

Ji-Yan Dai

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328
papers

9,343
citations

46
h-index

84
g-index

349
ext. papers

10,404
ext. citations

5
avg, IF

5.88
L-index

#	Paper	IF	Citations
328	A nanotube-based field-emission flat panel display. <i>Applied Physics Letters</i> , 1998 , 72, 2912-2913	3.4	571
327	Ultraviolet lasing in resonators formed by scattering in semiconductor polycrystalline films. <i>Applied Physics Letters</i> , 1998 , 73, 3656-3658	3.4	421
326	Association between alcohol and cardiovascular disease: Mendelian randomisation analysis based on individual participant data. <i>BMJ, The</i> , 2014 , 349, g4164	5.9	406
325	Field emission from nanotube bundle emitters at low fields. <i>Applied Physics Letters</i> , 1997 , 70, 3308-3310	3.4	360
324	Broad temperature plateau for high ZTs in heavily doped p-type SnSe single crystals. <i>Energy and Environmental Science</i> , 2016 , 9, 454-460	35.4	331
323	Enhancement of thermal stability of NiSi films on (100)Si and (111)Si by Pt addition. <i>Applied Physics Letters</i> , 1999 , 75, 1736-1738	3.4	231
322	Field-effect transistors based on amorphous black phosphorus ultrathin films by pulsed laser deposition. <i>Advanced Materials</i> , 2015 , 27, 3748-54	24	222
321	High-sensitivity fiber-tip pressure sensor with graphene diaphragm. <i>Optics Letters</i> , 2012 , 37, 2493-5	3	195
320	Second harmonic generation in laser ablated zinc oxide thin films. <i>Applied Physics Letters</i> , 1998 , 73, 572-574	3.4	163
319	Hierarchical porous plasmonic metamaterials for reproducible ultrasensitive surface-enhanced Raman spectroscopy. <i>Advanced Materials</i> , 2015 , 27, 1090-6	24	162
318	Determination of the optical constants of zinc oxide thin films by spectroscopic ellipsometry. <i>Applied Physics Letters</i> , 1998 , 72, 3261-3263	3.4	155
317	Synthesis and piezoresponse of highly ordered Pb(Zr _{0.53} Ti _{0.47})O ₃ nanowire arrays. <i>Applied Physics Letters</i> , 2004 , 85, 4190-4192	3.4	138
316	Porous platinum nanowire arrays for direct ethanol fuel cell applications. <i>Chemical Communications</i> , 2009 , 195-7	5.8	127
315	Piezo-phototronic effect-induced dual-mode light and ultrasound emissions from ZnS:Mn/PMN-PT thin-film structures. <i>Advanced Materials</i> , 2012 , 24, 1729-35	24	125
314	A method for synthesizing large quantities of carbon nanotubes and encapsulated copper nanowires. <i>Applied Physics Letters</i> , 1996 , 69, 345-347	3.4	116
313	Giant tunnelling electroresistance in metal/ferroelectric/semiconductor tunnel junctions by engineering the Schottky barrier. <i>Nature Communications</i> , 2017 , 8, 15217	17.4	115
312	Plasmonic enhancement and polarization dependence of nonlinear upconversion emissions from single gold nanorod@SiO ₂ @CaF ₂ :Yb,Er hybrid core-shell-satellite nanostructures. <i>Light: Science and Applications</i> , 2017 , 6, e16217	16.7	110

311	Synthesis and ferroelectric properties of multiferroic BiFeO ₃ nanotube arrays. <i>Applied Physics Letters</i> , 2005 , 87, 143102	3.4	102
310	Charge transport, optical transparency, microstructure, and processing relationships in transparent conductive indium-zinc oxide films grown by low-pressure metal-organic chemical vapor deposition. <i>Applied Physics Letters</i> , 1998 , 73, 327-329	3.4	101
309	How Graphene Islands Are Unidirectionally Aligned on the Ge(110) Surface. <i>Nano Letters</i> , 2016 , 16, 3160-3165	5.5	78
308	A self-powered organolead halide perovskite single crystal photodetector driven by a DVD-based triboelectric nanogenerator. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 630-636	7.1	75
307	Hydrothermal synthesis of oriented ZnO nanobelts and their temperature dependent photoluminescence. <i>Chemical Physics Letters</i> , 2004 , 393, 17-21	2.5	75
306	Bifunctional Au@Pt core-shell nanostructures for in situ monitoring of catalytic reactions by surface-enhanced Raman scattering spectroscopy. <i>Nanoscale</i> , 2014 , 6, 9063-70	7.7	74
305	The effect of magnetic nanoparticles on the morphology, ferroelectric, and magnetoelectric behaviors of CFO/P(VDF-TrFE) 0B nanocomposites. <i>Journal of Applied Physics</i> , 2009 , 105, 054102	2.5	66
304	Interfacial reactions on annealing Cu/Al multilayer thin films. <i>Journal of Applied Physics</i> , 1993 , 74, 6165-6169	6.9	66
303	Polytypoid structures in annealed In ₂ O ₃ /ZnO films. <i>Applied Physics Letters</i> , 1998 , 73, 2585-2587	3.4	64
302	Lead-free piezoelectric single crystal based 1B composites for ultrasonic transducer applications. <i>Sensors and Actuators A: Physical</i> , 2012 , 182, 95-100	3.9	62
301	Memory effect and retention property of Ge nanocrystal embedded Hf-aluminate high-k gate dielectric. <i>Nanotechnology</i> , 2006 , 17, 1202-1206	3.4	60
300	High thermoelectric performance of superionic argyrodite compound Ag ₈ SnSe ₆ . <i>Journal of Materials Chemistry C</i> , 2016 , 4, 5806-5813	7.1	60
299	Current rectifying and resistive switching in high density BiFeO ₃ nanocapacitor arrays on Nb-SrTiO ₃ substrates. <i>Scientific Reports</i> , 2015 , 5, 9680	4.9	59
298	Highly sensitive gas sensor by the LaAlO ₃ /SrTiO ₃ heterostructure with Pd nanoparticle surface modulation. <i>Advanced Materials</i> , 2014 , 26, 5962-8	24	58
297	Vacuum electron field emission from SnO ₂ nanowhiskers synthesized by thermal evaporation. <i>Nanotechnology</i> , 2004 , 15, 1424-1427	3.4	57
296	Interband Absorption Enhanced Optical Activity in Discrete Au@Ag Core-Shell Nanocuboids: Probing Extended Helical Conformation of Chemisorbed Cysteine Molecules. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 1283-1288	16.4	56
295	Piezoresponse and ferroelectric properties of lead-free [Bi _{0.5} (Na _{0.7} K _{0.2} Li _{0.1}) _{0.5}]TiO ₃ thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 2008 , 92, 222909	3.4	56
294	Real-Time Observation of the Electrode-Size-Dependent Evolution Dynamics of the Conducting Filaments in a SiO Layer. <i>ACS Nano</i> , 2017 , 11, 4097-4104	16.7	55

293	High performance relaxor-based ferroelectric single crystals for ultrasonic transducer applications. <i>Sensors</i> , 2014 , 14, 13730-58	3.8	51
292	Coherent island formation of Cu ₂ O films grown by chemical vapor deposition on MgO(110). <i>Journal of Materials Research</i> , 2001 , 16, 2408-2414	2.5	50
291	Synthesis of carbon-encapsulated nanowires using polycyclic aromatic hydrocarbon precursors. <i>Chemical Physics Letters</i> , 1996 , 258, 547-553	2.5	50
290	Panchromatic thin perovskite solar cells with broadband plasmonic absorption enhancement and efficient light scattering management by Au@Ag core-shell nanocuboids. <i>Nano Energy</i> , 2017 , 41, 654-664 ^{17.1}	17.1	49
289	Palladium nanoparticle enhanced giant photoresponse at LaAlO ₃ /SrTiO ₃ two-dimensional electron gas heterostructures. <i>ACS Nano</i> , 2013 , 7, 8673-9	16.7	49
288	Interfacial engineering and coupling of electric and magnetic properties in Pb(Zr _{0.53} Ti _{0.47})O ₃ /CoFe ₂ O ₄ multiferroic epitaxial multilayers. <i>Journal of Applied Physics</i> , 2010 , 107, 104105	2.5	49
287	ITO/Au/ITO sandwich structure for near-infrared plasmonics. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 15743-52	9.5	48
286	Nanoscale ferroelectric tunnel junctions based on ultrathin BaTiO ₃ film and Ag nanoelectrodes. <i>Applied Physics Letters</i> , 2012 , 101, 142905	3.4	48
285	Growth and characterization of Hf δ aluminate high-k gate dielectric ultrathin films with equivalent oxide thickness less than 10 Å. <i>Journal of Applied Physics</i> , 2003 , 93, 3665-3667	2.5	48
284	In situ SERS monitoring of photocatalytic organic decomposition using recyclable TiO ₂ -coated Ag nanowire arrays. <i>Applied Surface Science</i> , 2014 , 301, 351-357	6.7	47
283	Temperature-dependent and polarization-tuned resistive switching in Au/BiFeO ₃ /SrRuO ₃ junctions. <i>Applied Physics Letters</i> , 2014 , 104, 143503	3.4	46
282	Preparation of epitaxial hexagonal YMnO ₃ thin films and observation of ferroelectric vortex domains. <i>Npj Quantum Materials</i> , 2016 , 1,	5	45
281	Epitaxial growth of yttrium-stabilized HfO ₂ high-k gate dielectric thin films on Si. <i>Journal of Applied Physics</i> , 2003 , 94, 912-915	2.5	45
280	In-situ synthesized TiB ₂ toughened SiC. <i>Journal of the European Ceramic Society</i> , 1996 , 16, 409-412	6	45
279	Ferroelectric-Driven Performance Enhancement of Graphene Field-Effect Transistors Based on Vertical Tunneling Heterostructures. <i>Advanced Materials</i> , 2016 , 28, 10048-10054	24	45
278	Memory effects of carbon nanotubes as charge storage nodes for floating gate memory applications. <i>Applied Physics Letters</i> , 2006 , 88, 113104	3.4	44
277	Effect of a microstructure on the formation of self-assembled laser cavities in polycrystalline ZnO. <i>Journal of Applied Physics</i> , 2001 , 90, 1663-1665	2.5	43
276	Dopant Induced Impurity Bands and Carrier Concentration Control for Thermoelectric Enhancement in p-Type Cr ₂ Ge ₂ Te ₆ . <i>Chemistry of Materials</i> , 2017 , 29, 7401-7407	9.6	41

275	Modulating the Electrical Transport in the Two-Dimensional Electron Gas at LaAlO ₃ /SrTiO ₃ Heterostructures by Interfacial Flexoelectricity. <i>Physical Review Letters</i> , 2019 , 122, 257601	7.4	40
274	Synthesis and memory effect study of Ge nanocrystals embedded in LaAlO ₃ high-k dielectrics. <i>Applied Physics Letters</i> , 2005 , 86, 203111	3.4	40
273	Tuning the Morphology and Chiroptical Properties of Discrete Gold Nanorods with Amino Acids. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 16452-16457	16.4	39
272	Enhanced resistive switching effect in Ag nanoparticle embedded BaTiO ₃ thin films. <i>Journal of Applied Physics</i> , 2013 , 114, 027019	2.5	38
271	Defect states and charge trapping characteristics of HfO ₂ films for high performance nonvolatile memory applications. <i>Applied Physics Letters</i> , 2014 , 105, 172902	3.4	38
270	Fabrication and performance of endoscopic ultrasound radial arrays based on PMN-PT single crystal/epoxy 1-3 composite. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2011 , 58, 477-84	3.2	38
269	Comparison of interfacial and electrical characteristics of HfO ₂ and HfAlO high-k dielectrics on compressively strained Si _{1-x} Ge _x . <i>Applied Physics Letters</i> , 2006 , 88, 182905	3.4	38
268	On the Ni ₃ Si phase transformation with/without native oxide. <i>Microelectronic Engineering</i> , 2000 , 51-52, 583-594	2.5	38
267	Twin Engineering in Solution-Synthesized Nonstoichiometric Cu ₅ FeS ₄ Icosahedral Nanoparticles for Enhanced Thermoelectric Performance. <i>Advanced Functional Materials</i> , 2018 , 28, 1705117	15.6	37
266	Ultra rapid fabrication of p-type Li-doped Mg ₂ Si _{0.4} Sn _{0.6} synthesized by unique melt spinning method. <i>Scripta Materialia</i> , 2016 , 115, 52-56	5.6	37
265	Self-organized Ge nanocrystals embedded in HfAlO fabricated by pulsed-laser deposition and application to floating gate memory. <i>Applied Physics Letters</i> , 2005 , 86, 013110	3.4	37
264	A high performance triboelectric nanogenerator for self-powered non-volatile ferroelectric transistor memory. <i>Nanoscale</i> , 2015 , 7, 17306-11	7.7	36
263	Quantitative SERS detection of low-concentration aromatic polychlorinated biphenyl-77 and 2,4,6-trinitrotoluene. <i>Journal of Hazardous Materials</i> , 2014 , 280, 706-12	12.8	36
262	Substrate orientation-induced epitaxial growth of face centered cubic Mo ₂ C superconductive thin film. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10822-10827	7.1	35
261	Self-powered flat panel displays enabled by motion-driven alternating current electroluminescence. <i>Nano Energy</i> , 2016 , 20, 48-56	17.1	35
260	PMN-PT single crystal focusing transducer fabricated using a mechanical dimpling technique. <i>Ultrasonics</i> , 2012 , 52, 20-4	3.5	35
259	Polar liquid molecule induced transport property modulation at LaAlO ₃ /SrTiO ₃ heterointerface. <i>Advanced Materials</i> , 2012 , 24, 2598-602	24	35
258	Maximizing surface-enhanced Raman scattering sensitivity of surfactant-free Ag-Fe ₃ O ₄ nanocomposites through optimization of silver nanoparticle density and magnetic self-assembly. <i>Journal of Applied Physics</i> , 2013 , 114, 124305	2.5	34

257	Modulated Excitation Imaging System for Intravascular Ultrasound. <i>IEEE Transactions on Biomedical Engineering</i> , 2017 , 64, 1935-1942	5	34
256	A novel nanostructure and multiferroic properties in Pb(Zr _{0.52} Ti _{0.48})O ₃ /CoFe ₂ O ₄ nanocomposite films grown by pulsed-laser deposition. <i>Journal Physics D: Applied Physics</i> , 2008 , 41, 235405	3	34
255	Magnetoelectric coupling in CoFe ₂ O ₄ /Pb(Zr _{0.52} Ti _{0.48})O ₃ heteroepitaxial thin film structure. <i>Applied Physics Letters</i> , 2008 , 92, 022901	3-4	33
254	Zinc/ZnO core-shell hexagonal nanodisk dendrites and their photoluminescence. <i>Acta Materialia</i> , 2007 , 55, 5039-5044	8-4	33
253	Effect of thermomechanical treatment on the two-way shape memory effect of NiTi alloy spring. <i>Materials Letters</i> , 2002 , 54, 55-61	3-3	33
252	Multiple matching scheme for broadband 0.72Pb(Mg ₁₃ Nb ₂₃)O ₃ -0.28PbTiO ₃ single crystal phased-array transducer. <i>Journal of Applied Physics</i> , 2009 , 105, 94908	2-5	32
251	Study of interfacial reaction and its impact on electric properties of HfAlO ₃ high-k gate dielectric thin films grown on Si. <i>Applied Physics Letters</i> , 2003 , 82, 2419-2421	3-4	32
250	Discovery of log-periodic oscillations in ultraquantum topological materials. <i>Science Advances</i> , 2018 , 4, eaau5096	14-3	32
249	Multiferroism in orientational engineered (La, Mn) co-substituted BiFeO ₃ thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 114105	2-5	31
248	Self-Powered Ultrabroadband Photodetector Monolithically Integrated on a PMN-PT Ferroelectric Single Crystal. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32934-32939	9-5	30
247	Spontaneous recovery of hydrogen-degraded TiO ₂ ceramic capacitors. <i>Applied Physics Letters</i> , 2004 , 84, 103-105	3-4	30
246	Synthesis and characterization of highly ordered BiFeO ₃ multiferroic nanowire arrays. <i>Progress in Solid State Chemistry</i> , 2005 , 33, 147-151	8	29
245	Novel multiferroicity in GdMnO ₃ thin films with self-assembled nano-twinned domains. <i>Scientific Reports</i> , 2014 , 4, 7019	4-9	28
244	In situ and room-temperature synthesis of ultra-long Ag nanoparticles-decorated Ag molybdate nanowires as high-sensitivity SERS substrates. <i>Applied Surface Science</i> , 2013 , 287, 404-410	6-7	28
243	Plasma-enhanced pulsed-laser deposition of single-crystalline Mo ₂ C ultrathin superconducting films. <i>Physical Review Materials</i> , 2017 , 1,	3-2	28
242	A Portable Ultrasound System for Non-Invasive Ultrasonic Neuro-Stimulation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 2509-2515	4-8	27
241	Enhanced Metal-Insulator Transition Performance in Scalable Vanadium Dioxide Thin Films Prepared Using a Moisture-Assisted Chemical Solution Approach. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8341-8348	9-5	27
240	Thermoelectric property studies on Cu _x Bi ₂ Se ₂ with nano-scale precipitates Bi ₂ S ₃ . <i>Nano Energy</i> , 2015 , 12, 447-456	17-1	27

239	Ferroelectric, piezoelectric, and leakage current properties of (K _{0.48} Na _{0.48} Li _{0.04})(Nb _{0.775} Ta _{0.225})O ₃ thin films grown by pulsed laser deposition. <i>Applied Physics Letters</i> , 2011 , 98, 022902	3.4	27
238	Formation of filled carbon nanotubes and nanoparticles using polycyclic aromatic hydrocarbon molecules. <i>Carbon</i> , 1998 , 36, 721-723	10.4	27
237	Enhanced thermoelectric properties of SnSe thin films grown by pulsed laser glancing-angle deposition. <i>Journal of Materiomics</i> , 2017 , 3, 293-298	6.7	26
236	Magnetotransport Properties of Layered Topological Material ZrTe Thin Film. <i>ACS Nano</i> , 2019 , 13, 6008-6016	6.16	26
235	Enhancement of photovoltaic properties with Nb modified (Bi, Na) TiO ₃ BaTiO ₃ ferroelectric ceramics. <i>Journal of Alloys and Compounds</i> , 2014 , 587, 339-343	5.7	26
234	Effects of AlO _x -cap layer on the luminescence and photoconductivity of ZnO thin films. <i>Applied Physics Letters</i> , 2005 , 86, 152116	3.4	26
233	Formation of cobalt silicide spikes in 0.18 μ m complementary metal oxide semiconductor process. <i>Applied Physics Letters</i> , 2001 , 78, 3091-3093	3.4	26
232	New fabrication of high-frequency (100-MHz) ultrasound PZT film kerfless linear array. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2013 , 60, 854-7	3.2	25
231	Relaxor ferroelectric characteristics and temperature-dependent domain structure in a (110)-cut (PbMg _{1B} Nb _{2B} O ₃) _{0.75} (PbTiO ₃) _{0.25} single crystal. <i>Physical Review B</i> , 2005 , 72,	3.3	25
230	Large-scale colloidal synthesis of Cu ₅ FeS ₄ compounds and their application in thermoelectrics. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 301-308	7.1	24
229	Understanding and manipulating luminescence in carbon nanodots. <i>Carbon</i> , 2018 , 126, 58-64	10.4	24
228	Development of a 20-MHz wide-bandwidth PMN-PT single crystal phased-array ultrasound transducer. <i>Ultrasonics</i> , 2017 , 73, 181-186	3.5	24
227	Broad-band and high-temperature ultrasonic transducer fabricated using a Pb(In _{1B} Nb _{1B})-Pb(Mg _{1B} Nb _{2B})-PbTiO ₃ single crystal/epoxy 1-3 composite. <i>Review of Scientific Instruments</i> , 2011 , 82, 055110	1.7	24
226	The effect of arc parameters on the growth of carbon nanotubes. <i>Journal of Materials Research</i> , 1997 , 12, 1536-1544	2.5	24
225	Effect of thermomechanical training temperature on the two-way shape memory effect of TiNi and TiNiCu shape memory alloys springs. <i>Materials Letters</i> , 2003 , 57, 1501-1507	3.3	24
224	Compression behavior and interfaces of NiAl-TiB ₂ in situ composites. <i>Scripta Metallurgica Et Materialia</i> , 1994 , 31, 1141-1144		24
223	Large electroresistance and tunable photovoltaic properties of ferroelectric nanoscale capacitors based on ultrathin super-tetragonal BiFeO ₃ films. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 3323-3329	7.1	23
222	Observation of Exotic Domain Structures in Ferroelectric Nanodot Arrays Fabricated via a Universal Nanopatterning Approach. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 37219-37226	9.5	23

221	Enhanced surface-and-interface coupling in Pd-nanoparticle-coated LaAlO ₃ /SrTiO ₃ heterostructures: strong gas- and photo-induced conductance modulation. <i>Scientific Reports</i> , 2015 , 5, 8531	4.9	23
220	Melt spinning synthesis of p-type skutterudites: Drastically speed up the process of high performance thermoelectrics. <i>Scripta Materialia</i> , 2016 , 116, 26-30	5.6	23
219	Electronic structures of polycrystalline ZnO thin films probed by electron energy loss spectroscopy. <i>Applied Physics Letters</i> , 2000 , 77, 1484-1486	3.4	23
218	Room temperature magnetic exchange coupling in multiferroic BaTiO ₃ /CoFe ₂ O ₄ magnetoelectric superlattice. <i>Journal of Materials Science</i> , 2009 , 44, 5143-5148	4.3	22
217	Epitaxial growth of SrTiO ₃ thin film on Si by laser molecular beam epitaxy. <i>Applied Physics Letters</i> , 2007 , 90, 012902	3.4	22
216	Structural and resistance switching properties of ZnO/SrTiO ₃ /GaAs heterostructure grown by laser molecular beam epitaxy. <i>Applied Physics Letters</i> , 2010 , 97, 162905	3.4	21
215	Orientation controllable deposition of LiNbO ₃ films on sapphire and diamond substrates for surface acoustic wave device application. <i>Journal of Crystal Growth</i> , 2004 , 268, 144-148	1.6	21
214	A promising pathway to make multiwalled carbon nanotubes. <i>Applied Physics Letters</i> , 2000 , 76, 3008-3010	3.4	21
213	Interband Absorption Enhanced Optical Activity in Discrete Au@Ag CoreShell Nanocuboids: Probing Extended Helical Conformation of Chemisorbed Cysteine Molecules. <i>Angewandte Chemie</i> , 2017 , 129, 1303-1308	3.6	20
212	Low-field Switching Four-state Nonvolatile Memory Based on Multiferroic Tunnel Junctions. <i>Scientific Reports</i> , 2015 , 5, 12826	4.9	20
211	High-frequency ultrasonic transducer fabricated with lead-free piezoelectric single crystal. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 2010 , 57, 2601-4	3.2	20
210	Tunable electronic transport properties of DyScO ₃ /SrTiO ₃ polar heterointerface. <i>Applied Physics Letters</i> , 2011 , 98, 122108	3.4	20
209	Phase and Layer Stability of Ni- and Ni(Pt)-Silicides on Narrow Poly-Si Lines. <i>Journal of the Electrochemical Society</i> , 2002 , 149, G331	3.9	20
208	Ultra-low coercive field of improper ferroelectric Ca ₃ Ti ₂ O ₇ epitaxial thin films. <i>Applied Physics Letters</i> , 2017 , 110, 042901	3.4	19
207	Enhanced magnetoelectric effect in a stress-biased lead magnesium niobate-lead titanate single crystal/Terfenol-D alloy magnetoelectric sensor. <i>Journal of Applied Physics</i> , 2011 , 109, 024505	2.5	19
206	Ordered hierarchical porous platinum membranes with tailored mesostructures. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 10101-5	16.4	19
205	Structural and dielectric properties of LuFe ₂ O ₄ thin films grown by pulsed-laser deposition. <i>Thin Solid Films</i> , 2010 , 518, 6909-6914	2.2	19
204	Study of tunneling mechanism of Au nanocrystals in HfAlO matrix as floating gate memory. <i>Applied Physics Letters</i> , 2008 , 92, 223105	3.4	19

203	Synthesis and characterization of single crystalline selenium nanowire arrays. <i>Materials Research Bulletin</i> , 2006 , 41, 1729-1734	5.1	19
202	Effects of Al addition on the native defects in hafnia. <i>Applied Physics Letters</i> , 2006 , 88, 182903	3.4	19
201	Epitaxial multilayered Co/Cu ferromagnetic nanocolumns grown by oblique angle deposition. <i>Nanotechnology</i> , 2007 , 18, 295702	3.4	19
200	Enhanced stability of Ni monosilicide on MOSFETs poly-Si gate stack. <i>Microelectronic Engineering</i> , 2002 , 60, 171-181	2.5	19
199	High frequency PMN-PT single crystal focusing transducer fabricated by a mechanical dimpling technique. <i>Ultrasonics</i> , 2013 , 53, 345-9	3.5	18
198	Two-way shape memory effect of TiNi alloy coil extension springs. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2003 , 360, 126-131	5.3	18
197	Investigation of Ge nanocrystals in a metal-insulator-semiconductor structure with a HfO ₂ /BiO ₂ stack as the tunnel dielectric. <i>Applied Physics Letters</i> , 2005 , 86, 113105	3.4	18
196	Anodic aluminum oxide-epoxy composite acoustic matching layers for ultrasonic transducer application. <i>Ultrasonics</i> , 2016 , 70, 29-33	3.5	18
195	Clam-inspired nanoparticle immobilization method using adhesive tape as microchip substrate. <i>Sensors and Actuators B: Chemical</i> , 2016 , 222, 106-111	8.5	17
194	Structural and Electrical Properties of Mn-doped Na _{0.5} Bi _{0.5} TiO ₃ Lead-Free Single Crystal. <i>Integrated Ferroelectrics</i> , 2013 , 141, 120-127	0.8	17
193	Endoscopic ultrasound radial array transducers fabricated with PZT tube by a rotate-and-dice method. <i>Sensors and Actuators A: Physical</i> , 2013 , 201, 357-362	3.9	17
192	Dynamic strain-induced giant electroresistance and erasing effect in ultrathin ferroelectric tunnel-junction memory. <i>Physical Review B</i> , 2017 , 95,	3.3	17
191	Two-step interfacial reaction of HfO ₂ high-k gate dielectric thin films on Si. <i>Ceramics International</i> , 2004 , 30, 1267-1270	5.1	17
190	Geometric modulation of induced plasmonic circular dichroism in nanoparticle assemblies based on backaction and field enhancement. <i>Nanoscale</i> , 2018 , 10, 19684-19691	7.7	17
189	High-frequency PIN ₁ MN ₂ BT single crystal ultrasonic transducer for imaging applications. <i>Applied Physics A: Materials Science and Processing</i> , 2012 , 108, 987-991	2.6	16
188	Electronic, magnetic and dielectric properties of multiferroic MnTiO ₃ . <i>Journal of Materials Research</i> , 2012 , 27, 1421-1429	2.5	16
187	Time- and temperature-dependent domain evolutions in poled (111)-cut (Pb(Mg _{1/3} Nb _{2/3})O ₃) _{0.7} (PbTiO ₃) _{0.3} single crystal. <i>Applied Physics Letters</i> , 2007 , 90, 162907	3.4	16
186	Formation and Stability of Ni(PT) Silicide on (100)Si and (111)Si. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 564, 163		16

- 185 In situ TEM study of the sodiation/desodiation mechanism of MnO₂ nanowire with gel-electrolytes. *Energy Storage Materials*, **2018**, 15, 91-97 19.4 15
- 184 High dielectric tunability of ferroelectric (Ba_{1-x}Sr_x)(Zr_{0.1}Ti_{0.9})O₃ ceramics. *Journal of Materials Science: Materials in Electronics*, **2014**, 25, 2589-2594 2.1 15
- 183 Infrared light gated MoS₂ field effect transistor. *Optics Express*, **2015**, 23, 31908-14 3.3 15
- 182 An open system for intravascular ultrasound imaging. *IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control*, **2012**, 59, 2201-9 3.2 15
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