X-D Xiang

List of Publications by Year
in descending order

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66 papers	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	Unveiling the mechanism of non-conventional superconductivity through material genome engineering. Frontiers of Physics, 2022, 17, 1.	2.4	0
2	Machine Learning Prediction of Superconducting Critical Temperature through the Structural Descriptor. Journal of Physical Chemistry C, 2022, 126, 8922-8927.	1.5	16
3	A direct measurement method of quantum relaxation time. National Science Review, 2021, 8, nwaa242.	4.6	4
4	Highâ€Throughput Screening of Selfâ€Healable Polysulfobetaine Hydrogels and their Applications in Flexible Electronics. Advanced Functional Materials, 2021, 31, 2100489.	7.8	26
5	On the Data-Driven Materials Innovation Infrastructure. Engineering, 2020, 6, 609-611.	3.2	4
6	Room temperature ferromagnetic n-type semiconductor in (In1â^'xFex)2O3â^'Ïƒ. Applied Physics Letters, 2005, 86, 052503.	1.5	156
7	Bulk synthesis and high-temperature ferromagnetism of (In1â^'xFex)2O3â^'Ïƒ with Cu co-doping. Applied Physics Letters, 2005, 86, 042506.	1.5	132
8	Dynamics of crystallization and phase transition in La0.5Sr0.5CoO3 thin films. Applied Physics Letters, 2002, 80, 4333-4335.	1.5	7
9	Combinatorial material preparation. Journal of Physics Condensed Matter, 2002, 14, R49-R78.	0.7	18
10	Quantitative complex electrical impedance microscopy by scanning evanescent microwave microscope. Materials Characterization, 2002, 48, 117-125.	1.9	45
11	Mapping of physical propertiesâ€“composition phase diagrams of complex material systems using continuous composition material chips. Applied Surface Science, 2002, 189, 188-195.	3.1	16
12	High-throughput characterization of composition-spread manganese oxide films with a scanning SQUID microscope. Applied Surface Science, 2002, 189, 210-215.	3.1	9
13	Continuous mapping of structureâ€“property relations in Fe1â^'xNix metallic alloys fabricated by combinatorial synthesis. Intermetallics, 2001, 9, 541-545.	1.8	40
14	Combinatorial synthesis and high throughput evaluation of electronic and photonic material chips. , 2001, , 257-IV.		0
15	Epitaxial growth of the first five members of the Srn+1TinO3n+1 Ruddlesdenâ€“Popper homologous series. Applied Physics Letters, 2001, 78, 3292-3294.	1.5	159
16	Microstructural properties of (Ba,â€ŠSr)TiO3 films fabricated from BaF2/SrF2/TiO2 amorphous multilayers using the combinatorial precursor method. Journal of Applied Physics, 2001, 90, 2474-2478.	1.1	17
17	Room-temperature electronic phase transitions in the continuous phasediagrams of perovskite manganites. Nature, 2000, 406, 704-708.	13.7	82
18	Tipâ€“sample distance feedback control in a scanning evanescent microwave probe for nonlinear dielectric imaging. Review of Scientific Instruments, 2000, 71, 2414-2417.	0.6	12

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19	Electro-optic measurements of the ferroelectric-paraelectric boundary in Ba1â^'xSrxTiO3 materials chips. Applied Physics Letters, 2000, 76, 769-771.	1.5	69
20	Tipâ€“sample distance feedback control in a scanning evanescent microwave microscope. Applied Physics Letters, 1999, 74, 2696-2698.	1.5	37
21	Quantitative microwave evanescent microscopy. Applied Physics Letters, 1999, 75, 3005-3007.	1.5	47
22	Combinatorial materials synthesis and high-throughput screening: An integrated materials chip approach to mapping phase diagrams and discovery and optimization of functional materials. Biotechnology and Bioengineering, 1999, 61, 227-241.	1.7	10
23	COMBINATORIAL MATERIALS SYNTHESIS AND SCREENING: An Integrated Materials Chip Approach to Discovery and Optimization of Functional Materials. Annual Review of Materials Research, 1999, 29, 149-171.	5.5	127
24	A low-loss composition region identified from a thin-film composition spread of (Ba1â^'xâ^'ySrxCay)TiO3. Applied Physics Letters, 1999, 74, 1165-1167.	1.5	106
25	Combinatorial synthesis and high throughput evaluation of functional oxides-A integrated materials chip approach. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1998, 56, 246-250.	1.7	27
26	Combinatorial synthesis and high throughput evaluation of functional materials. Materials Today, 1998, 1, 23-26.	8.3	3
27	New phosphor (Gd2â^'xZnx)O3â^Î´:Eu3+ with high luminescent efficiency and superior chromaticity. Applied Physics Letters, 1998, 72, 525-527.	1.5	67
28	Identification of a Blue Photoluminescent Composite Material from a Combinatorial Library. Science, 1998, 279, 1712-1714.	6.0	290
29	Combinatorial synthesis and high throughput evaluation of ferroelectric/dielectric thin-film libraries for microwave applications. Applied Physics Letters, 1998, 72, 2185-2187.	1.5	142
30	Quantitative microwave near-field microscopy of dielectric properties. Review of Scientific Instruments, 1998, 69, 3846-3851.	0.6	274
31	Combinatorial synthesis and evaluation of epitaxial ferroelectric device libraries. Applied Physics Letters, 1998, 73, 894-896.	1.5	71
32	Synchrotron x-ray microbeam diagnostics of combinatorial synthesis. Applied Physics Letters, 1998, 73, 1820-1822.	1.5	57
33	Quantitative nonlinear dielectric microscopy of periodically polarized ferroelectric domains. Applied Physics Letters, 1998, 73, 1146-1148.	1.5	37
34	Low temperature scanning-tip microwave near-field microscopy of YBa2Cu3O7â^'x films. Applied Physics Letters, 1997, 71, 2026-2028.	1.5	57
35	Identification and optimization of advanced phosphors using combinatorial libraries. Applied Physics Letters, 1997, 70, 3353-3355.	1.5	90
36	High spatial resolution quantitative microwave impedance microscopy by a scanning tip microwave near-field microscope. Applied Physics Letters, 1997, 71, 1872-1874.	1.5	205

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37	Nondestructive Imaging of Dielectric-Constant Profiles and Ferroelectric Domains with a Scanning-Tip Microwave Near-Field Microscope. Science, 1997, 276, 2004-2006.	6.0	101
38	The combinatorial synthesis and evaluation of functional materials. Physica C: Superconductivity and Its Applications, 1997, 282-287, 428-430.	0.6	32
39	Intercalating High-Tc Oxide Superconductors. Kluwer International Series in Engineering and Computer Science, 1996, , 425-447.	0.2	1
40	Resistivity saturation in alkali-doped C60. Solid State Communications, 1995, 93, 973-977.	0.9	29
41	A Class of Cobalt Oxide Magnetoresistance Materials Discovered with Combinatorial Synthesis. Science, 1995, 270, 273-275.	6.0	539
42	Magnetotransport in single-crystal Rb3C60. Physica C: Superconductivity and Its Applications, 1994, 228, 175-180.	0.6	13
43	Granularity and upper critical fields in K3C60. Physica C: Superconductivity and Its Applications, 1994, 232, 22-26.	0.6	6
44	Determination of superconducting and normal state parameters of single crystal K3C60. Solid State Communications, 1993, 86, 643-646.	0.9	47
45	Three-dimensional fluctuation conductivity in superconducting single crystal K3C60 and Rb3C60. Nature, 1993, 361, 54-56.	13.7	73
46	Thermal properties of fullerenes. Synthetic Metals, 1993, 56, 2985-2990.	2.1	3
47	Transport Measurements of the Normal State and Superconducting Properties of Fulleride Superconductors. Springer Series in Solid-state Sciences, 1993, , 379-386.	0.3	0
48	X-ray-absorption near-edge structure study ofIBi2Sr2CaCu2Oy. Physical Review B, 1993, 47, 1029-1035.	1.1	27
49	Elastic properties of a van der Waals solid:C60. Physical Review B, 1992, 46, 12737-12739.	1.1	62
50	Metallization of the resistivity tensor inBi2Sr2CaCu2Oxthrough epitaxial intercalation. Physical Review Letters, 1992, 68, 530-533.	2.9	115
51	ac calorimetry ofC60single crystals. Physical Review B, 1992, 45, 13831-13833.	1.1	16
52	Electron-scattering mechanisms in single-crystalK3C60. Physical Review B, 1992, 46, 12064-12067.	1.1	60
53	Structural properties of stage-1 iodine-intercalated superconducting I (Bi0.915, Pb0.085)2(Sr0.93,) Tj ETQq1 1 0.784314 rgBT /Overlo	0.6	10
54	Crystal structures of stage-n iodine-intercalated compounds IBi2nSr2nCanCu2nOx. Physica C: Superconductivity and Its Applications, 1992, 190, 597-605.	0.6	17

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55	Crystal structure of stage-2 iodine-intercalated superconducting IBi4Sr4Ca2Cu4Ox. Physica C: Superconductivity and Its Applications, 1991, 184, 127-134.	0.6	13
56	Crystal structure of stage-1 iodine-intercalated superconducting IBi2Sr2CaCu2Ox. Physica C: Superconductivity and Its Applications, 1991, 181, 18-24.	0.6	56
57	Epitaxial intercalation of the Bi-Sr-Ca-Cu-O superconductor series. Physical Review B, 1991, 43, 11496-11499.	1.1	95
58	Iodine intercalation of a high-temperature superconducting oxide. Nature, 1990, 348, 145-147.	13.7	175
59	Frequency dependence of elastic anomalies in charge-density-wave conductors. Physical Review Letters, 1989, 63, 1853-1856.	2.9	31
60	Effects of charge-density-wave depinning on the elastic properties ofNbSe3. Physical Review B, 1989, 39, 1290-1297.	1.1	37
61	Elastic properties of single crystal Bi2Sr2CaCu2O8. Solid State Communications, 1989, 69, 833-836.	0.9	28
62	Thermodynamics of the charge-density-wave transition in ZrTe3: Use of a TaS3 thermometer. Synthetic Metals, 1989, 31, 215-223.	2.1	5
63	Shear moduli of CDW conductors. Synthetic Metals, 1989, 29, 271-278.	2.1	19
64	Elastic anomalies in the quasi-one-dimensional conductor Nb3Te4. Solid State Communications, 1988, 66, 249-251.	0.9	1
65	Elastic properties of polycrystalline La2-xSrxCuO4. Solid State Communications, 1988, 65, 1073-1078.	0.9	13
66	Studies of the superconducting oxides NdxY1â^'xBa2Cu3Oy. Solid State Communications, 1987, 64, 1353-1357.	0.9	8