A P Chen

List of Publications by Year in Descending Order

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	Effect of lattice strain on magnetism in epitaxial YCrO3 films. *Materials Research Letters*, **2022**, 10, 29-35	7.4	0
110	In-situ irradiation-induced studies of grain growth kinetics of nanocrystalline UO2. *Acta Materialia*, **2022**, 231, 117856	8.4	0
109	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	0
108	Magnetic Texture in Insulating Single Crystal High Entropy Oxide Spinel Films. *ACS Applied Materials & Interfaces*, **2021**, 13, 17971-17977	9.5	9
107	Interfacial-Strain-Controlled Ferroelectricity in Self-Assembled BiFeO3 Nanostructures. *Advanced Functional Materials*, **2021**, 31, 2102311	15.6	6
106	High performance, electroforming-free, thin film memristors using ionic Na0.5Bi0.5TiO3. *Journal of Materials Chemistry C*, **2021**, 9, 4522-4531	7.1	4
105	Symmetry mismatch controlled ferroelastic domain ordering and the functional properties of manganite films on cubic miscut substrates. *Physical Chemistry Chemical Physics*, **2021**, 23, 16623-16628	3.6	1
104	A pathway to desired functionalities in vertically aligned nanocomposites and related architectures. *MRS Bulletin*, **2021**, 46, 115-122	3.2	4
103	Tuning magnetic and optical properties through strain in epitaxial LaCrO3 thin films. *Applied Physics Letters*, **2021**, 119, 071902	3.4	2
102	Substrate oxygen sponge effect: A parameter for epitaxial manganite thin film growth. *Applied Physics Letters*, **2020**, 117, 151601	3.4	5
101	Epitaxial Stabilization of Single-Crystal Multiferroic YCrO Thin Films. *Nanomaterials*, **2020**, 10,	5.4	2
100	Interface Engineered Room-Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. *Advanced Science*, **2020**, 7, 1901606	13.6	15
99	Structural and Optical Properties of Phase-Pure UO, UO, and UO Epitaxial Thin Films Grown by Pulsed Laser Deposition. *ACS Applied Materials & Interfaces*, **2020**, 12, 35232-35241	9.5	9
98	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
97	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. *Advanced Functional Materials*, **2020**, 30, 2000664	15.6	18
96	Anisotropic domains and antiferrodistortive-transition controlled magnetization in epitaxial manganite films on vicinal SrTiO3 substrates. *Applied Physics Letters*, **2020**, 117, 081903	3.4	3
95	Induced ferroelectric phases in SrTiO by a nanocomposite approach. *Nanoscale*, **2020**, 12, 18193-18199	7.7	6

94	Enhanced magnetocaloric performance in manganite bilayers. *Journal of Applied Physics*, **2020**, 127, 154102	2.5	4
93	Strain charge mediated magnetoelectric coupling across the magnetic oxide/ferroelectric interfaces.. *RSC Advances*, **2019**, 9, 13033-13041	3.7	10
92	Enhanced magnetism in lightly doped manganite heterostructures: strain or stoichiometry?. *Nanoscale*, **2019**, 11, 7364-7370	7.7	10
91	Magnetic and tunable dielectric properties of DyCrO3 thin films. *Journal of Materials Science*, **2019**, 54, 8984-8994	4.3	7
90	Strain Enhanced Functionality in a Bottom-Up Approach Enabled 3D Super-Nanocomposites. *Advanced Functional Materials*, **2019**, 29, 1900442	15.6	14
89	Highly Ordered N-Doped Carbon Dots Photosensitizer on Metal-Organic Framework-Decorated ZnO Nanotubes for Improved Photoelectrochemical Water Splitting. *Small*, **2019**, 15, e1902771	11	43
88	Competing Interface and Bulk Effect-Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. *Advanced Science*, **2019**, 6, 1901000	13.6	17
87	Semicoherent oxide heterointerfaces: Structure, properties, and implications. *APL Materials*, **2019**, 7, 100904	5.7	12
86	Interfacial Engineering Enabled Novel Bi-Based Layered Oxide Supercells with Modulated Microstructures and Tunable Physical Properties. *Crystal Growth and Design*, **2019**, 19, 7088-7095	3.5	4
85	Metallic interface induced by electronic reconstruction in crystalline-amorphous bilayer oxide films. *Science Bulletin*, **2019**, 64, 1567-1572	10.6	0
84	Nanoscale magnetization inhomogeneity within single phase nanopillars. *Physical Review Materials*, **2019**, 3,	3.2	3
83	Metal Oxide Nanocomposites: A Perspective from Strain, Defect, and Interface. *Advanced Materials*, **2019**, 31, e1803241	24	84
82	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
81	Role of temperature and oxygen content on structural and electrical properties of LaBaCoO thin films. *Applied Physics Letters*, **2018**, 112, 073905	3.4	7
80	Enhanced nucleation of germanium on graphene via dipole engineering. *Nanoscale*, **2018**, 10, 5689-5694	7.7	9
79	Upper limit for the effect of elastic bending stress on the saturation magnetization of La0.8Sr0.2MnO3. *Physical Review B*, **2018**, 97,	3.3	4
78	Unraveling thickness-dependent spin relaxation in colossal magnetoresistance manganite films. *Applied Physics Letters*, **2018**, 113, 012402	3.4	1
77	Glassy Dynamics in a heavy ion irradiated NbSe crystal. *Scientific Reports*, **2018**, 8, 13162	4.9	6

76	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. *Advanced Materials*, **2017**, 29, 1700672	24	17
75	Oxygen Vacancy-Tuned Physical Properties in Perovskite Thin Films with Multiple B-site Valance States. *Scientific Reports*, **2017**, 7, 46184	4.9	37
74	Oxygen content tailored magnetic and electronic properties in cobaltite double perovskite thin films. *Applied Physics Letters*, **2017**, 110, 093102	3.4	18
73	Colossal Terahertz Magnetoresistance at Room Temperature in Epitaxial LaSrMnO Nanocomposites and Single-Phase Thin Films. *Nano Letters*, **2017**, 17, 2506-2511	11.5	16
72	Magnetic, electronic, and optical properties of double perovskite Bi2FeMnO6. *APL Materials*, **2017**, 5, 035601	5.7	28
71	Novel Layered Supercell Structure from BiAlMnO for Multifunctionalities. *Nano Letters*, **2017**, 17, 6575-6582	11.5	18
70	Epitaxial thin films of pyrochlore iridate BiIrO: structure, defects and transport properties. *Scientific Reports*, **2017**, 7, 7740	4.9	24
69	Roles of strain and domain boundaries on the phase transition stability of VO2 thin films. *Applied Physics Letters*, **2017**, 111, 153102	3.4	16
68	Flexible Quasi-Two-Dimensional CoFeO Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. *ACS Nano*, **2017**, 11, 8002-8009	16.7	73
67	Interface-Coupled BiFeO3/BiMnO3 Superlattices with Magnetic Transition Temperature up to 410 K. *Advanced Materials Interfaces*, **2016**, 3, 1500597	4.6	11
66	Role of scaffold network in controlling strain and functionalities of nanocomposite films. *Science Advances*, **2016**, 2, e1600245	14.3	70
65	Site-mixing effect on the XMCD spectrum in double perovskite Bi2FeMnO6. *Applied Physics Letters*, **2016**, 108, 242907	3.4	11
64	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
63	Antiperovskite LiOCl Superionic Conductor Films for Solid-State Li-Ion Batteries. *Advanced Science*, **2016**, 3, 1500359	13.6	120
62	Functional Oxide Thin Films and Nanostructures: Growth, Interface, and Applications. *Journal of Nanomaterials*, **2016**, 2016, 1-2	3.2	1
61	Stabilizing new bismuth compounds in thin film form. *Journal of Materials Research*, **2016**, 31, 3530-3537	2.5	7
60	Epitaxial growth and physical properties of ternary nitride thin films by polymer-assisted deposition. *Applied Physics Letters*, **2016**, 109, 081907	3.4	2
59	Oxygen vacancy-driven evolution of structural and electrical properties in SrFeO3−δ thin films and a method of stabilization. *Applied Physics Letters*, **2016**, 109, 141906	3.4	15

58	Structurally Defined 3D Nanographene Assemblies via Bottom-Up Chemical Synthesis for Highly Efficient Lithium Storage. *Advanced Materials*, **2016**, 28, 10250-10256	24	52
57	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO2. *Nano Letters*, **2016**, 16, 5751-5	11.5	77
56	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
55	Strain and interface effects in a novel bismuth-based self-assembled supercell structure. *ACS Applied Materials & Interfaces*, **2015**, 7, 11631-6	9.5	17
54	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
53	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
52	Field-dependent magnetization of BiFeO3 in an ultrathin La0.7Sr0.3MnO3/BiFeO3 superlattice. *Physical Review B*, **2015**, 92,	3.3	12
51	Heterointerface design and strain tuning in epitaxial BiFeO3:CoFe2O4 nanocomposite films. *Applied Physics Letters*, **2015**, 107, 212901	3.4	25
50	Vertical Interface Induced Dielectric Relaxation in Nanocomposite (BaTiO3)1-x:(Sm2O3)x Thin Films. *Scientific Reports*, **2015**, 5, 11335	4.9	20
49	Roles of grain boundaries on the semiconductor to metal phase transition of VO2 thin films. *Applied Physics Letters*, **2015**, 107, 102105	3.4	34
48	Modification of structure and magnetic anisotropy of epitaxial CoFe2O4 films by hydrogen reduction. *Applied Physics Letters*, **2015**, 106, 111907	3.4	8
47	Tunable flux pinning landscapes achieved by functional ferromagnetic Fe2O3:CeO2 vertically aligned nanocomposites in YBa2Cu3O7−δ thin films. *Physica C: Superconductivity and Its Applications*, **2015**, 510, 13-20	1.3	15
46	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. *Scientific Reports*, **2014**, 4, 5426	4.9	29
45	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
44	Li-rich anti-perovskite Li3OCl films with enhanced ionic conductivity. *Chemical Communications*, **2014**, 50, 11520-2	5.8	95
43	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
42	Vertical-interface-manipulated conduction behavior in nanocomposite oxide thin films. *ACS Applied Materials & Interfaces*, **2014**, 6, 5356-61	9.5	33
41	Novel electroforming-free nanoscaffold memristor with very high uniformity, tunability, and density. *Advanced Materials*, **2014**, 26, 6284-9	24	62

40	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO3:CoFe2O4 vertically aligned nanocomposite thin films. *Applied Physics Letters*, **2014**, 104, 062402	3.4	42
39	Manipulating leakage behavior via distribution of interfaces in oxide thin films. *Applied Physics Letters*, **2014**, 105, 072907	3.4	14
38	Textured metastable VO2 (B) thin films on SrTiO3 substrates with significantly enhanced conductivity. *Applied Physics Letters*, **2014**, 104, 071909	3.4	33
37	Vertically aligned nanocomposite electrolytes with superior out-of-plane ionic conductivity for solid oxide fuel cells. *Journal of Power Sources*, **2013**, 242, 455-463	8.9	47
36	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. *Acta Materialia*, **2013**, 61, 2783-2792	8.4	132
35	Electric-field control of ferromagnetism in a nanocomposite via a ZnO phase. *Nano Letters*, **2013**, 13, 5886-90	11.5	30
34	Strong oxygen pressure dependence of ferroelectricity in BaTiO3/SrRuO3/SrTiO3 epitaxial heterostructures. *Journal of Applied Physics*, **2013**, 114, 124101	2.5	76
33	Growth and Pinning Properties of Superconducting Nanostructured $hbox{FeSe}_{0.5}hbox{Te}_{0.5}$ Thin Films on Amorphous Substrates. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 7500904-7500904	1.8	6
32	Enhanced Flux Pinning Properties in Self-Assembled Magnetic $hbox{CoFe}_{2}hbox{O}_{4}$ Nanoparticles Doped $ hbox{YBa}_{2}hbox{Cu}_{3}hbox{O}_{7 - delta}$ Thin Films. *IEEE Transactions on Applied Superconductivity*, **2013**, 23, 8001204-8001204	1.8	12
31	Highly textured Li(Ni0.5Mn0.3Co0.2)O2 thin films on stainless steel as cathode for lithium-ion battery. *Journal of Power Sources*, **2013**, 241, 410-414	8.9	17
30	Enhanced ion irradiation tolerance properties in TiN/MgO nanolayer films. *Journal of Nuclear Materials*, **2013**, 434, 217-222	3.3	18
29	A new class of room-temperature multiferroic thin films with bismuth-based supercell structure. *Advanced Materials*, **2013**, 25, 1028-32	24	66
28	Integration of self-assembled vertically aligned nanocomposite (La0.7Sr0.3MnO3)(1-x):(ZnO)x thin films on silicon substrates. *ACS Applied Materials & Interfaces*, **2013**, 5, 3995-9	9.5	51
27	Optical limiting properties in copper oxide thin films under a high-repetition-rate femtosecond laser. *Materials Letters*, **2013**, 91, 319-322	3.3	30
26	Ferroelectric properties of vertically aligned nanostructured BaTiO3-CeO2 thin films and their integration on silicon. *ACS Applied Materials & Interfaces*, **2013**, 5, 12541-7	9.5	38
25	Role of boundaries on low-field magnetotransport properties of La0.7Sr0.3MnO3-based nanocomposite thin films. *Journal of Materials Research*, **2013**, 28, 1707-1714	2.5	21
24	Superconducting properties of FeSexTe1−x thin film with a composition close to antiferromagnetic ordering. *Superconductor Science and Technology*, **2013**, 26, 112001	3.1	4
23	Magnetotransport properties of quasi-one-dimensionally channeled vertically aligned heteroepitaxial nanomazes. *Applied Physics Letters*, **2013**, 102, 093114	3.4	30

22	Sharp semiconductor-to-metal transition of VO2 thin films on glass substrates. *Journal of Applied Physics*, **2013**, 114, 244301	2.5	40
21	Research Updates: Epitaxial strain relaxation and associated interfacial reconstructions: The driving force for creating new structures with integrated functionality. *APL Materials*, **2013**, 1, 050702	5.7	24
20	Effects of interlayer thickness on the electrochemical and mechanical properties of bi-layer cathodes for solid oxide fuel cells. *Journal of Power Sources*, **2012**, 218, 261-267	8.9	12
19	Enhanced flux pinning properties in superconducting FeSe0.5Te0.5thin films with secondary phases. *Superconductor Science and Technology*, **2012**, 25, 025020	3.1	12
18	Growth of ~5 cm2V−1s−1 mobility, p-type Copper(I) oxide (Cu2O) films by fast atmospheric atomic layer deposition (AALD) at 225 °C and below. *AIP Advances*, **2012**, 2, 042179	1.5	57
17	Microstructure, magnetic, and low-field magnetotransport properties of self-assembled (La0.7Sr0.3MnO3)0.5:(CeO2)0.5 vertically aligned nanocomposite thin films. *Nanotechnology*, **2011**, 22, 315712	3.4	59
16	Microstructural and magnetic properties of (La0.7Sr0.3MnO3)0.7:(Mn3O4)0.3 nanocomposite thin films. *Journal of Applied Physics*, **2011**, 109, 054302	2.5	40
15	Excimer laser deposited CuO and Cu2O films with third-order optical nonlinearities by femtosecond z-scan measurement. *Applied Physics A: Materials Science and Processing*, **2011**, 104, 171-175	2.6	24
14	Tunable Low-Field Magnetoresistance in (La0.7Sr0.3MnO3)0.5:(ZnO)0.5 Self-Assembled Vertically Aligned Nanocomposite Thin Films. *Advanced Functional Materials*, **2011**, 21, 2423-2429	15.6	158
13	Tilted Aligned Epitaxial La0.7Sr0.3MnO3 Nanocolumnar Films with Enhanced Low-Field Magnetoresistance by Pulsed Laser Oblique-Angle Deposition. *Crystal Growth and Design*, **2011**, 11, 5405-5409	4.5	25
12	Enhanced electrochemical properties of Bi-layer La0.5Sr0.5CoO3−δ cathode prepared by a hybrid method. *Electrochimica Acta*, **2011**, 56, 3969-3974	6.7	11
11	Enhanced low-field magnetoresistance in La0.67Sr0.33MnO3:MgO composite films. *Journal of Applied Physics*, **2011**, 110, 113913	2.5	30
10	Influence of SrTiO3 substrate miscut angle on the transport properties of LaAlO3/SrTiO3 interfaces. *Applied Physics Letters*, **2011**, 99, 022103	3.4	9
9	Nonlinear optical properties of laser deposited CuO thin films. *Thin Solid Films*, **2009**, 517, 4277-4280	2.2	48
8	Third-order optical nonlinearities in anatase and rutile TiO2 thin films. *Thin Solid Films*, **2009**, 517, 5601-5604	2.2	58
7	Femtosecond Z-scan measurement of third-order optical nonlinearities in anatase TiO2 thin films. *Optics Communications*, **2009**, 282, 1815-1818	2	19
6	Femtosecond laser deposited zinc oxide film and its optical properties. *Vacuum*, **2009**, 83, 892-896	3.7	11
5	Controlled growth and characteristics of single-phase Cu2O and CuO films by pulsed laser deposition. *Vacuum*, **2009**, 83, 927-930	3.7	189

4	Erasing characteristics of Cu2O metal-insulator-metal resistive switching memory. *Applied Physics Letters*, **2008**, 92, 013503	3.4	81
3	Growth and characteristics of laser deposited anatase and rutile TiO2 films on Si substrates. *Thin Solid Films*, **2008**, 517, 745-749	2.2	66
2	The Role of Oxygen Transfer in Oxide Heterostructures on Functional Properties. *Advanced Materials Interfaces*,2101867	4.6	
1	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. *Advanced Electronic Materials*,2101392	6.4	2