

Thirumalai Venkatesan

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856
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38,255
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#	Paper	IF	Citations
813	Direct evidence for a half-metallic ferromagnet. <i>Nature</i> , 1998 , 392, 794-796	50.4	1125
812	Preparation of Y-Ba-Cu oxide superconductor thin films using pulsed laser evaporation from high Tc bulk material. <i>Applied Physics Letters</i> , 1987 , 51, 619-621	3.4	982
811	High temperature ferromagnetism with a giant magnetic moment in transparent co-doped SnO(2-delta). <i>Physical Review Letters</i> , 2003 , 91, 077205	7.4	765
810	Differential Gain and Bistability Using a Sodium-Filled Fabry-Perot Interferometer. <i>Physical Review Letters</i> , 1976 , 36, 1135-1138	7.4	754
809	Ferroelectric Field Effect Transistor Based on Epitaxial Perovskite Heterostructures. <i>Science</i> , 1997 , 276, 238-40	33.3	521
808	Realization of band gap above 5.0 eV in metastable cubic-phase Mg _x Zn _{1-x} O alloy films. <i>Applied Physics Letters</i> , 2002 , 80, 1529-1531	3.4	518
807	Dependence of giant magnetoresistance on oxygen stoichiometry and magnetization in polycrystalline La _{0.67} Ba _{0.33} MnO _z . <i>Physical Review B</i> , 1995 , 51, 6143-6146	3.3	511
806	On the origin of high-temperature ferromagnetism in the low-temperature-processed Mn-Zn-O system. <i>Nature Materials</i> , 2004 , 3, 709-14	27	444
805	Giant magnetoresistance in La _{1-x} Sr _x MnO _z films near room temperature. <i>Applied Physics Letters</i> , 1994 , 65, 2108-2110	3.4	443
804	Magnetic Properties at Surface Boundary of a Half-Metallic Ferromagnet La _{0.7} Sr _{0.3} MnO ₃ . <i>Physical Review Letters</i> , 1998 , 81, 1953-1956	7.4	426
803	Heteroepitaxy of ZnO on GaN and its implications for fabrication of hybrid optoelectronic devices. <i>Applied Physics Letters</i> , 1998 , 73, 348-350	3.4	391
802	Optical bistability in semiconductors. <i>Applied Physics Letters</i> , 1979 , 35, 451-453	3.4	382
801	Observation of two distinct components during pulsed laser deposition of high Tc superconducting films. <i>Applied Physics Letters</i> , 1988 , 52, 1193-1195	3.4	341
800	In a clean high-Tc superconductor you do not see the gap. <i>Physical Review Letters</i> , 1990 , 64, 84-87	7.4	340
799	Co-occurrence of superparamagnetism and anomalous hall effect in highly reduced cobalt-doped rutile TiO ₂ -delta films. <i>Physical Review Letters</i> , 2004 , 92, 166601	7.4	336
798	Electronic phase separation at the LaAlO ₃ /SrTiO ₃ interface. <i>Nature Communications</i> , 2011 , 2, 188	17.4	333
797	Interlayer coupling effect in high-Tc superconductors probed by YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O _{7-x} superlattices. <i>Physical Review Letters</i> , 1990 , 64, 3086-3089	7.4	325

796	Time-resolved reflectivity of ion-implanted silicon during laser annealing. <i>Applied Physics Letters</i> , 1978 , 33, 437-440	3-4	306
795	Oxygen pressure-tuned epitaxy and optoelectronic properties of laser-deposited ZnO films on sapphire. <i>Applied Physics Letters</i> , 1999 , 75, 3947-3949	3-4	297
794	Giant magnetoresistance in epitaxial Nd _{0.7} Sr _{0.3} MnO ₃ thin films. <i>Applied Physics Letters</i> , 1995 , 66, 1427-1429	3-4	281
793	Octahedral cation site disorder effects on magnetization in double-perovskite Sr ₂ FeMoO ₆ : Monte Carlo simulation study. <i>Applied Physics Letters</i> , 1999 , 75, 537-539	3-4	278
792	As-deposited high T _c and J _c superconducting thin films made at low temperatures. <i>Applied Physics Letters</i> , 1988 , 53, 908-910	3-4	251
791	Transition-element doping effects in La _{0.7} Ca _{0.3} MnO ₃ . <i>Physical Review B</i> , 1999 , 59, 533-537	3-3	241
790	Ultraviolet photoconductive detector based on epitaxial Mg _{0.34} Zn _{0.66} O thin films. <i>Applied Physics Letters</i> , 2001 , 78, 2787-2789	3-4	236
789	Electroresistance and electronic phase separation in mixed-valent manganites. <i>Physical Review Letters</i> , 2001 , 86, 5998-6001	7-4	233
788	Temperature Dependence of Penetration Depth and Surface Resistance of Nd _{1.85} Ce _{0.15} CuO ₄ . <i>Physical Review Letters</i> , 1993 , 70, 85-88	7-4	230
787	Ferromagnetism in laser deposited anatase Ti _{1-x} CoxO ₂ films. <i>Physical Review B</i> , 2003 , 67,	3-3	216
786	High-temperature superconductivity in ultrathin films of Y ₁ Ba ₂ Cu ₃ O _{7-x} . <i>Applied Physics Letters</i> , 1989 , 54, 581-583	3-4	216
785	Stress-induced effects in epitaxial (La _{0.7} Sr _{0.3})MnO ₃ films. <i>Journal of Magnetism and Magnetic Materials</i> , 1997 , 172, 229-236	2-8	214
784	Low-temperature preparation of high T _c superconducting thin films. <i>Applied Physics Letters</i> , 1988 , 52, 754-756	3-4	214
783	Compositionally-tuned epitaxial cubic Mg _x Zn _{1-x} O on Si(100) for deep ultraviolet photodetectors. <i>Applied Physics Letters</i> , 2003 , 82, 3424-3426	3-4	211
782	Material characteristics of perovskite manganese oxide thin films for bolometric applications. <i>Applied Physics Letters</i> , 1997 , 71, 2535-2537	3-4	206
781	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 433001	3	204
780	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	3-4	202
779	Fabrication of heteroepitaxial YBa ₂ Cu ₃ O _{7-x} -PrBa ₂ Cu ₃ O _{7-x} -YBa ₂ Cu ₃ O _{7-x} Josephson devices grown by laser deposition. <i>Applied Physics Letters</i> , 1989 , 55, 2032-2034	3-4	202

778	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	3-3	201
777	Epitaxial ordering of oxide superconductor thin films on (100) SrTiO ₃ prepared by pulsed laser evaporation. <i>Applied Physics Letters</i> , 1987 , 51, 861-863	3-4	199
776	a-axis oriented epitaxial YBa ₂ Cu ₃ O _{7-x} /PrBa ₂ Cu ₃ O _{7-x} heterostructures. <i>Applied Physics Letters</i> , 1990 , 57, 2484-2486	3-4	192
775	Switchable Ultrathin Quarter-wave Plate in Terahertz Using Active Phase-change Metasurface. <i>Scientific Reports</i> , 2015 , 5, 15020	4-9	189
774	Monolithic multichannel ultraviolet detector arrays and continuous phase evolution in Mg _x Zn _{1-x} O composition spreads. <i>Journal of Applied Physics</i> , 2003 , 94, 7336-7340	2-5	185
773	Nanoscale imaging of domain dynamics and retention in ferroelectric thin films. <i>Applied Physics Letters</i> , 1997 , 71, 3492-3494	3-4	182
772	Strain-driven charge-ordered state in La _{0.67} Ca _{0.33} MnO ₃ . <i>Physical Review B</i> , 2001 , 63,	3-3	182
771	Optical Evidence for the Dynamic Jahn-Teller Effect in Nd _{0.7} Sr _{0.3} MnO ₃ . <i>Physical Review Letters</i> , 1996 , 77, 2081-2084	7-4	180
770	Graphene Oxides as Tunable Broadband Nonlinear Optical Materials for Femtosecond Laser Pulses. <i>Journal of Physical Chemistry Letters</i> , 2012 , 3, 785-90	6-4	175
769	Magnetism in MoS ₂ induced by proton irradiation. <i>Applied Physics Letters</i> , 2012 , 101, 102103	3-4	170
768	Robust resistive memory devices using solution-processable metal-coordinated azo aromatics. <i>Nature Materials</i> , 2017 , 16, 1216-1224	27	167
767	Two-phase behavior in strained thin films of hole-doped manganites. <i>Physical Review B</i> , 2000 , 61, 9665-9668	3-4	162
766	Effect of hydrogen on Pb(Zr,Ti)O ₃ -based ferroelectric capacitors. <i>Applied Physics Letters</i> , 1998 , 73, 1973-1975	3-4	161
765	High energy ion beam modification of polymer films. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1985 , 7-8, 461-467	1-2	160
764	Structural and morphological investigation of the development of electrical conductivity in ion-irradiated thin films of an organic material. <i>Journal of Applied Physics</i> , 1984 , 55, 476-482	2-5	158
763	Anomalous transport properties in superconducting Nd _{1.85} Ce _{0.15} CuO ₄ +/- delta. <i>Physical Review Letters</i> , 1994 , 73, 1291-1294	7-4	156
762	Pulsed laser etching of high T _c superconducting films. <i>Applied Physics Letters</i> , 1987 , 51, 1112-1114	3-4	156
761	Insulator-Metal Crossover near Optimal Doping in Pr _{2-x} Ce _x CuO ₄ : Anomalous Normal-State Low Temperature Resistivity. <i>Physical Review Letters</i> , 1998 , 81, 4720-4723	7-4	155

760	Superconducting YBa ₂ Cu ₃ O _{7-δ} films on Si. <i>Applied Physics Letters</i> , 1988 , 53, 243-245	3-4	155
759	Large conductivity changes in ion beam irradiated organic thin films. <i>Applied Physics Letters</i> , 1982 , 41, 708-710	3-4	149
758	Electric field effect in high T _c superconducting ultrathin YBa ₂ Cu ₃ O _{7-δ} films. <i>Applied Physics Letters</i> , 1991 , 59, 3470-3472	3-4	148
757	Spin-polarized quasiparticle injection devices using Au/YBa ₂ Cu ₃ O ₇ /LaAlO ₃ /Nd _{0.7} Sr _{0.3} MnO ₃ heterostructures. <i>Applied Physics Letters</i> , 1997 , 71, 1718-1720	3-4	147
756	Effects of field-induced hole-density modulation on normal-state and superconducting transport in YBa ₂ Cu ₃ O _{7-x} . <i>Physical Review Letters</i> , 1992 , 68, 1240-1243	7-4	145
755	Magnetotransport anisotropy effects in epitaxial magnetite (Fe ₃ O ₄) thin films. <i>Physical Review B</i> , 1998 , 57, 7823-7828	3-3	144
754	Origin of surface roughness for c-axis oriented Y-Ba-Cu-O superconducting films. <i>Applied Physics Letters</i> , 1990 , 57, 1814-1816	3-4	144
753	Electrodynamics of Nd _{1.85} Ce _{0.15} CuO ₄ : Comparison with Nb and YBa ₂ Cu ₃ O _{7-δ} . <i>Physical Review B</i> , 1994 , 50, 523-535	3-3	137
752	Anomalous Current-Induced Spin Torques in Ferrimagnets near Compensation. <i>Physical Review Letters</i> , 2017 , 118, 167201	7-4	135
751	Application of a near coincidence site lattice theory to the orientations of YBa ₂ Cu ₃ O _{7-δ} grains on (001) MgO substrates. <i>Applied Physics Letters</i> , 1990 , 57, 1690-1692	3-4	135
750	Niobium doped TiO ₂ : Intrinsic transparent metallic anatase versus highly resistive rutile phase. <i>Journal of Applied Physics</i> , 2007 , 102, 013701	2-5	133
749	Investigating the Role of Copper Oxide in Electrochemical CO Reduction in Real Time. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8574-8584	9-5	132
748	Effect of crystallinity on the magnetoresistance in perovskite manganese oxide thin films. <i>Applied Physics Letters</i> , 1997 , 71, 282-284	3-4	129
747	Oxygen electrocatalysis on (001)-oriented manganese perovskite films: Mn valency and charge transfer at the nanoscale. <i>Energy and Environmental Science</i> , 2013 , 6, 1582	35-4	127
746	Nature of the pulsed laser process for the deposition of high T _c superconducting thin films. <i>Applied Physics Letters</i> , 1988 , 53, 1431-1433	3-4	127
745	Combinatorial synthesis and high throughput evaluation of ferroelectric/dielectric thin-film libraries for microwave applications. <i>Applied Physics Letters</i> , 1998 , 72, 2185-2187	3-4	126
744	Origin of the Two-Dimensional Electron Gas at LaAlO ₃ /SrTiO ₃ Interfaces: The Role of Oxygen Vacancies and Electronic Reconstruction. <i>Physical Review X</i> , 2013 , 3,	9-1	122
743	Influence of preparation on resistivity behavior of epitaxial Nd _{0.7} Sr _{0.3} MnO ₃ and La _{0.67} Ba _{0.33} MnO ₃ thin films. <i>Applied Physics Letters</i> , 1995 , 66, 1689-1691	3-4	122

- 742 Metallic and nonmetallic double perovskites: A case study of $A_2\text{FeReO}_6$ ($A=\text{Ca, Sr, Ba}$). *Physical Review B*, **2000**, 62, 9538-9542 3.3 120
- 741 MAGNETISM. Imaging and control of ferromagnetism in $\text{LaMnO}_3/\text{SrTiO}_3$ heterostructures. *Science*, **2015**, 349, 716-9 33.3 119
- 740 Microwave properties of highly oriented $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ thin films. *Applied Physics Letters*, **1990**, 56, 1178-1180 3.4 119
- 739 Kinetics of silicon-induced mixing of AlAs-GaAs superlattices. *Applied Physics Letters*, **1987**, 50, 1823-1825 3.4 118
- 738 Optical spectroscopy: An in situ diagnostic for pulsed laser deposition of high T_c superconducting thin films. *Applied Physics Letters*, **1989**, 54, 179-181 3.4 116
- 737 Epitaxial growth of ferroelectric bismuth titanate thin films by pulsed laser deposition. *Applied Physics Letters*, **1990**, 57, 1505-1507 3.4 113
- 736 Surface energy and wettability of van der Waals structures. *Nanoscale*, **2016**, 8, 5764-70 7.7 112
- 735 Optical bistability and differential gain between 85 and 296 °K in a Fabry-Perot containing ruby. *Applied Physics Letters*, **1977**, 30, 282-284 3.4 112
- 734 Substrate effects on the properties of Y-Ba-Cu-O superconducting films prepared by laser deposition. *Journal of Applied Physics*, **1988**, 63, 4591-4598 2.5 110
- 733 Ion-beam-induced conductivity in polymer films. *Journal of Applied Physics*, **1983**, 54, 3150-3153 2.5 109
- 732 Observation of resonant tunneling action in $\text{ZnO}/\text{Zn}_{0.8}\text{Mg}_{0.2}\text{O}$ devices. *Solid-State Electronics*, **2002**, 46, 1633-1637 1.7 107
- 731 Positive giant magnetoresistance in a $\text{Fe}_3\text{O}_4/\text{SrTiO}_3/\text{La}_{0.7}\text{Sr}_{0.3}\text{MnO}_3$ heterostructure. *Applied Physics Letters*, **1998**, 73, 689-691 3.4 107
- 730 Effects of annealing and strain on $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ thin films: A phase diagram in the ferromagnetic region. *Applied Physics Letters*, **1999**, 75, 1446-1448 3.4 107
- 729 Metal-insulator transition in $\text{SrTiO}_3(3-x)$ thin films induced by frozen-out carriers. *Physical Review Letters*, **2011**, 107, 146802 7.4 105
- 728 Film thickness and temperature dependence of the magnetic properties of pulsed-laser-deposited Fe_3O_4 films on different substrates. *Physical Review B*, **2001**, 64, 3.3 104
- 727 Structural perfection of Y-Ba-Cu-O thin films controlled by the growth mechanism. *Applied Physics Letters*, **1990**, 57, 1064-1066 3.4 103
- 726 Growth of colossal magnetoresistance thin films on silicon. *Applied Physics Letters*, **1996**, 69, 1005-1007 3.4 102
- 725 Optical and electrical properties of ion-beam-irradiated films of organic molecular solids and polymers. *Journal of Applied Physics*, **1984**, 55, 732-742 2.5 101

724	Epitaxy of Y-Ba-Cu-O thin films grown on single-crystal MgO. <i>Applied Physics Letters</i> , 1990 , 56, 2243-2245	3.4	98
723	High critical currents in epitaxial YBa ₂ Cu ₃ O _{7-x} thin films on silicon with buffer layers. <i>Applied Physics Letters</i> , 1989 , 54, 754-756	3.4	97
722	A model for pulsed laser melting of graphite. <i>Journal of Applied Physics</i> , 1985 , 58, 4374-4382	2.5	96
721	Calculation of the dynamics of surface melting during laser annealing. <i>Applied Physics Letters</i> , 1979 , 34, 635-637	3.4	96
720	Dynamics of Q-switched laser annealing. <i>Applied Physics Letters</i> , 1979 , 34, 777-779	3.4	96
719	Chalcogenide Phase Change Material for Active Terahertz Photonics. <i>Advanced Materials</i> , 2019 , 31, e1802157	2.1	95
718	Correlation between magnetic homogeneity, oxygen content, and electrical and magnetic properties of perovskite manganite thin films. <i>Applied Physics Letters</i> , 1998 , 73, 2672-2674	3.4	95
717	Electric field effect in diluted magnetic insulator anatase Co: TiO ₂ . <i>Physical Review Letters</i> , 2005 , 94, 126601	7.4	93
716	Magnetism in cobalt-doped Cu ₂ O thin films without and with Al, V, or Zn codopants. <i>Applied Physics Letters</i> , 2003 , 82, 2100-2102	3.4	93
715	Fast bolometric response by high T _c detectors measured with subnanosecond synchrotron radiation. <i>Applied Physics Letters</i> , 1990 , 57, 2725-2727	3.4	93
714	Optical response of nongranular high-T _c Y ₁ Ba ₂ Cu ₃ O _{7-x} superconducting thin films. <i>Journal of Applied Physics</i> , 1990 , 67, 3054-3068	2.5	92
713	Unusual Electric Field Effects in Nd _{0.7} Sr _{0.3} MnO ₃ . <i>Physical Review Letters</i> , 1996 , 77, 1159-1162	7.4	91
712	Superconducting MgB ₂ thin films by pulsed laser deposition. <i>Applied Physics Letters</i> , 2001 , 79, 227-229	3.4	90
711	Effect of substrate-induced strain on the charge-ordering transition in Nd _{0.5} Sr _{0.5} MnO ₃ thin films. <i>Applied Physics Letters</i> , 1999 , 75, 397-399	3.4	90
710	Current transport in high-T _c polycrystalline films of Y-Ba-Cu-O. <i>Physical Review B</i> , 1987 , 36, 7210-7213	3.3	90
709	Highly Active Epitaxial La(1-x)Sr(x)MnO ₃ Surfaces for the Oxygen Reduction Reaction: Role of Charge Transfer. <i>Journal of Physical Chemistry Letters</i> , 2015 , 6, 1435-40	6.4	89
708	Manganite-based devices: opportunities, bottlenecks and challenges. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 1998 , 356, 1661-1680	3	89
707	Ferromagnetic resonance and magnetic homogeneity in a giant-magnetoresistance material La _{2/3} Ba _{1/3} MnO ₃ . <i>Physical Review B</i> , 1995 , 52, 15058-15061	3.3	89

706	Electronic Manifestation of Cation-Vacancy-Induced Magnetic Moments in a Transparent Oxide Semiconductor: Anatase Nb:TiO ₂ . <i>Advanced Materials</i> , 2009 , 21, 2282-2287	24	88
705	Growth of epitaxial GaN films by pulsed laser deposition. <i>Applied Physics Letters</i> , 1997 , 71, 102-104	3.4	87
704	Pulsed-laser-deposited epitaxial Sr ₂ FeMoO ₆ thin films: Positive and negative magnetoresistance regimes. <i>Applied Physics Letters</i> , 1999 , 74, 3696-3698	3.4	86
703	Tunable and adaptive bandpass filter using a nonlinear dielectric thin film of SrTiO ₃ . <i>Applied Physics Letters</i> , 1996 , 68, 1651-1653	3.4	86
702	Low-frequency optical response in epitaxial thin films of La _{0.67} Ca _{0.33} MnO ₃ exhibiting colossal magnetoresistance. <i>Applied Physics Letters</i> , 1996 , 68, 3555-3557	3.4	84
701	Anisotropic two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ (110) interface. <i>Nature Communications</i> , 2013 , 4, 1838	17.4	82
700	Dielectric properties of SrTiO ₃ thin films used in high T _c superconducting field-effect devices. <i>Applied Physics Letters</i> , 1992 , 60, 1744-1746	3.4	81
699	Pulsed laser deposition of stoichiometric potassium-tantalate-niobate films from segmented evaporation targets. <i>Applied Physics Letters</i> , 1991 , 58, 2479-2481	3.4	80
698	Enhanced cytotoxicity to cancer cells by mitochondria-targeting MWCNTs containing platinum(IV) prodrug of cisplatin. <i>Biomaterials</i> , 2014 , 35, 748-59	15.6	79
697	Observation of fast nonbolometric optical response of nongranular high T _c Y ₁ Ba ₂ Cu ₃ O _{7-x} superconducting thin films. <i>Applied Physics Letters</i> , 1989 , 54, 1594-1596	3.4	78
696	Epitaxial Y ₁ Ba ₂ Cu ₃ O _{7-x} /Y _{1-x} Pr _x Ba ₂ Cu ₃ O _{7-x} heterostructures. <i>Applied Physics Letters</i> , 1990 , 56, 391-393	3.4	78
695	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. <i>Nano Letters</i> , 2018 , 18, 482-490	11.5	76
694	cw argon laser annealing of ion-implanted silicon. <i>Applied Physics Letters</i> , 1978 , 33, 539-541	3.4	76
693	Microstructure of in situ epitaxially grown superconducting Y-Ba-Cu-O thin films. <i>Applied Physics Letters</i> , 1989 , 54, 1702-1704	3.4	74
692	Measurement of Thermodynamic Parameters of Graphite by Pulsed-Laser Melting and Ion Channeling. <i>Physical Review Letters</i> , 1984 , 53, 360-363	7.4	74
691	The effect of layer number and substrate on the stability of graphene under MeV proton beam irradiation. <i>Carbon</i> , 2011 , 49, 1720-1726	10.4	73
690	Thermomagnetic transport properties of Nd _{1.85} Ce _{0.15} CuO _{4-x} films: Evidence for two types of charge carriers. <i>Physical Review B</i> , 1997 , 56, 14149-14156	3.3	73
689	Interface Engineering and Emergent Phenomena in Oxide Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1802439	24	72

688	Influence of strain and microstructure on magnetotransport in La _{0.7} Ca _{0.3} MnO ₃ thin films. <i>Journal of Applied Physics</i> , 1998 , 84, 3939-3948	2.5	71
687	Direct observation of structural defects in laser-deposited superconducting y-ba-cu-o thin films. <i>Science</i> , 1990 , 247, 57-9	33.3	71
686	Dose-dependent mixing of AlAs-GaAs superlattices by Si ion implantation. <i>Applied Physics Letters</i> , 1986 , 49, 701-703	3.4	71
685	Saturation of the free exciton resonance in GaAs. <i>Solid State Communications</i> , 1979 , 30, 271-275	1.6	71
684	Extremely large magnetoresistance in few-layer graphene/boron-nitride heterostructures. <i>Nature Communications</i> , 2015 , 6, 8337	17.4	70
683	Improved properties of La _{2/3} Ca _{1/3} MnO ₃ thin films by addition of silver. <i>Applied Physics Letters</i> , 1999 , 74, 2857-2859	3.4	70
682	Femtosecond thermomodulation study of high-T _c superconductors. <i>Solid State Communications</i> , 1990 , 74, 1305-1308	1.6	70
681	Control of Synaptic Plasticity Learning of Ferroelectric Tunnel Memristor by Nanoscale Interface Engineering. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12862-12869	9.5	69
680	Excitation Nature of Two-Photon Photoluminescence of Gold Nanorods and Coupled Gold Nanoparticles Studied by Two-Pulse Emission Modulation Spectroscopy. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 1634-8	6.4	69
679	Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , 2020 , 581, 171-177	50.4	68
678	Annealing of Te-implanted GaAs by ruby laser irradiation. <i>Applied Physics Letters</i> , 1978 , 32, 147-149	3.4	68
677	Ultrathin BaTiO ₃ -based ferroelectric tunnel junctions through interface engineering. <i>Nano Letters</i> , 2015 , 15, 2568-73	11.5	67
676	Pulsed-electron-beam deposition of transparent conducting SnO ₂ films and study of their properties. <i>Applied Physics Letters</i> , 2004 , 84, 1483-1485	3.4	66
675	Ultrafast Laser Induced Conductive and Resistive Transients in La _{0.7} Ca _{0.3} MnO ₃ : Charge Transfer and Relaxation Dynamics. <i>Physical Review Letters</i> , 1998 , 81, 1310-1313	7.4	66
674	Large critical current densities in YBa ₂ Cu ₃ O _{7-x} thin films made at high deposition rates. <i>Applied Physics Letters</i> , 1990 , 57, 523-525	3.4	66
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672	Multi-Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. <i>Advanced Materials</i> , 2017 , 29, 1606165	24	64
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- 669 Selective growth of single phase VO₂(A, B, and M) polymorph thin films. *APL Materials*, **2015**, 3, 026101 5.7 63
- 668 Defect structure of laser deposited Y-Ba-Cu-O thin films on single crystal MgO substrate. *Journal of Materials Research*, **1990**, 5, 704-716 2.5 63
- 667 Combinatorial synthesis and evaluation of epitaxial ferroelectric device libraries. *Applied Physics Letters*, **1998**, 73, 894-896 3.4 61
- 666 Growth parameter-property phase diagram for pulsed laser deposited transparent oxide conductor anatase Nb:TiO₂. *Applied Physics Letters*, **2007**, 91, 112113 3.4 60
- 665 Wet chemical etching of high-temperature superconducting Y-Ba-Cu-O films in ethylenediaminetetraacetic acid. *Applied Physics Letters*, **1989**, 55, 2661-2663 3.4 60
- 664 Spin-polarized transport across a La_{0.7}Sr_{0.3}MnO₃/YBa₂Cu₃O_{7-x} interface: Role of Andreev bound states. *Physical Review B*, **2001**, 63, 3.3 59
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