

A P Chen

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111
papers

3,181
citations

33
h-index

52
g-index

119
ext. papers

3,625
ext. citations

6.7
avg, IF

5.07
L-index

#	Paper	IF	Citations
111	Controlled growth and characteristics of single-phase Cu ₂ O and CuO films by pulsed laser deposition. <i>Vacuum</i> , 2009 , 83, 927-930	3.7	189
110	Tunable Low-Field Magnetoresistance in (La _{0.7} Sr _{0.3} MnO ₃) _{0.5} :(ZnO) _{0.5} Self-Assembled Vertically Aligned Nanocomposite Thin Films. <i>Advanced Functional Materials</i> , 2011 , 21, 2423-2429	15.6	158
109	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. <i>Acta Materialia</i> , 2013 , 61, 2783-2792	8.4	132
108	Antiperovskite LiOCl Superionic Conductor Films for Solid-State Li-Ion Batteries. <i>Advanced Science</i> , 2016 , 3, 1500359	13.6	120
107	Li-rich anti-perovskite Li ₃ OCl films with enhanced ionic conductivity. <i>Chemical Communications</i> , 2014 , 50, 11520-2	5.8	95
106	Interfacial coupling in heteroepitaxial vertically aligned nanocomposite thin films: From lateral to vertical control. <i>Current Opinion in Solid State and Materials Science</i> , 2014 , 18, 6-18	12	87
105	Metal Oxide Nanocomposites: A Perspective from Strain, Defect, and Interface. <i>Advanced Materials</i> , 2019 , 31, e1803241	24	84
104	Erasing characteristics of Cu ₂ O metal-insulator-metal resistive switching memory. <i>Applied Physics Letters</i> , 2008 , 92, 013503	3.4	81
103	Conducting Interface in Oxide Homo Junction: Understanding of Superior Properties in Black TiO ₂ . <i>Nano Letters</i> , 2016 , 16, 5751-5	11.5	77
102	Strong oxygen pressure dependence of ferroelectricity in BaTiO ₃ /SrRuO ₃ /SrTiO ₃ epitaxial heterostructures. <i>Journal of Applied Physics</i> , 2013 , 114, 124101	2.5	76
101	Flexible Quasi-Two-Dimensional CoFeO Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. <i>ACS Nano</i> , 2017 , 11, 8002-8009	16.7	73
100	Role of scaffold network in controlling strain and functionalities of nanocomposite films. <i>Science Advances</i> , 2016 , 2, e1600245	14.3	70
99	A new class of room-temperature multiferroic thin films with bismuth-based supercell structure. <i>Advanced Materials</i> , 2013 , 25, 1028-32	24	66
98	Growth and characteristics of laser deposited anatase and rutile TiO ₂ films on Si substrates. <i>Thin Solid Films</i> , 2008 , 517, 745-749	2.2	66
97	Novel electroforming-free nanoscaffold memristor with very high uniformity, tunability, and density. <i>Advanced Materials</i> , 2014 , 26, 6284-9	24	62
96	Microstructure, magnetic, and low-field magnetotransport properties of self-assembled (La _{0.7} Sr _{0.3} MnO ₃) _{0.5} :(CeO ₂) _{0.5} vertically aligned nanocomposite thin films. <i>Nanotechnology</i> , 2011 , 22, 315712	3.4	59
95	Third-order optical nonlinearities in anatase and rutile TiO ₂ thin films. <i>Thin Solid Films</i> , 2009 , 517, 5601-5604	10.4	58

94	Growth of $\sim 5 \text{ cm}^2 \text{Vs}^{-1}$ mobility, p-type Copper(I) oxide (Cu ₂ O) films by fast atmospheric atomic layer deposition (AALD) at 225°C and below. <i>AIP Advances</i> , 2012 , 2, 042179	1.5	57
93	Structurally Defined 3D Nanographene Assemblies via Bottom-Up Chemical Synthesis for Highly Efficient Lithium Storage. <i>Advanced Materials</i> , 2016 , 28, 10250-10256	24	52
92	Integration of self-assembled vertically aligned nanocomposite (La _{0.7} Sr _{0.3} MnO ₃)(1-x):(ZnO) _x thin films on silicon substrates. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 3995-9	9.5	51
91	Nonlinear optical properties of laser deposited CuO thin films. <i>Thin Solid Films</i> , 2009 , 517, 4277-4280	2.2	48
90	Vertically aligned nanocomposite electrolytes with superior out-of-plane ionic conductivity for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2013 , 242, 455-463	8.9	47
89	Highly Ordered N-Doped Carbon Dots Photosensitizer on Metal-Organic Framework-Decorated ZnO Nanotubes for Improved Photoelectrochemical Water Splitting. <i>Small</i> , 2019 , 15, e1902771	11	43
88	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO ₃ :CoFe ₂ O ₄ vertically aligned nanocomposite thin films. <i>Applied Physics Letters</i> , 2014 , 104, 062402	3.4	42
87	Sharp semiconductor-to-metal transition of VO ₂ thin films on glass substrates. <i>Journal of Applied Physics</i> , 2013 , 114, 244301	2.5	40
86	Microstructural and magnetic properties of (La _{0.7} Sr _{0.3} MnO ₃) _{0.7} :(Mn ₃ O ₄) _{0.3} nanocomposite thin films. <i>Journal of Applied Physics</i> , 2011 , 109, 054302	2.5	40
85	Ferroelectric properties of vertically aligned nanostructured BaTiO ₃ -CeO ₂ thin films and their integration on silicon. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 12541-7	9.5	38
84	Oxygen Vacancy-Tuned Physical Properties in Perovskite Thin Films with Multiple B-site Valance States. <i>Scientific Reports</i> , 2017 , 7, 46184	4.9	37
83	Strong perpendicular exchange bias in epitaxial La(0.7)Sr(0.3)MnO ₃ :BiFeO ₃ nanocomposite films through vertical interfacial coupling. <i>Nanoscale</i> , 2015 , 7, 13808-15	7.7	37
82	Perpendicular Exchange-Biased Magnetotransport at the Vertical Heterointerfaces in La(0.7)Sr(0.3)MnO ₃ :NiO Nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 21646-51	9.5	37
81	Roles of grain boundaries on the semiconductor to metal phase transition of VO ₂ thin films. <i>Applied Physics Letters</i> , 2015 , 107, 102105	3.4	34
80	Vertical-interface-manipulated conduction behavior in nanocomposite oxide thin films. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 5356-61	9.5	33
79	Textured metastable VO ₂ (B) thin films on SrTiO ₃ substrates with significantly enhanced conductivity. <i>Applied Physics Letters</i> , 2014 , 104, 071909	3.4	33
78	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 20283-91	9.5	33
77	Electric-field control of ferromagnetism in a nanocomposite via a ZnO phase. <i>Nano Letters</i> , 2013 , 13, 5886-90	11.5	30

76	Optical limiting properties in copper oxide thin films under a high-repetition-rate femtosecond laser. <i>Materials Letters</i> , 2013 , 91, 319-322	3.3	30
75	Magnetotransport properties of quasi-one-dimensionally channeled vertically aligned heteroepitaxial nanomazes. <i>Applied Physics Letters</i> , 2013 , 102, 093114	3.4	30
74	Enhanced low-field magnetoresistance in La _{0.67} Sr _{0.33} MnO ₃ :MgO composite films. <i>Journal of Applied Physics</i> , 2011 , 110, 113913	2.5	30
73	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. <i>Scientific Reports</i> , 2014 , 4, 5426	4.9	29
72	Magnetic, electronic, and optical properties of double perovskite Bi ₂ FeMnO ₆ . <i>APL Materials</i> , 2017 , 5, 035601	5.7	28
71	Heterointerface design and strain tuning in epitaxial BiFeO ₃ :CoFe ₂ O ₄ nanocomposite films. <i>Applied Physics Letters</i> , 2015 , 107, 212901	3.4	25
70	Tilted Aligned Epitaxial La _{0.7} Sr _{0.3} MnO ₃ Nanocolumnar Films with Enhanced Low-Field Magnetoresistance by Pulsed Laser Oblique-Angle Deposition. <i>Crystal Growth and Design</i> , 2011 , 11, 5405-5409 ²⁵	3.5	25
69	Epitaxial thin films of pyrochlore iridate BiIrO: structure, defects and transport properties. <i>Scientific Reports</i> , 2017 , 7, 7740	4.9	24
68	Research Updates: Epitaxial strain relaxation and associated interfacial reconstructions: The driving force for creating new structures with integrated functionality. <i>APL Materials</i> , 2013 , 1, 050702	5.7	24
67	Excimer laser deposited CuO and Cu ₂ O films with third-order optical nonlinearities by femtosecond z-scan measurement. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 171-175	2.6	24
66	Role of boundaries on low-field magnetotransport properties of La _{0.7} Sr _{0.3} MnO ₃ -based nanocomposite thin films. <i>Journal of Materials Research</i> , 2013 , 28, 1707-1714	2.5	21
65	Very high commutation quality factor and dielectric tunability in nanocomposite SrTiO thin films with T enhanced to >300 °C. <i>Nanoscale</i> , 2018 , 10, 3460-3468	7.7	20
64	Vertical Interface Induced Dielectric Relaxation in Nanocomposite (BaTiO ₃) _{1-x} :(Sm ₂ O ₃) _x Thin Films. <i>Scientific Reports</i> , 2015 , 5, 11335	4.9	20
63	Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16845-51	9.5	19
62	Femtosecond Z-scan measurement of third-order optical nonlinearities in anatase TiO ₂ thin films. <i>Optics Communications</i> , 2009 , 282, 1815-1818	2	19
61	Oxygen content tailored magnetic and electronic properties in cobaltite double perovskite thin films. <i>Applied Physics Letters</i> , 2017 , 110, 093102	3.4	18
60	Novel Layered Supercell Structure from BiAlMnO for Multifunctionalities. <i>Nano Letters</i> , 2017 , 17, 6575-6583	5.8	18
59	Enhanced ion irradiation tolerance properties in TiN/MgO nanolayer films. <i>Journal of Nuclear Materials</i> , 2013 , 434, 217-222	3.3	18

58	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. <i>Advanced Functional Materials</i> , 2020 , 30, 2000664	15.6	18
57	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. <i>Advanced Materials</i> , 2017 , 29, 1700672	24	17
56	Strain and interface effects in a novel bismuth-based self-assembled supercell structure. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 11631-6	9.5	17
55	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. <i>Advanced Science</i> , 2019 , 6, 1901000	13.6	17
54	Highly textured Li(Ni _{0.5} Mn _{0.3} Co _{0.2})O ₂ thin films on stainless steel as cathode for lithium-ion battery. <i>Journal of Power Sources</i> , 2013 , 241, 410-414	8.9	17
53	Colossal Terahertz Magnetoresistance at Room Temperature in Epitaxial LaSrMnO Nanocomposites and Single-Phase Thin Films. <i>Nano Letters</i> , 2017 , 17, 2506-2511	11.5	16
52	Roles of strain and domain boundaries on the phase transition stability of VO ₂ thin films. <i>Applied Physics Letters</i> , 2017 , 111, 153102	3.4	16
51	Tunable flux pinning landscapes achieved by functional ferromagnetic Fe ₂ O ₃ :CeO ₂ vertically aligned nanocomposites in YBa ₂ Cu ₃ O _{7-δ} thin films. <i>Physica C: Superconductivity and Its Applications</i> , 2015 , 510, 13-20	1.3	15
50	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. <i>Advanced Science</i> , 2020 , 7, 1901606	13.6	15
49	Oxygen vacancy-driven evolution of structural and electrical properties in SrFeO ₃ thin films and a method of stabilization. <i>Applied Physics Letters</i> , 2016 , 109, 141906	3.4	15
48	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. <i>Advanced Functional Materials</i> , 2019 , 29, 1900442	15.6	14
47	Manipulating leakage behavior via distribution of interfaces in oxide thin films. <i>Applied Physics Letters</i> , 2014 , 105, 072907	3.4	14
46	Ferroelectric Sm-doped BiMnO ₃ thin films with ferromagnetic transition temperature enhanced to 140 K. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 14836-43	9.5	13
45	Semicoherent oxide heterointerfaces: Structure, properties, and implications. <i>APL Materials</i> , 2019 , 7, 100904	5.7	12
44	Enhanced Flux Pinning Properties in Self-Assembled Magnetic CoFe_2O_4 Nanoparticles Doped $\text{YBa}_2\text{Cu}_3\text{O}_{7-\delta}$ Thin Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 8001204-8001204	1.8	12
43	Field-dependent magnetization of BiFeO ₃ in an ultrathin La _{0.7} Sr _{0.3} MnO ₃ /BiFeO ₃ superlattice. <i>Physical Review B</i> , 2015 , 92,	3.3	12
42	Effects of interlayer thickness on the electrochemical and mechanical properties of bi-layer cathodes for solid oxide fuel cells. <i>Journal of Power Sources</i> , 2012 , 218, 261-267	8.9	12
41	Enhanced flux pinning properties in superconducting FeSe _{0.5} Te _{0.5} thin films with secondary phases. <i>Superconductor Science and Technology</i> , 2012 , 25, 025020	3.1	12

40	Interface-Coupled BiFeO ₃ /BiMnO ₃ Superlattices with Magnetic Transition Temperature up to 410 K. <i>Advanced Materials Interfaces</i> , 2016 , 3, 1500597	4.6	11
39	Site-mixing effect on the XMCD spectrum in double perovskite Bi ₂ FeMnO ₆ . <i>Applied Physics Letters</i> , 2016 , 108, 242907	3.4	11
38	Femtosecond laser deposited zinc oxide film and its optical properties. <i>Vacuum</i> , 2009 , 83, 892-896	3.7	11
37	Enhanced electrochemical properties of Bi-layer La _{0.5} Sr _{0.5} CoO ₃ cathode prepared by a hybrid method. <i>Electrochimica Acta</i> , 2011 , 56, 3969-3974	6.7	11
36	Strain charge mediated magnetoelectric coupling across the magnetic oxide/ferroelectric interfaces.. <i>RSC Advances</i> , 2019 , 9, 13033-13041	3.7	10
35	Enhanced magnetism in lightly doped manganite heterostructures: strain or stoichiometry?. <i>Nanoscale</i> , 2019 , 11, 7364-7370	7.7	10
34	Enhanced nucleation of germanium on graphene via dipole engineering. <i>Nanoscale</i> , 2018 , 10, 5689-5694	7.7	9
33	Influence of SrTiO ₃ substrate miscut angle on the transport properties of LaAlO ₃ /SrTiO ₃ interfaces. <i>Applied Physics Letters</i> , 2011 , 99, 022103	3.4	9
32	Structural and Optical Properties of Phase-Pure UO ₂ , δ UO ₂ , and ϵ UO ₂ Epitaxial Thin Films Grown by Pulsed Laser Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 35232-35241	9.5	9
31	Magnetic Texture in Insulating Single Crystal High Entropy Oxide Spinel Films. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 17971-17977	9.5	9
30	Modification of structure and magnetic anisotropy of epitaxial CoFe ₂ O ₄ films by hydrogen reduction. <i>Applied Physics Letters</i> , 2015 , 106, 111907	3.4	8
29	Magnetic and tunable dielectric properties of DyCrO ₃ thin films. <i>Journal of Materials Science</i> , 2019 , 54, 8984-8994	4.3	7
28	Role of temperature and oxygen content on structural and electrical properties of LaBaCoO thin films. <i>Applied Physics Letters</i> , 2018 , 112, 073905	3.4	7
27	Stabilizing new bismuth compounds in thin film form. <i>Journal of Materials Research</i> , 2016 , 31, 3530-3537	2.5	7
26	Growth and Pinning Properties of Superconducting Nanostructured $\text{FeSe}_{0.5}\text{Te}_{0.5}$ Thin Films on Amorphous Substrates. <i>IEEE Transactions on Applied Superconductivity</i> , 2013 , 23, 7500904-7500904	1.8	6
25	Induced ferroelectric phases in SrTiO by a nanocomposite approach. <i>Nanoscale</i> , 2020 , 12, 18193-18199	7.7	6
24	Interfacial-Strain-Controlled Ferroelectricity in Self-Assembled BiFeO ₃ Nanostructures. <i>Advanced Functional Materials</i> , 2021 , 31, 2102311	15.6	6
23	Glassy Dynamics in a heavy ion irradiated NbSe crystal. <i>Scientific Reports</i> , 2018 , 8, 13162	4.9	6

22	Substrate oxygen sponge effect: A parameter for epitaxial manganite thin film growth. <i>Applied Physics Letters</i> , 2020 , 117, 151601	3.4	5
21	Atomic-Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Long-Range Tuning of BO ₆ Octahedra. <i>Advanced Functional Materials</i> , 2020 , 30, 2001984	15.6	5
20	Upper limit for the effect of elastic bending stress on the saturation magnetization of La _{0.8} Sr _{0.2} MnO ₃ . <i>Physical Review B</i> , 2018 , 97,	3.3	4
19	Interfacial Engineering Enabled Novel Bi-Based Layered Oxide Supercells with Modulated Microstructures and Tunable Physical Properties. <i>Crystal Growth and Design</i> , 2019 , 19, 7088-7095	3.5	4
18	Superconducting properties of Fe ₅ Te _{1-x} thin film with a composition close to antiferromagnetic ordering. <i>Superconductor Science and Technology</i> , 2013 , 26, 112001	3.1	4
17	Enhanced magnetocaloric performance in manganite bilayers. <i>Journal of Applied Physics</i> , 2020 , 127, 154103	10.3	4
16	High performance, electroforming-free, thin film memristors using ionic Na _{0.5} Bi _{0.5} TiO ₃ . <i>Journal of Materials Chemistry C</i> , 2021 , 9, 4522-4531	7.1	4
15	A pathway to desired functionalities in vertically aligned nanocomposites and related architectures. <i>MRS Bulletin</i> , 2021 , 46, 115-122	3.2	4
14	Nanoscale magnetization inhomogeneity within single phase nanopillars. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
13	Anisotropic domains and antiferrodistortive-transition controlled magnetization in epitaxial manganite films on vicinal SrTiO ₃ substrates. <i>Applied Physics Letters</i> , 2020 , 117, 081903	3.4	3
12	Epitaxial Stabilization of Single-Crystal Multiferroic YCrO Thin Films. <i>Nanomaterials</i> , 2020 , 10,	5.4	2
11	Epitaxial growth and physical properties of ternary nitride thin films by polymer-assisted deposition. <i>Applied Physics Letters</i> , 2016 , 109, 081907	3.4	2
10	Tuning magnetic and optical properties through strain in epitaxial LaCrO ₃ thin films. <i>Applied Physics Letters</i> , 2021 , 119, 071902	3.4	2
9	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. <i>Advanced Electronic Materials</i> , 2101392	6.4	2
8	Unraveling thickness-dependent spin relaxation in colossal magnetoresistance manganite films. <i>Applied Physics Letters</i> , 2018 , 113, 012402	3.4	1
7	Functional Oxide Thin Films and Nanostructures: Growth, Interface, and Applications. <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-2	3.2	1
6	Symmetry mismatch controlled ferroelastic domain ordering and the functional properties of manganite films on cubic miscut substrates. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 16623-16628	3.6	1
5	Metallic interface induced by electronic reconstruction in crystalline-amorphous bilayer oxide films. <i>Science Bulletin</i> , 2019 , 64, 1567-1572	10.6	0

- 4 Effect of lattice strain on magnetism in epitaxial YCrO₃ films. *Materials Research Letters*, **2022**, 10, 29-35 7.4 ○
- 3 Enhanced van der Waals epitaxy of germanium by out-of-plane dipole moment induced from transferred graphene on TiN/AlN multilayers. *Journal of Applied Physics*, **2021**, 130, 205301 2.5 ○
- 2 In-situ irradiation-induced studies of grain growth kinetics of nanocrystalline UO₂. *Acta Materialia*, **2022**, 231, 117856 8.4 ○
- 1 The Role of Oxygen Transfer in Oxide Heterostructures on Functional Properties. *Advanced Materials Interfaces*, 2101867 4.6