

Ai-Dong Li

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.

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	Role of atomic layer deposited TiOxNy interlayer in tribological and corrosion properties of CrN coating. <i>Surface and Coatings Technology</i> , 2022 , 429, 127981	4.4	1
191	Cobalt-Doping Stabilized Active and Durable Sub-2 μ m Pt Nanoclusters for Low-Pt-Loading PEMFC Cathode (Adv. Energy Mater. 13/2022). <i>Advanced Energy Materials</i> , 2022 , 12, 2270055	21.8	1
190	Design and self-catalytic mechanism of aluminum precursors bearing amino ligands for Al ₂ S ₃ atomic layer deposition. <i>Applied Surface Science</i> , 2022 , 595, 153516	6.7	0
189	Core-shell MWCNTs@ZnS composite prepared by atomic layer deposition for high-performance lithium-ion batteries anode. <i>Journal of Materials Research</i> , 2021 , 36, 1262-1271	2.5	2
188	Tailoring Stress and Ion-Transport Kinetics via a Molecular Layer Deposition-Induced Artificial Solid Electrolyte Interphase for Durable Silicon Composite Anodes. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 32520-32530	9.5	6
187	Highly stretchable and sensitive strain sensor based on silver nanowires/carbon nanotubes on hair band for human motion detection. <i>Progress in Natural Science: Materials International</i> , 2021 ,	3.6	6
186	Flexible Al-Ti-Zn-O MIM capacitors fabricated by room temperature atomic layer deposition and their electrical performances. <i>Journal of Alloys and Compounds</i> , 2021 , 870, 159391	5.7	4
185	Atomic Layer Deposition of High-Capacity Anodes for Next-Generation Lithium-Ion Batteries and Beyond. <i>Energy and Environmental Materials</i> , 2021 , 4, 363-391	13	15
184	Improved tribological properties and corrosion protection of CrN coating by ultrathin composite oxide interlayer. <i>Applied Surface Science</i> , 2021 , 541, 148606	6.7	9
183	A facile route to prepare TiO ₂ /g-C ₃ N ₄ nanocomposite photocatalysts by atomic layer deposition. <i>Journal of Alloys and Compounds</i> , 2021 , 855, 157446	5.7	12
182	Fe ₂ O ₃ /Ag/CdS ternary heterojunction photoanode for efficient solar water oxidation. <i>Catalysis Science and Technology</i> , 2021 , 11, 5859-5867	5.5	2
181	Effect of Gd and Si co-doping on the band alignment and electrical properties of HfO ₂ dielectric films prepared by atomic layer deposition. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 4815-4822	2.1	
180	Realizing the enhanced cyclability of a cactus-like NiCoO nanocrystal anode fabricated by molecular layer deposition. <i>Dalton Transactions</i> , 2021 , 50, 511-519	4.3	1
179	Polymerized hybrid HF-based hydroquinone/Al ₂ O ₃ bilayer structure by molecular/atomic layer deposition for non-volatile resistive random access memory. <i>APL Materials</i> , 2021 , 9, 121110	5.7	2
178	In Situ Formation of Polycyclic Aromatic Hydrocarbons as an Artificial Hybrid Layer for Lithium Metal Anodes.. <i>Nano Letters</i> , 2021 ,	11.5	3
177	High Visible-Light-Stimulated Plasticity in Optoelectronic Synaptic Transistors for Irradiation History-Dependent Learning. <i>Advanced Electronic Materials</i> , 2020 , 6, 1901255	6.4	9
176	Co-Pt bimetallic nanoparticles with tunable magnetic and electrocatalytic properties prepared by atomic layer deposition. <i>Chemical Communications</i> , 2020 , 56, 8675-8678	5.8	5

175	Combining Efficiency and Stability in Mixed Tin-Lead Perovskite Solar Cells by Capping Grains with an Ultrathin 2D Layer. <i>Advanced Materials</i> , 2020 , 32, e1907058	24	92
174	Review Resistive-Type Hydrogen Sensors Based on Zinc Oxide Nanostructures. <i>Journal of the Electrochemical Society</i> , 2020 , 167, 067528	3.9	29
173	A stretchable petal patterned strain sensor comprising Ir nanoparticles-modified multi-walled carbon nanotubes for human-motion detection. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 505402	3	4
172	Improved corrosion protection of CrN hard coating on steel sealed with TiO _x Ny-TiN composite layers. <i>Surface and Coatings Technology</i> , 2020 , 381, 125108	4.4	14
171	Simulation of Biologic Synapse Through Organic-Inorganic Hybrid Memristors Using Novel Ti-Based Maleic Acid/TiO ₂ Ultrathin Films. <i>IEEE Electron Device Letters</i> , 2020 , 41, 155-158	4.4	12
170	Conformal porous carbon coating on carbon fiber cloth/NiS ₂ composites by molecular layer deposition for durable supercapacitor electrodes. <i>Journal of Materials Research</i> , 2020 , 35, 738-746	2.5	5
169	Titanicene-derived TiO quantum dot@carbon encapsulated ZnO nanorod anodes for stable lithium storage. <i>Dalton Transactions</i> , 2020 , 49, 10866-10873	4.3	5
168	One-step facile preparation of zinc-based hydroquinone hybrid nanoporous thin films by molecular layer deposition. <i>Applied Physics Letters</i> , 2020 , 117, 031601	3.4	8
167	Optimization of oxygen vacancy concentration in HfO ₂ /HfO _x bilayer-structured ultrathin memristors by atomic layer deposition and their biological synaptic behavior. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 12478-12484	7.1	14
166	Enhanced visible light photocatalytic activity of FeO modified TiO prepared by atomic layer deposition. <i>Scientific Reports</i> , 2020 , 10, 13437	4.9	28
165	Synaptic functions and a memristive mechanism on Pt/AlO _x /HfO _x /TiN bilayer-structure memristors. <i>Journal Physics D: Applied Physics</i> , 2020 , 53, 035302	3	7
164	Flexible Metal-Insulator Transitions Based on van der Waals Oxide Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 8284-8290	9.5	26
163	Enhanced electrochemical performance of Ni-rich LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ coated by molecular layer deposition derived dual-functional C-Al ₂ O ₃ composite coating. <i>Journal of Alloys and Compounds</i> , 2019 , 799, 89-98	5.7	31
162	High-Performance MIM Capacitors Using Zr-Sn-Ti-O Dielectrics Derived from Atomic Layer Deposition. <i>IEEE Electron Device Letters</i> , 2019 , 40, 682-685	4.4	5
161	High-Performance Organic Field-Effect Transistor with Matching Energy-Band Alignment between Organic Semiconductor and the Charge-Trapping Dielectric. <i>Advanced Electronic Materials</i> , 2019 , 5, 1800865	6.4	7
160	Biomimetic strain sensors based on patterned polydimethylsiloxane and Ir nanoparticles decorated multi-walled carbon nanotubes. <i>Sensors and Actuators A: Physical</i> , 2019 , 289, 57-64	3.9	16
159	Growth Mechanism, Ambient Stability, and Charge Trapping Ability of Ti-Based Maleic Acid Hybrid Films by Molecular Layer Deposition. <i>Langmuir</i> , 2019 , 35, 3020-3030	4	7
158	Atomic layer deposition of ZnO/TiO nanolaminates as ultra-long life anode material for lithium-ion batteries. <i>Scientific Reports</i> , 2019 , 9, 11526	4.9	16

157	Interface electron transfer and thickness dependent transport characteristics of LaSrVO thin films. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 245002	1.8	
156	Comparison of chemical stability and corrosion resistance of group IV metal oxide films formed by thermal and plasma-enhanced atomic layer deposition. <i>Scientific Reports</i> , 2019 , 9, 10438	4.9	15
155	Atomic Layer-Deposited Al ₂ O ₃ Interlayer for Improved Tribological and Anti-corrosion Properties of TiN Hard Coating on 316L Stainless Steel. <i>Journal of Materials Engineering and Performance</i> , 2019 , 28, 7058-7067	1.6	2
154	Self-formed porous Ni(OH) ₂ on Ni ₃ S ₂ /Ni foam during electrochemical cycling for high performance supercapacitor with ultrahigh areal capacitance. <i>Electrochimica Acta</i> , 2019 , 303, 148-156	6.7	17
153	Band-alignment dominated retention behaviors in high-k composite charge-trapping memory devices. <i>Applied Physics Letters</i> , 2019 , 114, 053506	3.4	5
152	Monolithic all-perovskite tandem solar cells with 24.8% efficiency exploiting comproportionation to suppress Sn(II) oxidation in precursor ink. <i>Nature Energy</i> , 2019 , 4, 864-873	62.3	463
151	Outstanding memory characteristics with atomic layer deposited Ta ₂ O ₅ /Al ₂ O ₃ /TiO ₂ /Al ₂ O ₃ /Ta ₂ O ₅ nanocomposite structures as the charge trapping layer. <i>Applied Surface Science</i> , 2019 , 467-468, 423-427	6.7	10
150	Fabrication and Characterization of ZnO Nano-Clips by the Polyol-Mediated Process. <i>Nanoscale Research Letters</i> , 2018 , 13, 47	5	10
149	TiON Modified TiO ₂ Powders Prepared by Plasma Enhanced Atomic Layer Deposition for Highly Visible Light Photocatalysis. <i>Scientific Reports</i> , 2018 , 8, 12131	4.9	18
148	A comparative study of growth and properties of atomic layer deposited transparent conductive oxide of Al doped ZnO films from different Al precursors. <i>Thin Solid Films</i> , 2018 , 646, 126-131	2.2	20
147	Thermal atomic layer etching: Mechanism, materials and prospects. <i>Progress in Natural Science: Materials International</i> , 2018 , 28, 667-675	3.6	21
146	. <i>IEEE Transactions on Electron Devices</i> , 2018 , 65, 4674-4678	2.9	8
145	Synaptic Plasticity and Learning Behaviors Mimicked in Single Inorganic Synapses of Pt/HfO ₂ /ZnO/TiN Memristive System. <i>Nanoscale Research Letters</i> , 2017 , 12, 65	5	33
144	Atomic Layer Deposited Oxide-Based Nanocomposite Structures with Embedded CoPt Nanocrystals for Resistive Random Access Memory Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 6634-6643	9.5	27
143	Giant tunnelling electroresistance in metal/ferroelectric/semiconductor tunnel junctions by engineering the Schottky barrier. <i>Nature Communications</i> , 2017 , 8, 15217	17.4	115
142	Photocatalytic Properties of CoO-Coated TiO ₂ Powders Prepared by Plasma-Enhanced Atomic Layer Deposition. <i>Nanoscale Research Letters</i> , 2017 , 12, 497	5	14
141	Visible Light-Driven Photocatalytic Performance of N-Doped ZnO/g-CN Nanocomposites. <i>Nanoscale Research Letters</i> , 2017 , 12, 526	5	53
140	ZnO/ZnS Core-Shell Nanowires Arrays on Ni Foam Prepared by Atomic Layer Deposition for High Performance Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2017 , 164, A3493-A3498	3.9	17

139	Atomic-Layer-Deposition Assisted Formation of Wafer-Scale Double-Layer Metal Nanoparticles with Tunable Nanogap for Surface-Enhanced Raman Scattering. <i>Scientific Reports</i> , 2017 , 7, 5161	4.9	14
138	Interfacial, Electrical, and Band Alignment Characteristics of HfO/Ge Stacks with In Situ-Formed SiO Interlayer by Plasma-Enhanced Atomic Layer Deposition. <i>Nanoscale Research Letters</i> , 2017 , 12, 370	5	7
137	Bipolar Resistive Switching Characteristics of HfO/TiO/HfO Trilayer-Structure RRAM Devices on Pt and TiN-Coated Substrates Fabricated by Atomic Layer Deposition. <i>Nanoscale Research Letters</i> , 2017 , 12, 393	5	37
136	Improved electrochemical performance of Li _{1.2} Mn _{0.54} Ni _{0.13} Co _{0.13} O ₂ cathode material coated with ultrathin ZnO. <i>Journal of Alloys and Compounds</i> , 2017 , 694, 848-856	5.7	50
135	Synthesis and Characteristics of FePt Nanoparticle Films Under In Situ-Applied Magnetic Field. <i>Nanoscale Research Letters</i> , 2016 , 11, 325	5	5
134	Improved electrochemical performance of LiNi _{0.8} Co _{0.15} Al _{0.05} O ₂ with ultrathin and thickness-controlled TiO ₂ shell via atomic layer deposition technology. <i>RSC Advances</i> , 2016 , 6, 100841-100848	10.7	18
133	Interfacial catalysis in and initial reaction mechanism of AlO films fabricated by atomic layer deposition using non-hydrolytic sol-gel chemistry. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 31223-31229	3.6	3
132	Theoretical design and computational screening of precursors for atomic layer deposition. <i>Coordination Chemistry Reviews</i> , 2016 , 322, 94-103	23.2	27
131	Theoretical Understanding of the Reaction Mechanism of SiO ₂ Atomic Layer Deposition. <i>Chemistry of Materials</i> , 2016 , 28, 1247-1255	9.6	26
130	Enhanced electrochemical performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode material by ultrathin ZrO ₂ coating. <i>Journal of Alloys and Compounds</i> , 2016 , 657, 593-600	5.7	101
129	Chemical strain-dependent two-dimensional transport at RAlO ₃ /SrTiO ₃ interfaces (R=La,Nd,Sm,and Gd). <i>Physical Review B</i> , 2016 , 94,	3.3	4
128	Four-state non-volatile memory in a multiferroic spin filter tunnel junction. <i>Applied Physics Letters</i> , 2016 , 109, 252903	3.4	13
127	Resistive Switching Properties and Failure Behaviors of (Pt, Cu)/Amorphous ZrO ₂ /Pt Sandwich Structures. <i>Journal of Materials Science and Technology</i> , 2016 , 32, 676-680	9.1	25
126	Improvement of electrochemical performance of nickel rich LiNi _{0.6} Co _{0.2} Mn _{0.2} O ₂ cathode active material by ultrathin TiO ₂ coating. <i>Dalton Transactions</i> , 2016 , 45, 9669-75	4.3	73
125	Interface modulation and resistive switching evolution in Pt/NiO _x /Al ₂ O ₃ /n+Bi structure. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 118, 1365-1370	2.6	2
124	Growth characteristics of Ti-based fumaric acid hybrid thin films by molecular layer deposition. <i>Dalton Transactions</i> , 2015 , 44, 14782-92	4.3	21
123	Electromechanical Response from LaAlO ₃ /SrTiO ₃ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10146-51	9.5	13
122	A facile and low-cost synthesis of Cu ₂ ZnSn(S _x Se _{1-x}) ₄ nanocrystals with tunable composition and optical band gap. <i>Materials Letters</i> , 2015 , 150, 12-15	3.3	11

121	Stepwise mechanism and H ₂ O-assisted hydrolysis in atomic layer deposition of SiO ₂ without a catalyst. <i>Nanoscale Research Letters</i> , 2015 , 10, 68	5	7
120	Excellent resistive switching properties of atomic layer-deposited Al ₂ O ₃ /HfO ₂ /Al ₂ O ₃ trilayer structures for non-volatile memory applications. <i>Nanoscale Research Letters</i> , 2015 , 10, 135	5	59
119	Integrated digital inverters based on two-dimensional anisotropic ReS ₂ field-effect transistors. <i>Nature Communications</i> , 2015 , 6, 6991	17.4	417
118	Thickness-dependent metal-insulator transition in epitaxial SrRuO ₃ ultrathin films. <i>Journal of Applied Physics</i> , 2015 , 117, 015307	2.5	37
117	The Antibacterial Activity of Ta-doped ZnO Nanoparticles. <i>Nanoscale Research Letters</i> , 2015 , 10, 1047	5	106
116	Photocatalytic activity and photocorrosion of atomic layer deposited ZnO ultrathin films for the degradation of methylene blue. <i>Nanotechnology</i> , 2015 , 26, 024002	3.4	34
115	The Polymerization Effect on Synthesis and Visible-Light Photocatalytic Properties of Low-Temperature BiNbO ₄ Using Nb-Citrate Precursor. <i>Nanoscale Research Letters</i> , 2015 , 10, 457	5	13
114	Self-catalysis by aminosilanes and strong surface oxidation by O ₂ plasma in plasma-enhanced atomic layer deposition of high-quality SiO ₂ . <i>Chemical Communications</i> , 2015 , 51, 1341-4	5.8	26
113	HfO ₂ /GeO _x Ny/Ge gate stacks with sub-nanometer capacitance equivalent thickness and low interface trap density by in situ NH ₃ plasma pretreatment. <i>Applied Surface Science</i> , 2015 , 325, 13-19	6.7	7
112	Atomic layer deposition of Co ₃ O ₄ on carbon nanotubes/carbon cloth for high-capacitance and ultrastable supercapacitor electrode. <i>Nanotechnology</i> , 2015 , 26, 094001	3.4	66
111	Improved thermal stability and electrical properties of atomic layer deposited HfO ₂ /AlN high-k gate dielectric stacks on GaAs. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2015 , 33, 01A136	2.9	4
110	Mechanical switching of ferroelectric polarization in ultrathin BaTiO ₃ films: The effects of epitaxial strain. <i>Applied Physics Letters</i> , 2014 , 104, 042907	3.4	36
109	A facile way to deposit conformal Al ₂ O ₃ thin film on pristine graphene by atomic layer deposition. <i>Applied Surface Science</i> , 2014 , 291, 78-82	6.7	17
108	Ferroelectric modulation on resonant tunneling through perovskite double-barriers. <i>Applied Physics Letters</i> , 2014 , 104, 142907	3.4	4
107	Atomic layer deposition enhanced grafting of phosphorylcholine on stainless steel for intravascular stents. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 121, 238-47	6	17
106	Resistive switching in (hbox {BiFeO}_3)-based heterostructures due to ferroelectric modulation on interface Schottky barriers. <i>Journal of Materials Science: Materials in Electronics</i> , 2014 , 25, 3251-3256	2.1	12
105	Fabrication and magnetic properties of FePt nanoparticle assemblies embedded in MgO-matrix systems. <i>Journal of Sol-Gel Science and Technology</i> , 2014 , 71, 283-290	2.3	5
104	TiAlO nanocrystal charge trapping memory cells fabricated by atomic layer deposition. <i>Thin Solid Films</i> , 2014 , 563, 6-9	2.2	4

103	Nonvolatile memory capacitors based on Al ₂ O ₃ tunneling and HfO ₂ blocking layers with charge storage in atomic-layer-deposited Pt nanocrystals. <i>Applied Surface Science</i> , 2014 , 289, 332-337	6.7	16
102	Ultrathin ZnO coating for improved electrochemical performance of LiNi _{0.5} Co _{0.2} Mn _{0.3} O ₂ cathode material. <i>Journal of Power Sources</i> , 2014 , 266, 433-439	8.9	179
101	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. <i>AIP Advances</i> , 2014 , 4, 117110	1.5	4
100	Growth of high-density Ir nanocrystals by atomic layer deposition for nonvolatile nanocrystal memory applications. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2014 , 32, 042201	1.3	5
99	The dominant factors affecting the memory characteristics of (Ta ₂ O ₅) _x (Al ₂ O ₃) _{1-x} high-k charge-trapping devices. <i>Applied Physics Letters</i> , 2014 , 105, 123504	3.4	10
98	Monolayer FePt nanocrystal self-assembly embedded into atomic-layer-deposited Al ₂ O ₃ films for nonvolatile memory applications. <i>Journal of Alloys and Compounds</i> , 2014 , 588, 103-107	5.7	7
97	Atomic Layer Deposition of Al-doped ZnO Films Using Aluminum Isopropoxide as the Al Precursor. <i>Chemical Vapor Deposition</i> , 2013 , 19, 180-185		14
96	Temperature-dependent tunneling electroresistance in Pt/BaTiO ₃ /SrRuO ₃ ferroelectric tunnel junctions. <i>Applied Physics Letters</i> , 2013 , 103, 132913	3.4	26
95	Fabrication and magnetic properties of FePt/Al ₂ O ₃ composite film by atomic-layer-deposition. <i>Journal of Magnetism and Magnetic Materials</i> , 2013 , 343, 1-5	2.8	4
94	Preparation and visible-light photocatalytic properties of BiNbO ₄ and BiTaO ₄ by a citrate method. <i>Journal of Solid State Chemistry</i> , 2013 , 202, 6-14	3.3	58
93	Porous ZnO nanosheet arrays constructed on weaved metal wire for flexible dye-sensitized solar cells. <i>Nanoscale</i> , 2013 , 5, 5102-8	7.7	34
92	Facile synthesis of ultrafine Cu ₂ ZnSnS ₄ nanocrystals by hydrothermal method for use in solar cells. <i>Thin Solid Films</i> , 2013 , 535, 39-43	2.2	34
91	Improved interfacial and electrical properties of atomic layer deposition HfO ₂ films on Ge with La ₂ O ₃ passivation. <i>Applied Surface Science</i> , 2013 , 264, 783-786	6.7	20
90	Impact of the interfaces in the charge trap layer on the storage characteristics of ZrO ₂ /Al ₂ O ₃ nanolaminate-based charge trap flash memory cells. <i>Materials Letters</i> , 2013 , 92, 21-24	3.3	32
89	Bipolar resistive switching based on SrTiO ₃ /YBa ₂ Cu ₃ O ₇ epi-layers. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 035308	3	7
88	The metallic interface between insulating NdGaO ₃ and SrTiO ₃ perovskites. <i>Applied Physics Letters</i> , 2013 , 103, 201602	3.4	23
87	The effect of thermal treatment induced inter-diffusion at the interfaces on the charge trapping performance of HfO ₂ /Al ₂ O ₃ nanolaminate-based memory devices. <i>Journal of Applied Physics</i> , 2013 , 114, 044104	2.5	49
86	The combination self-cleaning effect of trimethylaluminium and tetrakis (dimethyl-amino) hafnium pretreatments on GaAs. <i>Applied Surface Science</i> , 2012 , 263, 497-501	6.7	2

85	Synthesis and characterization of FePt nanoparticles and FePt nanoparticle/SiO ₂ -matrix composite films. <i>Journal of Sol-Gel Science and Technology</i> , 2012 , 64, 269-275	2.3	7
84	Preparation and magnetic properties of L10FePt/TiO ₂ nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2012 , 542, 128-131	5.7	3
83	Surface Pseudorotation in Lewis-Base-Catalyzed Atomic Layer Deposition of SiO ₂ : Static Transition State Search and Born-Oppenheimer Molecular Dynamics Simulation. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 26436-26448	3.8	17
82	Hf _x Zr _{1-x} O ₂ films chemical vapor deposited from a single source precursor of anhydrous Hf _x Zr _{1-x} (NO ₃) ₄ . <i>Journal of Crystal Growth</i> , 2012 , 346, 12-16	1.6	2
81	Magnetic and transport characteristics of long-period [(LaMnO ₃) _n /(SrMnO ₃) _n] _m (n, m) superlattices. <i>Journal of Applied Physics</i> , 2012 , 112, 103917	2.5	2
80	Enhanced memory performance by tailoring the microstructural evolution of (ZrO ₂) _{0.6} (SiO ₂) _{0.4} charge trapping layer in the nanocrystallites-based charge trap flash memory cells. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 217-222	2.6	14
79	First-Principles Study on Electronic Structure of Gd-Doped HfO ₂ High k Gate Dielectrics. <i>Integrated Ferroelectrics</i> , 2012 , 134, 3-9	0.8	6
78	Effects of Postannealing Temperature on the Band Alignments and Interfacial Properties of Atomic Layer Deposited Al ₂ O ₃ on Ge Substrates. <i>Integrated Ferroelectrics</i> , 2012 , 134, 16-21	0.8	1
77	Effect of annealing on interfacial and band alignment characteristics of HfO ₂ /SiO ₂ gate stacks on Ge substrates. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2012 , 30, 010602	1.3	2
76	Characterization of HfO ₂ /Al ₂ O ₃ gate dielectric nanometer-stacks grown by atomic layer deposition on Ge substrates 2012 ,		2
75	Strain effects on magnetic characteristics of ultrathin La _{0.7} Sr _{0.3} MnO ₃ in epitaxial La _{0.7} Sr _{0.3} MnO ₃ /BaTiO ₃ superlattices. <i>Journal of Applied Physics</i> , 2012 , 112, 123919	2.5	11
74	Abnormal phase transition in BiNbO ₄ powders prepared by a citrate method. <i>Journal of Alloys and Compounds</i> , 2011 , 509, 10230-10233	5.7	30
73	Redox-controlled memristive switching in the junctions employing Ti reactive electrodes. <i>AIP Advances</i> , 2011 , 1, 032141	1.5	3
72	Band alignment and interfacial properties of atomic layer deposited (TiO ₂) _x (Al ₂ O ₃) _{1-x} gate dielectrics on Ge. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 105, 763-767	2.6	7
71	Effect of surface treatments on interfacial characteristics and band alignments of atomic-layer-deposited Al ₂ O ₃ films on GaAs substrates. <i>Surface and Interface Analysis</i> , 2011 , 43, 734-737 ¹⁻⁵		6
70	Magnetic properties of FePt nanoparticle assemblies embedded in atomic-layer-deposited Al ₂ O ₃ . <i>Journal of Materials Chemistry</i> , 2011 , 21, 5046		21
69	Effect of chemical surface treatments on interfacial and electrical characteristics of atomic-layer-deposited Al ₂ O ₃ films on Ge substrates. <i>Applied Surface Science</i> , 2011 , 257, 4589-4592	6.7	11
68	Charge Trapping Memory Characteristics of p-Si/Ultrathin Al ₂ O ₃ /HfO ₂ /Al ₂ O ₃ /Metal Multilayer Structure. <i>Electrochemical and Solid-State Letters</i> , 2011 , 14, G13		20

67	A TiAl ₂ O ₅ nanocrystal charge trap memory device. <i>Applied Physics Letters</i> , 2010 , 97, 143504	3.4	36
66	Temperature-dependent leakage current characteristics of Pr and Mn cosubstituted BiFeO ₃ thin films. <i>Applied Physics Letters</i> , 2010 , 96, 202904	3.4	26
65	Impact of the Al/Hf ratio on the electrical properties and band alignments of atomic-layer-deposited HfO ₂ /Al ₂ O ₃ on S-passivated GaAs substrates. <i>Semiconductor Science and Technology</i> , 2010 , 25, 055012	1.8	12
64	Fabrication and electrical characteristics of ultrathin (HfO ₂) _x (SiO ₂) _{1-x} films by surface sol-gel method and reaction-anneal treatment. <i>Microelectronic Engineering</i> , 2010 , 87, 1756-1759	2.5	4
63	Photo-degradation of methylene blue using Ta-doped ZnO nanoparticle. <i>Journal of Solid State Chemistry</i> , 2010 , 183, 1359-1364	3.3	114
62	The roles of B-site ions in lead strontium zirconate titanate thin films for electrically tunable device applications. <i>Thin Solid Films</i> , 2010 , 518, 3929-3932	2.2	1
61	PHASE EVOLUTION AND MAGNETIC PROPERTIES OF FEPT-PTTE ₂ NANORODS. <i>International Journal of Modern Physics B</i> , 2009 , 23, 3573-3578	1.1	
60	Interfacial structure and electrical properties of ultrathin HfO ₂ dielectric films on Si substrates by surface sol-gel method. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 015405	3	30
59	Preparation of (1-x)(Na _{0.5} Bi _{0.5})TiO ₃ -xSrTiO ₃ thin films by a sol-gel method for dielectric tunable applications. <i>Journal of Sol-Gel Science and Technology</i> , 2009 , 49, 29-34	2.3	23
58	Microstructures and impedance studies of Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ thin films. <i>Applied Physics A: Materials Science and Processing</i> , 2009 , 95, 517-521	2.6	5
57	Preparation and Characterization of Relaxor Ferroelectric 0.65Pb(Mg _{1/3} Nb _{2/3})O ₃ -0.35PbTiO ₃ by a Polymerizable Complex Method. <i>Journal of the American Ceramic Society</i> , 2009 , 92, 1256-1261	3.8	18
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54	Preparation, characterization of the Ta-doped ZnO nanoparticles and their photocatalytic activity under visible-light illumination. <i>Journal of Solid State Chemistry</i> , 2009 , 182, 2061-2067	3.3	78
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52	CHEMICAL VAPOR DEPOSITION OF Zr _x Hf _{1-x} O ₂ THIN FILMS USING ANHYDROUS MIXED-METAL NITRATES PRECURSORS. <i>Integrated Ferroelectrics</i> , 2008 , 97, 93-102	0.8	2
51	Polarization offset of homogeneous Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ ferroelectric thin films. <i>Journal of Applied Physics</i> , 2008 , 104, 074117	2.5	2
50	Polarization offsets of compositionally graded Nd-substituted Bi ₄ Ti ₃ O ₁₂ ferroelectric thin films. <i>Applied Physics Letters</i> , 2008 , 93, 062904	3.4	6

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48	Ferroelectric properties of bilayer structured $\text{Pb}(\text{Zr}_{0.52}\text{Ti}_{0.48})\text{O}_3/\text{SrBi}_2\text{Ta}_2\text{O}_9$ (PZT/SBT) thin films on Pt/TiO ₂ /SiO ₂ /Si substrates. <i>Applied Surface Science</i> , 2008 , 254, 1583-1586	6.7	13
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45	Effects of processing on all-optical poling characteristics of guest-host azo-dye polymer thin films. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2007 , 204, 1114-1122	1.6	6
44	Structure and tuning properties of sol-gel-derived $\text{Pb}_{0.4}\text{Sr}_{0.6}\text{Zr}_{0.52}\text{Ti}_{0.48}\text{O}_3$ (PSZT) thin films. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 3793-3797	3	8
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41	A Novel Simple Route to Synthesize Aqueous Niobium and Tantalum Precursors for Ferroelectric and Photocatalytic Applications. <i>Materials Research Society Symposia Proceedings</i> , 2006 , 942, 1		9
40	Effect of an in-situ applied electric field on growth of Bi ₄ Ti ₃ O ₁₂ films by sol-gel. <i>Applied Surface Science</i> , 2006 , 253, 1154-1159	6.7	3
39	Co-doped titanate nanotubes. <i>Applied Physics Letters</i> , 2005 , 87, 112501	3.4	57
38	WELL-BEHAVED METAL-OXIDE-SEMICONDUCTOR CAPACITOR CHARACTERISTICS OF ZIRCONIUM OXIDE FILMS FABRICATED BY SURFACE SOL-GEL PROCESS. <i>Integrated Ferroelectrics</i> , 2005 , 74, 3-11	0.8	2
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36	PREPARATION AND CHARACTERIZATION OF PLZT FERROELECTRIC INVERSE OPAL. <i>International Journal of Modern Physics B</i> , 2005 , 19, 2769-2774	1.1	3
35	Dielectric characterization of Bi _{3.25} La _{0.75} Ti ₃ O ₁₂ thin films. <i>Applied Physics Letters</i> , 2004 , 84, 4505-4507	3.4	64
34	Structure and electrical properties of Bi _{3.15} Nd _{0.85} Ti ₃ O ₁₂ ferroelectric thin films. <i>Journal of Applied Physics</i> , 2004 , 95, 4275-4281	2.5	54
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32	Effect of in situ applied electric field on the growth of La ₂ Ti ₂ O ₇ thin films by chemical solution deposition. <i>Journal of Crystal Growth</i> , 2004 , 268, 198-203	1.6	13

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25	Structural and Electrical Properties of $\text{Bi}_{3.25}\text{La}_{0.75}\text{Ti}_3\text{O}_{12}$ and $\text{Bi}_{3.25}\text{Pr}_{0.75}\text{Ti}_3\text{O}_{12}$ Thin Films for Memory Applications. <i>Integrated Ferroelectrics</i> , 2002 , 45, 177-182	0.8	0
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23	Growth and characterization of $\text{SrBi}_2\text{Ta}_2\text{O}_9$ thin films prepared by rapid thermal annealing. <i>Ferroelectrics</i> , 2001 , 263, 303-308	0.6	
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21	Preparation and properties of $\text{Bi}_{4-x}\text{La}_x\text{Ti}_3\text{O}_{12}$ thin films by chemical solution deposition. <i>Ferroelectrics</i> , 2001 , 260, 27-32	0.6	
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6	Fabrication and electrical properties of sol-gel derived BaTiO ₃ films with metallic LaNiO ₃ electrode. <i>Applied Physics Letters</i> , 1997 , 70, 1616-1618	3.4	77
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3	Cobalt-Doping Stabilized Active and Durable Sub-2 μ m Pt Nanoclusters for Low-Pt-Loading PEMFC Cathode. <i>Advanced Energy Materials</i> , 2103144	21.8	5
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