Judith L Macmanus-Driscoll

List of Publications by Year in Descending Order

464 papers	18,954 citations	67 h-index	119 g-index
490 ext. papers	20,797 ext. citations	7 avg, IF	6.84 L-index

#	Paper	IF	Citations
464	Recent developments and the future perspectives in magnetoelectric nanocomposites for memory applications. *APL Materials*, **2022**, 10, 010901	5.7	3
463	Modulation of the Bi 6s Lone Pair State in Perovskites for High-Mobility p-Type Oxide Semiconductors.. *Advanced Science*, **2022**, e2104141	13.6	3
462	Surface chemistry and porosity engineering through etching reveal ultrafast oxygen reduction kinetics below 400 °C in B-site exposed (La,Sr)(Co,Fe)O3 thin-films. *Journal of Power Sources*, **2022**, 523, 230983	8.9	0
461	Solution-processed thin film transistors incorporating YSZ gate dielectrics processed at 400 °C. *APL Materials*, **2022**, 10, 031109	5.7	0
460	Emergent multiferroism with magnetodielectric coupling in EuTiO created by a negative pressure control of strong spin-phonon coupling.. *Nature Communications*, **2022**, 13, 2364	17.4	3
459	Optical dielectric properties of HfO2-based films. *Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films*, **2022**, 40, 033412	2.9	1
458	Lithium-based vertically aligned nancomposite films incorporating LixLa0.32(Nb0.7Ti0.32)O3 electrolyte with high Li+ ion conductivity. *APL Materials*, **2022**, 10, 051102	5.7	1
457	Self-trapping in bismuth-based semiconductors: Opportunities and challenges from optoelectronic devices to quantum technologies. *Applied Physics Letters*, **2021**, 119, 220501	3.4	1
456	Perspectives for next generation lithium-ion battery cathode materials. *APL Materials*, **2021**, 9, 109201	5.7	8
455	Processing and application of high-temperature superconducting coated conductors. *Nature Reviews Materials*, **2021**, 6, 587-604	73.3	32
454	Facilitating the Deprotonation of OH to O through Fe -Induced States in Perovskite LaNiO Enables a Fast Oxygen Evolution Reaction. *Small*, **2021**, 17, e2006930	11	10
453	Ferroelectric/multiferroic self-assembled vertically aligned nanocomposites: Current and future status. *APL Materials*, **2021**, 9, 030904	5.7	3
452	Advances in Dielectric Thin Films for Energy Storage Applications, Revealing the Promise of Group IV Binary Oxides. *ACS Energy Letters*, **2021**, 6, 2208-2217	20.1	14
451	Assessing the Impact of Defects on Lead-Free Perovskite-Inspired Photovoltaics via Photoinduced Current Transient Spectroscopy. *Advanced Energy Materials*, **2021**, 11, 2003968	21.8	5
450	A high-entropy manganite in an ordered nanocomposite for long-term application in solid oxide cells. *Nature Communications*, **2021**, 12, 2660	17.4	15
449	Self-biased magnetoelectric switching at room temperature in three-phase ferroelectric–antiferromagnetic–ferrimagnetic nanocomposites. *Nature Electronics*, **2021**, 4, 333-341	28.4	8
448	Atomic scale surface modification of TiO2 3D nano-arrays: plasma enhanced atomic layer deposition of NiO for photocatalysis. *Materials Advances*, **2021**, 2, 273-279	3.3	1

447	Superhierarchical Inorganic/Organic Nanocomposites Exhibiting Simultaneous Ultrahigh Dielectric Energy Density and High Efficiency. *Advanced Functional Materials*, **2021**, 31, 2007994	15.6	21
446	Lead-Free Perovskite-Inspired Absorbers for Indoor Photovoltaics. *Advanced Energy Materials*, **2021**, 11, 2002761	21.8	38
445	Nickel oxide thin films grown by chemical deposition techniques: Potential and challenges in next-generation rigid and flexible device applications. *Informa□□Materi□y*, **2021**, 3, 536-576	23.1	17
444	High Yield Transfer of Clean Large-Area Epitaxial Oxide Thin Films. *Nano-Micro Letters*, **2021**, 13, 39	19.5	4
443	Route to High-Performance Micro-solid Oxide Fuel Cells on Metallic Substrates. *ACS Applied Materials & Interfaces*, **2021**, 13, 4117-4125	9.5	5
442	High performance, electroforming-free, thin film memristors using ionic Na0.5Bi0.5TiO3. *Journal of Materials Chemistry C*, **2021**, 9, 4522-4531	7.1	4
441	Role of ALD AlO Surface Passivation on the Performance of p-Type CuO Thin Film Transistors. *ACS Applied Materials & Interfaces*, **2021**, 13, 4156-4164	9.5	15
440	Tuning the band gap and carrier concentration of titania films grown by spatial atomic layer deposition: a precursor comparison. *Nanoscale Advances*, **2021**, 3, 5908-5918	5.1	2
439	Indoor Photovoltaics: Lead-Free Perovskite-Inspired Absorbers for Indoor Photovoltaics (Adv. Energy Mater. 1/2021). *Advanced Energy Materials*, **2021**, 11, 2170005	21.8	
438	Creating Ferromagnetic Insulating LaBaMnO Thin Films by Tuning Lateral Coherence Length. *ACS Applied Materials & Interfaces*, **2021**, 13, 8863-8870	9.5	1
437	Strong pinning at high growth rates in rare earth barium cuprate (REBCO) superconductor films grown with liquid-assisted processing (LAP) during pulsed laser deposition. *Superconductor Science and Technology*, **2021**, 34, 045012	3.1	2
436	Tailoring physical functionalities of complex oxides by vertically aligned nanocomposite thin-film design. *MRS Bulletin*, **2021**, 46, 159-167	3.2	12
435	Strain-gradient effects in nanoscale-engineered magnetoelectric materials. *APL Materials*, **2021**, 9, 020903	5.7	5
434	Layered Nanosheets: Superhierarchical Inorganic/Organic Nanocomposites Exhibiting Simultaneous Ultrahigh Dielectric Energy Density and High Efficiency (Adv. Funct. Mater. 8/2021). *Advanced Functional Materials*, **2021**, 31, 2170050	15.6	1
433	Tetrafluoroborate-Induced Reduction in Defect Density in Hybrid Perovskites through Halide Management. *Advanced Materials*, **2021**, 33, e2102462	24	9
432	Endogenous 17O Dynamic Nuclear Polarization of Gd-Doped CeO2 from 100 to 370 K. *Journal of Physical Chemistry C*, **2021**, 125, 18799-18809	3.8	4
431	Improvement of the value and anisotropy of critical current density in GdBa2Cu3O7-□coated conductors with self-assembled 3-dimensional BaZrO3 nanostructure. *Materials Today Physics*, **2021**, 20, 100455	8	2
430	Ultrahigh energy storage in superparaelectric relaxor ferroelectrics. *Science*, **2021**, 374, 100-104	33.3	49

429	Enhanced electric resistivity and dielectric energy storage by vacancy defect complex. *Energy Storage Materials*, **2021**, 42, 836-844	19.4	5
428	Nanoengineering room temperature ferroelectricity into orthorhombic SmMnO films. *Nature Communications*, **2020**, 11, 2207	17.4	8
427	Spontaneous Ordering of Oxide-Oxide Epitaxial Vertically Aligned Nanocomposite Thin Films. *Annual Review of Materials Research*, **2020**, 50, 229-253	12.8	14
426	Electronic Structure, Optical Properties, and Photoelectrochemical Activity of Sn-Doped Fe2O3 Thin Films. *Journal of Physical Chemistry C*, **2020**, 124, 12548-12558	3.8	26
425	Strong performance enhancement in lead-halide perovskite solar cells through rapid, atmospheric deposition of n-type buffer layer oxides. *Nano Energy*, **2020**, 75, 104946	17.1	15
424	Rapid Vapor-Phase Deposition of High-Mobility p-Type Buffer Layers on Perovskite Photovoltaics for Efficient Semitransparent Devices. *ACS Energy Letters*, **2020**, 5, 2456-2465	20.1	22
423	Elucidating the origin of external quantum efficiency losses in cuprous oxide solar cells through defect analysis. *Solar Energy Materials and Solar Cells*, **2020**, 209, 110418	6.4	2
422	Influence of atomic roughness at the uncompensated Fe/CoO(111) interface on the exchange-bias effect. *Physical Review B*, **2020**, 101,	3.3	5
421	New approaches for achieving more perfect transition metal oxide thin films. *APL Materials*, **2020**, 8, 040904	5.7	37
420	Controlling the preferred orientation of layered BiOI solar absorbers. *Journal of Materials Chemistry C*, **2020**, 8, 10791-10797	7.1	10
419	Electronic Structure and Optoelectronic Properties of Bismuth Oxyiodide Robust against Percent-Level Iodine-, Oxygen-, and Bismuth-Related Surface Defects. *Advanced Functional Materials*, **2020**, 30, 1909983	15.6	18
418	Over 20% Efficiency in Methylammonium Lead Iodide Perovskite Solar Cells with Enhanced Stability via "in Situ Solidification" of the TiO Compact Layer. *ACS Applied Materials & Interfaces*, **2020**, 12, 7135-7143	9.5	8
417	Antiferromagnetism and p-type conductivity of nonstoichiometric nickel oxide thin films. *InformaMaterly*, **2020**, 2, 769-774	23.1	8
416	Vertical Strain-Driven Antiferromagnetic to Ferromagnetic Phase Transition in EuTiO Nanocomposite Thin Films. *ACS Applied Materials & Interfaces*, **2020**, 12, 8513-8521	9.5	7
415	YBa2Cu3O7 films with Ba2Y(Nb,Ta)O6 nanoinclusions for high-field applications. *Superconductor Science and Technology*, **2020**, 33, 044010	3.1	6
414	Magnetic signatures of 120 K superconductivity at interfaces in LaCuO. *Nanoscale*, **2020**, 12, 3157-3165	7.7	4
413	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. *Advanced Science*, **2020**, 7, 1901606	13.6	15
412	Efficient light-emitting diodes from mixed-dimensional perovskites on a fluoride interface. *Nature Electronics*, **2020**, 3, 704-710	28.4	67

411	Electrochemical removal of anodic aluminium oxide templates for the production of phase-pure cuprous oxide nanorods for antimicrobial surfaces. *Electrochemistry Communications*, **2020**, 120, 106833	5.1	1
410	Real-time in situ optical tracking of oxygen vacancy migration in memristors. *Nature Electronics*, **2020**, 3, 687-693	28.4	16
409	Defects in complex oxide thin films for electronics and energy applications: challenges and opportunities. *Materials Horizons*, **2020**, 7, 2832-2859	14.4	32
408	Colloidal Synthesis and Optical Properties of Perovskite-Inspired Cesium Zirconium Halide Nanocrystals **2020**, 2, 1644-1652		23
407	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of BO6 Octahedra. *Advanced Functional Materials*, **2020**, 30, 2001984	15.6	5
406	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. *Advanced Functional Materials*, **2020**, 30, 2000664	15.6	18
405	Dielectric films for high performance capacitive energy storage: multiscale engineering. *Nanoscale*, **2020**, 12, 19582-19591	7.7	32
404	Evidence of Rotational Fr□lich Coupling in Polaronic Trions. *Physical Review Letters*, **2020**, 125, 086803	7.4	8
403	Revealing the Structure and Oxygen Transport at Interfaces in Complex Oxide Heterostructures via O NMR Spectroscopy. *Chemistry of Materials*, **2020**, 32, 7921-7931	9.6	5
402	Achieving ferromagnetic insulating properties in LaBaMnO thin films through nanoengineering. *Nanoscale*, **2020**, 12, 9255-9265	7.7	7
401	Topological semimetallic phase in PbO2 promoted by temperature. *Physical Review B*, **2019**, 100,	3.3	4
400	. *IEEE Transactions on Applied Superconductivity*, **2019**, 29, 1-4	1.8	
399	Strain and property tuning of the 3D framed epitaxial nanocomposite thin films via interlayer thickness variation. *Journal of Applied Physics*, **2019**, 125, 082530	2.5	13
398	Strain induced extrinsic magnetocaloric effects in La0.67Sr0.33MnO3 thin films, controlled by magnetic field. *Journal Physics D: Applied Physics*, **2019**, 52, 165302	3	8
397	Atmospheric Pressure Spatial Atomic Layer Deposited Metal Oxides for Thin Film Solar Cells **2019**, 245-277		1
396	Nanostructured Materials and Interfaces for Advanced Ionic Electronic Conducting Oxides. *Advanced Materials Interfaces*, **2019**, 6, 1900462	4.6	23
395	□CsPbI3 Colloidal Quantum Dots: Synthesis, Photodynamics, and Photovoltaic Applications. *ACS Energy Letters*, **2019**, 4, 1308-1320	20.1	52
394	Towards Oxide Electronics: a Roadmap. *Applied Surface Science*, **2019**, 482, 1-93	6.7	160

393	Identifying and Reducing Interfacial Losses to Enhance Color-Pure Electroluminescence in Blue-Emitting Perovskite Nanoplatelet Light-Emitting Diodes. *ACS Energy Letters*, **2019**, 4, 1181-1188	20.1	80
392	3D strain-induced superconductivity in LaCuO using a simple vertically aligned nanocomposite approach. *Science Advances*, **2019**, 5, eaav5532	14.3	22
391	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. *Advanced Functional Materials*, **2019**, 29, 1900442	15.6	14
390	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. *Advanced Science*, **2019**, 6, 1901000	13.6	17
389	Ferroelectric thin films and nanostructures: current and future **2019**, 19-39		
388	Determining interface structures in vertically aligned nanocomposite films. *APL Materials*, **2019**, 7, 061105	5.7	15
387	Growth of Doped SrTiO Ferroelectric Nanoporous Thin Films and Tuning of Photoelectrochemical Properties with Switchable Ferroelectric Polarization. *ACS Applied Materials & Interfaces*, **2019**, 11, 45683-45691	9.5	18
386	Very high commutation quality factor and dielectric tunability in nanocomposite SrTiO thin films with T enhanced to >300 °C. *Nanoscale*, **2018**, 10, 3460-3468	7.7	20
385	Three-dimensional strain engineering in epitaxial vertically aligned nanocomposite thin films with tunable magnetotransport properties. *Materials Horizons*, **2018**, 5, 536-544	14.4	44
384	High sensitivity strain sensors based on single-mode-fiber core-offset Mach-Zehnder interferometers. *Optics and Lasers in Engineering*, **2018**, 107, 202-206	4.6	14
383	Electronic and transport properties of Li-doped NiO epitaxial thin films. *Journal of Materials Chemistry C*, **2018**, 6, 2275-2282	7.1	85
382	Highly stable multi-wavelength erbium-doped fiber linear laser based on modal interference. *Laser Physics*, **2018**, 28, 035101	1.2	2
381	Use of Mesoscopic Host Matrix to Induce Ferrimagnetism in Antiferromagnetic Spinel Oxide. *Advanced Functional Materials*, **2018**, 28, 1706220	15.6	9
380	Strongly enhanced dielectric and energy storage properties in lead-free perovskite titanate thin films by alloying. *Nano Energy*, **2018**, 45, 398-406	17.1	64
379	Oxygen-vacancy-mediated dielectric property in perovskite Eu0.5Ba0.5TiO3-δ epitaxial thin films. *Applied Physics Letters*, **2018**, 112, 182906	3.4	12
378	Pushing the limits of applicability of REBCO coated conductor films through fine chemical tuning and nanoengineering of inclusions. *Nanoscale*, **2018**, 10, 8187-8195	7.7	22
377	Switchable multi-wavelength laser based on a core-offset Mach-Zehnder interferometer with non-zero dispersion-shifted fiber. *Optics and Laser Technology*, **2018**, 104, 49-55	4.2	23
376	Design of a Vertical Composite Thin Film System with Ultralow Leakage To Yield Large Converse Magnetoelectric Effect. *ACS Applied Materials & Interfaces*, **2018**, 10, 18237-18245	9.5	20

375	In Situ Atmospheric Deposition of Ultrasmooth Nickel Oxide for Efficient Perovskite Solar Cells. *ACS Applied Materials & Interfaces*, **2018**, 10, 41849-41854	9.5	29
374	All-Oxide Nanocomposites to Yield Large, Tunable Perpendicular Exchange Bias above Room Temperature. *ACS Applied Materials & Interfaces*, **2018**, 10, 42593-42602	9.5	14
373	Origin of Improved Photoelectrochemical Water Splitting in Mixed Perovskite Oxides. *Advanced Energy Materials*, **2018**, 8, 1801972	21.8	15
372	Nanoporous Films and Nanostructure Arrays Created by Selective Dissolution of Water-Soluble Materials. *Advanced Science*, **2018**, 5, 1800851	13.6	4
371	Fundamental Carrier Lifetime Exceeding 1 μs in Cs2AgBiBr6 Double Perovskite. *Advanced Materials Interfaces*, **2018**, 5, 1800464	4.6	114
370	Research Update: Bismuth-based perovskite-inspired photovoltaic materials. *APL Materials*, **2018**, 6, 084502	5.7	59
369	Efficient Triplet Exciton Fusion in Molecularly Doped Polymer Light-Emitting Diodes. *Advanced Materials*, **2017**, 29, 1605987	24	106
368	Rapid open-air deposition of uniform, nanoscale, functional coatings on nanorod arrays. *Nanoscale Horizons*, **2017**, 2, 110-117	10.8	21
367	Strain-tuned enhancement of ferromagnetic T to 176 K in Sm-doped BiMnO thin films and determination of magnetic phase diagram. *Scientific Reports*, **2017**, 7, 43799	4.9	10
366	Searching for Defect-Tolerant Photovoltaic Materials: Combined Theoretical and Experimental Screening. *Chemistry of Materials*, **2017**, 29, 4667-4674	9.6	191
365	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. *Advanced Materials*, **2017**, 29, 1700672	24	17
364	Giant Enhancement of Polarization and Strong Improvement of Retention in Epitaxial Ba0.6Sr0.4TiO3-Based Nanocomposites. *Advanced Materials Interfaces*, **2017**, 4, 1700336	4.6	9
363	Research Update: Fast and tunable nanoionics in vertically aligned nanostructured films. *APL Materials*, **2017**, 5, 042304	5.7	30
362	Colossal Terahertz Magnetoresistance at Room Temperature in Epitaxial LaSrMnO Nanocomposites and Single-Phase Thin Films. *Nano Letters*, **2017**, 17, 2506-2511	11.5	16
361	Tailoring Microstructure and Superconducting Properties in Thick BaHfO3 and Ba2 Y(Nb/Ta)O6 Doped YBCO Films on Technical Templates. *IEEE Transactions on Applied Superconductivity*, **2017**, 27, 1-7	1.8	10
360	Determination of magnetic field using a Fabry Perot cavity containing novel nanoparticles. *Instrumentation Science and Technology*, **2017**, 45, 392-403	1.4	3
359	Insulating-to-conducting behavior and band profile across the La0.9Ba0.1MnO3/Nb:SrTiO3 epitaxial interface. *Physical Review B*, **2017**, 96,	3.3	8
358	Impact of Technology in Collaborative and Interactive Programming Activities: Gathering Children's Feedback **2017**,		1

357	Route to achieving perfect B-site ordering in double perovskite thin films. *NPG Asia Materials*, **2017**, 9, e406-e406	10.3	24
356	Strongly Enhanced Photovoltaic Performance and Defect Physics of Air-Stable Bismuth Oxyiodide (BiOI). *Advanced Materials*, **2017**, 29, 1702176	24	100
355	New epitaxy paradigm in epitaxial self-assembled oxide vertically aligned nanocomposite thin films. *Journal of Materials Research*, **2017**, 32, 4054-4066	2.5	68
354	Materials design for artificial pinning centres in superconductor PLD coated conductors. *Superconductor Science and Technology*, **2017**, 30, 123001	3.1	52
353	Electronic Structure and Band Alignment at the NiO and SrTiO p-n Heterojunctions. *ACS Applied Materials & Interfaces*, **2017**, 9, 26549-26555	9.5	52
352	Symmetric and Asymmetric Core-Offset Mach□ehnder Interferometer Torsion Sensors. *IEEE Photonics Technology Letters*, **2017**, 1-1	2.2	7
351	Turning antiferromagnetic Sm(0.34)Sr(0.66)MnO3 into a 140 K ferromagnet using a nanocomposite strain tuning approach. *Nanoscale*, **2016**, 8, 8083-90	7.7	18
350	Interface-Coupled BiFeO3/BiMnO3 Superlattices with Magnetic Transition Temperature up to 410 K. *Advanced Materials Interfaces*, **2016**, 3, 1500597	4.6	11
349	Very High Surface Area Mesoporous Thin Films of SrTiO Grown by Pulsed Laser Deposition and Application to Efficient Photoelectrochemical Water Splitting. *Nano Letters*, **2016**, 16, 7338-7345	11.5	37
348	Role of scaffold network in controlling strain and functionalities of nanocomposite films. *Science Advances*, **2016**, 2, e1600245	14.3	70
347	Self-assembled oxide films with tailored nanoscale ionic and electronic channels for controlled resistive switching. *Nature Communications*, **2016**, 7, 12373	17.4	67
346	Large pinning forces and matching effects in YBa2Cu3O(7-□thin films with Ba2Y(Nb/Ta)O6 nano-precipitates. *Scientific Reports*, **2016**, 6, 21188	4.9	59
345	Enhanced 77 K vortex-pinning in Y Ba2Cu3O7□ films with Ba2Y TaO6 and mixed Ba2Y TaO6 + Ba2Y NbO6 nano-columnar inclusions with irreversibility field to 11 T. *APL Materials*, **2016**, 4, 061101	5.7	21
344	Elucidation of barrier homogeneity in ZnO/P3HT:PCBM junctions through temperature dependentIVcharacteristics. *Journal Physics D: Applied Physics*, **2016**, 49, 275302	3	6
343	Photoelectrochemical water splitting strongly enhanced in fast-grown ZnO nanotree and nanocluster structures. *Journal of Materials Chemistry A*, **2016**, 4, 10203-10211	13	47
342	Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. *ACS Applied Materials & Interfaces*, **2016**, 8, 16845-51	9.5	19
341	Ba2Y(Nb/Ta)O6□Doped YBCO Films on Biaxially Textured Ni□at.% W Substrates. *IEEE Transactions on Applied Superconductivity*, **2016**, 26, 1-5	1.8	8
340	Combining STEM Imaging and EELS Mapping to Understand the Growth of La 2 CoMnO 6 Double Perovskites on (111) Oriented Perovskite Substrates. *Microscopy and Microanalysis*, **2016**, 22, 1520-1521	0.5	

339	Enhanced localized superconductivity in Sr2RuO4thin film by pulsed laser deposition. *Superconductor Science and Technology*, **2016**, 29, 095005	3.1	14
338	Self-Assembled Heteroepitaxial Oxide Nanocomposite for Photoelectrochemical Solar Water Oxidation. *Chemistry of Materials*, **2016**, 28, 3017-3023	9.6	23
337	Lithium outdiffusion in LiTi2O4 thin films grown by pulsed laser deposition. *Journal of Crystal Growth*, **2016**, 454, 134-138	1.6	8
336	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. *ACS Applied Materials & Interfaces*, **2016**, 8, 20283-91	9.5	33
335	Size-Dependent Photon Emission from Organometal Halide Perovskite Nanocrystals Embedded in an Organic Matrix. *Journal of Physical Chemistry Letters*, **2015**, 6, 446-50	6.4	137
334	Perspective: Maintaining surface-phase purity is key to efficient open air fabricated cuprous oxide solar cells. *APL Materials*, **2015**, 3, 020901	5.7	24
333	Strong perpendicular exchange bias in epitaxial La(0.7)Sr(0.3)MnO3:BiFeO3 nanocomposite films through vertical interfacial coupling. *Nanoscale*, **2015**, 7, 13808-15	7.7	37
332	Synthesis and modeling of uniform complex metal oxides by close-proximity atmospheric pressure chemical vapor deposition. *ACS Applied Materials & Interfaces*, **2015**, 7, 10684-94	9.5	30
331	Perpendicular Exchange-Biased Magnetotransport at the Vertical Heterointerfaces in La(0.7)Sr(0.3)MnO3:NiO Nanocomposites. *ACS Applied Materials & Interfaces*, **2015**, 7, 21646-51	9.5	37
330	Bright and efficient blue polymer light emitting diodes with reduced operating voltages processed entirely at low-temperature. *Journal of Materials Chemistry C*, **2015**, 3, 9327-9336	7.1	10
329	Strongly enhanced oxygen ion transport through samarium-doped CeO2 nanopillars in nanocomposite films. *Nature Communications*, **2015**, 6, 8588	17.4	116
328	Single-Crystalline Thin Films for Studying Intrinsic Properties of BiFeO3–SrTiO3 Solid Solution Photoelectrodes in Solar Energy Conversion. *Chemistry of Materials*, **2015**, 27, 6635-6641	9.6	40
327	Ionic Conductivity Increased by Two Orders of Magnitude in Micrometer-Thick Vertical Yttria-Stabilized ZrO2 Nanocomposite Films. *Nano Letters*, **2015**, 15, 7362-9	11.5	73
326	Influence of an Inorganic Interlayer on Exciton Separation in Hybrid Solar Cells. *ACS Nano*, **2015**, 9, 11863-71	13.7	18
325	Fabrication of ZnO/Cu2O heterojunctions in atmospheric conditions: Improved interface quality and solar cell performance. *Solar Energy Materials and Solar Cells*, **2015**, 135, 43-48	6.4	83
324	Composite epitaxial thin films: A new platform for tuning, probing, and exploiting mesoscale oxides. *MRS Bulletin*, **2015**, 40, 933-942	3.2	50
323	Multifunctional, self-assembled oxide nanocomposite thin films and devices. *MRS Bulletin*, **2015**, 40, 736-745	3.2	62
322	Heterointerface design and strain tuning in epitaxial BiFeO3:CoFe2O4 nanocomposite films. *Applied Physics Letters*, **2015**, 107, 212901	3.4	25

321	Preface for Special Topic: Frontiers in Oxides: Properties and Electronic Applications. *APL Materials*, **2015**, 3, 062201	5.7	1
320	Strain Tuning and Strong Enhancement of Ionic Conductivity in SrZrO3–RE2O3 (RE = Sm, Eu, Gd, Dy, and Er) Nanocomposite Films. *Advanced Functional Materials*, **2015**, 25, 4328-4333	15.6	41
319	Strain Localization in Thin Films of Bi(Fe,Mn)O3 Due to the Formation of Stepped Mn(4+)-Rich Antiphase Boundaries. *Nanoscale Research Letters*, **2015**, 10, 407	5	11
318	Research Update: Atmospheric pressure spatial atomic layer deposition of ZnO thin films: Reactors, doping, and devices. *APL Materials*, **2015**, 3, 040701	5.7	51
317	New strain states and radical property tuning of metal oxides using a nanocomposite thin film approach. *APL Materials*, **2015**, 3, 062507	5.7	34
316	Enhanced performance in fluorene-free organometal halide perovskite light-emitting diodes using tunable, low electron affinity oxide electron injectors. *Advanced Materials*, **2015**, 27, 1414-9	24	255
315	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. *Scientific Reports*, **2014**, 4, 5426	4.9	29
314	Improved Exciton Dissociation at Semiconducting Polymer:ZnO Donor:Acceptor Interfaces via Nitrogen Doping of ZnO. *Advanced Functional Materials*, **2014**, 24, 3562-3570	15.6	55
313	Interfacial coupling in heteroepitaxial vertically aligned nanocomposite thin films: From lateral to vertical control. *Current Opinion in Solid State and Materials Science*, **2014**, 18, 6-18	12	87
312	Strong correlated pinning at high growth rates in YBa2Cu3O7-δ thin films with Ba2YNbO6 additions. *Journal of Applied Physics*, **2014**, 116, 033915	2.5	11
311	Biopolymer-Mediated Inorganic Crystal Growth at Reduced Temperature with Enhanced Kinetics and Morphological Direction. *Crystal Growth and Design*, **2014**, 14, 2296-2301	3.5	1
310	Spatial atmospheric atomic layer deposition: a new laboratory and industrial tool for low-cost photovoltaics. *Materials Horizons*, **2014**, 1, 314-320	14.4	79
309	Ferroelectric Sm-doped BiMnO3 thin films with ferromagnetic transition temperature enhanced to 140 K. *ACS Applied Materials & Interfaces*, **2014**, 6, 14836-43	9.5	13
308	Induced magnetization in La0.7Sr0.3MnO3/BiFeO3 superlattices. *Physical Review Letters*, **2014**, 113, 047204	7.4	52
307	Novel electroforming-free nanoscaffold memristor with very high uniformity, tunability, and density. *Advanced Materials*, **2014**, 26, 6284-9	24	62
306	Supercurrents in half-metallic ferromagnetic La 0.7 Ca 0.3 MnO 3. *Europhysics Letters*, **2014**, 106, 37003	1.6	16
305	Precise Tuning of (YBa2Cu3O7-δ)1-x:(BaZrO3)x Thin Film Nanocomposite Structures. *Advanced Functional Materials*, **2014**, 24, 5240-5245	15.6	40
304	Improved Open- Circuit Voltage in ZnO-PbSe Quantum Dot Solar Cells by Understanding and Reducing Losses Arising from the ZnO Conduction Band Tail. *Advanced Energy Materials*, **2014**, 4, 1301544	21.8	82

303	Chemical quantification of atomic-scale EDS maps under thin specimen conditions. *Microscopy and Microanalysis*, **2014**, 20, 1782-90	0.5	40
302	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO3:CoFe2O4 vertically aligned nanocomposite thin films. *Applied Physics Letters*, **2014**, 104, 062402	3.4	42
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