

X-D Xiang

List of Publications by Year in descending order

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4,093
citations

136740

32
h-index

110170

64
g-index

68
all docs

68
docs citations

68
times ranked

2482
citing authors

#	ARTICLE	IF	CITATIONS
1	A Class of Cobalt Oxide Magnetoresistance Materials Discovered with Combinatorial Synthesis. <i>Science</i> , 1995, 270, 273-275.	6.0	539
2	Identification of a Blue Photoluminescent Composite Material from a Combinatorial Library. <i>Science</i> , 1998, 279, 1712-1714.	6.0	290
3	Quantitative microwave near-field microscopy of dielectric properties. <i>Review of Scientific Instruments</i> , 1998, 69, 3846-3851.	0.6	274
4	High spatial resolution quantitative microwave impedance microscopy by a scanning tip microwave near-field microscope. <i>Applied Physics Letters</i> , 1997, 71, 1872-1874.	1.5	205
5	Iodine intercalation of a high-temperature superconducting oxide. <i>Nature</i> , 1990, 348, 145-147.	13.7	175
6	Epitaxial growth of the first five members of the $Sr_{n+1}Ti_nO_{3n+1}$ Ruddlesden-Popper homologous series. <i>Applied Physics Letters</i> , 2001, 78, 3292-3294.	1.5	159
7	Room temperature ferromagnetic n-type semiconductor in $(In_{1-x}Fe_x)_{2O_3}$. <i>Applied Physics Letters</i> , 2005, 86, 052503.	1.5	156
8	Combinatorial synthesis and high throughput evaluation of ferroelectric/dielectric thin-film libraries for microwave applications. <i>Applied Physics Letters</i> , 1998, 72, 2185-2187.	1.5	142
9	Bulk synthesis and high-temperature ferromagnetism of $(In_{1-x}Fe_x)_{2O_3}$ with Cu co-doping. <i>Applied Physics Letters</i> , 2005, 86, 042506.	1.5	132
10	COMBINATORIAL MATERIALS SYNTHESIS AND SCREENING: An Integrated Materials Chip Approach to Discovery and Optimization of Functional Materials. <i>Annual Review of Materials Research</i> , 1999, 29, 149-171.	5.5	127
11	Metallization of the resistivity tensor in $Bi_2Sr_2CaCu_2O_x$ through epitaxial intercalation. <i>Physical Review Letters</i> , 1992, 68, 530-533.	2.9	115
12	A low-loss composition region identified from a thin-film composition spread of $(Ba_{1-x}Ca_x)TiO_3$. <i>Applied Physics Letters</i> , 1999, 74, 1165-1167.	1.5	106
13	Nondestructive Imaging of Dielectric-Constant Profiles and Ferroelectric Domains with a Scanning-Tip Microwave Near-Field Microscope. <i>Science</i> , 1997, 276, 2004-2006.	6.0	101
14	Epitaxial intercalation of the Bi-Sr-Ca-Cu-O superconductor series. <i>Physical Review B</i> , 1991, 43, 11496-11499.	1.1	95
15	Identification and optimization of advanced phosphors using combinatorial libraries. <i>Applied Physics Letters</i> , 1997, 70, 3353-3355.	1.5	90
16	Room-temperature electronic phase transitions in the continuous phase diagrams of perovskite manganites. <i>Nature</i> , 2000, 406, 704-708.	13.7	82
17	Three-dimensional fluctuation conductivity in superconducting single crystal K_3C_6O and Rb_3C_6O . <i>Nature</i> , 1993, 361, 54-56.	13.7	73
18	Combinatorial synthesis and evaluation of epitaxial ferroelectric device libraries. <i>Applied Physics Letters</i> , 1998, 73, 894-896.	1.5	71

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19	Electro-optic measurements of the ferroelectric-paraelectric boundary in $\text{Ba}_{1-x}\text{Sr}_x\text{TiO}_3$ materials chips. <i>Applied Physics Letters</i> , 2000, 76, 769-771.	1.5	69
20	New phosphor $(\text{Gd}_{2-x}\text{Zn}_x)\text{O}_3\text{:Eu}^{3+}$ with high luminescent efficiency and superior chromaticity. <i>Applied Physics Letters</i> , 1998, 72, 525-527.	1.5	67
21	Elastic properties of a van der Waals solid: C_{60} . <i>Physical Review B</i> , 1992, 46, 12737-12739.	1.1	62
22	Electron-scattering mechanisms in single-crystal K_3C_{60} . <i>Physical Review B</i> , 1992, 46, 12064-12067.	1.1	60
23	Low temperature scanning-tip microwave near-field microscopy of $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$ films. <i>Applied Physics Letters</i> , 1997, 71, 2026-2028.	1.5	57
24	Synchrotron x-ray microbeam diagnostics of combinatorial synthesis. <i>Applied Physics Letters</i> , 1998, 73, 1820-1822.	1.5	57
25	Crystal structure of stage-1 iodine-intercalated superconducting $\text{IBi}_2\text{Sr}_2\text{CaCu}_2\text{O}_x$. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 181, 18-24.	0.6	56
26	Determination of superconducting and normal state parameters of single crystal K_3C_{60} . <i>Solid State Communications</i> , 1993, 86, 643-646.	0.9	47
27	Quantitative microwave evanescent microscopy. <i>Applied Physics Letters</i> , 1999, 75, 3005-3007.	1.5	47
28	Quantitative complex electrical impedance microscopy by scanning evanescent microwave microscope. <i>Materials Characterization</i> , 2002, 48, 117-125.	1.9	45
29	Continuous mapping of structure-property relations in $\text{Fe}_{1-x}\text{Ni}_x$ metallic alloys fabricated by combinatorial synthesis. <i>Intermetallics</i> , 2001, 9, 541-545.	1.8	40
30	Effects of charge-density-wave depinning on the elastic properties of NbSe_3 . <i>Physical Review B</i> , 1989, 39, 1290-1297.	1.1	37
31	Quantitative nonlinear dielectric microscopy of periodically polarized ferroelectric domains. <i>Applied Physics Letters</i> , 1998, 73, 1146-1148.	1.5	37
32	Tip-sample distance feedback control in a scanning evanescent microwave microscope. <i>Applied Physics Letters</i> , 1999, 74, 2696-2698.	1.5	37
33	The combinatorial synthesis and evaluation of functional materials. <i>Physica C: Superconductivity and Its Applications</i> , 1997, 282-287, 428-430.	0.6	32
34	Frequency dependence of elastic anomalies in charge-density-wave conductors. <i>Physical Review Letters</i> , 1989, 63, 1853-1856.	2.9	31
35	Resistivity saturation in alkali-doped C_{60} . <i>Solid State Communications</i> , 1995, 93, 973-977.	0.9	29
36	Elastic properties of single crystal $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8$. <i>Solid State Communications</i> , 1989, 69, 833-836.	0.9	28

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37	X-ray-absorption near-edge structure study of $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_y$. <i>Physical Review B</i> , 1993, 47, 1029-1035.	1.1	27
38	Combinatorial synthesis and high throughput evaluation of functional oxides-A integrated materials chip approach. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1998, 56, 246-250.	1.7	27
39	High-throughput Screening of Self-Healable Polysulfobetaine Hydrogels and their Applications in Flexible Electronics. <i>Advanced Functional Materials</i> , 2021, 31, 2100489.	7.8	26
40	Shear moduli of CDW conductors. <i>Synthetic Metals</i> , 1989, 29, 271-278.	2.1	19
41	Combinatorial material preparation. <i>Journal of Physics Condensed Matter</i> , 2002, 14, R49-R78.	0.7	18
42	Crystal structures of stage-n iodine-intercalated compounds $\text{IBi}_2\text{nSr}_2\text{nCa}_n\text{Cu}_2\text{nO}_x$. <i>Physica C: Superconductivity and Its Applications</i> , 1992, 190, 597-605.	0.6	17
43	Microstructural properties of $(\text{Ba}, \text{Sr})\text{TiO}_3$ films fabricated from $\text{BaF}_2/\text{SrF}_2/\text{TiO}_2$ amorphous multilayers using the combinatorial precursor method. <i>Journal of Applied Physics</i> , 2001, 90, 2474-2478.	1.1	17
44	ac calorimetry of C_6O single crystals. <i>Physical Review B</i> , 1992, 45, 13831-13833.	1.1	16
45	Mapping of physical properties-composition phase diagrams of complex material systems using continuous composition material chips. <i>Applied Surface Science</i> , 2002, 189, 188-195.	3.1	16
46	Machine Learning Prediction of Superconducting Critical Temperature through the Structural Descriptor. <i>Journal of Physical Chemistry C</i> , 2022, 126, 8922-8927.	1.5	16
47	Elastic properties of polycrystalline $\text{La}_{2-x}\text{Sr}_x\text{CuO}_4$. <i>Solid State Communications</i> , 1988, 65, 1073-1078.	0.9	13
48	Crystal structure of stage-2 iodine-intercalated superconducting $\text{IBi}_4\text{Sr}_4\text{Ca}_2\text{Cu}_4\text{O}_x$. <i>Physica C: Superconductivity and Its Applications</i> , 1991, 184, 127-134.	0.6	13
49	Magnetotransport in single-crystal $\text{Rb}_3\text{C}_6\text{O}$. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 228, 175-180.	0.6	13
50	Tip-sample distance feedback control in a scanning evanescent microwave probe for nonlinear dielectric imaging. <i>Review of Scientific Instruments</i> , 2000, 71, 2414-2417.	0.6	12
51	Structural properties of stage-1 iodine-intercalated superconducting $\text{I}(\text{Bi}_{0.915}, \text{Pb}_{0.085})_2(\text{Sr}_{0.93}, \text{Tj}_{0.07})\text{Cu}_2\text{O}_x$. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 228, 175-180.	0.6	12
52	Combinatorial materials synthesis and high-throughput screening: An integrated materials chip approach to mapping phase diagrams and discovery and optimization of functional materials. <i>Biotechnology and Bioengineering</i> , 1999, 61, 227-241.	1.7	10
53	High-throughput characterization of composition-spread manganese oxide films with a scanning SQUID microscope. <i>Applied Surface Science</i> , 2002, 189, 210-215.	3.1	9
54	Studies of the superconducting oxides $\text{Nd}_x\text{Y}_{1-x}\text{Ba}_2\text{Cu}_3\text{O}_y$. <i>Solid State Communications</i> , 1987, 64, 1353-1357.	0.9	8

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55	Dynamics of crystallization and phase transition in La _{0.5} Sr _{0.5} CoO ₃ thin films. Applied Physics Letters, 2002, 80, 4333-4335.	1.5	7
56	Granularity and upper critical fields in K ₃ C ₆₀ . Physica C: Superconductivity and Its Applications, 1994, 232, 22-26.	0.6	6
57	Thermodynamics of the charge-density-wave transition in ZrTe ₃ : Use of a TaS ₃ thermometer. Synthetic Metals, 1989, 31, 215-223.	2.1	5
58	On the Data-Driven Materials Innovation Infrastructure. Engineering, 2020, 6, 609-611.	3.2	4
59	A direct measurement method of quantum relaxation time. National Science Review, 2021, 8, nwaa242.	4.6	4
60	Thermal properties of fullerenes. Synthetic Metals, 1993, 56, 2985-2990.	2.1	3
61	Combinatorial synthesis and high throughput evaluation of functional materials. Materials Today, 1998, 1, 23-26.	8.3	3
62	Elastic anomalies in the quasi-one-dimensional conductor Nb ₃ Te ₄ . Solid State Communications, 1988, 66, 249-251.	0.9	1
63	Intercalating High-Tc Oxide Superconductors. Kluwer International Series in Engineering and Computer Science, 1996, , 425-447.	0.2	1
64	Transport Measurements of the Normal State and Superconducting Properties of Fulleride Superconductors. Springer Series in Solid-state Sciences, 1993, , 379-386.	0.3	0
65	Combinatorial synthesis and high throughput evaluation of electronic and photonic material chips. , 2001, , 257-IV.		0
66	Unveiling the mechanism of non-conventional superconductivity through material genome engineering. Frontiers of Physics, 2022, 17, 1.	2.4	0