A P Chen

List of Publications by Year
in descending order

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Version: 2024-02-01

115	4,064	101384	133063
papers	citations	36 h-index	59 g-index

119	119	119	4982
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Controlled growth and characteristics of single-phase Cu2O and CuO films by pulsed laser deposition. Vacuum, 2009, 83, 927-930.	1.6	228
2	Tunable Lowâ€Field Magnetoresistance in (La_{0.7}Sr_{0.3}MnO₃)_{0.5}:(ZnO)_{0.5} Selfâ€Assembled Vertically Aligned Nanocomposite Thin Films. Advanced Functional Materials, 2011, 21, 2423-2429.	7.8	174
3	Antiperovskite Li₃OCl Superionic Conductor Films for Solidâ€State Liâ€Ion Batteries. Advanced Science, 2016, 3, 1500359.	5.6	162
4	Microstructure, vertical strain control and tunable functionalities in self-assembled, vertically aligned nanocomposite thin films. Acta Materialia, 2013, 61, 2783-2792.	3.8	153
5	Li-rich anti-perovskite Li₃OCl films with enhanced ionic conductivity. Chemical Communications, 2014, 50, 11520-11522.	2.2	130
6	Metal Oxide Nanocomposites: A Perspective from Strain, Defect, and Interface. Advanced Materials, 2019, 31, e1803241.	11.1	119
7	Flexible Quasi-Two-Dimensional CoFe₂O₄ Epitaxial Thin Films for Continuous Strain Tuning of Magnetic Properties. ACS Nano, 2017, 11, 8002-8009.	7.3	111
8	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.	5.6	98
9	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO₂. Nano Letters, 2016, 16, 5751-5755.	4.5	92
10	Strong oxygen pressure dependence of ferroelectricity in BaTiO3/SrRuO3/SrTiO3 epitaxial heterostructures. Journal of Applied Physics, 2013, 114, .	1.1	88
11	Erasing characteristics of Cu2O metal-insulator-metal resistive switching memory. Applied Physics Letters, 2008, 92, .	1.5	86
12	Role of scaffold network in controlling strain and functionalities of nanocomposite films. Science Advances, 2016, 2, e1600245.	4.7	80
13	A New Class of Roomâ€Temperature Multiferroic Thin Films with Bismuthâ€Based Supercell Structure. Advanced Materials, 2013, 25, 1028-1032.	11.1	78
14	Growth and characteristics of laser deposited anatase and rutile TiO2 films on Si substrates. Thin Solid Films, 2008, 517, 745-749.	0.8	76
15	Novel Electroformingâ€Free Nanoscaffold Memristor with Very High Uniformity, Tunability, and Density. Advanced Materials, 2014, 26, 6284-6289.	11.1	75
16	Structurally Defined 3D Nanographene Assemblies via Bottomâ€Up Chemical Synthesis for Highly Efficient Lithium Storage. Advanced Materials, 2016, 28, 10250-10256.	11.1	72
17	Third-order optical nonlinearities in anatase and rutile TiO2 thin films. Thin Solid Films, 2009, 517, 5601-5604.	0.8	71
18	Microstructure, magnetic, and low-field magnetotransport properties of self-assembled (La_{0.7}Sr_{0.3}MnO₃)_{0.5}:(CeO₂)_{0.5} vertically aligned nanocomposite thin films. Nanotechnology, 2011, 22, 315712.	1.8	70

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19	Growth of â^¼45 cm2Vâ^'1sâ^'1 mobility, p-type Copper(I) oxide (Cu2O) films by fast atmospheric atomic layer deposition (AALD) at 225Â°C and below. AIP Advances, 2012, 2, .	0.6	69
20	Highly Ordered Nâ€Ðoped Carbon Dots Photosensitizer on Metalâ€"Organic Frameworkâ€Ðecorated ZnO Nanotubes for Improved Photoelectrochemical Water Splitting. Small, 2019, 15, e1902771.	5.2	66
21	Nonlinear optical properties of laser deposited CuO thin films. Thin Solid Films, 2009, 517, 4277-4280.	0.8	59
22	Integration of Self-Assembled Vertically Aligned Nanocomposite (La_{0.7}Sr_{0.3}MnO₃)_{1â€"x}:(ZnO)_x Thin Films on Silicon Substrates. ACS Applied Materials & Interfaces, 2013, 5, 3995-3999.	4.0	58
23	Vertically aligned nanocomposite electrolytes with superior out-of-plane ionic conductivity for solid oxide fuel cells. Journal of Power Sources, 2013, 242, 455-463.	4.0	52
24	Sharp semiconductor-to-metal transition of VO2 thin films on glass substrates. Journal of Applied Physics, 2013, 114, .	1.1	52
25	Couplings of Polarization with Interfacial Deep Trap and Schottky Interface Controlled Ferroelectric Memristive Switching. Advanced Functional Materials, 2020, 30, 2000664.	7.8	50
26	Oxygen Vacancy-Tuned Physical Properties in Perovskite Thin Films with Multiple B-site Valance States. Scientific Reports, 2017, 7, 46184.	1.6	49
27	Roles of grain boundaries on the semiconductor to metal phase transition of VO2 thin films. Applied Physics Letters, 2015, 107, .	1.5	48
28	Ferroelectric Properties of Vertically Aligned Nanostructured BaTiO₃â€"CeO₂ Thin Films and Their Integration on Silicon. ACS Applied Materials & Interfaces, 2013, 5, 12541-12547.	4.0	47
29	Strain relaxation and enhanced perpendicular magnetic anisotropy in BiFeO3:CoFe2O4 vertically aligned nanocomposite thin films. Applied Physics Letters, 2014, 104, .	1.5	45
30	Microstructural and magnetic properties of (La0.7Sr0.3MnO3)0.7:(Mn3O4)0.3 nanocomposite thin films. Journal of Applied Physics, 2011, 109, .	1.1	44
31	Vertical-Interface-Manipulated Conduction Behavior in Nanocomposite Oxide Thin Films. ACS Applied Materials & Interfaces, 2014, 6, 5356-5361.	4.0	43
32	Strong perpendicular exchange bias in epitaxial La_{0.7}Sr_{0.3}MnO₃:BiFeO₃nanocomposite films through vertical interfacial coupling. Nanoscale, 2015, 7, 13808-13815.	2.8	43
33	Textured metastable VO2 (B) thin films on SrTiO3 substrates with significantly enhanced conductivity. Applied Physics Letters, 2014, 104, .	1.5	41
34	Perpendicular Exchange-Biased Magnetotransport at the Vertical Heterointerfaces in La_{0.7}Sr_{0.3}MnO₃:NiO Nanocomposites. ACS Applied Materials & Interfaces, 2015, 7, 21646-21651.	4.0	40
35	Self-Assembled Magnetic Metallic Nanopillars in Ceramic Matrix with Anisotropic Magnetic and Electrical Transport Properties. ACS Applied Materials & Interfaces, 2016, 8, 20283-20291.	4.0	39
36	Magnetic, electronic, and optical properties of double perovskite Bi2FeMnO6. APL Materials, 2017, 5, .	2.2	38

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37	Enhanced low-field magnetoresistance in La0.67Sr0.33MnO3:MgO composite films. Journal of Applied Physics, 2011, 110, .	1.1	36
38	Optical limiting properties in copper oxide thin films under a high-repetition-rate femtosecond laser. Materials Letters, 2013, 91, 319-322.	1.3	35
39	Magnetotransport properties of quasi-one-dimensionally channeled vertically aligned heteroepitaxial nanomazes. Applied Physics Letters, 2013, 102, .	1.5	34
40	Electric-Field Control of Ferromagnetism in a Nanocomposite via a ZnO Phase. Nano Letters, 2013, 13, 5886-5890.	4.5	33
41	Evolution of microstructure, strain and physical properties in oxide nanocomposite films. Scientific Reports, 2014, 4, 5426.	1.6	33
42	Research Updates: Epitaxial strain relaxation and associated interfacial reconstructions: The driving force for creating new structures with integrated functionality. APL Materials, 2013, 1, .	2.2	29
43	Epitaxial thin films of pyrochlore iridate Bi2+xIr2-yO7-Î´: structure, defects and transport properties. Scientific Reports, 2017, 7, 7740.	1.6	29
44	Heterointerface design and strain tuning in epitaxial BiFeO3:CoFe2O4 nanocomposite films. Applied Physics Letters, 2015, 107, .	1.5	27
45	Structural and Optical Properties of Phase-Pure UO₂, Î±-U₃O₈, and Î±-UO₃ Epitaxial Thin Films Grown by Pulsed Laser Deposition. ACS Applied Materials & Interfaces, 2020, 12, 35232-35241.	4.0	27
46	Tilted Aligned Epitaxial La_{0.7}Sr_{0.3}MnO₃ Nanocolumnar Films with Enhanced Low-Field Magnetoresistance by Pulsed Laser Oblique-Angle Deposition. Crystal Growth and Design, 2011, 11, 5405-5409.	1.4	26
47	Two-Dimensional Layered Oxide Structures Tailored by Self-Assembled Layer Stacking via Interfacial Strain. ACS Applied Materials & Interfaces, 2016, 8, 16845-16851.	4.0	26
48	High Entropy Oxide Relaxor Ferroelectrics. ACS Applied Materials & Interfaces, 2022, 14, 11962-11970.	4.0	26
49	Highly textured Li(Ni0.5Mn0.3Co0.2)O2 thin films on stainless steel as cathode forÂlithium-ion battery. Journal of Power Sources, 2013, 241, 410-414.	4.0	25
50	Novel Layered Supercell Structure from Bi₂AlMnO₆ for Multifunctionalities. Nano Letters, 2017, 17, 6575-6582.	4.5	25
51	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.	1.1	24
52	Roles of strain and domain boundaries on the phase transition stability of VO2 thin films. Applied Physics Letters, 2017, 111, .	1.5	24
53	Interface Engineered Roomâ€Temperature Ferromagnetic Insulating State in Ultrathin Manganite Films. Advanced Science, 2020, 7, 1901606.	5.6	24
54	Magnetic Texture in Insulating Single Crystal High Entropy Oxide Spinel Films. ACS Applied Materials & Interfaces, 2021, 13, 17971-17977.	4.0	24

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55	Colossal Terahertz Magnetoresistance at Room Temperature in Epitaxial La_{0.7}Sr_{0.3}MnO₃ Nanocomposites and Single-Phase Thin Films. Nano Letters, 2017, 17, 2506-2511.	4.5	23
56	Role of boundaries on low-field magnetotransport properties of La_{0.7}Sr_{0.3}MnO₃-based nanocomposite thin films. Journal of Materials Research, 2013, 28, 1707-1714.	1.2	22
57	Strain and Interface Effects in a Novel Bismuth-Based Self-Assembled Supercell Structure. ACS Applied Materials & Interfaces, 2015, 7, 11631-11636.	4.0	22
58	Very high commutation quality factor and dielectric tunability in nanocomposite SrTiO₃ thin films with T_c enhanced to >300 Â°C. Nanoscale, 2018, 10, 3460-3468.	2.8	22
59	Competing Interface and Bulk Effectâ€“Driven Magnetoelectric Coupling in Vertically Aligned Nanocomposites. Advanced Science, 2019, 6, 1901000.	5.6	22
60	Enhanced ion irradiation tolerance properties in TiN/MgO nanolayer films. Journal of Nuclear Materials, 2013, 434, 217-222.	1.3	21
61	Vertical Interface Induced Dielectric Relaxation in Nanocomposite (BaTiO3)1-x:(Sm2O3)x Thin Films. Scientific Reports, 2015, 5, 11335.	1.6	21
62	Oxygen vacancy-driven evolution of structural and electrical properties in SrFeO3â¯Î´ thin films and a method of stabilization. Applied Physics Letters, 2016, 109, .	1.5	21
63	Oxygen content tailored magnetic and electronic properties in cobaltite double perovskite thin films. Applied Physics Letters, 2017, 110, .	1.5	21
64	Hidden Interface Driven Exchange Coupling in Oxide Heterostructures. Advanced Materials, 2017, 29, 1700672.	11.1	19
65	Semicoherent oxide heterointerfaces: Structure, properties, and implications. APL Materials, 2019, 7, .	2.2	19
66	A pathway to desired functionalities in vertically aligned nanocomposites and related architectures. MRS Bulletin, 2021, 46, 115-122.	1.7	19
67	Ferroelectric Sm-Doped BiMnO₃ Thin Films with Ferromagnetic Transition Temperature Enhanced to 140 K. ACS Applied Materials & Interfaces, 2014, 6, 14836-14843.	4.0	18
68	Strain Enhanced Functionality in a Bottomâ€Up Approach Enabled 3D Superâ€Nanocomposites. Advanced Functional Materials, 2019, 29, 1900442.	7.8	17
69	Enhanced flux pinning properties in superconducting FeSe_{0.5}Te_{0.5}thin films with secondary phases. Superconductor Science and Technology, 2012, 25, 025020.	1.8	16
70	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.	1.1	16
71	Manipulating leakage behavior via distribution of interfaces in oxide thin films. Applied Physics Letters, 2014, 105, 072907.	1.5	15
72	Tunable flux pinning landscapes achieved by functional ferromagnetic Fe2O3:CeO2 vertically aligned nanocomposites in YBa2Cu3O7â¯Î´ thin films. Physica C: Superconductivity and Its Applications, 2015, 510, 13-20.	0.6	15

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73	Induced ferroelectric phases in SrTiO₃ by a nanocomposite approach. Nanoscale, 2020, 12, 18193-18199.	2.8	15
74	Interfaceâ€Coupled BiFeO₃/BiMnO₃ Superlattices with Magnetic Transition Temperature up to 410 K. Advanced Materials Interfaces, 2016, 3, 1500597.	1.9	14
75	Enhanced nucleation of germanium on graphene via dipole engineering. Nanoscale, 2018, 10, 5689-5694.	2.8	14
76	Strain vs. charge mediated magnetoelectric coupling across the magnetic oxide/ferroelectric interfaces. RSC Advances, 2019, 9, 13033-13041.	1.7	14
77	Magnetic and tunable dielectric properties of DyCrO3 thin films. Journal of Materials Science, 2019, 54, 8984-8994.	1.7	14
78	Field-dependent magnetization of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>BiFe</mml:mi><mml:msub><mml:mi mathvariant="normal">O</mml:mi><mml:mn>3</mml:mn></mml:msub></mml:mrow></mml:math>in an ultrathin<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.7</mml:mn></mml:mrow></mml:msub><mml:mi	1.1	13
79	Enhanced magnetism in lightly doped manganite heterostructures: strain or stoichiometry?. Nanoscale, 2019, 11, 7364-7370.	2.8	13
80	Strain Engineering: A Pathway for Tunable Functionalities of Perovskite Metal Oxide Films. Nanomaterials, 2022, 12, 835.	1.9	13
81	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.	4.0	12
82	Atomicâ€Scale Control of Electronic Structure and Ferromagnetic Insulating State in Perovskite Oxide Superlattices by Longâ€Range Tuning of BO₆ Octahedra. Advanced Functional Materials, 2020, 30, 2001984.	7.8	12
83	Femtosecond laser deposited zinc oxide film and its optical properties. Vacuum, 2009, 83, 892-896.	1.6	11
84	Enhanced electrochemical properties of Bi-layer La0.5Sr0.5CoO3â˜Î´ cathode prepared by a hybrid method. Electrochimica Acta, 2011, 56, 3969-3974.	2.6	11
85	Influence of SrTiO3 substrate miscut angle on the transport properties of LaAlO3/SrTiO3 interfaces. Applied Physics Letters, 2011, 99, .	1.5	11
86	Modification of structure and magnetic anisotropy of epitaxial CoFe2O4 films by hydrogen reduction. Applied Physics Letters, 2015, 106, .	1.5	11
87	Site-mixing effect on the XMCD spectrum in double perovskite Bi2FeMnO6. Applied Physics Letters, 2016, 108, 242907.	1.5	11
88	Glassy Dynamics in a heavy ion irradiated NbSe2 crystal. Scientific Reports, 2018, 8, 13162.	1.6	11
89	Anisotropic domains and antiferrodistortive-transition controlled magnetization in epitaxial manganite films on vicinal SrTiO3 substrates. Applied Physics Letters, 2020, 117, .	1.5	11
90	Interfacialâ€Strainâ€Controlled Ferroelectricity in Selfâ€Assembled BiFeO₃ Nanostructures. Advanced Functional Materials, 2021, 31, 2102311.	7.8	11

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91	Substrate oxygen sponge effect: A parameter for epitaxial manganite thin film growth. Applied Physics Letters, 2020, 117, .	1.5	10
92	High performance, electroforming-free, thin film memristors using ionic Na_{0.5}Bi_{0.5}TiO₃. Journal of Materials Chemistry C, 2021, 9, 4522-4531.	2.7	10
93	Role of Defects and Power Dissipation on Ferroelectric Memristive Switching. Advanced Electronic Materials, 2022, 8, .	2.6	10
94	Stabilizing new bismuth compounds in thin film form. Journal of Materials Research, 2016, 31, 3530-3537.	1.2	8
95	Role of temperature and oxygen content on structural and electrical properties of LaBaCo2O5+Î´ thin films. Applied Physics Letters, 2018, 112, 073905.	1.5	8
96	Enhanced magnetocaloric performance in manganite bilayers. Journal of Applied Physics, 2020, 127, .	1.1	7
97	In-situ irradiation-induced studies of grain growth kinetics of nanocrystalline UO2. Acta Materialia, 2022, 231, 117856.	3.8	7
98	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.	1.1	6
99	Superconducting properties of FeSexTe1âˆ’xthin film with a composition close to antiferromagnetic ordering. Superconductor Science and Technology, 2013, 26, 112001.	1.8	6
100	Interfacial Engineering Enabled Novel Bi-Based Layered Oxide Supercells with Modulated Microstructures and Tunable Physical Properties. Crystal Growth and Design, 2019, 19, 7088-7095.	1.4	6
101	Epitaxial Stabilization of Single-Crystal Multiferroic YCrO3 Thin Films. Nanomaterials, 2020, 10, 2085.	1.9	5
102	Nanoscale magnetization inhomogeneity within single phase nanopillars. Physical Review Materials, 2019, 3, .	0.9	5
103	Effect of lattice strain on magnetism in epitaxial YCrO₃ films. Materials Research Letters, 2022, 10, 29-35.	4.1	5
104	Upper limit for the effect of elastic bending stress on the saturation magnetization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi mathvariant="normal">L</mml:mi><mml:msub><mml:mi mathvariant="normal">a</mml:mi><mml:mrow><mml:mn>0.8</mml:mn></mml:mrow></mml:msub><mml:mi mathvariant="normal">S</mml:mi><mml:msub><mml:mi mathvariant="normal">r</mml:mi><mml:mrow><mml:mn>0.2</mml:mn></mml:mrow></mml:msub><mml:mi>Mn</mml:mi><mml:msu	1.1	4
105	Tuning magnetic and optical properties through strain in epitaxial LaCrO3 thin films. Applied Physics Letters, 2021, 119, .	1.5	4
106	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.	1.3	3
107	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, .	1.1	3
108	Epitaxial growth and physical properties of ternary nitride thin films by polymer-assisted deposition. Applied Physics Letters, 2016, 109, 081907.	1.5	2

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109	Unraveling thickness-dependent spin relaxation in colossal magnetoresistance manganite films. Applied Physics Letters, 2018, 113, 012402.	1.5	2
110	Metallic interface induced by electronic reconstruction in crystalline-amorphous bilayer oxide films. Science Bulletin, 2019, 64, 1567-1572.	4.3	2
111	Manipulating the metal-to-insulator transition and magnetic properties in manganite thin films via epitaxial strain. Physical Review B, 2022, 105, .	1.1	2
112	Functional Oxide Thin Films and Nanostructures: Growth, Interface, and Applications. Journal of Nanomaterials, 2016, 2016, 1-2.	1.5	1
113	The Role of Oxygen Transfer in Oxide Heterostructures on Functional Properties. Advanced Materials Interfaces, 2022, 9, .	1.9	1
114	Multiferroic Properties of (La_{0.2}Bi_{0.8}FeO₃)_{0.8}-(NiFe₂O₄)_{0.2} Films Grown by Pulse Laser Deposition. Wuji Cailiao Xuebao/Journal of Inorganic Materials, 2008, 23, 897-901.	0.6	0
115	Reducing Leakage Current and Enhancing Polarization in Multiferroic 3D Super-nanocomposites by Microstructure Engineering. Nanotechnology, 2022, , .	1.3	0