

Thirumalai Venkatesan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

813
papers

36,020
citations

95
h-index

162
g-index

856
ext. papers

38,255
ext. citations

5
avg, IF

6.65
L-index

#	Paper	IF	Citations
813	Skyrmionics in correlated oxides. <i>MRS Bulletin</i> , 2021 , 46, 1053-1062	3.2	1
812	Reversible hydrogen control of antiferromagnetic anisotropy in β -FeO. <i>Nature Communications</i> , 2021 , 12, 1668	17.4	13
811	Large microwave inductance of granular boron-doped diamond superconducting films. <i>Applied Physics Letters</i> , 2021 , 118, 242601	3.4	0
810	A Barium Titanate-on-Oxide Insulator Optoelectronics Platform. <i>Advanced Materials</i> , 2021 , 33, e2101128	2.4	3
809	Volatile Ultrafast Switching at Multilevel Nonvolatile States of Phase Change Material for Active Flexible Terahertz Metadevices. <i>Advanced Functional Materials</i> , 2021 , 31, 2100200	15.6	19
808	Antiferromagnetic half-skyrmions and bimerons at room temperature. <i>Nature</i> , 2021 , 590, 74-79	50.4	41
807	A cost-effective quantum eraser demonstration. <i>Physics Education</i> , 2021 , 56, 033007	0.8	0
806	Decision trees within a molecular memristor. <i>Nature</i> , 2021 , 597, 51-56	50.4	19
805	Band gap opening and surface morphology of monolayer graphene induced by single ion impacts of argon monomer and dimer ions. <i>Carbon</i> , 2021 , 184, 322-330	10.4	0
804	Direct Bandgap-like Strong Photoluminescence from Twisted Multilayer MoS Grown on SrTiO. <i>ACS Nano</i> , 2020 ,	16.7	4
803	Engineering covalently bonded 2D layered materials by self-intercalation. <i>Nature</i> , 2020 , 581, 171-177	50.4	68
802	Electronic and plasmonic phenomena at nonstoichiometric grain boundaries in metallic SrNbO. <i>Nanoscale</i> , 2020 , 12, 6844-6851	7.7	6
801	Charge disproportionate molecular redox for discrete memristive and memcapacitive switching. <i>Nature Nanotechnology</i> , 2020 , 15, 380-389	28.7	37
800	Characteristic Lengths of Interlayer Charge Transfer in Correlated Oxide Heterostructures. <i>Nano Letters</i> , 2020 , 20, 2493-2499	11.5	4
799	Atomic Origin of Interface-Dependent Oxygen Migration by Electrochemical Gating at the LaAlO-SrTiO Heterointerface. <i>Advanced Science</i> , 2020 , 7, 2000729	13.6	1
798	Direct Growth of Wafer-Scale, Transparent, p-Type Reduced-Graphene-Oxide-like Thin Films by Pulsed Laser Deposition. <i>ACS Nano</i> , 2020 , 14, 3290-3298	16.7	6
797	Frequency-Agile Temporal Terahertz Metamaterials. <i>Advanced Optical Materials</i> , 2020 , 8, 2000101	8.1	20

796	Colossal current and voltage tunability in an organic memristor via electrode engineering. <i>Applied Materials Today</i> , 2020 , 19, 100626	6.6	11
795	An organic approach to low energy memory and brain inspired electronics. <i>Applied Physics Reviews</i> , 2020 , 7, 021303	17.3	21
794	Observation of interacting polaronic gas behavior in Ta-doped TiO ₂ thin films via terahertz time-domain spectroscopy. <i>Applied Physics Letters</i> , 2020 , 117, 261902	3.4	
793	Topological Hall Effect: Emergent Topological Hall Effect at a Charge-Transfer Interface (Small 50/2020). <i>Small</i> , 2020 , 16, 2070273	11	0
792	Enhanced Magnetic Anisotropy and Orbital Symmetry Breaking in Manganite Heterostructures. <i>Advanced Functional Materials</i> , 2020 , 30, 1909536	15.6	10
791	Ferroic tunnel junctions and their application in neuromorphic networks. <i>Applied Physics Reviews</i> , 2020 , 7, 011304	17.3	54
790	Organic Memristors: Nanometer-Scale Uniform Conductance Switching in Molecular Memristors (Adv. Mater. 42/2020). <i>Advanced Materials</i> , 2020 , 32, 2070318	24	0
789	Magnetic Anisotropy of a Quasi Two-Dimensional Canted Antiferromagnet. <i>Nano Letters</i> , 2020 , 20, 1890-1895	18.95	6
788	Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors. <i>Advanced Materials</i> , 2020 , 32, e2000153	24	6
787	Temperature Dependent Structural Evolution of WSe ₂ : A Synchrotron X-ray Diffraction Study. <i>Condensed Matter</i> , 2020 , 5, 76	1.8	4
786	Emergent Topological Hall Effect at a Charge-Transfer Interface. <i>Small</i> , 2020 , 16, e2004683	11	2
785	. <i>IEEE Photonics Journal</i> , 2020 , 12, 1-10	1.8	1
784	Cuprate Thin Films: Interfacial Oxygen-Driven Charge Localization and Plasmon Excitation in Unconventional Superconductors (Adv. Mater. 34/2020). <i>Advanced Materials</i> , 2020 , 32, 2070257	24	
783	Tunable and enhanced Rashba spin-orbit coupling in iridate-manganite heterostructures. <i>Physical Review B</i> , 2020 , 102,	3.3	6
782	Nanometer-Scale Uniform Conductance Switching in Molecular Memristors. <i>Advanced Materials</i> , 2020 , 32, e2004370	24	8
781	Size-selective Pt siderophores based on redox active azo-aromatic ligands. <i>Chemical Science</i> , 2020 , 11, 9226-9236	9.4	2
780	Evidence of Rotational Fröhlich Coupling in Polaronic Trions. <i>Physical Review Letters</i> , 2020 , 125, 086803	7.4	8
779	Photoinduced metastable dd-exciton-driven metal-insulator transitions in quasi-one-dimensional transition metal oxides. <i>Communications Physics</i> , 2020 , 3,	5.4	1

778	Polaronic Trions at the MoS ₂ /SrTiO ₃ Interface. <i>Advanced Materials</i> , 2019 , 31, e1903569	24	16
777	Chalcogenide Phase Change Material for Active Terahertz Photonics. <i>Advanced Materials</i> , 2019 , 31, e1808157	157	95
776	Controlling the Magnetic Properties of LaMnO ₃ /SrTiO ₃ Heterostructures by Stoichiometry and Electronic Reconstruction: Atomic-Scale Evidence. <i>Advanced Materials</i> , 2019 , 31, e1901386	24	19
775	Critical Review of Volatile Organic Compound Analysis in Breath and In Vitro Cell Culture for Detection of Lung Cancer. <i>Metabolites</i> , 2019 , 9,	5.6	64
774	New Family of Plasmonic Photocatalysts without Noble Metals. <i>Chemistry of Materials</i> , 2019 , 31, 2320-2327	9	17
773	Dielectric resonator method for determining gap symmetry of superconductors through anisotropic nonlinear Meissner effect. <i>Review of Scientific Instruments</i> , 2019 , 90, 043901	1.7	5
772	Electronic-reconstruction-enhanced hydrogen evolution catalysis in oxide polymorphs. <i>Nature Communications</i> , 2019 , 10, 3149	17.4	20
771	Strontium Niobate for Near-Infrared Plasmonics. <i>Advanced Optical Materials</i> , 2019 , 7, 1900401	8.1	
770	Artificial two-dimensional polar metal by charge transfer to a ferroelectric insulator. <i>Communications Physics</i> , 2019 , 2,	5.4	13
769	Quantum Correlated Plasmons and Their Tunability in Undoped and Doped Mott-Insulator Cuprates. <i>ACS Photonics</i> , 2019 , 6, 3281-3289	6.3	3
768	Correlated Lattice Instability and Emergent Charged Domain Walls at Oxide Heterointerfaces. <i>Advanced Functional Materials</i> , 2019 , 29, 1906655	15.6	4
767	Surface Wetting at Macro and Nanoscale 2019 , 17-39		
766	Effect of phonon anharmonicity on ferroelectricity in EuxBa _{1-x} TiO ₃ . <i>Physical Review Materials</i> , 2019 , 3,	3.2	10
765	Oxide thin films as bioactive coatings. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 033001	1.8	6
764	Low-temperature magnetoresistance of (111) (La _{0.3} Sr _{0.7})(Al _{0.65} Ta _{0.35})O ₃ /SrTiO ₃ . <i>Physical Review B</i> , 2019 , 99,	3.3	2
763	Large Enhancement of 2D Electron Gases Mobility Induced by Interfacial Localized Electron Screening Effect. <i>Advanced Materials</i> , 2018 , 30, e1707428	24	10
762	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
761	Design and Implementation of Fault Current Limiters in Distribution System Using Internet of Things. <i>Wireless Personal Communications</i> , 2018 , 102, 2643-2666	1.9	4

760	Signatures of electronic nematicity in (111) LaAlO ₃ /SrTiO ₃ interfaces. <i>Physical Review B</i> , 2018 , 97,	3.3	6
759	Intrinsic hydrophilic nature of epitaxial thin-film of rare-earth oxide grown by pulsed laser deposition. <i>Nanoscale</i> , 2018 , 10, 3356-3361	7.7	25
758	Mo-Terminated Edge Reconstructions in Nanoporous Molybdenum Disulfide Film. <i>Nano Letters</i> , 2018 , 18, 482-490	11.5	76
757	EMnS films with 3D microarchitectures: comprehensive study of the synthesis, microstructural, optical and magnetic properties. <i>CrystEngComm</i> , 2018 , 20, 578-589	3.3	7
756	Temperature- and Phase-Dependent Phonon Renormalization in 1T'-MoS. <i>ACS Nano</i> , 2018 , 12, 5051-5058	6.7	39
755	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
754	Identification of Biofilm Inhibitors by Screening Combinatorial Libraries of Metal Oxide Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 12510-12517	9.5	6
753	Quasi-Z-Source Indirect Matrix Converter Fed Induction Motor Drive for Flow Control of Dye in Paper Mill. <i>IEEE Transactions on Power Electronics</i> , 2018 , 33, 1476-1486	7.2	16
752	Fabrication of a biomimetic Zein/PDA nanofibrous scaffold impregnated with BMP-2 peptide conjugated TiO nanoparticle for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 991-1001	4.4	22
751	Enhancing image contrast of carbon nanotubes on cellular background using helium ion microscope by varying helium ion fluence. <i>Journal of Microscopy</i> , 2018 , 269, 14-22	1.9	12
750	The Effect of Hydrogen Doping on the Electrochemical Etching of Ion-Irradiated n-Type Silicon. <i>ECS Journal of Solid State Science and Technology</i> , 2018 , 7, N110-N113	2	1
749	Analysis of Non-Isolated Multi-Port Single Ended Primary Inductor Converter for Standalone Applications. <i>Energies</i> , 2018 , 11, 539	3.1	4
748	Anisotropic superconductivity and frozen electronic states at the (111) LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2018 , 98,	3.3	6
747	Compensated thermal conductivity of metallically conductive Ta-doped TiO ₂ . <i>Applied Physics Letters</i> , 2018 , 113, 022103	3.4	4
746	Interface Engineering and Emergent Phenomena in Oxide Heterostructures. <i>Advanced Materials</i> , 2018 , 30, e1802439	24	72
745	CO ₂ Reactivity on Cobalt-Based Perovskites. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 20391-20401	3.8	15
744	Direct observation of room-temperature out-of-plane ferroelectricity and tunneling electroresistance at the two-dimensional limit. <i>Nature Communications</i> , 2018 , 9, 3319	17.4	50
743	From Titanium Sesquioxide to Titanium Dioxide: Oxidation-Induced Structural, Phase, and Property Evolution. <i>Chemistry of Materials</i> , 2018 , 30, 4383-4392	9.6	20

742	Enhanced electrochemical performance of W incorporated VO ₂ nanocomposite cathode material for lithium battery application. <i>Electrochimica Acta</i> , 2018 , 282, 480-489	6.7	11
741	Direct Observation of Room-Temperature Stable Magnetism in LaAlO ₃ /SrTiO ₃ Heterostructures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 9774-9781	9.5	9
740	Initial Application of Selected-Ion Flow-Tube Mass Spectrometry to Real-Time Product Detection in Electrochemical CO ₂ Reduction. <i>Energy Technology</i> , 2018 , 6, 110-121	3.5	9
739	Comparison of Typical Photocatalytic Systems with Intrinsic Plasmonic Photocatalysts Based on Strontium Niobate for Water Splitting. <i>Energy Technology</i> , 2018 , 6, 60-71	3.5	4
738	Tailoring Mechanical Properties of Suspended Graphene by Energetic Ion Beams 2018 ,		1
737	A soft x-ray-ultraviolet (SUV) beamline and diffractometer for resonant elastic scattering and ultraviolet-vacuum ultraviolet reflectance at the Singapore synchrotron light source. <i>Review of Scientific Instruments</i> , 2018 , 89, 113113	1.7	14
736	Oxygen Electromigration and Energy Band Reconstruction Induced by Electrolyte Field Effect at Oxide Interfaces. <i>Physical Review Letters</i> , 2018 , 121, 146802	7.4	18
735	Photoluminescence Upconversion by Defects in Hexagonal Boron Nitride. <i>Nano Letters</i> , 2018 , 18, 6898-6905	10.5	48
734	Control of magnetic anisotropy by orbital hybridization with charge transfer in (La _{0.67} Sr _{0.33} MnO ₃) _n /(SrTiO ₃) _n superlattice. <i>NPG Asia Materials</i> , 2018 , 10, 931-942	10.3	7
733	Anatase TiO ₂ -A Model System for Large Polaron Transport. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 38201-38208	9.5	15
732	Strong spin-orbit coupling and magnetism in (111) (La _{0.3} Sr _{0.7})(Al _{0.65} Ta _{0.35})O ₃ /SrTiO ₃ . <i>Physical Review B</i> , 2018 , 98,	3.3	3
731	Direct observation of anisotropic small-hole polarons in an orthorhombic structure of BiVO ₄ films. <i>Physical Review B</i> , 2018 , 97,	3.3	3
730	Detection of Lung Cancer: Concomitant Volatile Organic Compounds and Metabolomic Profiling of Six Cancer Cell Lines of Different Histological Origins. <i>ACS Omega</i> , 2018 , 3, 5131-5140	3.9	40
729	Ferromagnetism and matrix-dependent charge transfer in strained LaMnO ₃ /LaCoO ₃ superlattices. <i>Materials Research Letters</i> , 2018 , 6, 501-507	7.4	11
728	Binary Controls on Interfacial Magnetism in Manganite Heterostructures. <i>Advanced Functional Materials</i> , 2018 , 28, 1801766	15.6	13
727	Effect of Extrinsically Introduced Passive Interface Layer on the Performance of Ferroelectric Tunnel Junctions. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 5050-5055	9.5	12
726	Anisotropic multicarrier transport at the (111) LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2017 , 95,	3.3	20
725	Multi-Nonvolatile State Resistive Switching Arising from Ferroelectricity and Oxygen Vacancy Migration. <i>Advanced Materials</i> , 2017 , 29, 1606165	24	64

724	Electron transport and visible light absorption in a plasmonic photocatalyst based on strontium niobate. <i>Nature Communications</i> , 2017 , 8, 15070	17.4	48
723	Tunable and low-loss correlated plasmons in Mott-like insulating oxides. <i>Nature Communications</i> , 2017 , 8, 15271	17.4	30
722	Electrical Transport Anisotropy Controlled by Oxygen Vacancy Concentration in (111) LaAlO ₃ /SrTiO ₃ Interface Structures. <i>Advanced Materials Interfaces</i> , 2017 , 4, 1600830	4.6	13
721	Magnetoresistance in the superconducting state at the (111) LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2017 , 96,	3.3	9
720	Electron Accumulation and Emergent Magnetism in LaMnO ₃ /SrTiO ₃ Heterostructures. <i>Physical Review Letters</i> , 2017 , 119, 156801	7.4	44
719	The Mechanism of Electrolyte Gating on High-T Cuprates: The Role of Oxygen Migration and Electrostatics. <i>ACS Nano</i> , 2017 , 11, 9950-9956	16.7	18
718	Unraveling local spin polarization of Zhang-Rice singlet in lightly hole-doped cuprates using high-energy optical conductivity. <i>Physical Review B</i> , 2017 , 95,	3.3	7
717	Robust resistive memory devices using solution-processable metal-coordinated azo aromatics. <i>Nature Materials</i> , 2017 , 16, 1216-1224	27	167
716	Electrostatic tuning of magnetism at the conducting (111) (La _{0.3} Sr _{0.7})(Al _{0.65} Ta _{0.35})/SrTiO ₃ interface. <i>Applied Physics Letters</i> , 2017 , 111, 081604	3.4	5
715	Extrinsic Spin Hall Effect in Cu _{1-x} Ptx. <i>Physical Review Applied</i> , 2017 , 8,	4.3	47
714	Interfacial Rashba magnetoresistance of the two-dimensional electron gas at the LaAlO ₃ /SrTiO ₃ interface. <i>Physical Review B</i> , 2017 , 96,	3.3	13
713	Room-Temperature Giant Charge-to-Spin Conversion at the SrTiO-LaAlO Oxide Interface. <i>Nano Letters</i> , 2017 , 17, 7659-7664	11.5	54
712	Decreasing the Hydroxylation Affinity of La _{1-x} SrxMnO ₃ Perovskites To Promote Oxygen Reduction Electrocatalysis. <i>Chemistry of Materials</i> , 2017 , 29, 9990-9997	9.6	29
711	Giant crystalline anisotropic magnetoresistance in nonmagnetic perovskite oxide heterostructures. <i>Physical Review B</i> , 2017 , 95,	3.3	14
710	Anomalous Current-Induced Spin Torques in Ferrimagnets near Compensation. <i>Physical Review Letters</i> , 2017 , 118, 167201	7.4	135
709	Peripheral nerve fibres form multifacet interactions with keratinocytes in a novel complete human 2D culture model. <i>Experimental Dermatology</i> , 2017 , 26, 281-284	4	8
708	Fuzzy Logic Controller for Variable Boost Function in Quasi Z Source Indirect Matrix Converter during Voltage Sag Condition. <i>International Journal of Fuzzy Systems</i> , 2017 , 19, 1093-1103	3.6	8
707	Electrical properties and subband occupancy at the (La,Sr)(Al,Ta)O ₃ /SrTiO ₃ interface. <i>Physical Review Materials</i> , 2017 , 1,	3.2	7

706	Interface-Induced Enhancement of Ferromagnetism in Insulating LaMnO Ultrathin Films. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44931-44937	9.5	16
705	Emission Constraint Profit based Unit Commitment Problem using Improved Bacterial Foraging Algorithm. <i>Indian Journal of Science and Technology</i> , 2016 , 9,	1	2
704	Emerging giant resonant exciton induced by Ta substitution in anatase TiO ₂ : A tunable correlation effect. <i>Physical Review B</i> , 2016 , 93,	3.3	14
703	Coexistence of Midgap Antiferromagnetic and Mott States in Undoped, Hole- and Electron-Doped Ambipolar Cuprates. <i>Physical Review Letters</i> , 2016 , 116, 197002	7.4	10
702	Local Electrical Imaging of Tetragonal Domains and Field-Induced Ferroelectric Twin Walls in Conducting SrTiO ₃ . <i>Physical Review Letters</i> , 2016 , 116, 257601	7.4	34
701	Long-range magnetic coupling across a polar insulating layer. <i>Nature Communications</i> , 2016 , 7, 11015	17.4	16
700	Electron-soft phonon scattering in n-type SrTiO ₃ . <i>Physical Review B</i> , 2016 , 94,	3.3	7
699	The effect of oxygen vacancies on water wettability of transition metal based SrTiO ₃ and rare-earth based Lu ₂ O ₃ . <i>RSC Advances</i> , 2016 , 6, 109234-109240	3.7	32
698	Emergent nanoscale superparamagnetism at oxide interfaces. <i>Nature Communications</i> , 2016 , 7, 12566	17.4	44
697	Evidence for Photoinduced Insulator-to-Metal transition in B-phase vanadium dioxide. <i>Scientific Reports</i> , 2016 , 6, 25538	4.9	13
696	Ultrafast Photogenerated Hole Extraction/Transport Behavior in a CH ₃ NH ₂ PbI ₃ /Carbon Nanocomposite and Its Application in a Metal-Electrode-Free Solar Cell. <i>ChemPhysChem</i> , 2016 , 17, 4102-4109	3.2	18
695	Tailoring Self-Polarization of BaTiO ₃ Thin Films by Interface Engineering and Flexoelectric Effect. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1600737	4.6	26
694	Magneto-Optical Study of Defect Induced Sharp Photoluminescence in LaAlO ₃ and SrTiO ₃ . <i>Scientific Reports</i> , 2016 , 6, 33145	4.9	1
693	Interfacial Coupling-Induced Ferromagnetic Insulator Phase in Manganite Film. <i>Nano Letters</i> , 2016 , 16, 4174-80	11.5	20
692	Origin of Photocarrier Losses in Iron Pyrite (FeS ₂) Nanocubes. <i>ACS Nano</i> , 2016 , 10, 4431-40	16.7	52
691	Surface energy and wettability of van der Waals structures. <i>Nanoscale</i> , 2016 , 8, 5764-70	7.7	112
690	Reconstructing human skin equivalents on fibrin-based dermal matrix. <i>Materials Today</i> , 2016 , 19, 178-179	1.8	5
689	Multiband Switchable Terahertz Quarter-Wave Plates via Phase-Change Metasurfaces. <i>IEEE Photonics Journal</i> , 2016 , 8, 1-8	1.8	26

688	Liquid-Gated High Mobility and Quantum Oscillation of the Two-Dimensional Electron Gas at an Oxide Interface. <i>ACS Nano</i> , 2016 , 10, 4532-7	16.7	41
687	Component-Specific Analysis of Plasma Protein Corona Formation on Gold Nanoparticles Using Multiplexed Surface Plasmon Resonance. <i>Small</i> , 2016 , 12, 1174-82	11	43
686	Effects of strain relaxation in Pr _{0.67} Sr _{0.33} MnO ₃ films probed by polarization dependent X-ray absorption near edge structure. <i>Scientific Reports</i> , 2016 , 6, 19886	4.9	10
685	Origin and Quenching of Novel ultraviolet and blue emission in NdGaO ₃ : Concept of Super-Hydrogenic Dopants. <i>Scientific Reports</i> , 2016 , 6, 36352	4.9	1
684	Magnetic Modes in Rare Earth Perovskites: A Magnetic-Field-Dependent Inelastic Light Scattering study. <i>Scientific Reports</i> , 2016 , 6, 36859	4.9	6
683	Controlling Kondo-like Scattering at the SrTiO ₃ -based Interfaces. <i>Scientific Reports</i> , 2016 , 6, 25455	4.9	33
682	Tunneling electroresistance effect in ultrathin BiFeO ₃ -based ferroelectric tunneling junctions. <i>Applied Physics Letters</i> , 2016 , 109, 242901	3.4	7
681	High field magneto-transport in two-dimensional electron gas LaAlO ₃ /SrTiO ₃ . <i>Applied Physics Letters</i> , 2016 , 109, 122106	3.4	15
680	Electronic defect states at the LaAlO ₃ /SrTiO ₃ heterointerface revealed by O K-edge X-ray absorption spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 13844-51	3.6	21
679	The Effect of Polar Fluctuation and Lattice Mismatch on Carrier Mobility at Oxide Interfaces. <i>Nano Letters</i> , 2016 , 16, 2307-13	11.5	34
678	The 2016 oxide electronic materials and oxide interfaces roadmap. <i>Journal Physics D: Applied Physics</i> , 2016 , 49, 433001	3	204
677	Correlation of nanoscale behaviour of forces and macroscale surface wettability. <i>Nanoscale</i> , 2016 , 8, 15597-603	7.7	17
676	Nickel-phosphide contact for effective Schottky barrier modulation in black phosphorus p-channel transistors 2016 ,		2
675	New insights into the diverse electronic phases of a novel vanadium dioxide polymorph: a terahertz spectroscopy study. <i>Scientific Reports</i> , 2015 , 5, 9182	4.9	28
674	Electric-field-induced strain effects on the magnetization of a Pr _{0.67} Sr _{0.33} MnO ₃ film. <i>Physical Review B</i> , 2015 , 91,	3.3	5
673	Nature of Electron Scattering in LaAlO ₃ /SrTiO ₃ Interfaces Near the Critical Thickness. <i>Advanced Materials Interfaces</i> , 2015 , 2, 1400437	4.6	2
672	Ultrathin BaTiO ₃ -based ferroelectric tunnel junctions through interface engineering. <i>Nano Letters</i> , 2015 , 15, 2568-73	11.5	67
671	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

670	Extremely large magnetoresistance in few-layer graphene/boron-nitride heterostructures. <i>Nature Communications</i> , 2015 , 6, 8337	17.4	70
669	Electron Transport at the TiO ₂ Surfaces of Rutile, Anatase, and Strontium Titanate: The Influence of Orbital Corrugation. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 24616-21	9.5	32
668	MAGNETISM. Imaging and control of ferromagnetism in LaMnO ₃ /SrTiO ₃ heterostructures. <i>Science</i> , 2015 , 349, 716-9	33.3	119
667	Optical conductivity renormalization of graphene on SrTiO ₃ due to resonant excitonic effects mediated by Ti 3d orbitals. <i>Physical Review B</i> , 2015 , 91,	3.3	19
666	Anomalous spectral-weight transfers unraveling oxygen screening and electronic correlations in the insulator-metal transition of VO ₂ . <i>Physical Review B</i> , 2015 , 91,	3.3	11
665	Low-temperature growth of single-crystal Cu(In,Ga)Se ₂ films by pulsed electron deposition technique. <i>Solar Energy Materials and Solar Cells</i> , 2015 , 133, 82-86	6.4	19
664	Black Phosphorus Transistors with Near Band Edge Contact Schottky Barrier. <i>Scientific Reports</i> , 2015 , 5, 18000	4.9	29
663	Gate Tunable In- and Out-of-Plane Spin-Orbit Coupling and Spin-Splitting Anisotropy at LaAlO ₃ /SrTiO ₃ (110) Interface. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500114	6.4	24
662	Graphene Nanobubbles: A New Optical Nonlinear Material. <i>Advanced Optical Materials</i> , 2015 , 3, 744-749	8.1	44
661	Two-dimensional superconductor-insulator quantum phase transitions in an electron-doped cuprate. <i>Physical Review B</i> , 2015 , 92,	3.3	38
660	Switchable Ultrathin Quarter-wave Plate in Terahertz Using Active Phase-change Metasurface. <i>Scientific Reports</i> , 2015 , 5, 15020	4.9	189
659	Unexpected observation of spatially separated Kondo scattering and ferromagnetism in Ta alloyed anatase TiO ₂ thin films. <i>Scientific Reports</i> , 2015 , 5, 13011	4.9	12
658	Tailoring the Two Dimensional Electron Gas at Polar ABO ₃ /SrTiO ₃ Interfaces for Oxide Electronics. <i>Scientific Reports</i> , 2015 , 5, 13314	4.9	19
657	Functional ferroelectric tunnel junctions on silicon. <i>Scientific Reports</i> , 2015 , 5, 12576	4.9	47
656	Temperature dependence of photoluminescence spectra of bilayer two-dimensional electron gases in LaAlO ₃ /SrTiO ₃ superlattices: coexistence of Auger recombination and single-carrier trapping. <i>AIP Advances</i> , 2015 , 5, 067163	1.5	4
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357	Resistivity and critical current anisotropy of untwinned a-axis YBCO thin films. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 1636-1641	1.8	1
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