700076.	1.2	10
150	Tailoring phonon modes of few-layered MoS2 by in-plane electric field. Npj 2D Materials and Applications, 2020, 4, .	3.9	10
151	Effect of carbon backbone on luminescence properties of Eu-organic hybrid thin films prepared by ALD/MLD. Journal of Materials Science, 2021, 56, 12634-12642.	1.7	10
152	Organic-component dependent thermal conductivity reduction in ALD/MLD grown ZnO:organic superlattice thin films. Applied Physics Letters, 2021, 118, 211903.	1.5	10
153	Magnetodielectric response of square-coordinated MnO2 unit in cubic BiMn7O12. Applied Physics Letters, 2011, 98, 072903.	1.5	9
154	Microstructure and optical properties of ultra-thin NiO films grown by atomic layer deposition. Semiconductor Science and Technology, 2018, 33, 115015.	1.0	9
155	New chemical mechanism explaining the breakdown of protective oxides on high temperature steels in biomass combustion and gasification plants. RSC Advances, 2019, 9, 10034-10048.	1.7	9
156	Experimental Control and Statistical Analysis of Thermal Conductivity in ZnOâ€“Benzene Multilayer Thin Films. Journal of Physical Chemistry C, 2020, 124, 24731-24739.	1.5	9
157	Low-pressure thermogravimetric analysis for finding sublimation temperatures for organic precursors in atomic/molecular layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	9
158	Luminescent (Er,Ho)2O3 thin films by ALD to enhance the performance of silicon solar cells. Solar Energy Materials and Solar Cells, 2021, 219, 110787.	3.0	9
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