Seoung Gil Yoon

List of Publications by Citations

326 papers	4,405 citations	34 h-index	44 g-index
341 ext. papers	5,033 ext. citations	4.1 avg, IF	5.68 L-index

#	Paper	IF	Citations
326	Piezoelectric properties of CH3NH3PbI3 perovskite thin films and their applications in piezoelectric generators. *Journal of Materials Chemistry A*, **2016**, 4, 756-763	13	95
325	A comprehensive review of flexible piezoelectric generators based on organic-inorganic metal halide perovskites. *Nano Energy*, **2019**, 57, 74-93	17.1	71
324	Enhancing the efficiency of dye sensitized solar cells with an SnO2 blocking layer grown by nanocluster deposition. *Journal of Alloys and Compounds*, **2013**, 561, 206-210	5.7	70
323	Optical and magnetic properties of laser-deposited Co-doped ZnO thin films. *Solid State Communications*, **2004**, 131, 677-680	1.6	63
322	Enhanced output performance of a flexible piezoelectric energy harvester based on stable MAPbI3-PVDF composite films. *Nano Energy*, **2018**, 53, 46-56	17.1	61
321	Structural properties of Ge2Sb2Te5 thin films by metal organic chemical vapor deposition for phase change memory applications. *Applied Physics Letters*, **2006**, 89, 102107	3.4	61
320	Co3O4/WCNT composites for H2S gas sensor application. *Sensors and Actuators B: Chemical*, **2016**, 222, 166-172	8.5	60
319	An eco-friendly flexible piezoelectric energy harvester that delivers high output performance is based on lead-free MASnI3 films and MASnI3-PVDF composite films. *Nano Energy*, **2019**, 57, 911-923	17.1	58
318	Bismuth-zinc-niobate embedded capacitors grown at room temperature for printed circuit board applications. *Applied Physics Letters*, **2006**, 88, 192902	3.4	53
317	Effects of Co-doping level on the microstructural and ferromagnetic properties of liquid-delivery metalorganic-chemical-vapor-deposited Ti1−xCoxO2 thin films. *Applied Physics Letters*, **2002**, 81, 4209-4211	3.4	53
316	Effect of Annealing Conditions on a Hafnium Oxide Reinforced SiO[sub 2] Gate Dielectric Deposited by Plasma-Enhanced Metallorganic CVD. *Journal of the Electrochemical Society*, **2002**, 149, F18	3.9	50
315	Ultra Small, mono dispersed green synthesized silver nanoparticles using aqueous extract of Sida cordifolia plant and investigation of antibacterial activity. *Microbial Pathogenesis*, **2018**, 124, 63-69	3.8	49
314	Enhanced piezoelectric output performance via control of dielectrics in Fe2+-incorporated MAPbI3 perovskite thin films: Flexible piezoelectric generators. *Nano Energy*, **2018**, 49, 247-256	17.1	47
313	Green synthesis, characterization and antimicrobial activity of silver nanoparticles using methanolic root extracts of Diospyros sylvatica. *Journal of Environmental Sciences*, **2017**, 55, 157-163	6.4	47
312	Metal/ferroelectric/insulator/semiconductor structure of Pt/SrBi2Ta2O9/YMnO3/Si using YMnO3 as the buffer layer. *Applied Physics Letters*, **1999**, 75, 722-724	3.4	46
311	Electrical behavior of polymer hydrogel composed of poly(vinyl alcohol)-hyaluronic acid in solution. *Biosensors and Bioelectronics*, **2004**, 19, 531-6	11.8	45
310	Bending behavior of hydrogels composed of poly(methacrylic acid) and alginate by electrical stimulus. *Polymer International*, **2004**, 53, 1456-1460	3.3	45

309	Structural and electrical properties of LiCoO2 thin-film cathodes deposited on planar and trench structures by liquid-delivery metalorganic chemical vapour deposition. *Journal of Power Sources*, **2004**, 125, 236-241	8.9	44
308	Transfer-free graphene electrodes for super-flexible and semi-transparent perovskite solar cells fabricated under ambient air. *Nano Energy*, **2019**, 65, 104018	17.1	43
307	Defect-Free Graphene Synthesized Directly at 150 °C via Chemical Vapor Deposition with No Transfer. *ACS Nano*, **2018**, 12, 2008-2016	16.7	43
306	Electrical sensitivity behavior of a hydrogel composed of polymethacrylic acid/poly(vinyl alcohol). *Journal of Applied Polymer Science*, **2004**, 91, 3613-3617	2.9	42
305	Synthesis and characteristics of interpenetrating polymer network hydrogels composed of alginate and poly(diallydimethylammonium chloride). *Journal of Applied Polymer Science*, **2004**, 91, 3705-3709	2.9	42
304	Improvements in tunability of (Ba0.5Sr0.5)TiO3 thin films by use of metalorganic chemical vapor deposited (Ba,Sr)RuO3 interfacial layers. *Applied Physics Letters*, **2001**, 79, 1012-1014	3.4	41
303	Realization of a high capacitance density in Bi2Mg2Nb4O7 pyrochlore thin films deposited directly on polymer substrates for embedded capacitor applications. *Applied Physics Letters*, **2006**, 89, 232910	3.4	40
302	Swelling characterization of the semiinterpenetrating polymer network hydrogels composed of chitosan and poly(diallyldimethylammonium chloride). *Journal of Applied Polymer Science*, **2004**, 91, 2876-2880	2.9	39
301	SrTa2O6Thin Films Deposited by Plasma-Enhanced Atomic Layer Deposition. *Japanese Journal of Applied Physics*, **2001**, 40, 6941-6944	1.4	39
300	Electrical sensitive behavior of a polyelectrolyte complex composed of chitosan/hyaluronic acid. *Solid State Ionics*, **2003**, 164, 199-204	3.3	38
299	Electrical sensitive behavior of poly(vinyl alcohol)/poly (diallyldimethylammonium chloride) IPN hydrogel. *Sensors and Actuators B: Chemical*, **2003**, 88, 286-291	8.5	38
298	Phase-change InSbTe nanowires grown in situ at low temperature by metal-organic chemical vapor deposition. *Nano Letters*, **2010**, 10, 472-7	11.5	36
297	Nanoscale Silver-Based Al-Doped ZnO Multilayer Transparent-Conductive Oxide Films. *Journal of the Electrochemical Society*, **2009**, 156, J215	3.9	36
296	Characteristics of perovskite (Li0.5La0.5)TiO3 solid electrolyte thin films grown by pulsed laser deposition for rechargeable lithium microbattery. *Electrochimica Acta*, **2004**, 50, 371-374	6.7	36
295	Characteristics of Amorphous Lithium Lanthanum Titanate Electrolyte Thin Films Grown by PLD for Use in Rechargeable Lithium Microbatteries. *Electrochemical and Solid-State Letters*, **2005**, 8, A75		36
294	Enhanced thermoelectric properties of flexible Cu2Se (x 0.25) NW/polyvinylidene fluoride composite films fabricated via simple mechanical pressing. *Journal of Materials Chemistry C*, **2017**, 5, 763-769	7.1	35
293	Characterization of SrBi2Ta2O9 ferroelectric thin films deposited at low temperatures by plasma-enhanced metalorganic chemical vapor deposition. *Applied Physics Letters*, **1997**, 71, 81-83	3.4	35
292	Optical Properties of Colloidal CH3NH3PbBr3 Nanocrystals by Controlled Growth of Lateral Dimension. *Crystal Growth and Design*, **2017**, 17, 794-799	3.5	34

291	Characterization of silver-saturated Ge□Te chalcogenide thin films for nonvolatile random access memory. *Journal of Vacuum Science & Technology B*, **2006**, 24, 721		34
290	Characterization of Tantalum Nitride Thin Films Deposited on SiO[sub 2]□Si Substrates Using dc Magnetron Sputtering for Thin Film Resistors. *Journal of the Electrochemical Society*, **2006**, 153, G164	3.9	34
289	Synthesis of conducting polyaniline in semi-IPN based on chitosan. *Synthetic Metals*, **2005**, 154, 213-216	3.6	34
288	An amperometric glucose biosensor based on a GOx-entrapped TiO2□WCNT composite. *Sensors and Actuators B: Chemical*, **2012**, 166-167, 103-109	8.5	33
287	Crystallized Indium-Tin Oxide (ITO) Thin Films Grown at Low Temperature onto Flexible Polymer Substrates. *ECS Journal of Solid State Science and Technology*, **2012**, 1, Q106-Q109	2	33
286	Characteristics of electrical responsive alginate/poly(diallyldimethylammonium chloride) IPN hydrogel in HCl solutions. *Sensors and Actuators B: Chemical*, **2003**, 96, 1-5	8.5	33
285	Characterization of LiCoO[sub 2] Thin Film Cathodes Deposited by Liquid-Delivery Metallorganic Chemical Vapor Deposition for Rechargeable Lithium Batteries. *Journal of the Electrochemical Society*, **2002**, 149, A1584	3.9	33
284	Utilization of AZO/Au/AZO multilayer electrodes instead of FTO for perovskite solar cells. *Solar Energy Materials and Solar Cells*, **2017**, 163, 58-65	6.4	32
283	Scalable Synthesis of Exfoliated Organometal Halide Perovskite Nanocrystals by Ligand-Assisted Ball Milling. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 3733-3738	8.3	32
282	Growth Mechanism of the Copper Oxide Nanowires from Copper Thin Films Deposited on CuO-Buffered Silicon Substrate. *Journal of the Electrochemical Society*, **2010**, 157, K119	3.9	32
281	Characterizations of high resistivity TiNxOy thin films for applications in thin film resistors. *Microelectronics Reliability*, **2007**, 47, 752-754	1.2	31
280	Dye-sensitized solar cell based on AZO/Ag/AZO multilayer transparent conductive oxide film. *Journal of Alloys and Compounds*, **2013**, 556, 121-126	5.7	30
279	Microstructural and electrical properties of Ga2O3 nanowires grown at various temperatures by vapor□liquid□solid technique. *Sensors and Actuators B: Chemical*, **2009**, 140, 240-244	8.5	30
278	Characterization of photoconductive CdS thin films prepared on glass substrates for photoconductive-sensor applications. *Journal of Vacuum Science & Technology B*, **2008**, 26, 1334		29
277	CVD-deposited hybrid lead halide perovskite films for high-responsivity, self-powered photodetectors with enhanced photo stability under ambient conditions. *Nano Energy*, **2020**, 74, 104872	17.1	29
276	Chemically and thermo-mechanically stable LSM□YSZ segmented oxygen permeable ceramic membrane. *Journal of Membrane Science*, **2015**, 486, 222-228	9.6	28
275	Efficiency enhancement of flexible dye-sensitized solar cell with sol□gel formed Nb2O5 blocking layer. *Current Applied Physics*, **2013**, 13, 1391-1396	2.6	28
274	Enhanced photoelectrochemical activity of the TiO2 /ITO nanocomposites grown onto single-walled carbon nanotubes at a low temperature by nanocluster deposition. *Advanced Materials*, **2011**, 23, 5557-62	24	28

273	Surface engineering for improved stability of CHNHPbBr perovskite nanocrystals. *Nanoscale*, **2018**, 10, 1885-1891	7.7	28
272	Effect of the deposition temperature on temperature coefficient of resistance in CuNi thin film resistors. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2004**, 22, 2698		27
271	Improvement in ferroelectric properties of SrBi2Ta2O9 thin films with Bi2O3 buffer layers by liquid-delivery metalorganic chemical-vapor deposition. *Applied Physics Letters*, **2001**, 79, 1519-1521	3.4	27
270	Control of the Interfacial Layer Thickness in Hafnium Oxide Gate Dielectric Grown by PECVD. *Journal of the Electrochemical Society*, **2003**, 150, F75	3.9	26
269	Chemical vapor deposition in fabrication of robust and highly efficient perovskite solar cells based on single-walled carbon nanotubes counter electrodes. *Journal of Alloys and Compounds*, **2018**, 747, 703-711	5.7	25
268	Characterization of HfO[sub 2] and HfO[sub x]N[sub y] Gate Dielectrics Grown by PE Metallorganic CVD with a TaN Gate Electrode. *Journal of the Electrochemical Society*, **2004**, 151, G262	3.9	25
267	Effect of grain size on thermal transport in post-annealed antimony telluride thin films. *Nanoscale Research Letters*, **2015**, 10, 20	5	24
266	Unveiling Predominant Air-Stable Organotin Bromide Perovskite toward Mechanical Energy Harvesting. *ACS Applied Materials & Interfaces*, **2020**, 12, 16469-16480	9.5	23
265	Self-powered pressure and light sensitive bimodal sensors based on long-term stable piezo-photoelectric MAPbI3 thin films. *Journal of Materials Chemistry C*, **2018**, 6, 2786-2792	7.1	23
264	A novel approach to ambient energy (thermoelectric, piezoelectric and solar-TPS) harvesting: Realization of a single structured TPS-fusion energy device using MAPbI3. *Nano Energy*, **2018**, 52, 11-21	17.1	23
263	Electrical properties of Bi2Mg2□Nb4□O7 (BMN) pyrochlore thin films deposited on Pt and Cu metal at low temperatures for embedded capacitor applications. *Applied Physics Letters*, **2007**, 90, 052903	3.4	23
262	Improvement of discharge capacity of LiCoO2 thin-film cathodes deposited in trench structure by liquid-delivery metalorganic chemical vapor deposition. *Applied Physics Letters*, **2003**, 82, 3345-3347	3.4	23
261	Effect of nitrogen incorporation on improvement of leakage properties in high-k HfO2 capacitors treated by N2-plasma. *Applied Physics Letters*, **2005**, 87, 132903	3.4	23
260	Improvement in tunability and dielectric loss of (Ba0.5Sr0.5)TiO3 capacitors using seed layers on Pt/Ti/SiO2/Si substrates. *Journal of Materials Research*, **2002**, 17, 2831-2836	2.5	23
259	Application of polyaniline nanowires electrodeposited on the FTO glass substrate as a counter electrode for low-cost dye-sensitized solar cells. *Current Applied Physics*, **2014**, 14, 1607-1611	2.6	22
258	Formation of artificial pores in nano-TiO2 photo-electrode films using acetylene-black for high-efficiency, dye-sensitized solar cells. *Scientific Reports*, **2013**, 3, 1496	4.9	22
257	Very Thin TiO2 Films Prepared by Plasma Enhanced Atomic Layer Deposition (PEALD). *Integrated Ferroelectrics*, **2004**, 68, 129-137	0.8	22
256	Structural and electrical properties of HfOxNy and HfO2 gate dielectrics in TaN gated nMOSCAP and nMOSFET devices. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2004**, 22, 1755		22

255	Fabrication of undoped ZnO thin film via photosensitive sol□gel method and its applications for an electron transport layer of organic solar cells. *Applied Surface Science*, **2015**, 351, 487-491	6.7	21
254	Realization of large-area wrinkle-free monolayer graphene films transferred to functional substrates. *Scientific Reports*, **2015**, 5, 9610	4.9	21
253	Effect of Chromium Concentration on the Electrical Properties of NiCr Thin Films Resistor Deposited at Room Temperature by Magnetron Cosputtering Technique. *Journal of the Electrochemical Society*, **2006**, 153, G27	3.9	21
252	Room-temperature ferromagnetism observed in Mo-doped indium oxide films. *Applied Physics Letters*, **2009**, 95, 122502	3.4	20
251	Light-Driven Piezo- and Triboelectricity in Organic-Inorganic Metal Trihalide Perovskite toward Mechanical Energy Harvesting and Self-powered Sensor Application. *ACS Applied Materials & Interfaces*, **2020**, 12, 50472-50483	9.5	20
250	Enhanced thermoelectric properties of thermal treated Sb2Te3 thin films. *Journal of Alloys and Compounds*, **2014**, 583, 111-115	5.7	19
249	Effect of thickness on electrical properties of bismuth-magnesium niobate pyrochlore thin films deposited at low temperature. *Journal of Applied Physics*, **2007**, 101, 084114	2.5	19
248	Characterization of (Ba0.5,Sr0.5)TIO3 thin films by the laser ablation technique and their electrical properties with different electrodes. *Integrated Ferroelectrics*, **1995**, 7, 329-339	0.8	19
247	Large-scale room-temperature aqueous synthesis of Co superstructures with controlled morphology, and their application to electromagnetic wave absorption. *Metals and Materials International*, **2017**, 23, 405-411	2.4	18
246	Transparent Capacitor for the Storage of Electric Power Produced by Transparent Solar Cells. *Journal of the Electrochemical Society*, **2009**, 156, G180	3.9	18
245	Structural and electrical characterization of tantalum nitride thin film resistors deposited on AlN substrates for □type attenuator applications. *Materials Science and Engineering B: Solid-State Materials for Advanced Technology*, **2006**, 135, 162-165	3.1	18
244	Densification of SiCf/SiC composite by the multi-step of whisker growing and matrix filling. *Journal of Nuclear Materials*, **2004**, 329-333, 530-533	3.3	18
243	Electrical and reliability characteristics of HfO2 gate dielectric treated in N2 and NH3 plasma atmosphere. *Applied Surface Science*, **2005**, 242, 313-317	6.7	18
242	The Effect of a Sol-gel Formed TiO2Blocking Layer on the Efficiency of Dye-sensitized Solar Cells. *Bulletin of the Korean Chemical Society*, **2011**, 32, 3629-3633	1.2	18
241	Effect of annealing temperature on surface morphology and ultralow ferromagnetic resonance linewidth of yttrium iron garnet thin film grown by rf sputtering. *Applied Surface Science*, **2018**, 435, 377-383	6.7	18
240	Structural, Optical and Electrical Properties of HfO Thin Films Deposited at Low-Temperature Using Plasma-Enhanced Atomic Layer Deposition. *Materials*, **2020**, 13,	3.5	17
239	Zinc doped TiO2 blocking layer grown by nanocluster deposition for improved dye-sensitized solar cell performance. *Journal of Alloys and Compounds*, **2014**, 591, 1-5	5.7	17
238	Reduced temperature-dependent thermal conductivity of magnetite thin films by controlling film thickness. *Nanoscale Research Letters*, **2014**, 9, 96	5	17

237	Growth and Characterization of (Ba0.5Sr0.5)TiO3Films Epitaxially Grown on (002) GaN/(0006) Al2O3Electrode. *Japanese Journal of Applied Physics*, **2004**, 43, L1425-L1428	1.4	17
236	Synthesis and characterization of an interpenetrating polymer network composed of poly(methacrylic acid) and poly(vinyl alcohol). *Polymer International*, **2005**, 54, 149-152	3.3	17
235	Utilization of the Antiferromagnetic IrMn Electrode in Spin Thermoelectric Devices and Their Beneficial Hybrid for Thermopiles. *Advanced Functional Materials*, **2016**, 26, 5507-5514	15.6	17
234	Thermoelectric characterization and fabrication of nanostructured p-type Bi0.5Sb1.5Te3 and n-type Bi2Te3 thin film thermoelectric energy generator with an in-plane planar structure. *AIP Advances*, **2016**, 6, 065123	1.5	17
233	Low Resistivity ITO Thin Films Deposited by NCD Technique at Low Temperature: Variation of Tin Concentration. *Journal of the Electrochemical Society*, **2010**, 157, H937	3.9	16
232	Enhancement of Photosensitivity in CdS Thin Films Incorporated by Hydrogen. *Electrochemical and Solid-State Letters*, **2008**, 11, H176		16
231	Characteristics of Pt and TaN Metal Gate Electrode for High-□Hafnium Oxide Gate Dielectrics. *Electrochemical and Solid-State Letters*, **2004**, 7, G47		16
230	Bromine Doping of MAPbI3 Films Deposited via Chemical Vapor Deposition Enables Efficient and Photo-Stable Self-Powered Photodetectors. *Advanced Optical Materials*, **2020**, 8, 2000845	8.1	16
229	Achieving Antifingerprinting and Antibacterial Effects in Smart-Phone Panel Applications Using ZnO Thin Films without a Protective Layer. *ACS Applied Materials & Interfaces*, **2016**, 8, 997-1003	9.5	15
228	Epitaxial PMNPT thin films grown on buffered Si substrates using ceramic and single-crystal targets. *Journal of Alloys and Compounds*, **2011**, 509, 6924-6929	5.7	15
227	Bi2O3 nanowire growth from high-density Bi nanowires grown at a low temperature using aluminumBismuth co-deposited films. *Sensors and Actuators B: Chemical*, **2011**, 156, 709-714	8.5	15
226	Electrical and structural properties of SrTiO3 thin films deposited by plasma-enhanced metalorganic chemical vapor deposition. *Journal of Materials Research*, **1997**, 12, 1160-1164	2.5	15
225	Structural and electrical properties of Bi1.5Mg1.0Nb1.5O7 thin films deposited on Pt/TiO2/SiO2/Si substrates by rf-magnetron sputtering. *Journal of Vacuum Science & Technology B*, **2008**, 26, 1277		15
224	Improvement in ferroelectric properties of Pb(Zr0.35Ti0.65)O3 thin films using a Pb2Ru2O7□ conductive interfacial layer for ferroelectric random access memory application. *Applied Physics Letters*, **2003**, 83, 2880-2882	3.4	15
223	Halide (Cl/Br)-Incorporated Organic□Inorganic Metal Trihalide Perovskite Films: Study and Investigation of Dielectric Properties and Mechanical Energy Harvesting Performance. *ACS Applied Electronic Materials*, **2020**, 2, 2579-2590	4	15
222	Strategic extended air stability of organolead halide perovskite nonvolatile memory devices. *Journal of Alloys and Compounds*, **2019**, 811, 151999	5.7	14
221	Effect of protective layer on enhanced transmittance, mechanical durability, anti-fingerprint, and antibacterial activity of the silver nanoparticles deposited on flexible substrate. *Sensors and Actuators A: Physical*, **2015**, 221, 131-138	3.9	14
220	Formation of Bismuth Nanocrystals in Bi2O3Thin Films Grown at 300 K by Pulsed Laser Deposition for Thermoelectric Applications. *ECS Journal of Solid State Science and Technology*, **2014**, 3, P315-P319	2	14

219	Indium tin oxide thin films crystallized at a low temperature using a nanocluster deposition technique. *Scripta Materialia*, **2009**, 61, 867-870	5.6	14
218	Growth of high-quality ITO thin films at low temperature by tuning the oxygen flow rate using the nano-cluster deposition (NCD) technique. *Chemical Physics Letters*, **2010**, 490, 234-237	2.5	14
217	Enhanced transparency, mechanical durability, and antibacterial activity of zinc nanoparticles on glass substrate. *Scientific Reports*, **2014**, 4, 6271	4.9	13
216	Effect of electronic contribution on temperature-dependent thermal transport of antimony telluride thin film. *Journal of Alloys and Compounds*, **2015**, 620, 120-124	5.7	13
215	A graphene meta-interface for enhancing the stretchability of brittle oxide layers. *Nanoscale*, **2016**, 8, 4961-8	7.7	13
214	In-Situ Co-Arc Discharge Synthesis of Fe3O4/SWCNT Composites for Highly Effective Microwave Absorption. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700989	1.6	13
213	Predominant Stable MAPbI3 Films Deposited via Chemical Vapor Deposition: Stability Studies in Illuminated and Darkened States Coupled with Temperature under an Open-Air Atmosphere. *ACS Applied Energy Materials*, **2018**, 1, 3301-3312	6.1	13
212	Scale-Up Synthesis of Organometal Halide Perovskite Nanocrystals (MAPbX3, X = Cl, Br, and I). *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 19369-19374	8.3	13
211	Nanocluster deposition for oxide thin film growth at near room temperature. *Nanotechnology*, **2008**, 19, 435305	3.4	13
210	Ge film growth in the presence of Sb by metal organic chemical vapor deposition. *Journal of Applied Physics*, **2007**, 102, 083531	2.5	13
209	Electrical characteristics of Ga2O3□TiO2 nanomixed films grown by plasma-enhanced atomic-layer deposition for gate dielectric applications. *Applied Physics Letters*, **2005**, 87, 082909	3.4	13
208	Swelling and electroresponsive characteristics of interpenetrating polymer network hydrogels. *Polymer International*, **2005**, 54, 1169-1174	3.3	13
207	Enhanced transmittance, mechanical durability, and anti-fingerprinting qualities of silver nanoparticles deposited onto glass substrates. *Journal of Alloys and Compounds*, **2014**, 602, 255-260	5.7	12
206	Effects of the PyC interface coating on SiC nanowires of SiCf/SiC composite. *Journal of Nuclear Materials*, **2011**, 417, 367-370	3.3	12
205	Metalorganic chemical vapor deposition of non-GST chalcogenide materials for phase change memory applications. *Journal of Materials Chemistry*, **2010**, 20, 1751		12
204	Low-Temperature Nanocluster Deposition (NCD) for Improvement of the Structural, Electrical, and Optical Properties of ITO Thin Films. *IEEE Nanotechnology Magazine*, **2011**, 10, 1059-1065	2.6	12
203	Effect of indium concentration on the structural and electrical properties of Al-doped ZnO thin films grown by pulsed laser deposition. *Journal Physics D: Applied Physics*, **2008**, 41, 215107	3	12
202	Characterization of in situ diffusion of silver in Ge□e amorphous films for programmable metallization cell memory applications. *Journal of Vacuum Science & Technology B*, **2006**, 24, 2312		12

201	Effect of excess bismuth concentration on dielectric and electrical properties of fully crystallized Bi2Mg2□Nb4□O7 thin films. *Applied Physics Letters*, **2007**, 91, 072904	3.4	12
200	Porous Fe3O4 Nanospheres with Controlled Porosity for Enhanced Electromagnetic Wave Absorption. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1701032	1.6	12
199	Selective growth of pure magnetite thin films and/or nanowires grown in situ at a low temperature by pulsed laser deposition. *Journal of Materials Chemistry C*, **2013**, 1, 1977	7.1	11
198	Structural and Electrical Properties of TiN[sub x]O[sub y] Thin-Film Resistors for 30 dB Applications of □ype Attenuator. *Journal of the Electrochemical Society*, **2006**, 153, G856	3.9	11
197	Plasma-Enhanced Atomic Layer Deposition of SrTa[sub 2]O[sub 6] Thin Films Using Sr[Ta(OC[sub 2]H[sub 5])[sub 5](OC[sub 2]H[sub 4]OCH[sub 3])][sub 2] as Precursor. *Journal of the Electrochemical Society*, **2004**, 151, C292	3.9	11
196	Plasma Nitration of HfO[sub 2] Gate Dielectric in Nitrogen Ambient for Improvement of TaN/HfO[sub 2]/Si Performance. *Electrochemical and Solid-State Letters*, **2004**, 7, F59		11
195	Pt Thin Film Collectors Prepared by Liquid-Delivery Metal□Organic CVD Using Pt(C2H5C5H4)(CH3)3 for LiCoO2 Thin Film Cathodes. *Chemical Vapor Deposition*, **2003**, 9, 321-325		11
194	Characterization of (Ba1□,Srx)TiO3 thin films deposited on Pt/Ti/SiO2/Si substrates with different Ti buffer layer thicknesses. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **1999**, 17, 2182		11
193	Characterization of (Pb1-xLax)TiO3 thin films grown by radio-frequency magnetron sputtering and their electrical properties. *Integrated Ferroelectrics*, **1995**, 10, 63-72	0.8	11
192	Resistance against water and acid water (pH□=□4.0) via Al-doped ZnO thin films for environmentally friendly glass panels. *Journal of Alloys and Compounds*, **2017**, 719, 271-280	5.7	10
191	Epitaxial 0.65PbMg1/3Nb2/3O3□0.35PbTiO3 (PMN□PT) thin films grown on LaNiO3/CeO2/YSZ buffered Si substrates. *Journal of Alloys and Compounds*, **2011**, 509, 3065-3069	5.7	10
190	An extremely high dielectric constant in bismuth-based pyrochlore multilayer film capacitors combined with percolative structure. *Applied Physics Letters*, **2008**, 93, 212901	3.4	10
189	Bismuth-Based Pyrochlore Thin Films Deposited at Low Temperatures for Embedded Capacitor Applications. *Japanese Journal of Applied Physics*, **2006**, 45, 7325-7328	1.4	10
188	Structural and electrical characterizations of ultrathin HfO2 gate dielectrics treated by nitrogen-plasma atmosphere. *Journal of Vacuum Science & Technology B*, **2006**, 24, 312		10
187	Structural and Electrical Properties of NiCr Thin Films Annealed at Various Temperatures in a Vacuum and a Nitrogen Ambient for □Type Attenuator Applications. *Journal of the Electrochemical Society*, **2006**, 153, G660	3.9	10
186	Structural and electrical properties of high-□Bi2Mg2□Nb4□O7 pyrochlore films on silicon for possible gate dielectric applications. *Journal of Applied Physics*, **2007**, 102, 054103	2.5	10
185	Water sorption of poly(vinyl alcohol)/ poly(diallyldimethylammonium chloride) interpenetrating polymer network hydrogels. *Journal of Applied Polymer Science*, **2003**, 90, 1389-1392	2.9	10
184	ZnAl□□DH-induced electroactive □phase and controlled dielectrics of PVDF for a high-performance triboelectric nanogenerator for humidity and pressure sensing applications. *Journal of Materials Chemistry A*, **2021**, 9, 15993-16005	13	10

183	Ensemble Design of Electrode-Electrolyte Interfaces: Toward High-Performance Thin-Film All-Solid-State Li-Metal Batteries. *ACS Nano*, **2021**, 15, 4561-4575	16.7	10
182	Transparent conducting oxide free dye sensitized solar cell using flexible stainless steel mesh. *Journal of Alloys and Compounds*, **2013**, 578, 609-612	5.7	9
181	Dynamic Strain Evolution around a Crack Tip under Steady- and Overloaded-Fatigue Conditions. *Metals*, **2015**, 5, 2109-2118	2.3	9
180	Morphology Control of Pt Counter Electrodes Using a Pt Precursor Solution with H2PtCl6□xH2O for Highly Efficient Dye-Sensitized Solar Cells. *Journal of the Electrochemical Society*, **2014**, 161, H166-H171	3.9	9
179	Microstructural and electrical properties of 0.65Pb(Mg1/3Nb2/3)O3□.35PbTiO3 (PMNPT) epitaxial films grown on Si substrates. *Sensors and Actuators B: Chemical*, **2011**, 155, 854-858	8.5	9
178	Characterization of Ge[sub 1□]Te[sub x] Chalcogenide Thin Films Deposited by MOCVD for Phase Change Memory Applications. *Journal of the Electrochemical Society*, **2008**, 155, D137	3.9	9
177	Development of embedded capacitor with bismuth-based pyrochlore thin films at low temperatures for printed circuit board applications. *Microelectronics Reliability*, **2007**, 47, 755-758	1.2	9
176	Structural and ferroelectric properties of (Bi,Ce)4Ti3O12 thin films grown by pulsed laser deposition for ferroelectric random access memories. *Applied Surface Science*, **2004**, 227, 187-192	6.7	9
175	Influence of laser treatment on the electrical properties of plasma-enhanced-atomic-layer-deposited TiO2 thin films. *Metals and Materials International*, **2005**, 11, 285-289	2.4	9
174	Highly Photoconductive CdS Thin Films Synthesized by UsingChemical Bath Deposition. *Journal of the Korean Physical Society*, **2009**, 55, 284-287	0.6	9
173	Simultaneous realization of electromagnetic interference shielding, hydrophobic qualities, and strong antibacterial activity for transparent electronic devices. *Current Applied Physics*, **2016**, 16, 1642-1648	2.6	9
172	Lead-free 0.75(Bi0.5Na0.5)TiO3-0.25SrTiO3 (BNT-ST) epitaxial films grown on Si (001) substrates via pulsed laser deposition. *Sensors and Actuators A: Physical*, **2016**, 243, 117-122	3.9	9
171	The Recent Progress on Halide Perovskite-Based Self-Powered Sensors Enabled by Piezoelectric and Triboelectric Effects. *Nanoenergy Advances*, **2021**, 1, 3-31		9
170	Effect of Structural Change on Thermoelectric Properties of the Chalcogenide Ge2Sb2Te5Thin Films. *ECS Journal of Solid State Science and Technology*, **2014**, 3, P298-P301	2	8
169	Realization of transparent and flexible capacitors using reliable graphene electrodes. *RSC Advances* , **2012**, 2, 5214	3.7	8
168	Self-catalytic growth of indium oxide flower-like nanostructures by nano-cluster deposition (NCD) at low temperature. *CrystEngComm*, **2011**, 13, 663-667	3.3	8
167	Ultraviolet response and photoelectrochemical properties of a rutile and anatase mixture grown onto single-wall carbon nanotubes at a low temperature using nano-cluster deposition. *Journal of Materials Chemistry*, **2011**, 21, 16473		8
166	Effect of Deposition Temperature on Al[sub 0.016]In[sub 0.003]Zn[sub 0.981]O Thin Films Grown on Glass Substrates by Pulsed Laser Deposition. *Journal of the Electrochemical Society*, **2008**, 155, H786	3.9	8

165	Effects of Nitrogen Concentration on Structural and Electrical Properties of Titanium Nitride for Thin-Film Resistor Applications. *Electrochemical and Solid-State Letters*, **2006**, 9, G279		8
164	Intrinsic ferromagnetic properties of Ti0.94Fe0.06O2Ti0.94Mn0.06O2 superlattice films for dilute magnetic semiconductor applications. *Applied Physics Letters*, **2006**, 89, 162109	3.4	8
163	Co clustering and ferromagnetism in chemical vapor deposited Ti1CoxO2thin films. *Applied Physics Letters*, **2007**, 90, 102504	3.4	8
162	Ti(N) thin film resistors for 20dB type attenuator applications. *Applied Physics Letters*, **2007**, 90, 183506	3.4	8
161	Effect of annealing temperature on structural and electrical properties of tantalum nitride thin film resistors deposited on SiO2Si substrates by dc sputtering technique. *Journal of Vacuum Science & Technology B*, **2006**, 24, 682		8
160	Effect of film thickness on the ferroelectric properties of Pb(Zr0.2Ti0.8)O3 thin films for nano-data storage applications. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 1901		8
159	High Temperature Oxidation of TiAlN Thin Films for Memory Devices. *Integrated Ferroelectrics*, **2002**, 48, 281-290	0.8	8
158	Effect of hydrogen on true leakage current characteristics of (Pb,La)(Zr,Ti)O3 thin-film capacitors with Pt- or Ir-based top electrodes. *Journal of Materials Research*, **2001**, 16, 1185-1189	2.5	8
157	Effect of Ionic Liquids with Different Cations in I-/I3-Redox Electrolyte on the Performance of Dye-sensitized Solar Cells. *Bulletin of the Korean Chemical Society*, **2011**, 32, 2058-2062	1.2	8
156	Effects of heating rate on the magneto-optical properties of bismuth-substituted yttrium iron garnet films prepared via modified metal-organic decomposition. *Current Applied Physics*, **2018**, 18, 241-245	2.6	8
155	Most facile synthesis of Zn-Al:LDHs nanosheets at room temperature via environmentally friendly process and their high power generation by flexoelectricity. *Materials Today Energy*, **2018**, 10, 254-263	7	8
154	Thermoelectric property of Fe3O4 thin films grown onto the SiO2 (250 nm)/Si and c-Al2O3 (0 0 0 1) substrate at 573 K using pulsed laser deposition. *Sensors and Actuators B: Chemical*, **2014**, 204, 622-628	8.5	7
153	Electrical Properties of Epitaxial 0.65Pb (Mg1/3Nb2/3)O3-0.35PbTiO3 Thin Films Grown on Buffered Si Substrates by Pulsed Laser Deposition. *International Journal of Applied Ceramic Technology*, **2011**, 8, 1393-1399	2	7
152	Epitaxial PMN-PT Thin Films Grown on LaNiO3/CeO2/YSZ Buffered Si(001) Substrates by Pulsed Laser Deposition. *Journal of the Electrochemical Society*, **2011**, 158, G83	3.9	7
151	High-Resistivity Thin-Film Resistors Grown Using $ hbox{CrB}_{2}$SiSiC Materials by Radio-Frequency Magnetron Sputtering. *IEEE Transactions on Electron Devices*, **2010**, 57, 1475-1480	2.9	7
150	Effect of Deposition Temperature on the Structural and Electrical Properties of NiCr Thin-Film Resistors by Magnetron Cosputtering. *Journal of the Electrochemical Society*, **2006**, 153, G606	3.9	7
149	Structural and Dielectric Properties of Cubic Fluorite Bi[sub 3]NbO[sub 7] Thin Films As-Deposited at 298 K by PLD for Embedded Capacitor Applications. *Journal of the Electrochemical Society*, **2006**, 153, F225	3.9	7
148	Nonvolatile programmable metallization cell memory switching element based on Ag-doped SbTe solid electrolyte. *Applied Physics Letters*, **2007**, 91, 162107	3.4	7

147	Effect of the water state on the electrical bending behavior of chitosan/poly(diallyldimethylammonium chloride) hydrogels in NaCl solutions. *Journal of Polymer Science, Part B: Polymer Physics*, **2004**, 42, 914-921	2.6	7
146	Swelling Characterizations of the Interpenetrating Polymer Network Hydrogels Composed of Polymethacrylic Acid and Alginate. *Journal of Macromolecular Science - Pure and Applied Chemistry*, **2005**, 42, 811-820	2.2	7
145	Chemical Vapor Deposition of Tantalum Carbide from TaCl5-C3H6-Ar-H2 System. *Journal of the Korean Ceramic Society*, **2016**, 53, 597-603	2.2	7
144	Comparative study of hybrid perovskite phototransistors based on CVD-grown and spin-coated MAPbI3. *Journal of Alloys and Compounds*, **2020**, 815, 152404	5.7	7
143	Engineering Chemical Vapor Deposition for Lead-Free Perovskite-Inspired MA3Bi2I9 Self-Powered Photodetectors with High Performance and Stability. *Advanced Optical Materials*, **2021**, 9, 2100192	8.1	7
142	Enhanced Output Performance of Nanogenerator Based on Composite of Poly Vinyl Fluoride (PVDF) and Zn:Al Layered-Double Hydroxides (LDHs) Nanosheets. *Transactions on Electrical and Electronic Materials*, **2018**, 19, 403-411	1.7	7
141	Enhancement of solar cell efficiency using perovskite dyes deposited via a two-step process. *RSC Advances*, **2015**, 5, 33515-33523	3.7	6
140	Gas-Sensing Properties of ZnO Nanorods at Room Temperature Under Continuous UV Illumination in Humid Air. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 10346-10350	1.3	6
139	Transparent Conductive Films of Copper Nanofiber Network Fabricated by Electrospinning. *Journal of Nanomaterials*, **2015**, 2015, 1-8	3.2	6
138	Dielectric Bi[sub 3]NbO[sub 7] Thin Films Deposited on Polymer Substrates by Nanocluster Deposition for Flexible Electronic Device Applications. *Electrochemical and Solid-State Letters*, **2009**, 12, G23		6
137	Electrical properties of SrBi2Ta2O9 thin films deposited by RF magnetron sputtering. *Integrated Ferroelectrics*, **1997**, 18, 377-387	0.8	6
136	Effect of second phase on the electrical properties of SrBi2Ta2O9 (SBT) thin films deposited at 550□C by PEMOCVD. *Integrated Ferroelectrics*, **1998**, 21, 207-215	0.8	6
135	Nonvolatile Memory-Switching Behaviors of Phase-Change Memory Devices Using TiSiN Heating Layers. *Journal of the Electrochemical Society*, **2008**, 155, H421	3.9	6
134	Experimental investigation of interfacial and electrical properties of post-deposition annealed Bi2Mg2/3Nb4/3O7(BMN) dielectric films on silicon. *Journal Physics D: Applied Physics*, **2008**, 41, 135311	3	6
133	GROWTH OF Ge-DOPED Sb2Te3 THIN FILMS BY METAL-ORGANIC CHEMICAL VAPOR DEPOSITION. *Integrated Ferroelectrics*, **2007**, 90, 80-87	0.8	6
132	Nitrogen Incorporation on the Crystallization Temperature of Silver-Doped Ge[sub 45]Te[sub 55] Solid-Electrolyte Films for PMC Memory Applications. *Electrochemical and Solid-State Letters*, **2006**, 9, G364		6
131	Thickness Dependence of the Electrical Properties of CuNi Thin Film Resistors Grown on AlN Substrates for □Type Attenuator Application. *Electrochemical and Solid-State Letters*, **2005**, 8, G92		6
130	Ultrathin HfO2 gate dielectric grown by plasma-enhanced chemical vapor deposition using Hf[OC(CH3)3]4 as a precursor in the absence of O2. *Journal of Materials Research*, **2003**, 18, 60-65	2.5	6

129	The Structural and Electrical Properties of CuNi Thin-Film Resistors Grown on AlN Substrates for □Type Attenuator Application. *Journal of the Electrochemical Society*, **2005**, 152, G472	3.9	6
128	Electrical Properties in High-k HfO[sub 2] Capacitors with an Equivalent Oxide Thickness of 9 A on Ru Metal Electrode. *Electrochemical and Solid-State Letters*, **2005**, 8, F17		6
127	NiCr Bottom Electrodes for Ta 2 O 5 High Dielectric Thin Films in Metal-Insulator-Metal Capacitors. *Integrated Ferroelectrics*, **2002**, 47, 41-48	0.8	6
126	Synergistic Contribution of Flexoelectricity and Piezoelectricity Towards a Stretchable Robust Nanogenerator for Wearable Electronics. *Nano Energy*, **2021**, 106691	17.1	6
125	Enhanced thermoelectric properties of Ge 2 Sb 2 Te 5 thin films through the control of crystal structure. *Current Applied Physics*, **2017**, 17, 744-750	2.6	5
124	Large-area thin-film capacitors deposited onto graphene bottom electrodes via facing-target sputtering that is free of plasma damage. *Journal of Alloys and Compounds*, **2017**, 695, 2886-2893	5.7	5
123	Observation of chemical separation of In3Sb1Te2 thin film during phase transition. *Applied Surface Science*, **2014**, 292, 986-989	6.7	5
122	Enhanced Photoelectrochemical Activity from Visible Light by Growing CdS/ITO Nanocomposites onto Single-Walled Carbon Nanotubes. *Journal of the Electrochemical Society*, **2013**, 160, H192-H196	3.9	5
121	Enhanced reproducibility of the high efficiency perovskite solar cells via a thermal treatment. *RSC Advances*, **2015**, 5, 52571-52577	3.7	5
120	Structural properties of phase-change InSbTe thin films grown at a low temperature by metalorganic chemical vapor deposition. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 189-94	1.3	5
119	Conduction Properties and a Long-Term Stability of the Transparent Capacitors. *Journal of the Electrochemical Society*, **2010**, 157, G258	3.9	5
118	Electrical Properties of Bi[sub 2]Mg[sub 2/3]Nb[sub 4/3]O[sub 7] Multilayer Films Combined with Percolative Capacitors. *Journal of the Electrochemical Society*, **2009**, 156, G134	3.9	5
117	Effect of annealing conditions on the microstructure of RuO2 thin films deposited by metalorganic chemical vapor deposition. *Integrated Ferroelectrics*, **1997**, 18, 171-182	0.8	5
116	Effect of substrate temperature on structural and electrical properties of liquid-delivery metal organic chemical vapor deposited indium oxide thin films on silicon. *Journal of Vacuum Science & Technology B*, **2008**, 26, 909		5
115	Improvement of Leakage Current Characteristics by Plasma Treatment in Bi[sub 2]Mg[sub 2□]Nb[sub 4□]O[sub 12] Dielectric Thin Films. *Electrochemical and Solid-State Letters*, **2007**, 10, G18		5
114	Realization of □type attenuator using Ti(N) thin films for the fourth generation of mobile telecommunications. *Applied Physics Letters*, **2007**, 91, 203502	3.4	5
113	Improvement of electrochemical properties in LiCoO2 cathode films grown on Pt□□iO2□iO2□i substrates by liquid-delivery metalorganic chemical vapor deposition. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2004**, 22, 2356-2360	2.9	5
112	Effect of cerium concentration on the structural and ferroelectric properties of Bi4□CexTi3O12 thin films for ferroelectric random access memories. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 1029		5

111	Compositional Control of Ferroelectric SrBi[sub 2]Ta[sub 2]O[sub 9] Thin Films by Liquid Delivery MOCVD Using a Single Cocktail of Sr[Ta(OEt)[sub 5](dmae)][sub 2] and Bi(C[sub 6]H[sub 5])[sub 3]. *Journal of the Electrochemical Society*, **2001**, 148, C762	3.9	5
110	Low-temperature Crystallization of SrBi2Ta2O9 Thin Filmswith Bi2O3 Interfacial Layers by Liquid-delivery Metalorganicchemical Vapor Deposition. *Journal of Materials Research*, **2002**, 17, 26-30	2.5	5
109	Reduction of magnetic resonance image artifacts of NiTi implant by carbon coating. *Materials Science and Engineering C*, **2019**, 98, 1-8	8.3	5
108	Direct Growth of Highly Conductive Large-Area Stretchable Graphene. *Advanced Science*, **2021**, 8, 2003697	15.6	5
107	Microstructural and electrical properties of lead-free 0.5Ba(Zr 0.2 Ti 0.8)O 3 0.5(Ba 0.7 Ca 0.3)TiO 3 (BZTBCT) epitaxial films grown on Si (0 0 1) substrates. *Scripta Materialia*, **2015**, 108, 96-99	5.6	4
106	Transparent nanoscale floating gate memory using self-assembled bismuth nanocrystals in Bi(2) Mg(2/3) Nb(4/3) O(7) (BMN) pyrochlore thin films grown at room temperature. *Advanced Materials*, **2012**, 24, 3396-400	24	4
105	Thermal stability of GeSbTe thin films deposited by layer-by-layer metalorganic chemical vapor deposition. *Journal of Vacuum Science & Technology B*, **2009**, 27, L54		4
104	Phase Change Memory using InSbTe Chalcogenide Materials Deposited by Metal-organic Chemical Vapor Deposition. *ECS Transactions*, **2009**, 25, 1129-1133	1	4
103	Preparation of fatigue-free SrBi2Ta2O9 thin films by r.f. magnetron sputtering and their ferroelectric properties. *Journal of Materials Science*, **1998**, 33, 2851-2855	4.3	4
102	Effect of Li0.5La0.5TiO3 solid electrolyte films on electrochemical properties of LiCoO2 thin film cathodes with different rapid-thermal annealing conditions. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2005**, 23, 2089		4
101	Ferromagnetic and electrical properties in ferromagnetic semiconductor Ti1−xCoxO2−δ thin films grown by pulsed laser deposition. *Journal of Applied Physics*, **2005**, 97, 10D326	2.5	4
100	Improvement in Structural and Electrical Properties of (Ba0.5Sr0.5)TiO3Capacitors Using (Ba0.5Sr0.5)RuO3Conductive Layers at (Ba0.5Sr0.5)TiO3/Pt Interface. *Japanese Journal of Applied Physics*, **2004**, 43, 1442-1445	1.4	4
99	Phase Formations and Electrical Properties of Bi3.15La0.85Ti3O12and Sm-Doped Bi3.073La0.85Sm0.077Ti3O12Thin Films with Annealing Temperature. *Japanese Journal of Applied Physics*, **2004**, 43, 6594-6598	1.4	4
98	PLASMA-ENHANCED ATOMIC LAYER DEPOSITION OF ULTRATHIN Ga2O3-TiO2 GATE DIELECTRICS ON Si (001) Substrates. *Integrated Ferroelectrics*, **2005**, 74, 181-187	0.8	4
97	Influence of Narrow Transverse Slit in Ferroelectric Based Voltage Tunable Phase Shifter. *Japanese Journal of Applied Physics*, **2002**, 41, 7218-7221	1.4	4
96	Ferroelectric SrBi2Ta2O9 thin films deposited by liquid injection MOCVD using novel bimetallic alkoxide precursor. *Integrated Ferroelectrics*, **2000**, 30, 27-36	0.8	4
95	Electrical properties of hafnium oxide gate dielectric deposited by plasma enhanced chemical vapor deposition. *Integrated Ferroelectrics*, **2001**, 38, 191-199	0.8	4
94	Preparation of ferroelectric YMnO3 thin films for nonvolatile memory devices by metalorganic chemical vapor deposition. *Integrated Ferroelectrics*, **1998**, 21, 319-329	0.8	4

93	Oxidation of CVD □SiC in Impurity-Controlled Helium Environment at 950?. *Journal of the Korean Ceramic Society*, **2011**, 48, 426-432	2.2	4
92	Analysis of Thermal Conductivity of Antimony Telluride Thin Films by Modified Callaway and Sondheimer Models. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 7567-7572	1.3	4
91	Magnetic resonance absorption in isolated metal/insulator/metal nanodot arrays with transmission geometry. *Current Applied Physics*, **2015**, 15, 844-849	2.6	3
90	Thermoelectric properties of nanocomposite n -type Cr 2 O 3 /Cr thin films deposited by a reactive sputtering. *Vacuum*, **2017**, 140, 71-75	3.7	3
89	Conformal Properties of InSbTe Thin Films Grown at a Low Temperature by MOCVD for PRAM Applications. *Journal of the Electrochemical Society*, **2010**, 157, D353	3.9	3
88	Transparent Bi[sub 3]NbO[sub 7] Dielectrics Grown on Flexible Polymer Substrates by Nanocluster Deposition. *Electrochemical and Solid-State Letters*, **2009**, 12, G72		3
87	Control of the shielding and the transmission of an electro-magnetic wave (~GHz) by a visible light using flexible CdS films grown on polymer substrates. *Sensors and Actuators B: Chemical*, **2010**, 147, 67-72	8.5	3
86	Interfacial and electrical properties of ZrxTi1□O4 (x=0.66) films deposited by liquid-delivery metal organic chemical vapor deposition to be used as high-k gate dielectric. *Journal of Vacuum Science & Technology B*, **2008**, 26, 1338		3
85	GATE DIELECTRICS Bi2Mg2/3Nb4/3O7 THIN FILMS DEPOSITED BY PULSED LASER DEPOSITION FOR ORGANIC THIN FILM TRANSISTOR APPLICATIONS. *Integrated Ferroelectrics*, **2006**, 86, 41-47	0.8	3
84	CHARACTERISTICS OF BISMUTH-BASED THIN FILMS DEPOSITED DIRECTLY ON POLYMER SUBSTRATES FOR EMBEDDED CAPACITOR APPLICATION. *Integrated Ferroelectrics*, **2007**, 95, 187-195	0.8	3
83	Characteristics of Ti0.97Co0.03O2:Sb0.01 dilute magnetic semiconducting thin films deposited at 500 □C by pulsed laser deposition. *Journal of Magnetism and Magnetic Materials*, **2006**, 304, e140-e142	2.8	3
82	Laser Treatment at Room Temperature for Improvement of Dielectric Properties in Plasma-Enhanced Atomic Layer Deposited TiO2 Thin Films. *Integrated Ferroelectrics*, **2004**, 68, 63-73	0.8	3
81	The Tunable Characteristics of Ni-Doped (Ba 0.5 Sr 0.5)TiO 3 Thin Films Deposited onto MOCVD-(Ba 0.5 Sr 0.5)RuO 3 Conductive Interfacial Layers. *Integrated Ferroelectrics*, **2002**, 49, 93-102	0.8	3
80	Study on Proton Radiation Resistance of 410 Martensitic Stainless Steels under 3 MeV Proton Irradiation. *Journal of Magnetics*, **2016**, 21, 183-186	1.9	3
79	Microwave Tunable Properties of Ni-Doped (Ba 0.5 Sr 0.5)TiO 3 Thin Films Grown by Pulsed Laser Deposition. *Integrated Ferroelectrics*, **2003**, 55, 877-885	0.8	3
78	Unprecedented flexibility of in-situ layer-by-layer stacked graphene with ultralow sheet resistance. *Nano Today*, **2021**, 37, 101105	17.9	3
77	Precise Determination of the Temperature Gradients in Laser-irradiated Ultrathin Magnetic Layers for the Analysis of Thermal Spin Current. *Scientific Reports*, **2018**, 8, 11337	4.9	2
76	Efficiency Enhancement of Hole-Conductor Free Perovskite Solar Cells. *Journal of Nanoscience and Nanotechnology*, **2017**, 17, 8067-8074	1.3	2

75	Bismuth-metal nanocrystals self-embedded in high-k Bi-based pyrochlore dielectrics grown at room temperature. *Physica Status Solidi (A) Applications and Materials Science*, **2011**, 208, 932-936	1.6	2
74	Epitaxial SrRuO3 thin films deposited on SrO buffered-Si(001) substrates for ferroelectric Pb(Zr0.2Ti0.8)O3 thin films. *Metals and Materials International*, **2009**, 15, 89-94	2.4	2
73	Effects of SrF2 phase on electrical properties of SrTiO3 thin films deposited by plasma-enhanced metalorganic chemical vapor deposition. *Integrated Ferroelectrics*, **1997**, 14, 105-113	0.8	2
72	Effect of film thickness on the electrical properties of tantalum nitride thin films deposited on SiO2Si substrates for type attenuator applications. *Journal of Vacuum Science & Technology B*, **2006**, 24, 1398		2
71	Thermal Treatment of Ag/Ag-Doped (Ge[sub 45]Te[sub 55])[sub 0.7]N[sub 0.3] Electrolyte Films in Switching Characteristics of Programmable Metallization Cell Memory. *Journal of the Electrochemical Society*, **2007**, 154, H853	3.9	2
70	Characterization of Photoconductive Amorphous Si:H Films for Photoconducting Sensor Applications. *Electrochemical and Solid-State Letters*, **2007**, 10, H284		2
69	Microwave Tunable Properties of Ni-Doped (Ba0.5Sr0.5)TiO3 Thin Films Grown by Pulsed Laser Deposition. *Integrated Ferroelectrics*, **2003**, 55, 877-885	0.8	2
68	Diluted Magnetic Semiconducting Ti[sub 1]Co[sub x]O[sub 2] Thin Films Grown onto SiO[sub 2](200 nm)/Si Substrates by Liquid-Delivery MOCVD. *Journal of the Electrochemical Society*, **2004**, 151, G227	3.9	2
67	Thickness effect of Pb2Ru2O7 conductive interfacial layers on ferroelectric properties of Pt/Pb(Zr0.35Ti0.65)O3/Pt capacitors. *Thin Solid Films*, **2004**, 468, 100-104	2.2	2
66	Thermal properties of poly(vinyl alcohol)/poly(diallyldi-methylammonium chloride) interpenetrating polymer networks. *Journal of Applied Polymer Science*, **2003**, 88, 1346-1349	2.9	2
65	FERROELECTRIC PROPERTIES OF ULTRA-THIN EPITAXIAL Pb(Zr0.2Ti0.8)O3 THIN FILMS GROWN ON SrRuO3/SrTiO3 SUBSTRATES. *Integrated Ferroelectrics*, **2005**, 73, 125-132	0.8	2
64	Characteristics of Pt/YMnO3/Y2O3/Si structure using a Y2O3 buffer layer grown by pulsed laser deposition. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2001**, 19, 239		2
63	Imprint Characteristics Of SrBi 2 Ta 2 O 9 Thin Films Deposited by Liquid-Delivery Metal Organic Chemical Vapor Deposition. *Ferroelectrics*, **2002**, 271, 341-346	0.6	2
62	Structural Stability of (Ba,Sr)RuO 3 Electrodes on Hydrogen Annealing and Effect of interfacial Layers in (Ba,Sr)TiO 3 Thin Films. *Integrated Ferroelectrics*, **2002**, 47, 31-40	0.8	2
61	(Ba,Sr)RuO 3 Bottom Electrode Deposited by Liqud Delivery Metalorganic Chemical Vapor Deposition for (Ba,Sr)TiO 3 High Dielectric. *Ferroelectrics*, **2002**, 271, 111-116	0.6	2
60	Effect of bismuth on the ferroelectric properties of SrBi2Ta2O9 thin films deposited on Pt/SiO2/Si by a modified radio-frequency magnetron sputtering technique. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **1998**, 16, 2505-2509	2.9	2
59	The zirconium doped (Ba0.65Sr0.35)(Ti1Zrx)O3 thin films for gbit-scale dynamic random access memory device applications. *Integrated Ferroelectrics*, **1999**, 24, 65-74	0.8	2
58	Thermoelectric Properties of n-Type Bismuth Telluride (Bi2Te3) Thin Films Prepared by RF Sputtering. *Science of Advanced Materials*, **2016**, 8, 1172-1176	2.3	2

57	Deposition of □SiC by a LPCVD Method and the Effect of the Crystallographic Orientation on Mechanical Properties. *Journal of the Korean Ceramic Society*, **2013**, 50, 43-49	2.2	2
56	Effect of the Thickness and the Annealing Conditions of the Catalytic Ni Films on the Graphene Films Grown by a Rapid-Thermal Pulse CVD. *Korean Journal of Materials Research*, **2011**, 21, 78-82	0.2	2
55	Wrinkle-free graphene electrodes in zinc tin oxide thin-film transistors for large area applications. *Nanotechnology*, **2017**, 28, 075205	3.4	1
54	Er0.4Bi1.6O3 thin films in situ crystallized at low temperature onto the Gd0.1Ce0.9O1.95 bulk electrolytes via Facing-Target Sputtering. *Current Applied Physics*, **2017**, 17, 751-755	2.6	1
53	Thin-film multi-layer capacitors using Bi2Mg2/3Nb4/3O7 (BMNO) pyrochlore thin films via radio-frequency sputtering. *Current Applied Physics*, **2015**, 15, 1384-1388	2.6	1
52	Enhanced Dielectric Permittivity of the Bi2Mg2/3Nb4/3O7-Bi Nano-Composite Amorphous Films Grown at Room Temperature. *Journal of the Electrochemical Society*, **2012**, 159, G62-G66	3.9	1
51	Enhancement of Temperature Sensitivity for Metal□Insulator□Semiconductor Temperature Sensors by Using Bi$_{2}$Mg$_{2/3}$Nb$_{4/3}$O$_{7}$ Film. *Japanese Journal of Applied Physics*, **2012**, 51, 080206	1.4	1
50	Crystallized Indium-Tin Oxide Composites Grown onto Single-Walled Carbon Nanotubes at a Low Temperature by Nanocluster Deposition. *Journal of the Electrochemical Society*, **2012**, 159, K111-K115	3.9	1
49	Enhancement of the Photo-Response Properties of the Flexible CdS Films by an Application of Electrical Field. *Journal of the Electrochemical Society*, **2012**, 159, J205-J208	3.9	1
48	Photo-Response Switching of Flexible CdS Films Using Visible Light and Electric Field. *ECS Journal of Solid State Science and Technology*, **2012**, 1, Q135-Q139	2	1
47	Switching characteristics of copper-doped GexTe1□ solid electrolyte films incorporated by nitrogen for programmable metallization cell memory applications. *Metals and Materials International*, **2008**, 14, 487-491	2.4	1
46	Densification Behavior and Microstructure Evolution of SiCf/SiC Composites Incorporated with In Situ Grown SiC Nanowires. *Solid State Phenomena*, **2007**, 124-126, 711-714	0.4	1
45	Electrical characterizations of smart hydrogel based on alginate/poly (diallyldimethylammonium chloride) in solutions **2003**,		1
44	Effect of Oxygen Flow Rate on Microstructural and Ferromagnetic Properties of Ti[sub 1□]Co[sub x]O[sub 2] Thin Films Grown by Liquid-Delivery MOCVD. *Electrochemical and Solid-State Letters*, **2003**, 6, C120		1
43	NiCr Alloy As Both Absorption Layer and Top Electrode onto Pb(Zr0.3Ti0.7)O3 Thin Films for Infrared Sensors. *Integrated Ferroelectrics*, **2003**, 54, 741-746	0.8	1
42	EFFECT OF NITROGEN INCORPORATION ON ELECTRICAL PROPERTIES OF HIGH-K NANOMIXED HfxAlyOz FILM CAPACITORS GROWN ON RU METAL ELECTRODES BY ATOMIC LAYER DEPOSITION. *Integrated Ferroelectrics*, **2005**, 74, 131-136	0.8	1
41	Effect of Pb2Ru2O7-x (PRO) conductive interfacial layers on ferroelectric properties of Pt/Pb(Zr0.35Ti0.65)O3/Pt capacitors for nonvolatile memory applications. *Applied Physics A: Materials Science and Processing*, **2005**, 81, 855-859	2.6	1
40	Tunable characteristics of (Ba0.5Sr0.5) TiO3 (BST) capacitors using (Ba0.5Sr0.5) RuO3 (BSR) interfacial layers onto Pt/Ti/SiO2/Si substrates. *Metals and Materials International*, **2001**, 7, 631-635	2.4	1

39	The Role of Bi 2 O 3 Interfacial Layer in Improvement of Ferroelectric Properties of SrBi 2 Ta 2 O 9 Thin Films Deposited by Liquid-Delivery MOCVD. *Integrated Ferroelectrics*, **2002**, 46, 205-214	0.8	1
38	Integration of Pt/Ru electrode structures by metalorganic chemical-vapor deposition on poly-Si/SiO2/Si. *Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena*, **2000**, 18, 262		1
37	Bottom electrode structures of Pt/Ru and Ru deposited on polycrystalline silicon by MOCVD for DRAM capacitor. *Integrated Ferroelectrics*, **2000**, 31, 297-304	0.8	1
36	Effects of bottom electrodes on the leakage properties of sputtered BST thin films. *Integrated Ferroelectrics*, **1998**, 21, 185-195	0.8	1
35	Effect of rf power on the growth and electrical properties of SrBi2Ta2O9 thin films by plasma-enhanced metalorganic chemical vapor deposition. *Integrated Ferroelectrics*, **1999**, 26, 153-161	0.8	1
34	Effect of Deposition Temperature on Microstructure and Hardness of ZrC Coating Layers of TRISO-Coated Particles Fabricated by the FBCVD Method. *Journal of the Korean Ceramic Society*, **2013**, 50, 37-42	2.2	1
33	Thickness Dependence of the Electrical Properties in NiCr Thin Film Resistors Annealed in a Vacuum Ambient for □ type Attenuator Applications. *Journal of the Korean Institute of Electrical and Electronic Material Engineers*, **2006**, 19, 712-716		1
32	Effect of SiC Nanorods on Mechanical and Thermal Properties of SiC Composites Fabricated by Chemical Vapor Infiltration. *Journal of the Korean Ceramic Society*, **2019**, 56, 453-460	2.2	1
31	NiCr Bottom Electrodes for Ta 2 O 5 High Dielectric Thin Films in Metal-Insulator-Metal Capacitors		1
30	Fracture Behaviors and Mechanical Properties of SiCf/SiC Composites Prepared by the Whisker Growing Assisted CVI Process. *Journal of the Korean Ceramic Society*, **2009**, 46, 484-487	2.2	1
29	Effects of Source Gas Flow Paths on the Matrix Infiltration Behaviors and Mechanical Properties of Cvi-Processed SiCf/SiC Composite Tubes. *Ceramic Transactions*, **2017**, 109-115	0.1	0
28	Diffusion-enhanced preferential growth of m-oriented GaN micro-domains on directly grown graphene with a large domain size on Ti/SiO2/Si(001). *Materials Today Communications*, **2022**, 30, 103113	3.5	0
27	Transfer-Free, Large-Scale, High-Quality Monolayer Graphene Grown Directly onto the Ti (10 nm)-buffered Substrates at Low Temperatures. *Korean Journal of Materials Research*, **2020**, 30, 142-148	0.2	0
26	Water-Resistant and Antibacterial Zinc Aluminate Films: Application of Antibacterial Thin Film Capacitors. *ACS Applied Electronic Materials*, **2021**, 3, 1429-1436	4	0
25	High-Performance Flexible Ultraviolet Photodetectors Based on Facilely Synthesized Ecofriendly ZnAl:LDH Nanosheets.. *ACS Applied Materials & Interfaces*, **2021**, 13, 61434-61446	9.5	0
24	Localized Surface Plasmon Resonance Coupling in Self-Assembled Ag Nanoparticles by Using 3-Dimensional FDTD Simulation. *Korean Journal of Materials Research*, **2014**, 24, 417-422	0.2	
23	Optical and Dielectric Properties of Transparent Epitaxial GdVO4/n-GaN/Sapphire Heterostructure. *Japanese Journal of Applied Physics*, **2010**, 49, 041101	1.4	
22	Ti0.94Fe0.06O2□i0.94Mn0.06O2 superlattice films deposited on atomic-scale flattened sapphire substrates for dilute magnetic semiconductor applications. *Journal of Vacuum Science & Technology B*, **2009**, 27, 81		

21	Electrical Property and Long-Term Stability of Transparent Capacitors Using Multi-Layer Transparent Conducting Oxide Electrodes. *Japanese Journal of Applied Physics*, **2011**, 50, 035807	1.4
20	Heteroepitaxial Growth and Ferroelectric Properties of PbZr0.52Ti0.48O3/SrRuO3 Structure on TiO2-Terminated SrTiO3 (100) by Pulsed Laser Deposition. *Integrated Ferroelectrics*, **2004**, 64, 183-189	0.8
19	Growth and Ferroelectric Characterization of Cerium-Modified Bismuth Titanate Thin Film Deposited on GaN Substrate by Pulsed Laser Deposition. *Integrated Ferroelectrics*, **2004**, 66, 253-260	0.8
18	Thermal properties of poly(vinyl alcohol)/poly(diallyldimethylammonium chloride) interpenetrating polymer networks. *Journal of Applied Polymer Science*, **2003**, 88, 2719-2719	2.9
17	Polyacrylic acid/poly(vinyl sulfonic acid, sodium salt) copolymer hydrogel actuator under an electric field **2004**, 5385, 475	
16	Synthesis and characteristics of semi-interpenetrating polymer network hydrogels of chitosan and polyaniline **2004**, 5385, 490	
15	High-k Nanomixed Hf[sub x]Al[sub y]O[sub z] Film Capacitors Grown on Ru Metal Electrodes by Atomic Layer Deposition. *Electrochemical and Solid-State Letters*, **2005**, 8, F40	
14	Effects of bi2o3 buffer layer on ferroelectric properties of srbi2ta2o9 thin films by liquid-delivery mocvd. *Integrated Ferroelectrics*, **2001**, 36, 295-304	0.8
13	Structural stability of metalorganic chemical vapor deposited (Ba,Sr)RuO3 electrodes for integration of high dielectric memory devices. *Integrated Ferroelectrics*, **2001**, 37, 11-20	0.8
12	Characterization of the CeO2 thin films for insulation layer and Pt/SrBi2Ta2O9/CeO2/Si MFISFET structure. *Integrated Ferroelectrics*, **2001**, 40, 191-199	0.8
11	Characterization of (Ba0.5Sr0.5)TiO3 thin films deposited onto metalorganic chemical vapor deposited (Ba,Sr)RuO3 (BSR) seed layers for voltage tunable devices. *Integrated Ferroelectrics*, **2001** , 39, 281-289	0.8
10	Electrical Properties of Srta2O6 Thin Films Deposited by Plasma Enhanced Atomic Layer Deposition (Peald). *Materials Research Society Symposia Proceedings*, **2001**, 685, 1	
9	Electrical properties of Pb1-xLax(ZryTi1-y)1-x/4O3 thin films with various iridium-based top electrodes. *Integrated Ferroelectrics*, **2001**, 33, 155-164	0.8
8	Thermal Stability and Electrical Properties of HfOxNyGate Dielectrics with TaN Gate Electrode. *Transactions on Electrical and Electronic Materials*, **2003**, 4, 34-37	1.7
7	Characterization of ZTO Thin Films Transistor Deposited by On-axis Sputtering and Facing Target Sputtering(FTS). *Korean Journal of Materials Research*, **2016**, 26, 676-680	0.2
6	Characterization of the Crystallized ITO Thin Films Grown at a Low Temperature by Off-axis RF Magnetron Sputtering. *Journal of the Korean Institute of Electrical and Electronic Material Engineers*, **2011**, 24, 126-130	
5	Electrical Property and Long-Term Stability of Transparent Capacitors Using Multi-Layer Transparent Conducting Oxide Electrodes. *Japanese Journal of Applied Physics*, **2011**, 50, 035807	1.4
4	Enhancement of Temperature Sensitivity for Metal□nsulator□emiconductor Temperature Sensors by Using Bi2Mg2/3Nb4/3O7Film. *Japanese Journal of Applied Physics*, **2012**, 51, 080206	1.4

3 Effect of Ti Adhesion Layer on the Electrical Properties of BMNO Capacitor Using Graphene Bottom Electrodes. *Journal of the Korean Institute of Electrical and Electronic Material Engineers*, **2013**, 26, 867-871

2 TCO-free perovskite solar cells in taking advantage of SWCNT/TiO2 core/shell sponge. *Journal of Science: Advanced Materials and Devices*, **2022**, 7, 100440 4.2

1 Organic/Inorganic Halide Perovskites for Mechanical Energy Harvesting Applications