

# Thirumalai Venkatesan

## List of Publications by Year in descending order

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837  
papers

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856  
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856  
docs citations

856  
times ranked

24289  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Direct evidence for a half-metallic ferromagnet. Nature, 1998, 392, 794-796.  | 13.7 | 1,268     |
| 2  | Preparation of $\text{YBaCu}$ oxide superconductor thin films using pulsed laser evaporation from high- $T_c$ bulk material. Applied Physics Letters, 1987, 51, 619-621.  | 1.5  | 1,109     |
| 3  | Differential Gain and Bistability Using a Sodium-Filled Fabry-Perot Interferometer. Physical Review Letters, 1976, 36, 1135-1138.   | 2.9  | 839       |
| 4  | High Temperature Ferromagnetism with a Giant Magnetic Moment in Transparent Co-doped $\text{SnO}_2$ . Physical Review Letters, 2003, 91, 077205.  | 2.9  | 816       |
| 5  | Ferroelectric Field Effect Transistor Based on Epitaxial Perovskite Heterostructures. Science, 1997, 276, 238-240.  | 6.0  | 566       |
| 6  | Realization of band gap above 5.0 eV in metastable cubic-phase $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ alloy films. Applied Physics Letters, 2002, 80, 1529-1531.  | 1.5  | 548       |
| 7  | Dependence of giant magnetoresistance on oxygen stoichiometry and magnetization in polycrystalline $\text{La}_{0.67}\text{Ba}_{0.33}\text{MnO}_z$ . Physical Review B, 1995, 51, 6143-6146.                     | 1.1  | 534       |
| 8  | Giant magnetoresistance in $\text{La}_{1-x}\text{Sr}_x\text{MnO}_z$ films near room temperature. Applied Physics Letters, 1994, 65, 2108-2110.  | 1.5  | 469       |
| 9  | On the origin of high-temperature ferromagnetism in the low-temperature-processed $\text{MnZnO}$ system. Nature Materials, 2004, 3, 709-714.  | 13.3 | 459       |
| 10 | Magnetic Properties at Surface Boundary of a Half-Metallic Ferromagnet $\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ . Physical Review Letters, 1998, 81, 1953-1956.   | 2.9  | 457       |
| 11 | Optical bistability in semiconductors. Applied Physics Letters, 1979, 35, 451-453.  | 1.5  | 431       |
| 12 | Heteroepitaxy of ZnO on GaN and its implications for fabrication of hybrid optoelectronic devices. Applied Physics Letters, 1998, 73, 348-350.  | 1.5  | 425       |
| 13 | Observation of two distinct components during pulsed laser deposition of high- $T_c$ superconducting films. Applied Physics Letters, 1988, 52, 1193-1195.   | 1.5  | 369       |
| 14 | Electronic phase separation at the $\text{LaAlO}_3/\text{SrTiO}_3$ interface. Nature Communications, 2011, 2, 188.  | 5.8  | 366       |
| 15 | In a clean high- $T_c$ superconductor you do not see the gap. Physical Review Letters, 1990, 64, 84-87.   | 2.9  | 353       |
| 16 | Co-occurrence of Superparamagnetism and Anomalous Hall Effect in Highly Reduced Cobalt-Doped Rutile $\text{TiO}_2$ Films. Physical Review Letters, 2004, 92, 166601.  | 2.9  | 352       |
| 17 | Interlayer coupling effect in high- $T_c$ superconductors probed by $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}/\text{PrBa}_2\text{Cu}_3\text{O}_{7-x}$ superlattices. Physical Review Letters, 1990, 64, 3086-3089. | 2.9  | 347       |
| 18 | Time-resolved reflectivity of ion-implanted silicon during laser annealing. Applied Physics Letters, 1978, 33, 437-440.   | 1.5  | 336       |

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|----|--|------|-----------|
| 19 | Oxygen pressure-tuned epitaxy and optoelectronic properties of laser-deposited ZnO films on sapphire. Applied Physics Letters, 1999, 75, 3947-3949.  | 1.5  | 315       |
| 20 | Giant magnetoresistance in epitaxial Nd <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Applied Physics Letters, 1995, 66, 1427-1429.  | 1.5  | 306       |
| 21 | Octahedral cation site disorder effects on magnetization in double-perovskite Sr <sub>2</sub> FeMoO <sub>6</sub> : Monte Carlo simulation study. Applied Physics Letters, 1999, 75, 537-539. | 1.5  | 297       |
| 22 | As-deposited high T <sub>c</sub> superconducting thin films made at low temperatures. Applied Physics Letters, 1988, 53, 908-910.  | 1.5  | 270       |
| 23 | The 2016 oxide electronic materials and oxide interfaces roadmap. Journal Physics D: Applied Physics, 2016, 49, 433001.  | 1.3  | 266       |
| 24 | Transition-element doping effects in La <sub>0.7</sub> Ca <sub>0.3</sub> MnO <sub>3</sub> . Physical Review B, 1999, 59, 533-537.  | 1.1  | 261       |
| 25 | Electroresistance and Electronic Phase Separation in Mixed-Valent Manganites. Physical Review Letters, 2001, 86, 5998-6001.  | 2.9  | 255       |
| 26 | Ultraviolet photoconductive detector based on epitaxial Mg <sub>0.34</sub> Zn <sub>0.66</sub> O thin films. Applied Physics Letters, 2001, 78, 2787-2789.                                    | 1.5  | 254       |
| 27 | Robust resistive memory devices using solution-processable metal-coordinated azo aromatics. Nature Materials, 2017, 16, 1216-1224.   | 13.3 | 244       |
| 28 | Temperature Dependence of Penetration Depth and Surface Resistance of Nd <sub>1.85</sub> Ce <sub>0.15</sub> CuO <sub>4</sub> . Physical Review Letters, 1993, 70, 85-88.                     | 2.9  | 241       |
| 29 | Compositionally-tuned epitaxial cubic Mg <sub>x</sub> Zn <sub>1-x</sub> O on Si(100) for deep ultraviolet photodetectors. Applied Physics Letters, 2003, 82, 3424-3426.                      | 1.5  | 241       |
| 30 | Switchable Ultrathin Quarter-wave Plate in Terahertz Using Active Phase-change Metasurface. Scientific Reports, 2015, 5, 15020.  | 1.6  | 238       |
| 31 | Low-temperature preparation of high T <sub>c</sub> superconducting thin films. Applied Physics Letters, 1988, 52, 754-756.   | 1.5  | 236       |
| 32 | Ferromagnetism in laser deposited anatase Ti <sub>1-x</sub> Co <sub>x</sub> O <sub>2</sub> films. Physical Review B, 2003, 67, .   | 1.1  | 232       |
| 33 | High-temperature superconductivity in ultrathin films of Y <sub>1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Applied Physics Letters, 1989, 54, 581-583.                       | 1.5  | 228       |
| 34 | Epitaxial ordering of oxide superconductor thin films on (100)-SrTiO <sub>3</sub> prepared by pulsed laser evaporation. Applied Physics Letters, 1987, 51, 861-863.                          | 1.5  | 225       |
| 35 | Stress-induced effects in epitaxial (La <sub>0.7</sub> Sr <sub>0.3</sub> )MnO <sub>3</sub> films. Journal of Magnetism and Magnetic Materials, 1997, 172, 229-236.                           | 1.0  | 223       |
| 36 | Material characteristics of perovskite manganese oxide thin films for bolometric applications. Applied Physics Letters, 1997, 71, 2535-2537.   | 1.5  | 219       |

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|----|--|------|-----------|
| 37 | Optical conductivity of manganites: Crossover from Jahn-Teller small polaron to coherent transport in the ferromagnetic state. <i>Physical Review B</i> , 1998, 58, 16093-16102.   | 1.1  | 219       |
| 38 | High quality crystalline ZnO buffer layers on sapphire (001) by pulsed laser deposition for III-V nitrides. <i>Applied Physics Letters</i> , 1997, 70, 2735-2737.  | 1.5  | 218       |
| 39 | Fabrication of heteroepitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}\text{PrBa}_2\text{Cu}_3\text{O}_{7-x}\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ Josephson devices grown by laser deposition. <i>Applied Physics Letters</i> , 1989, 55, 2032-2034. | 1.5  | 217       |
| 40 | Investigating the Role of Copper Oxide in Electrochemical $\text{CO}_2$ Reduction in Real Time. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 8574-8584.   | 4.0  | 207       |
| 41 | Magnetism in $\text{MoS}_2$ induced by proton irradiation. <i>Applied Physics Letters</i> , 2012, 101, .   | 1.5  | 205       |
| 42 | Nanoscale imaging of domain dynamics and retention in ferroelectric thin films. <i>Applied Physics Letters</i> , 1997, 71, 3492-3494.  | 1.5  | 204       |
| 43 | Graphene Oxides as Tunable Broadband Nonlinear Optical Materials for Femtosecond Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 785-790.  | 2.1  | 202       |
| 44 | Monolithic multichannel ultraviolet detector arrays and continuous phase evolution in $\text{Mg}_x\text{Zn}_{1-x}\text{O}$ composition spreads. <i>Journal of Applied Physics</i> , 2003, 94, 7336-7340.   | 1.1  | 201       |
| 45 | a-axis oriented epitaxial $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}\text{PrBa}_2\text{Cu}_3\text{O}_{7-x}$ heterostructures. <i>Applied Physics Letters</i> , 1990, 57, 2484-2486.  | 1.5  | 200       |
| 46 | Optical Evidence for the Dynamic Jahn-Teller Effect in $\text{Nd}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ . <i>Physical Review Letters</i> , 1996, 77, 2081-2084.  | 2.9  | 195       |
| 47 | Anomalous Current-Induced Spin Torques in Ferrimagnets near Compensation. <i>Physical Review Letters</i> , 2017, 118, 167201.  | 2.9  | 192       |
| 48 | Effect of hydrogen on $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3$ -based ferroelectric capacitors. <i>Applied Physics Letters</i> , 1998, 73, 1973-1975.  | 1.5  | 187       |
| 49 | Strain-driven charge-ordered state in $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ . <i>Physical Review B</i> , 2001, 63, .  | 1.1  | 185       |
| 50 | Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , 2020, 581, 171-177.  | 13.7 | 185       |
| 51 | Pulsed laser etching of high $T_c$ superconducting films. <i>Applied Physics Letters</i> , 1987, 51, 1112-1114.  | 1.5  | 173       |
| 52 | Insulator-Metal Crossover near Optimal Doping in $\text{Pr}_2\text{Ce}_x\text{CuO}_4$ : Anomalous Normal-State Low Temperature Resistivity. <i>Physical Review Letters</i> , 1998, 81, 4720-4723.  | 2.9  | 173       |
| 53 | Superconducting $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films on Si. <i>Applied Physics Letters</i> , 1988, 53, 243-245.   | 1.5  | 171       |
| 54 | Two-phase behavior in strained thin films of hole-doped manganites. <i>Physical Review B</i> , 2000, 61, 9665-9668.  | 1.1  | 171       |

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|----|---|------|-----------|
| 55 | Structural and morphological investigation of the development of electrical conductivity in ion-irradiated thin films of an organic material. Journal of Applied Physics, 1984, 55, 476-482.  | 1.1  | 170       |
| 56 | Surface energy and wettability of van der Waals structures. Nanoscale, 2016, 8, 5764-5770.  | 2.8  | 167       |
| 57 | High energy ion beam modification of polymer films. Nuclear Instruments & Methods in Physics Research B, 1985, 7-8, 461-467.  | 0.6  | 165       |
| 58 | Large conductivity changes in ion beam irradiated organic thin films. Applied Physics Letters, 1982, 41, 708-710.   | 1.5  | 162       |
| 59 | Anomalous Transport Properties in Superconducting $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ . Physical Review Letters, 1994, 73, 1291-1294.  | 2.9  | 162       |
| 60 | Spin-polarized quasiparticle injection devices using Au/YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> /LaAlO <sub>3</sub> /Nd <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> heterostructures. Applied Physics Letters, 1997, 71, 1718-1720. | 1.5  | 161       |
| 61 | Chalcogenide Phase Change Material for Active Terahertz Photonics. Advanced Materials, 2019, 31, e1808157.  | 11.1 | 159       |
| 62 | Electric field effect in high T <sub>c</sub> superconducting ultrathin YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films. Applied Physics Letters, 1991, 59, 3470-3472.   | 1.5  | 158       |
| 63 | Application of a near coincidence site lattice theory to the orientations of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> grains on (001)-MgO substrates. Applied Physics Letters, 1990, 57, 1690-1692.  | 1.5  | 153       |
| 64 | Effects of field-induced hole-density modulation on normal-state and superconducting transport in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Physical Review Letters, 1992, 68, 1240-1243.   | 2.9  | 153       |
| 65 | Imaging and control of ferromagnetism in LaMnO <sub>3</sub> /SrTiO <sub>3</sub> heterostructures. Science, 2015, 349, 716-719.  | 6.0  | 153       |
| 66 | Magnetotransport anisotropy effects in epitaxial magnetite (Fe <sub>3</sub> O <sub>4</sub> ) thin films. Physical Review B, 1998, 57, 7823-7828.  | 1.1  | 150       |
| 67 | Origin of surface roughness for c-axis oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> superconducting films. Applied Physics Letters, 1990, 57, 1814-1816.  | 1.5  | 149       |
| 68 | Oxygen electrocatalysis on (001)-oriented manganese perovskite films: Mn valency and charge transfer at the nanoscale. Energy and Environmental Science, 2013, 6, 1582.   | 15.6 | 146       |
| 69 | Niobium doped TiO <sub>2</sub> : Intrinsic transparent metallic anatase versus highly resistive rutile phase. Journal of Applied Physics, 2007, 102, .  | 1.1  | 144       |
| 70 | Origin of the Two-Dimensional Electron Gas at $\text{LaAlO}_3/\text{SrTiO}_3$ Heterostructures: The Role of Oxygen Vacancies and Electronic Reconstruction. Physical Review X, 2013, 3, .   | 2.8  | 144       |
| 71 | Electrodynamics of $\text{Nd}_{1.85}\text{Ce}_{0.15}\text{CuO}_4$ : Comparison with Nb and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . Physical Review B, 1994, 50, 523-535.  | 1.1  | 143       |
| 72 | Combinatorial synthesis and high throughput evaluation of ferroelectric/dielectric thin-film libraries for microwave applications. Applied Physics Letters, 1998, 72, 2185-2187.  | 1.5  | 142       |

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|----|---|------|-----------|
| 73 | Nature of the pulsed laser process for the deposition of highTcsuperconducting thin films. Applied Physics Letters, 1988, 53, 1431-1433.  | 1.5  | 138       |
| 74 | Influence of preparation on resistivity behavior of epitaxial Nd <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> and La <sub>0.67</sub> Ba <sub>0.33</sub> MnO <sub>3</sub> thin films. Applied Physics Letters, 1995, 66, 1689-1691. | 1.5  | 138       |
| 75 | Effect of crystallinity on the magnetoresistance in perovskite manganese oxide thin films. Applied Physics Letters, 1997, 71, 282-284.  | 1.5  | 135       |
| 76 | Metallic and nonmetallic double perovskites: a case study of A <sub>2</sub> FeReO <sub>6</sub> (A=Ca, Sr, Ba). Physical Review B, 2000, 62, 9538-9542.  | 1.1  | 132       |
| 77 | Kinetics of silicon-induced mixing of AlAs/GaAs superlattices. Applied Physics Letters, 1987, 50, 1823-1825.  | 1.5  | 130       |
| 78 | Optical bistability and differential gain between 85 and 296 K in a Fabry-Perot containing ruby. Applied Physics Letters, 1977, 30, 282-284.  | 1.5  | 127       |
| 79 | Microwave properties of highly oriented YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films. Applied Physics Letters, 1990, 56, 1178-1180.   | 1.5  | 127       |
| 80 | Ion-beam-induced conductivity in polymer films. Journal of Applied Physics, 1983, 54, 3150-3153.  | 1.1  | 125       |
| 81 | Optical spectroscopy: An in situ diagnostic for pulsed laser deposition of high T <sub>c</sub> superconducting thin films. Applied Physics Letters, 1989, 54, 179-181.  | 1.5  | 125       |
| 82 | Epitaxial growth of ferroelectric bismuth titanate thin films by pulsed laser deposition. Applied Physics Letters, 1990, 57, 1505-1507.   | 1.5  | 124       |
| 83 | Antiferromagnetic half-skyrmions and bimerons at room temperature. Nature, 2021, 590, 74-79.  | 13.7 | 121       |
| 84 | Interface Engineering and Emergent Phenomena in Oxide Heterostructures. Advanced Materials, 2018, 30, e1802439.   | 11.1 | 118       |
| 85 | Metal-Insulator Transition in SrTiO <sub>3</sub> Films Induced by Frozen-Out Carriers. Physical Review Letters, 2011, 107, 146802.  | 11.6 | 116       |
| 86 | Positive giant magnetoresistance in a Fe <sub>3</sub> O <sub>4</sub> /SrTiO <sub>3</sub> /La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> heterostructure. Applied Physics Letters, 1998, 73, 689-691.                             | 1.5  | 115       |
| 87 | Substrate effects on the properties of YBaCuO superconducting films prepared by laser deposition. Journal of Applied Physics, 1988, 63, 4591-4598.  | 1.1  | 114       |
| 88 | Critical Review of Volatile Organic Compound Analysis in Breath and In Vitro Cell Culture for Detection of Lung Cancer. Metabolites, 2019, 9, 52.   | 1.3  | 112       |
| 89 | Growth of colossal magnetoresistance thin films on silicon. Applied Physics Letters, 1996, 69, 1005-1007.   | 1.5  | 111       |
| 90 | Effects of annealing and strain on La <sub>1-x</sub> CaxMnO <sub>3</sub> thin films: A phase diagram in the ferromagnetic region. Applied Physics Letters, 1999, 75, 1446-1448.   | 1.5  | 111       |

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|-----|--|-----|-----------|
| 91  | Observation of resonant tunneling action in ZnO/Zn <sub>0.8</sub> Mg <sub>0.2</sub> O devices. Solid-State Electronics, 2002, 46, 1633-1637.   | 0.8 | 111       |
| 92  | Optical and electrical properties of ion-beam-irradiated films of organic molecular solids and polymers. Journal of Applied Physics, 1984, 55, 732-742.  | 1.1 | 109       |
| 93  | Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. ACS Applied Materials & Interfaces, 2018, 10, 12862-12869.                                 | 4.0 | 109       |
| 94  | Structural perfection of YBaCuO thin films controlled by the growth mechanism. Applied Physics Letters, 1990, 57, 1064-1066.   | 1.5 | 108       |
| 95  | Dynamics of Q-switched laser annealing. Applied Physics Letters, 1979, 34, 777-779.  | 1.5 | 107       |
| 96  | A model for pulsed laser melting of graphite. Journal of Applied Physics, 1985, 58, 4374-4382.   | 1.1 | 107       |
| 97  | Highly Active Epitaxial La <sub>x</sub> Sr <sub>x</sub> MnO <sub>3</sub> Surfaces for the Oxygen Reduction Reaction: Role of Charge Transfer. Journal of Physical Chemistry Letters, 2015, 6, 1435-1440. | 2.1 | 107       |
| 98  | Epitaxy of YBaCuO thin films grown on single-crystal MgO. Applied Physics Letters, 1990, 56, 2243-2245.  | 1.5 | 106       |
| 99  | Film thickness and temperature dependence of the magnetic properties of pulsed-laser-deposited Fe <sub>3</sub> O <sub>4</sub> films on different substrates. Physical Review B, 2001, 64, .              | 1.1 | 106       |
| 100 | Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. Nano Letters, 2018, 18, 482-490.   | 4.5 | 105       |
| 101 | Calculation of the dynamics of surface melting during laser annealing. Applied Physics Letters, 1979, 34, 635-637.   | 1.5 | 103       |
| 102 | High critical currents in epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> thin films on silicon with buffer layers. Applied Physics Letters, 1989, 54, 754-756.                              | 1.5 | 102       |
| 103 | Growth of epitaxial GaN films by pulsed laser deposition. Applied Physics Letters, 1997, 71, 102-104.  | 1.5 | 101       |
| 104 | Enhanced cytotoxicity to cancer cells by mitochondria-targeting MWCNTs containing platinum(IV) prodrug of cisplatin. Biomaterials, 2014, 35, 748-759.  | 5.7 | 101       |
| 105 | Electric Field Effect in Diluted Magnetic Insulator Anatase Co:TiO <sub>2</sub> . Physical Review Letters, 2005, 94, 126601.   | 2.9 | 100       |
| 106 | Correlation between magnetic homogeneity, oxygen content, and electrical and magnetic properties of perovskite manganite thin films. Applied Physics Letters, 1998, 73, 2672-2674.                       | 1.5 | 99        |
| 107 | Optical response of nongranular high-T <sub>c</sub> YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> superconducting thin films. Journal of Applied Physics, 1990, 67, 3054-3068.                       | 1.1 | 98        |
| 108 | Magnetism in cobalt-doped Cu <sub>2</sub> O thin films without and with Al, V, or Zn codopants. Applied Physics Letters, 2003, 82, 2100-2102.  | 1.5 | 98        |

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|-----|---|------|-----------|
| 109 | Unusual Electric Field Effects in Nd <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> . Physical Review Letters, 1996, 77, 1159-1162.  | 2.9  | 97        |
| 110 | Manganite-based devices: opportunities, bottlenecks and challenges. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 1661-1680.                      | 1.6  | 97        |
| 111 | Electronic Manifestation of Cation Vacancy-Induced Magnetic Moments in a Transparent Oxide Semiconductor: Anatase Nb:TiO <sub>2</sub> . Advanced Materials, 2009, 21, 2282-2287.                      | 11.1 | 97        |
| 112 | Tunable and adaptive bandpass filter using a nonlinear dielectric thin film of SrTiO <sub>3</sub> . Applied Physics Letters, 1996, 68, 1651-1653.   | 1.5  | 96        |
| 113 | Anisotropic two-dimensional electron gas at the LaAlO <sub>3</sub> /SrTiO <sub>3</sub> (110) interface. Nature Communications, 2013, 4, 1838.   | 5.8  | 96        |
| 114 | Fast bolometric response by high-T <sub>c</sub> detectors measured with subnanosecond synchrotron radiation. Applied Physics Letters, 1990, 57, 2725-2727.  | 1.5  | 95        |
| 115 | Current transport in high-T <sub>c</sub> polycrystalline films of Y-Ba-Cu-O. Physical Review B, 1987, 36, 7210-7213.  | 1.1  | 94        |
| 116 | Effect of substrate-induced strain on the charge-ordering transition in Nd <sub>0.5</sub> Sr <sub>0.5</sub> MnO <sub>3</sub> thin films. Applied Physics Letters, 1999, 75, 397-399.                  | 1.5  | 94        |
| 117 | Pulsed-laser-deposited epitaxial Sr <sub>2</sub> FeMoO <sub>6</sub> <sup>δ</sup> thin films: Positive and negative magnetoresistance regimes. Applied Physics Letters, 1999, 74, 3696-3698.           | 1.5  | 92        |
| 118 | Superconducting MgB <sub>2</sub> thin films by pulsed laser deposition. Applied Physics Letters, 2001, 79, 227-229.   | 1.5  | 92        |
| 119 | Ferromagnetic resonance and magnetic homogeneity in a giant-magnetoresistance material La <sub>2/3</sub> Ba <sub>1/3</sub> MnO <sub>3</sub> . Physical Review B, 1995, 52, 15058-15061.               | 1.1  | 91        |
| 120 | Room-Temperature Giant Charge-to-Spin Conversion at the SrTiO <sub>3</sub> /LaAlO <sub>3</sub> Oxide Interface. Nano Letters, 2017, 17, 7659-7664.  | 4.5  | 91        |
| 121 | Ferroic tunnel junctions and their application in neuromorphic networks. Applied Physics Reviews, 2020, 7, .  | 5.5  | 91        |
| 122 | Dielectric properties of SrTiO <sub>3</sub> thin films used in high-T <sub>c</sub> superconducting field-effect devices. Applied Physics Letters, 1992, 60, 1744-1746.                                | 1.5  | 88        |
| 123 | Pulsed laser deposition of stoichiometric potassium tantalate niobate films from segmented evaporation targets. Applied Physics Letters, 1991, 58, 2479-2481.   | 1.5  | 87        |
| 124 | Low-frequency optical response in epitaxial thin films of La <sub>0.67</sub> Ca <sub>0.33</sub> MnO <sub>3</sub> exhibiting colossal magnetoresistance. Applied Physics Letters, 1996, 68, 3555-3557. | 1.5  | 87        |
| 125 | cw argon laser annealing of ion-implanted silicon. Applied Physics Letters, 1978, 33, 539-541.  | 1.5  | 86        |
| 126 | The effect of layer number and substrate on the stability of graphene under MeV proton beam irradiation. Carbon, 2011, 49, 1720-1726.   | 5.4  | 86        |



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|-----|---|------|-----------|
| 127 | Extremely large magnetoresistance in few-layer graphene/boron nitride heterostructures. Nature Communications, 2015, 6, 8337.   | 5.8  | 86        |
| 128 | Observation of fast nonbolometric optical response of nongranular high-Tc Y1Ba2Cu3O7-x superconducting thin films. Applied Physics Letters, 1989, 54, 1594-1596.  | 1.5  | 84        |
| 129 | Epitaxial Y1Ba2Cu3O7-y/Y1-xPrxBa2Cu3O7-y heterostructures. Applied Physics Letters, 1990, 56, 391-393.  | 1.5  | 84        |
| 130 | Selective growth of single phase VO2(A, B, and M) polymorph thin films. APL Materials, 2015, 3, .   | 2.2  | 84        |
| 131 | Multi-Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. Advanced Materials, 2017, 29, 1606165.  | 11.1 | 84        |
| 132 | Ultrathin BaTiO3-Based Ferroelectric Tunnel Junctions through Interface Engineering. Nano Letters, 2015, 15, 2568-2573.   | 4.5  | 81        |
| 133 | Direct observation of room-temperature out-of-plane ferroelectricity and tunneling electroresistance at the two-dimensional limit. Nature Communications, 2018, 9, 3319.  | 5.8  | 81        |
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