Ai-Dong Li

List of Publications by Citations

192 papers	4,652 citations	33 h-index	61 g-index
199 ext. papers	5,361 ext. citations	4.7 avg, IF	5.56 L-index

#	Paper	IF	Citations
192	Monolithic all-perovskite tandem solar cells with 24.8% efficiency exploiting comproportionation to suppress Sn(ii) oxidation in precursor ink. *Nature Energy*, **2019**, 4, 864-873	62.3	463
191	Integrated digital inverters based on two-dimensional anisotropic ReS2 field-effect transistors. *Nature Communications*, **2015**, 6, 6991	17.4	417
190	Ultrathin ZnO coating for improved electrochemical performance of LiNi0.5Co0.2Mn0.3O2 cathode material. *Journal of Power Sources*, **2014**, 266, 433-439	8.9	179
189	Ferroelectric properties of Bi3.25La0.75Ti3O12 thin films prepared by chemical solution deposition. *Journal of Applied Physics*, **2000**, 88, 5941-5945	2.5	130
188	Giant tunnelling electroresistance in metal/ferroelectric/semiconductor tunnel junctions by engineering the Schottky barrier. *Nature Communications*, **2017**, 8, 15217	17.4	115
187	Photo-degradation of methylene blue using Ta-doped ZnO nanoparticle. *Journal of Solid State Chemistry*, **2010**, 183, 1359-1364	3.3	114
186	The Antibacterial Activity of Ta-doped ZnO Nanoparticles. *Nanoscale Research Letters*, **2015**, 10, 1047	5	106
185	Enhanced electrochemical performance of LiNi 0.5 Co 0.2 Mn 0.3 O 2 cathode material by ultrathin ZrO 2 coating. *Journal of Alloys and Compounds*, **2016**, 657, 593-600	5.7	101
184	Combining Efficiency and Stability in Mixed Tin-Lead Perovskite Solar Cells by Capping Grains with an Ultrathin 2D Layer. *Advanced Materials*, **2020**, 32, e1907058	24	92
183	Processing- and composition-dependent characteristics of chemical solution deposited Bi4−xLaxTi3O12 thin films. *Journal of Materials Research*, **2001**, 16, 1325-1332	2.5	81
182	Preparation, characterization of the Ta-doped ZnO nanoparticles and their photocatalytic activity under visible-light illumination. *Journal of Solid State Chemistry*, **2009**, 182, 2061-2067	3.3	78
181	Fabrication and electrical properties of sol-gel derived BaTiO3 films with metallic LaNiO3 electrode. *Applied Physics Letters*, **1997**, 70, 1616-1618	3.4	77
180	Preparation, characterization and photocatalytic properties of ZnTiO3 powders. *Journal of Hazardous Materials*, **2009**, 171, 918-23	12.8	76
179	Improvement of electrochemical performance of nickel rich LiNi0.6Co0.2Mn0.2O2 cathode active material by ultrathin TiO2 coating. *Dalton Transactions*, **2016**, 45, 9669-75	4.3	73
178	Preparation of perovskite conductive LaNiO3 films by metalorganic decomposition. *Applied Physics Letters*, **1996**, 68, 1347-1349	3.4	71
177	Atomic layer deposition of Co3O4 on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. *Nanotechnology*, **2015**, 26, 094001	3.4	66
176	Dielectric characterization of Bi3.25La0.75Ti3O12 thin films. *Applied Physics Letters*, **2004**, 84, 4505-4507	3.4	64

175	Excellent resistive switching properties of atomic layer-deposited Al2O3/HfO2/Al2O3 trilayer structures for non-volatile memory applications. *Nanoscale Research Letters*, **2015**, 10, 135	5	59
174	Preparation and visible-light photocatalytic properties of BiNbO4 and BiTaO4 by a citrate method. *Journal of Solid State Chemistry*, **2013**, 202, 6-14	3.3	58
173	Co-doped titanate nanotubes. *Applied Physics Letters*, **2005**, 87, 112501	3.4	57
172	Characteristics of LaAlO3 gate dielectrics on Si grown by metalorganic chemical vapor deposition. *Applied Physics Letters*, **2003**, 83, 3540-3542	3.4	55
171	Structure and electrical properties of Bi3.15Nd0.85Ti3O12 ferroelectric thin films. *Journal of Applied Physics*, **2004**, 95, 4275-4281	2.5	54
170	Visible Light-Driven Photocatalytic Performance of N-Doped ZnO/g-CN Nanocomposites. *Nanoscale Research Letters*, **2017**, 12, 526	5	53
169	Improved electrochemical performance of Li1.2Mn0.54Ni0.13Co0.13O2 cathode material coated with ultrathin ZnO. *Journal of Alloys and Compounds*, **2017**, 694, 848-856	5.7	50
168	The effect of thermal treatment induced inter-diffusion at the interfaces on the charge trapping performance of HfO2/Al2O3 nanolaminate-based memory devices. *Journal of Applied Physics*, **2013**, 114, 044104	2.5	49
167	Fatigue study of metalorganic-decomposition-derived SrBi2Ta2O9 thin films: The effect of partial switching. *Applied Physics Letters*, **2000**, 76, 2208-2210	3.4	43
166	Thickness-dependent metal-insulator transition in epitaxial SrRuO3 ultrathin films. *Journal of Applied Physics*, **2015**, 117, 015307	2.5	37
165	Bipolar Resistive Switching Characteristics of HfO/TiO/HfO Trilayer-Structure RRAM Devices on Pt and TiN-Coated Substrates Fabricated by Atomic Layer Deposition. *Nanoscale Research Letters*, **2017**, 12, 393	5	37
164	Mechanical switching of ferroelectric polarization in ultrathin BaTiO3 films: The effects of epitaxial strain. *Applied Physics Letters*, **2014**, 104, 042907	3.4	36
163	A TiAl2O5 nanocrystal charge trap memory device. *Applied Physics Letters*, **2010**, 97, 143504	3.4	36
162	Photocatalytic activity and photocorrosion of atomic layer deposited ZnO ultrathin films for the degradation of methylene blue. *Nanotechnology*, **2015**, 26, 024002	3.4	34
161	Porous ZnO nanosheet arrays constructed on weaved metal wire for flexible dye-sensitized solar cells. *Nanoscale*, **2013**, 5, 5102-8	7.7	34
160	Facile synthesis of ultrafine Cu2ZnSnS4 nanocrystals by hydrothermal method for use in solar cells. *Thin Solid Films*, **2013**, 535, 39-43	2.2	34
159	Synaptic Plasticity and Learning Behaviors Mimicked in Single Inorganic Synapses of Pt/HfO/ZnO/TiN Memristive System. *Nanoscale Research Letters*, **2017**, 12, 65	5	33
158	Impact of the interfaces in the charge trap layer on the storage characteristics of ZrO2/Al2O3 nanolaminate-based charge trap flash memory cells. *Materials Letters*, **2013**, 92, 21-24	3.3	32

157	Enhanced electrochemical performance of Ni-rich LiNi0.6Co0.2Mn0.2O2 coated by molecular layer deposition derived dual-functional C-Al2O3 composite coating. *Journal of Alloys and Compounds*, **2019**, 799, 89-98	5.7	31
156	Abnormal phase transition in BiNbO4 powders prepared by a citrate method. *Journal of Alloys and Compounds*, **2011**, 509, 10230-10233	5.7	30
155	Interfacial structure and electrical properties of ultrathin HfO2dielectric films on Si substrates by surface sol□gel method. *Journal Physics D: Applied Physics*, **2009**, 42, 015405	3	30
154	ReviewⅡResistive-Type Hydrogen Sensors Based on Zinc Oxide Nanostructures. *Journal of the Electrochemical Society*, **2020**, 167, 067528	3.9	29
153	Enhanced visible light photocatalytic activity of FeO modified TiO prepared by atomic layer deposition. *Scientific Reports*, **2020**, 10, 13437	4.9	28
152	Atomic Layer Deposited Oxide-Based Nanocomposite Structures with Embedded CoPt Nanocrystals for Resistive Random Access Memory Applications. *ACS Applied Materials & Interfaces*, **2017**, 9, 6634-6643	9.5	27
151	Theoretical design and computational screening of precursors for atomic layer deposition. *Coordination Chemistry Reviews*, **2016**, 322, 94-103	23.2	27
150	Flexible Metal-Insulator Transitions Based on van der Waals Oxide Heterostructures. *ACS Applied Materials & Interfaces*, **2019**, 11, 8284-8290	9.5	26
149	Theoretical Understanding of the Reaction Mechanism of SiO2 Atomic Layer Deposition. *Chemistry of Materials*, **2016**, 28, 1247-1255	9.6	26
148	Temperature-dependent tunneling electroresistance in Pt/BaTiO3/SrRuO3 ferroelectric tunnel junctions. *Applied Physics Letters*, **2013**, 103, 132913	3.4	26
147	Self-catalysis by aminosilanes and strong surface oxidation by O2 plasma in plasma-enhanced atomic layer deposition of high-quality SiO2. *Chemical Communications*, **2015**, 51, 1341-4	5.8	26
146	Temperature-dependent leakage current characteristics of Pr and Mn cosubstituted BiFeO3 thin films. *Applied Physics Letters*, **2010**, 96, 202904	3.4	26
145	Resistive Switching Properties and Failure Behaviors of (Pt, Cu)/Amorphous ZrO2/Pt Sandwich Structures. *Journal of Materials Science and Technology*, **2016**, 32, 676-680	9.1	25
144	Preparation of (Ba0.5Sr0.5)TiO3 thin films by sol□gel method with rapid thermal annealing. *Applied Surface Science*, **2000**, 165, 309-314	6.7	24
143	The metallic interface between insulating NdGaO3 and SrTiO3 perovskites. *Applied Physics Letters*, **2013**, 103, 201602	3.4	23
142	Preparation of (1□%)(Na0.5Bi0.5)TiO3□%SrTiO3 thin films by a sol□gel method for dielectric tunable applications. *Journal of Sol-Gel Science and Technology*, **2009**, 49, 29-34	2.3	23
141	Conductive metallic LaNiO3 films from metallo-organic precursors. *Thin Solid Films*, **1997**, 298, 165-169	2.2	23
140	Electrical properties of chemical-solution-derived Bi3.54Nd0.46Ti3O12 ferroelectric thin films. *Journal of Applied Physics*, **2003**, 94, 7376-7378	2.5	23

139	Effect of excess bismuth on the microstructures and electrical properties of strontium bismuth tantalate (SBT) thin films. *Thin Solid Films*, **2000**, 375, 215-219	2.2	22
138	Growth characteristics of Ti-based fumaric acid hybrid thin films by molecular layer deposition. *Dalton Transactions*, **2015**, 44, 14782-92	4.3	21
137	Magnetic properties of FePt nanoparticle assemblies embedded in atomic-layer-deposited Al2O3. *Journal of Materials Chemistry*, **2011**, 21, 5046		21
136	Effects of processing on the characteristics of SrBi2Ta2O9 films prepared by metalorganic decomposition. *Journal of Applied Physics*, **2000**, 88, 1035-1041	2.5	21
135	Thermal atomic layer etching: Mechanism, materials and prospects. *Progress in Natural Science: Materials International*, **2018**, 28, 667-675	3.6	21
134	Improved interfacial and electrical properties of atomic layer deposition HfO2 films on Ge with La2O3 passivation. *Applied Surface Science*, **2013**, 264, 783-786	6.7	20
133	Charge Trapping Memory Characteristics of p-Si/Ultrathin Al[sub 2]O[sub 3]/(HfO[sub 2])[sub 0.8](Al[sub 2]O[sub 3])[sub 0.2]/Al[sub 2]O[sub 3]/Metal Multilayer Structure. *Electrochemical and Solid-State Letters*, **2011**, 14, G13		20
132	A comparative study of growth and properties of atomic layer deposited transparent conductive oxide of Al doped ZnO films from different Al precursors. *Thin Solid Films*, **2018**, 646, 126-131	2.2	20
131	TEM and AFM study of perovskite conductive LaNiO3 films prepared by metalorganic decomposition. *Thin Solid Films*, **1998**, 336, 386-390	2.2	19
130	Improved electrochemical performance of LiNi0.8Co0.15Al0.05O2 with ultrathin and thickness-controlled TiO2 shell via atomic layer deposition technology. *RSC Advances*, **2016**, 6, 100841-100848	3.7	18
129	TiON Modified TiO Powders Prepared by Plasma Enhanced Atomic Layer Deposition for Highly Visible Light Photocatalysis. *Scientific Reports*, **2018**, 8, 12131	4.9	18
128	Preparation and Characterization of Relaxor Ferroelectric 0.65Pb(Mg1/3Nb2/3)O3-0.35PbTiO3 by a Polymerizable Complex Method. *Journal of the American Ceramic Society*, **2009**, 92, 1256-1261	3.8	18
127	Synthesis, Characterization, and Applications of Water-Soluble Tantalum Carboxylate Precursors via a Flux Method. *Journal of the American Ceramic Society*, **2009**, 92, 1959-1965	3.8	18
126	Fabrication and electrical properties of sol-gel derived (BaSr)TiO3 thin films with metallic LaNiO3 electrode. *Thin Solid Films*, **1998**, 336, 172-175	2.2	18
125	A facile way to deposit conformal Al2O3 thin film on pristine graphene by atomic layer deposition. *Applied Surface Science*, **2014**, 291, 78-82	6.7	17
124	Atomic layer deposition enhanced grafting of phosphorylcholine on stainless steel for intravascular stents. *Colloids and Surfaces B: Biointerfaces*, **2014**, 121, 238-47	6	17
123	ZnO/ZnS Core-Shell Nanowires Arrays on Ni Foam Prepared by Atomic Layer Deposition for High Performance Supercapacitors. *Journal of the Electrochemical Society*, **2017**, 164, A3493-A3498	3.9	17
122	Surface Pseudorotation in Lewis-Base-Catalyzed Atomic Layer Deposition of SiO2: Static Transition State Search and Born-Oppenheimer Molecular Dynamics Simulation. *Journal of Physical Chemistry C*, **2012**, 116, 26436-26448	3.8	17

121	Self-formed porous Ni(OH)2 on Ni3S2/Ni foam during electrochemical cycling for high performance supercapacitor with ultrahigh areal capacitance. *Electrochimica Acta*, **2019**, 303, 148-156	6.7	17
120	Biomimetic strain sensors based on patterned polydimethylsiloxane and Ir nanoparticles decorated multi-walled carbon nanotubes. *Sensors and Actuators A: Physical*, **2019**, 289, 57-64	3.9	16
119	Atomic layer deposition of ZnO/TiO nanolaminates as ultra-long life anode material for lithium-ion batteries. *Scientific Reports*, **2019**, 9, 11526	4.9	16
118	Nonvolatile memory capacitors based on Al2O3 tunneling and HfO2 blocking layers with charge storage in atomic-layer-deposited Pt nanocrystals. *Applied Surface Science*, **2014**, 289, 332-337	6.7	16
117	Structural and electrical properties of PbTiO3 thin films on conductive oxide LaNiO3 coated Si substrates prepared by sol□gel method. *Thin Solid Films*, **2000**, 375, 220-223	2.2	16
116	Comparison of chemical stability and corrosion resistance of group IV metal oxide films formed by thermal and plasma-enhanced atomic layer deposition. *Scientific Reports*, **2019**, 9, 10438	4.9	15
115	Atomic Layer Deposition of High-Capacity Anodes for Next-Generation Lithium-Ion Batteries and Beyond. *Energy and Environmental Materials*, **2021**, 4, 363-391	13	15
114	Photocatalytic Properties of CoO-Coated TiO Powders Prepared by Plasma-Enhanced Atomic Layer Deposition. *Nanoscale Research Letters*, **2017**, 12, 497	5	14
113	Atomic Layer Deposition of Al-doped ZnO Films Using Aluminum Isopropoxide as the Al Precursor. *Chemical Vapor Deposition*, **2013**, 19, 180-185		14
112	Atomic-Layer-Deposition Assisted Formation of Wafer-Scale Double-Layer Metal Nanoparticles with Tunable Nanogap for Surface-Enhanced Raman Scattering. *Scientific Reports*, **2017**, 7, 5161	4.9	14
111	Enhanced memory performance by tailoring the microstructural evolution of (ZrO2)0.6(SiO2)0.4 charge trapping layer in the nanocrystallites-based charge trap flash memory cells. *Applied Physics A: Materials Science and Processing*, **2012**, 108, 217-222	2.6	14
110	Improved corrosion protection of CrN hard coating on steel sealed with TiOxNy-TiN composite layers. *Surface and Coatings Technology*, **2020**, 381, 125108	4.4	14
109	Optimization of oxygen vacancy concentration in HfO2/HfOx bilayer-structured ultrathin memristors by atomic layer deposition and their biological synaptic behavior. *Journal of Materials Chemistry C*, **2020**, 8, 12478-12484	7.1	14
108	Electromechanical Response from LaAlO3/SrTiO3 Heterostructures. *ACS Applied Materials & Interfaces*, **2015**, 7, 10146-51	9.5	13
107	The Polymerization Effect on Synthesis and Visible-Light Photocatalytic Properties of Low-Temperature □BiNbO4 Using Nb-Citrate Precursor. *Nanoscale Research Letters*, **2015**, 10, 457	5	13
106	Ferroelectric properties of bilayer structured Pb(Zr0.52Ti0.48)O3/SrBi2Ta2O9 (PZT/SBT) thin films on Pt/TiO2/SiO2/Si substrates. *Applied Surface Science*, **2008**, 254, 1583-1586	6.7	13
105	Effect of in situ applied electric field on the growth of La2Ti2O7 thin films by chemical solution deposition. *Journal of Crystal Growth*, **2004**, 268, 198-203	1.6	13
104	Four-state non-volatile memory in a multiferroic spin filter tunnel junction. *Applied Physics Letters*, **2016**, 109, 252903	3.4	13

103	Resistive switching in (hbox {BiFeO}_3)-based heterostructures due to ferroelectric modulation on interface Schottky barriers. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 3251-3256	2.1	12
102	Impact of the Al/Hf ratio on the electrical properties and band alignments of atomic-layer-deposited HfO2/Al2O3on S-passivated GaAs substrates. *Semiconductor Science and Technology*, **2010**, 25, 055012	1.8	12
101	Simulation of Biologic Synapse Through Organic-Inorganic Hybrid Memristors Using Novel Ti-Based Maleic Acid/TiO2 Ultrathin Films. *IEEE Electron Device Letters*, **2020**, 41, 155-158	4.4	12
100	A facile route to prepare TiO2/g-C3N4 nanocomposite photocatalysts by atomic layer deposition. *Journal of Alloys and Compounds*, **2021**, 855, 157446	5.7	12
99	A facile and low-cost synthesis of Cu2ZnSn(SxSe1⊠)4 nanocrystals with tunable composition and optical band gap. *Materials Letters*, **2015**, 150, 12-15	3.3	11
98	Effect of chemical surface treatments on interfacial and electrical characteristics of atomic-layer-deposited Al2O3 films on Ge substrates. *Applied Surface Science*, **2011**, 257, 4589-4592	6.7	11
97	Strain effects on magnetic characteristics of ultrathin La0.7Sr0.3MnO3 in epitaxial La0.7Sr0.3MnO3/BaTiO3 superlattices. *Journal of Applied Physics*, **2012**, 112, 123919	2.5	11
96	Fabrication and Characterization of ZnO Nano-Clips by the Polyol-Mediated Process. *Nanoscale Research Letters*, **2018**, 13, 47	5	10
95	The dominant factors affecting the memory characteristics of (Ta2O5)x(Al2O3)1⊠ high-k charge-trapping devices. *Applied Physics Letters*, **2014**, 105, 123504	3.4	10
94	Outstanding memory characteristics with atomic layer deposited Ta2O5/Al2O3/TiO2/Al2O3/Ta2O5 nanocomposite structures as the charge trapping layer. *Applied Surface Science*, **2019**, 467-468, 423-427	6.7	10
93	High Visible-Light-Stimulated Plasticity in Optoelectronic Synaptic Transistors for Irradiation History-Dependent Learning. *Advanced Electronic Materials*, **2020**, 6, 1901255	6.4	9
92	A Novel Simple Route to Synthesize Aqueous Niobium and Tantalum Precursors for Ferroelectric and Photocatalytic Applications. *Materials Research Society Symposia Proceedings*, **2006**, 942, 1		9
91	Improved tribological properties and corrosion protection of CrN coating by ultrathin composite oxide interlayer. *Applied Surface Science*, **2021**, 541, 148606	6.7	9
90	Structure and tuning properties of sol⊠gel-derived Pb0.4Sr0.6Zr0.52Ti0.48O3 (PSZT) thin films. *Journal Physics D: Applied Physics*, **2007**, 40, 3793-3797	3	8
89	Room temperature aging behavior of thermally imprinted Pt/SrBi2Ta2O9/Pt ferroelectric thin film capacitors. *Journal of Applied Physics*, **2001**, 90, 4130-4133	2.5	8
88	One-step facile preparation of zinc-based hydroquinone hybrid nanoporous thin films by molecular layer deposition. *Applied Physics Letters*, **2020**, 117, 031601	3.4	8
87	. *IEEE Transactions on Electron Devices*, **2018**, 65, 4674-4678	2.9	8
86	High-Performance Organic Field-Effect Transistor with Matching Energy-Band Alignment between Organic Semiconductor and the Charge-Trapping Dielectric. *Advanced Electronic Materials*, **2019**, 5, 1800865	6.4	7

85	Growth Mechanism, Ambient Stability, and Charge Trapping Ability of Ti-Based Maleic Acid Hybrid Films by Molecular Layer Deposition. *Langmuir*, **2019**, 35, 3020-3030	4	7
84	Stepwise mechanism and H2O-assisted hydrolysis in atomic layer deposition of SiO2 without a catalyst. *Nanoscale Research Letters*, **2015**, 10, 68	5	7
83	Interfacial, Electrical, and Band Alignment Characteristics of HfO/Ge Stacks with In Situ-Formed SiO Interlayer by Plasma-Enhanced Atomic Layer Deposition. *Nanoscale Research Letters*, **2017**, 12, 370	5	7
82	HfO2/GeOxNy/Ge gate stacks with sub-nanometer capacitance equivalent thickness and low interface trap density by in situ NH3 plasma pretreatment. *Applied Surface Science*, **2015**, 325, 13-19	6.7	7
81	Monolayer FePt nanocrystal self-assembly embedded into atomic-layer-deposited Al2O3 films for nonvolatile memory applications. *Journal of Alloys and Compounds*, **2014**, 588, 103-107	5.7	7
80	Synthesis and characterization of FePt nanoparticles and FePt nanoparticle/SiO2-matrix composite films. *Journal of Sol-Gel Science and Technology*, **2012**, 64, 269-275	2.3	7
79	Bipolar resistive switching based on SrTiO3/YBa2Cu3O7epi-layers. *Journal Physics D: Applied Physics* , **2013**, 46, 035308	3	7
78	Band alignment and interfacial properties of atomic layer deposited (TiO2) x (Al2O3)1⊠ gate dielectrics on Ge. *Applied Physics A: Materials Science and Processing*, **2011**, 105, 763-767	2.6	7
77	Structural phase transition due to La substitution in Bi4Ti3O12. *Phase Transitions*, **2009**, 82, 146-155	1.3	7
76	Synaptic functions and a memristive mechanism on Pt/AlO x /HfO x /TiN bilayer-structure memristors. *Journal Physics D: Applied Physics*, **2020**, 53, 035302	3	7
75	Effect of surface treatments on interfacial characteristics and band alignments of atomic-layer-deposited Al2O3 films on GaAs substrates. *Surface and Interface Analysis*, **2011**, 43, 734-737	1.5	6
74	First-Principles Study on Electronic Structure of Gd-Doped HfO2 High k Gate Dielectrics. *Integrated Ferroelectrics*, **2012**, 134, 3-9	0.8	6
73	Polarization offsets of compositionally graded Nd-substituted Bi4Ti3O12 ferroelectric thin films. *Applied Physics Letters*, **2008**, 93, 062904	3.4	6
72	Effects of processing on all-optical poling characteristics of guest-host azo-dye polymer thin films. *Physica Status Solidi (A) Applications and Materials Science*, **2007**, 204, 1114-1122	1.6	6
71	Preparation of Core/Shell Structure of ⊠Al(OH)3-SiO2 by Heterogeneous Nucleation-and-Growth Processing. *Journal of Sol-Gel Science and Technology*, **2003**, 27, 263-265	2.3	6
70	Tailoring Stress and Ion-Transport Kinetics via a Molecular Layer Deposition-Induced Artificial Solid Electrolyte Interphase for Durable Silicon Composite Anodes. *ACS Applied Materials & Interfaces*, **2021**, 13, 32520-32530	9.5	6
69	Highly stretchable and sensitive strain sensor based on silver nanowires/carbon nanotubes on hair band for human motion detection. *Progress in Natural Science: Materials International*, **2021**,	3.6	6
68	High-Performance MIM Capacitors Using Zr-Sn-Ti-O Dielectrics Derived from Atomic Layer Deposition. *IEEE Electron Device Letters*, **2019**, 40, 682-685	4.4	5

67	Co-Pt bimetallic nanoparticles with tunable magnetic and electrocatalytic properties prepared by atomic layer deposition. *Chemical Communications*, **2020**, 56, 8675-8678	5.8	5
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65	Fabrication and magnetic properties of FePt nanoparticle assemblies embedded in MgO-matrix systems. *Journal of Sol-Gel Science and Technology*, **2014**, 71, 283-290	2.3	5
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63	Microstructures and impedance studies of Bi3.15Nd0.85Ti3O12 thin films. *Applied Physics A: Materials Science and Processing*, **2009**, 95, 517-521	2.6	5
62	Impact of forming gas annealing on the fatigue characteristics of ferroelectric SrBi2Ta2O9 thin films. *Applied Physics Letters*, **2001**, 79, 2237-2239	3.4	5
61	Cobalt-Doping Stabilized Active and Durable Sub-2□hm Pt Nanoclusters for Low-Pt-Loading PEMFC Cathode. *Advanced Energy Materials*,2103144	21.8	5
60	Conformal porous carbon coating on carbon fiber cloth/NiS2 composites by molecular layer deposition for durable supercapacitor electrodes. *Journal of Materials Research*, **2020**, 35, 738-746	2.5	5
59	Titanicone-derived TiO quantum dot@carbon encapsulated ZnO nanorod anodes for stable lithium storage. *Dalton Transactions*, **2020**, 49, 10866-10873	4.3	5
58	Band-alignment dominated retention behaviors in high-k composite charge-trapping memory devices. *Applied Physics Letters*, **2019**, 114, 053506	3.4	5
57	Ferroelectric modulation on resonant tunneling through perovskite double-barriers. *Applied Physics Letters*, **2014**, 104, 142907	3.4	4
56	Ti□Al□O nanocrystal charge trapping memory cells fabricated by atomic layer deposition. *Thin Solid Films*, **2014**, 563, 6-9	2.2	4
55	The roles of the dielectric constant and the relative level of conduction band of high-k composite with Si in improving the memory performance of charge-trapping memory devices. *AIP Advances*, **2014**, 4, 117110	1.5	4
54	Fabrication and magnetic properties of FePt/Al2O3 composite film by atomic-layer-deposition. *Journal of Magnetism and Magnetic Materials*, **2013**, 343, 1-5	2.8	4
53	Improved thermal stability and electrical properties of atomic layer deposited HfO2/AlN high-k gate dielectric stacks on GaAs. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2015**, 33, 01A136	2.9	4
52	Fabrication and electrical characteristics of ultrathin (HfO2)x(SiO2)1□ films by surface sol□gel method and reaction-anneal treatment. *Microelectronic Engineering*, **2010**, 87, 1756-1759	2.5	4
51	Fabrication of Fine Mullite Powders by Heterogeneous Nucleation and Growth Processing. *Journal of the American Ceramic Society*, **2004**, 87, 520-522	3.8	4
50	Dual-Design of Nanoporous to Compact Interface via Atomic/Molecular Layer Deposition Enabling a Long-Life Silicon Anode. *Advanced Functional Materials*,2109682	15.6	4

49	A stretchable petal patterned strain sensor comprising Ir nanoparticles-modified multi-walled carbon nanotubes for human-motion detection. *Journal Physics D: Applied Physics*, **2020**, 53, 505402	3	4
48	Flexible Al-Ti-Zn-O MIM capacitors fabricated by room temperature atomic layer deposition and their electrical performances. *Journal of Alloys and Compounds*, **2021**, 870, 159391	5.7	4
47	Chemical strain-dependent two-dimensional transport at RAlO3/SrTiO3 interfaces (R=La,Nd,Sm,and Gd). *Physical Review B*, **2016**, 94,	3.3	4
46	Interfacial catalysis in and initial reaction mechanism of AlO films fabricated by atomic layer deposition using non-hydrolytic sol-gel chemistry. *Physical Chemistry Chemical Physics*, **2016**, 18, 31223-31229	3.6	3
45	Preparation and magnetic properties of L10FePt/TiO2 nanocomposite thin films. *Journal of Alloys and Compounds*, **2012**, 542, 128-131	5.7	3
44	Redox-controlled memristive switching in the junctions employing Ti reactive electrodes. *AIP Advances*, **2011**, 1, 032141	1.5	3
43	Effect of an in-situ applied electric field on growth of Bi4Ti3O12 films by sol-gel. *Applied Surface Science*, **2006**, 253, 1154-1159	6.7	3
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39	In Situ Formation of Polycyclic Aromatic Hydrocarbons as an Artificial Hybrid Layer for Lithium Metal Anodes.. *Nano Letters*, **2021**,	11.5	3
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