

Shi-Jin Ding

List of Publications by Year in descending order

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103
papers

2,663
citations

172443

29
h-index

233409

45
g-index

103
all docs

103
docs citations

103
times ranked

3062
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Ultra-low power Hf _{0.5} Zr _{0.5} O ₂ based ferroelectric tunnel junction synapses for hardware neural network applications. <i>Nanoscale</i> , 2018, 10, 15826-15833. | 5.6 | 165 |
| 2 | Three-Dimensional Nanoscale Flexible Memristor Networks with Ultralow Power for Information Transmission and Processing Application. <i>Nano Letters</i> , 2020, 20, 4111-4120. | 9.1 | 134 |
| 3 | Ultralow Power Wearable Heterosynapse with Photoelectric Synergistic Modulation. <i>Advanced Science</i> , 2020, 7, 1903480. | 11.2 | 95 |
| 4 | The mechanism of the asymmetric SET and RESET speed of graphene oxide based flexible resistive switching memories. <i>Applied Physics Letters</i> , 2012, 100, . | 3.3 | 91 |
| 5 | Improvement of Voltage Linearity in High- κ /MIM Capacitors Using $\text{HfO}_2/\text{SiO}_2$ Stacked Dielectric. <i>IEEE Electron Device Letters</i> , 2004, 25, 538-540. | 3.9 | 84 |
| 6 | Recent Advances in In^{2+} -Ga ₂ O ₃ Metal Contacts. <i>Nanoscale Research Letters</i> , 2018, 13, 246. | 5.7 | 76 |
| 7 | Flexible boron nitride-based memristor for <i>in situ</i> digital and analogue neuromorphic computing applications. <i>Materials Horizons</i> , 2021, 8, 538-546. | 12.2 | 73 |
| 8 | Flexible Electronic Synapses for Face Recognition Application with Multimodulated Conductance States. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 37345-37352. | 8.0 | 72 |
| 9 | RF, DC, and reliability characteristics of ALD HfO ₂ /Al ₂ O ₃ laminate MIM capacitors for Si RF IC applications. <i>IEEE Transactions on Electron Devices</i> , 2004, 51, 886-894. | 3.0 | 69 |
| 10 | Atomic-Layer-Deposition of Indium Oxide Nano-films for Thin-Film Transistors. <i>Nanoscale Research Letters</i> , 2018, 13, 4. | 5.7 | 62 |
| 11 | High-performance MIM capacitor using ALD high- κ HfO ₂ -Al ₂ O ₃ laminate dielectrics. <i>IEEE Electron Device Letters</i> , 2003, 24, 730-732. | 3.9 | 55 |
| 12 | Performance Improvement of Atomic Layer-Deposited ZnO/Al ₂ O ₃ Thin-Film Transistors by Low-Temperature Annealing in Air. <i>IEEE Transactions on Electron Devices</i> , 2016, 63, 1893-1898. | 3.0 | 53 |
| 13 | Spectroscopic ellipsometry study of thin NiO films grown on Si (100) by atomic layer deposition. <i>Applied Physics Letters</i> , 2008, 92, . | 3.3 | 52 |
| 14 | Flexible 3D memristor array for binary storage and multi-states neuromorphic computing applications. <i>Information Materials</i> , 2021, 3, 212-221. | 17.3 | 52 |
| 15 | Forming-free flexible memristor with multilevel storage for neuromorphic computing by full PVD technique. <i>Journal of Materials Science and Technology</i> , 2021, 60, 21-26. | 10.7 | 43 |
| 16 | Atomic layer deposition of high-density Pt nanodots on Al ₂ O ₃ film using (MeCp)Pt(Me) ₃ and O ₂ precursors for nonvolatile memory applications. <i>Nanoscale Research Letters</i> , 2013, 8, 80. | 5.7 | 42 |
| 17 | Energy-efficient flexible photoelectric device with 2D/0D hybrid structure for bio-inspired artificial heterosynapse application. <i>Nano Energy</i> , 2021, 83, 105815. | 16.0 | 42 |
| 18 | Fully transparent, flexible and waterproof synapses with pattern recognition in organic environments. <i>Nanoscale Horizons</i> , 2019, 4, 1293-1301. | 8.0 | 40 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Atomic-layer-deposited Al ₂ O ₃ /HfO ₂ /Al ₂ O ₃ dielectrics for metal-insulator-metal capacitor applications. Applied Physics Letters, 2005, 87, 053501. | 3.3 | 39 |
| 20 | Atomic Layer Deposited Hf _{0.5} Zr _{0.5} O ₂ -based Flexible Memristor with Short/Long-Term Synaptic Plasticity. Nanoscale Research Letters, 2019, 14, 102. | 5.7 | 38 |
| 21 | Multistacked Al ₂ O ₃ /HfO ₂ /SiO ₂ tunnel layer for high-density nonvolatile memory application. Applied Physics Letters, 2007, 91, 022908. | 3.3 | 36 |
| 22 | Unique UV-Erasable In-Ga-Zn-O TFT Memory With Self-Assembled Pt Nanocrystals. IEEE Electron Device Letters, 2013, 34, 1011-1013. | 3.9 | 35 |
| 23 | Novel Zn-Doped Al ₂ O ₃ Charge Storage Medium for Light-Erasable InGaZnO TFT Memory. IEEE Electron Device Letters, 2013, 34, 1008-1010. | 3.9 | 34 |
| 24 | Evidence and Understanding of ALD HfO ₂ /Al ₂ O ₃ Laminated MIM Capacitors Outperforming Sandwich Counterparts. IEEE Electron Device Letters, 2004, 25, 681-683. | 3.9 | 33 |
| 25 | Investigation of the optical and electrical properties of ZnO/Cu/ZnO multilayers grown by atomic layer deposition. Journal of Alloys and Compounds, 2018, 744, 381-385. | 5.5 | 33 |
| 26 | Room-temperature developed flexible biomemristor with ultralow switching voltage for array learning. Nanoscale, 2020, 12, 9116-9123. | 5.6 | 33 |
| 27 | Spectrum projection with a bandgap-gradient perovskite cell for colour perception. Light: Science and Applications, 2020, 9, 162. | 16.6 | 32 |
| 28 | Atomic-layer-deposited Al ₂ O ₃ -HfO ₂ laminated and sandwiched dielectrics for metal-insulator-metal capacitors. Journal Physics D: Applied Physics, 2007, 40, 1072-1076. | 2.8 | 30 |
| 29 | High performance few-layer MoS ₂ transistor arrays with wafer level homogeneity integrated by atomic layer deposition. 2D Materials, 2018, 5, 015028. | 4.4 | 30 |
| 30 | High Performance Unannealed a-InGaZnO TFT with an Atomic-Layer-Deposited SiO ₂ Insulator. IEEE Electron Device Letters, 2016, , 1-1. | 3.9 | 28 |
| 31 | Plasma-assisted atomic layer deposition and post-annealing enhancement of low resistivity and oxygen-free nickel nano-films using nickelocene and ammonia precursors. Journal of Materials Chemistry C, 2016, 4, 11059-11066. | 5.5 | 26 |
| 32 | Investigation of atomic-layer-deposited ruthenium nanocrystal growth on SiO ₂ and Al ₂ O ₃ films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 775-780. | 2.1 | 25 |
| 33 | An Organic Flexible Artificial Bio-Synapses with Long-Term Plasticity for Neuromorphic Computing. Micromachines, 2018, 9, 239. | 2.9 | 25 |
| 34 | High-Performance On-Chip Supercapacitors Based on Mesoporous Silicon Coated with Ultrathin Atomic Layer-Deposited In ₂ O ₃ Films. ACS Applied Materials & Interfaces, 2019, 11, 747-752. | 8.0 | 25 |
| 35 | Flexible Femtojoule Energy-Consumption In-Ga-Zn-O Synaptic Transistors With Extensively Tunable Memory Time. IEEE Transactions on Electron Devices, 2020, 67, 105-112. | 3.0 | 25 |
| 36 | Superior Atomic Layer Deposition Technology for Amorphous Oxide Semiconductor Thin-Film Transistor Memory Devices. Chemistry of Materials, 2020, 32, 1343-1357. | 6.7 | 25 |

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|----|---|-----|-----------|
| 37 | Band alignment of In ₂ O ₃ /In ₂ -Ga ₂ O ₃ interface determined by X-ray photoelectron spectroscopy. Applied Physics Letters, 2018, 113, . | 3.3 | 24 |
| 38 | Atomic layer deposition of ZnO on thermal SiO ₂ and Si surfaces using N ₂ -diluted diethylzinc and H ₂ O ₂ precursors. Applied Surface Science, 2012, 258, 4657-4666. | 6.1 | 22 |
| 39 | Full ALD Al ₂ O ₃ /ZrO ₂ /SiO ₂ /ZrO ₂ /Al ₂ O ₃ stacks for High-Performance MIM Capacitors. IEEE Electron Device Letters, 2014, 35, 1121-1123. | 3.9 | 22 |
| 40 | Mobility Enhancement and OFF Current Suppression in Atomic-Layer-Deposited ZnO Thin-Film Transistors by Post Annealing in O ₂ . IEEE Electron Device Letters, 2014, 35, 1266-1268. | 3.9 | 22 |
| 41 | High-Performance a-InGaZnO Thin-Film Transistors with Extremely Low Thermal Budget by Using a Hydrogen-Rich Al ₂ O ₃ Dielectric. Nanoscale Research Letters, 2019, 14, 122. | 5.7 | 22 |
| 42 | Light response behaviors of amorphous InGaZnO thin-film transistors <i>via in situ</i> interfacial hydrogen doping modulation. RSC Advances, 2020, 10, 3572-3578. | 3.6 | 22 |
| 43 | Three-dimensional AlZnO/Al ₂ O ₃ /AlZnO nanocapacitor arrays on Si substrate for energy storage. Nanoscale Research Letters, 2012, 7, 544. | 5.7 | 21 |
| 44 | Voltage linearity modulation and polarity dependent conduction in metal-insulator-metal capacitors with atomic-layer-deposited Al ₂ O ₃ /ZrO ₂ /SiO ₂ nano-stacks. Journal of Applied Physics, 2015, 118, 014501. | 2.5 | 21 |
| 45 | High density and program-erasable metal-insulator-silicon capacitor with a dielectric structure of SiO ₂ •HfO ₂ •Al ₂ O ₃ nanolaminates•Al ₂ O ₃ . Applied Physics Letters, 2006, 88, 042905. | 3.3 | 20 |
| 46 | Electrical characteristics and conduction mechanisms of metal-insulator-metal capacitors with nanolaminated Al ₂ O ₃ •HfO ₂ dielectrics. Applied Physics Letters, 2008, 93, 092909. | 3.3 | 20 |
| 47 | Monochromatic light-assisted erasing effects of In-Ga-Zn-O thin film transistor memory with Al ₂ O ₃ /Zn-doped Al ₂ O ₃ stacks. Applied Physics Letters, 2014, 104, 103504. | 3.3 | 20 |
| 48 | High-performance ultralow dielectric constant carbon-bridged mesoporous organosilica films for advanced interconnects. Journal of Materials Chemistry C, 2014, 2, 6502-6510. | 5.5 | 20 |
| 49 | Inductive crystallization effect of atomic-layer-deposited Hf _{0.5} Zr _{0.5} O ₂ films for ferroelectric application. Nanoscale Research Letters, 2015, 10, 25. | 5.7 | 20 |
| 50 | Operation mode switchable charge-trap memory based on few-layer MoS ₂ . Semiconductor Science and Technology, 2018, 33, 034001. | 2.0 | 20 |
| 51 | 2D negative capacitance field-effect transistor with organic ferroelectrics. Nanotechnology, 2018, 29, 244004. | 2.6 | 19 |
| 52 | Low-Cost and High-Productivity Three-Dimensional Nanocapacitors Based on Stand-Up ZnO Nanowires for Energy Storage. Nanoscale Research Letters, 2016, 11, 213. | 5.7 | 18 |
| 53 | Memory Effect of Metal-Insulator-Silicon Capacitor with HfO ₂ -Al ₂ O ₃ Multilayer and Hafnium Nitride Gate. Journal of Electronic Materials, 2007, 36, 253-257. | 2.2 | 17 |
| 54 | Investigation of Energy Band at Atomic-Layer-Deposited ZnO/In ₂ -Ga ₂ O ₃ (2 Å ⁻¹) Heterojunctions. Nanoscale Research Letters, 2018, 13, 412. | 5.7 | 16 |

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|----|--|------|-----------|
| 55 | Plasma-Enhanced Atomic Layer Deposition of Cobalt Films Using Co(EtCp) ₂ as a Metal Precursor. <i>Nanoscale Research Letters</i> , 2019, 14, 76. | 5.7 | 16 |
| 56 | Novel Multi-Level Cell TFT Memory With an In ⁺ Ga ⁺ Zn-O Charge Storage Layer and Channel. <i>IEEE Electron Device Letters</i> , 2015, 36, 1021-1023. | 3.9 | 15 |
| 57 | Photoelectric Logic and <i>In Situ</i> Memory Transistors with Stepped Floating Gates of Perovskite Quantum Dots. <i>ACS Nano</i> , 2022, 16, 2442-2451. | 14.6 | 15 |
| 58 | Erasing-Modes Dependent Performance of a-IGZO TFT Memory With Atomic-Layer-Deposited Ni Nanocrystal Charge Storage Layer. <i>IEEE Transactions on Electron Devices</i> , 2017, 64, 3023-3027. | 3.0 | 14 |
| 59 | Dielectric Enhancement of Atomic Layer-Deposited Al ₂ O ₃ /ZrO ₂ /Al ₂ O ₃ MIM Capacitors by Microwave Annealing. <i>Nanoscale Research Letters</i> , 2019, 14, 53. | 5.7 | 14 |
| 60 | Thermal stability of atomic-layer-deposited ultra-thin niobium oxide film on Si (1 0 0). <i>Applied Surface Science</i> , 2011, 257, 7305-7309. | 6.1 | 13 |
| 61 | Mobility and Stability Enhancement of Amorphous In-Ga-Zn-O TFTs With Atomic Layer Deposited Al ₂ O ₃ /SiO ₂ Stacked Insulators. <i>IEEE Journal of the Electron Devices Society</i> , 2016, 4, 347-352. | 2.1 | 13 |
| 62 | Effect of Pulse-Plated Nickel Barriers on Tin Whisker Growth for Pure Tin Solder Joints. <i>Journal of Electronic Materials</i> , 2008, 37, 894-900. | 2.2 | 12 |
| 63 | Influence of NH ₃ plasma treatment on chemical bonding and water adsorption of low-k SiCOH film. <i>Microelectronic Engineering</i> , 2008, 85, 2114-2117. | 2.4 | 12 |
| 64 | Physical and electrical characterization of atomic-layer-deposited Ru nanocrystals embedded into Al ₂ O ₃ for memory applications. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 032007. | 2.8 | 12 |
| 65 | Characterization of PECVD ultralow dielectric constant porous SiOCH films using triethoxymethylsilane precursor and cinene porogen. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 115103. | 2.8 | 12 |
| 66 | Stateful Logic Operations Implemented With Graphite Resistive Switching Memory. <i>IEEE Electron Device Letters</i> , 2018, 39, 607-609. | 3.9 | 12 |
| 67 | Rapid Improvement in Thin Film Transistors With Atomic-Layer-Deposited InO _x Channels via O ₂ Plasma Treatment. <i>IEEE Electron Device Letters</i> , 2018, 39, 1672-1675. | 3.9 | 12 |
| 68 | High-Performance a-IGZO TFT Fabricated With Ultralow Thermal Budget via Microwave Annealing. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 156-159. | 3.0 | 12 |
| 69 | Spectrum Reconstruction with Filter-Free Photodetectors Based on Graded-Band-Gap Perovskite Quantum Dot Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14455-14465. | 8.0 | 12 |
| 70 | Metal-insulator-metal capacitors using atomic-layer-deposited Al ₂ O ₃ •HfO ₂ •Al ₂ O ₃ sandwiched dielectrics for wireless communications. <i>Journal of Vacuum Science & Technology B</i> , 2006, 24, 2518. | 1.3 | 11 |
| 71 | Mechanism of interfacial layer suppression after performing surface Al(CH ₃) ₃ pretreatment during atomic layer deposition of Al ₂ O ₃ . <i>Journal of Applied Physics</i> , 2006, 100, 106101. | 2.5 | 11 |
| 72 | Voltage-dependent capacitance behavior and underlying mechanisms in metal-insulator-metal capacitors with Al ₂ O ₃ •ZrO ₂ •SiO ₂ nano-laminates. <i>Journal Physics D: Applied Physics</i> , 2016, 49, 135106. | 2.8 | 11 |

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|----|--|-----|-----------|
| 73 | Atomic Layer Deposition of Pt Nanoparticles for Microengine with Promoted Catalytic Motion. <i>Nanoscale Research Letters</i> , 2016, 11, 289. | 5.7 | 11 |
| 74 | Plasma-Assisted Atomic Layer Deposition of High-Density Ni Nanoparticles for Amorphous In-Ga-Zn-O Thin Film Transistor Memory. <i>Nanoscale Research Letters</i> , 2017, 12, 138. | 5.7 | 11 |
| 75 | Formation Mechanism of Heavily Doped Silicon Mesopores Induced by Pt Nanoparticle-Assisted Chemical Etching. <i>Journal of Physical Chemistry C</i> , 2018, 122, 21537-21542. | 3.1 | 11 |
| 76 | Growth, physical and electrical characterization of nickel oxide thin films prepared by plasma-enhanced atomic layer deposition using nickelocene and oxygen precursors. <i>Materials Research Express</i> , 2020, 7, 046401. | 1.6 | 11 |
| 77 | Floating-gate photosensitive synaptic transistors with tunable functions for neuromorphic computing. <i>Science China Materials</i> , 2021, 64, 1219-1229. | 6.3 | 11 |
| 78 | Low Thermal Budget Fabrication and Performance Comparison of MFM Capacitors With Thermal and Plasma-Enhanced Atomic Layer Deposited $\text{Hf}_{0.45}\text{Zr}_{0.55}\text{O}_x$ Ferroelectrics. <i>IEEE Transactions on Electron Devices</i> , 2021, 68, 6359-6364. | 3.0 | 11 |
| 79 | PBTI Investigation of MoS_2 -n-MOSFET With Al_2O_3 Gate Dielectric. <i>IEEE Electron Device Letters</i> , 2017, 38, 677-680. | 3.9 | 10 |
| 80 | Multilevel memory and synaptic characteristics of a-IGZO thin-film transistor with atomic layer-deposited $\text{Al}_2\text{O}_3/\text{ZnO}/\text{Al}_2\text{O}_3$ stack layers. <i>Journal of Materials Research</i> , 2020, 35, 732-737. | 2.6 | 10 |
| 81 | High-Performance Flexible Gas Sensors Based on Layer-by-Layer Assembled Polythiophene Thin Films. <i>Chemistry of Materials</i> , 2021, 33, 7785-7794. | 6.7 | 10 |
| 82 | Power-Efficient Gas-Sensing and Synaptic Diodes Based on Lateral Pentacene/a-IGZO PN Junctions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 9368-9376. | 8.0 | 10 |
| 83 | Influence of HfAlO composition on memory effects of metal-oxide-semiconductor capacitors with $\text{Al}_2\text{O}_3/\text{HfAlO}/\text{Al}_2\text{O}_3$ layers and Pd electrode. <i>Thin Solid Films</i> , 2013, 529, 380-384. | 1.8 | 9 |
| 84 | Photoresponsive characteristics of thin film transistors with perovskite quantum dots embedded amorphous InGaZnO channels*. <i>Chinese Physics B</i> , 2020, 29, 078503. | 1.4 | 8 |
| 85 | Voltage-Polarity Dependent Programming Behaviors of Amorphous InGaZnO Thin-Film Transistor Memory with an Atomic-Layer-Deposited ZnO Charge Trapping Layer. <i>Nanoscale Research Letters</i> , 2019, 14, 363. | 5.7 | 8 |
| 86 | Flexible Perovskite and Organic Semiconductor Heterojunction Devices for Tunable Band-Selective Photodetection. <i>ACS Applied Electronic Materials</i> , 2022, 4, 2805-2814. | 4.3 | 8 |
| 87 | Preparation and Characterization of Ultralow-Dielectric-Constant Porous SiCOH Thin Films Using 1,2-Bis(triethoxysilyl)ethane, Triethoxymethylsilane, and a Copolymer Template. <i>Journal of Electronic Materials</i> , 2011, 40, 2139-2146. | 2.2 | 7 |
| 88 | Electrically programmable-erasable In-Ga-Zn-O thin-film transistor memory with atomic-layer-deposited $\text{Al}_2\text{O}_3/\text{Pt}$ nanocrystals/ Al_2O_3 gate stack. <i>AIP Advances</i> , 2015, 5, . | 1.3 | 7 |
| 89 | Plasma-Enhanced Atomic Layer Deposition of Low Resistivity and Ultrathin Manganese Oxynitride Films with Excellent Resistance to Copper Diffusion. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1653-1660. | 4.3 | 7 |
| 90 | High Performance ($V_{\text{th}} \sim 0$ V, $SS \sim 69$ mV/dec, $I_{\text{On}}/I_{\text{Off}} \sim 10^7$) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 Passivation. <i>IEEE Transactions on Electron Devices</i> , 2022, 69, 3716-3721. | 3.0 | 7 |

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|-----|---|-----|-----------|
| 91 | Nonvolatile Metalâ€“Oxideâ€“Semiconductor Capacitors with Ru-RuO _x Composite Nanodots Embedded in Atomic-Layer-Deposited Al ₂ O ₃ Films. Journal of Electronic Materials, 2010, 39, 1343-1350. | 2.2 | 6 |
| 92 | Atomic-layer-deposited SiO ₂ /TiO ₂ /SiO ₂ sandwiched dielectrics for metalâ€“insulatorâ€“metal capacitor application. Microelectronic Engineering, 2014, 122, 1-4. | 2.4 | 6 |
| 93 | Effects of Al ₂ O ₃ Capping and Post-Annealing on the Conduction Behavior in Few-Layer Black Phosphorus Field-Effect Transistors. IEEE Journal of the Electron Devices Society, 2018, 6, 320-324. | 2.1 | 6 |
| 94 | Investigation of energy band at atomic layer deposited AZO/ $\sqrt{2}$ -Ga ₂ O ₃ ($\overline{001}$) heterojunctions. Nanoscale Research Letters, 2019, 14, 275. | 5.7 | 6 |
| 95 | Stability enhancement of low temperature thin-film transistors with atomic-layer-deposited ZnO:Al channels. Microelectronic Engineering, 2017, 167, 105-109. | 2.4 | 5 |
| 96 | High-bandwidth light inputting multilevel photoelectric memory based on thin-film transistor with a floating gate of CsPbBr ₃ /CsPbI ₃ blend quantum dots. Nanotechnology, 2021, 32, 095204. | 2.6 | 5 |
| 97 | A Waterâ€“free Low Temperature Process for Atomic Layer Deposition of Al ₂ O ₃ Films. Chemical Vapor Deposition, 2013, 19, 156-160. | 1.3 | 4 |
| 98 | Atomic layer deposition of amorphous Ni-Ta-N films for Cu diffusion barrier. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2018, 36, 031502. | 2.1 | 3 |
| 99 | The effect of NH ₃ plasma pulse time on atomic layer-deposited TiN films using tetrakis-(dimethylamino) titanium as a metal precursor. Japanese Journal of Applied Physics, 2019, 58, SHHA02. | 1.5 | 3 |
| 100 | Formation of Pd nanocrystals in titanium-oxide film by rapid thermal annealing of reactively cosputtered TiPdO films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2011, 29, 021006. | 2.1 | 2 |
| 101 | Preparation and characterization of SnO films via reactive sputtering for ambipolar thin-film transistor applications. Semiconductor Science and Technology, 2021, 36, 025004. | 2.0 | 2 |
| 102 | Correlation between the formation of particle defects on sputtered Cu seed layers and Cu targets. Micro and Nano Letters, 2019, 14, 1079-1082. | 1.3 | 1 |
| 103 | A comparison study of high-density MIM capacitors with ALD HfO ₂ /Al ₂ O ₃ laminated, sandwiched and stacked dielectrics. , 0, , . | | 0 |