N Savvides

List of Publications by Year
in descending order

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113 papers	3,857 citations	126907 33 h-index	128289 60 g-index
115 all docs	115 docs citations	115 times ranked	2258 citing authors

#	Article	IF	Citations
1	Dual ion beam assisted magnetron deposition of biaxially textured YSZ and YBCO/YSZ thin films. Surface and Coatings Technology, 2016, 305, 116-122.	4.8	2
2	Transition from dislocation controlled plasticity to grain boundary mediated shear in nanolayered aluminum/palladium thin films. Thin Solid Films, 2011, 519, 3213-3220.	1.8	29
3	Thermal Conductivity and Other Transport Properties of Mg2Sn:Ag Crystals. Journal of Electronic Materials, 2010, 39, 2136-2141.	2.2	24
4	Thermoelectric Properties of Ag-doped Mg2Ge Thin Films Prepared by Magnetron Sputtering. Journal of Electronic Materials, 2010, 39, 1971-1974.	2.2	11
5	Eutectic Microstructure and Thermoelectric Properties of Mg2Sn. Journal of Electronic Materials, 2010, 39, 1792-1797.	2.2	23
6	High quality Mg2Sn crystals prepared by RF induction melting. Journal of Crystal Growth, 2010, 312, 2328-2334.	1.5	29
7	Electronic and thermal transport properties of Mg₂Sn crystals containing finely dispersed eutectic structures. Physica Status Solidi (A) Applications and Materials Science, 2010, 207, 2523-2531.	1.8	46
8	Thermoelectric properties and microstructure of large-grain Mg2Sn doped with Ag. Materials Research Society Symposia Proceedings, 2009, 1166, 26.	0.1	6
9	Microstructure and Thermoelectric Properties of n- and p-Type Doped Mg2Sn Compounds Prepared by the Modified Bridgman Method. Journal of Electronic Materials, 2009, 38, 1056-1060.	2.2	53
10	Magnetron Deposition of InÂSitu Thermoelectric Mg2Ge Thin Films. Journal of Electronic Materials, 2009, 38, 1008-1012.	2.2	13
11	Characterisation of nanolayered aluminium/palladium thin films using nanoindentation. Thin Solid Films, 2009, 517, 3698-3703.	1.8	24
12	Niobium step-edge superconducting junctions. Superconductor Science and Technology, 2008, 21, 045013.	3.5	2
13	On the bonding microstructure of amorphous silicon oxide thin films. Thin Solid Films, 2006, 515, 2284-2290.	1.8	7
14	Correction masks for large-area ion beam etching and figuring of optics. Journal of Applied Physics, 2006, 99, 094912.	2.5	12
15	Nanoindentation of plasma-deposited nitrogen-rich silicon nitride thin films. Journal of Applied Physics, 2006, 100, 024310.	2.5	10
16	Local bonding environment of plasma deposited nitrogen-rich silicon nitride thin films. Journal of Applied Physics, 2005, 97, 093714.	2.5	18
17	Evaluation of plasma deposited silicon nitride thin films for microsystems technology. Journal of Microelectromechanical Systems, 2005, 14, 971-977.	2.5	6
18	Short-wavelength infrared tuneable filters on HgCdTe photoconductors. Optics Express, 2005, 13, 9683.	3.4	9

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19	YSZ buffer layers and YBCO superconducting tapes with enhanced biaxial alignment and properties. Physica C: Superconductivity and Its Applications, 2003, 387, 328-340.	1.2	5
20	Epitaxial growth of cerium oxide thin film buffer layers deposited by d.c. magnetron sputtering. Thin Solid Films, 2001, 388, 177-182.	1.8	33
21	High-J_c YBCO Conductors Fabricated By Magnetron Deposition. Materials Research Society Symposia Proceedings, 2000, 616, 199.	0.1	6
22	Epitaxial Growth of Cerium Oxide Buffer Layers on MgO, YSZ and Sapphire Substrates. Materials Research Society Symposia Proceedings, 2000, 619, 191.	0.1	1
23	AC losses of arrays of superconducting strips on metallic substrates. Physica B: Condensed Matter, 2000, 284-288, 2083-2084.	2.7	0
24	YBCO coated tapes fabricated by IBAD and magnetron sputtering techniques. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2491-2492.	1.2	4
25	AC losses of YBCO strips on YSZ/hastelloy substrates. Physica C: Superconductivity and Its Applications, 2000, 341-348, 2493-2494.	1.2	11
26	Transport current distribution in (Bi,Pb)-2223/Ag tapes. IEEE Transactions on Applied Superconductivity, 1999, 9, 1824-1827.	1.7	5
27	Evolution of texture of CeO2 thin film buffer layers prepared by ion-assisted deposition. Thin Solid Films, 1999, 350, 124-129.	1.8	33
28	Critical current and magnetic field performance of Bi-2223/Ag composite superconducting tapes. IEEE Transactions on Applied Superconductivity, 1999, 9, 2609-2612.	1.7	3
29	Transport Current Distribution in Superconducting Tapes. , 1999, , 315-318.		0
30	Current distribution and critical state in superconducting silver-sheathed (Bi,Pb)-2223 tapes. Physica C: Superconductivity and Its Applications, 1998, 305, 114-124.	1.2	28
31	Effect of strain on ac power loss of Bi-2223/Ag superconducting tapes. Physica C: Superconductivity and Its Applications, 1998, 306, 129-135.	1.2	14
32	Amorphous Hydrogenated â€œDiamondlikeâ€•Carbon Films and Arc-Evaporated Carbon Films. , 1998, , 837-852.		1
33	Biaxially aligned buffer layers of cerium oxide, yttria stabilized zirconia, and their bilayers. Applied Physics Letters, 1997, 70, 2816-2818.	3.3	31
34	Amorphous Hydrogenated â€œDiamondlikeâ€•Carbon Films and Arc-Evaporated Carbon Films. , 1997, , 837-852.		2
35	AC loss from susceptibility measurements in Bi-2223/Ag superconducting tapes. European Physical Journal D, 1996, 46, 1297-1298.	0.4	4
36	Influence of mechanical strain on critical current density and microstructure of silver-sheathed Bi(Pb)2223 superconducting tapes. Physica C: Superconductivity and Its Applications, 1996, 266, 223-229.	1.2	26

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37	Environmental degradation of YBa2Cu3O7 â˜ x thin films. Analysis by atomic force microscopy. Physica C: Superconductivity and Its Applications, 1995, 243, 123-133.	1.2	8
38	Modification of the adhesion and contact resistance of the Ag/YBa2Cu3O7interface with keV electron irradiation. Journal of Applied Physics, 1995, 78, 5782-5786.	2.5	2
39	Josephson behaviour and flux penetration effects in YBCO double tilt-angle step-edge junctions. IEEE Transactions on Applied Superconductivity, 1995, 5, 2805-2808.	1.7	6
40	Noise in thin-film YBa2Cu3O7step-edge junction RF SQUIDS. Superconductor Science and Technology, 1994, 7, 260-264.	3.5	11
41	Long multifilament Bi-2223 Ag-sheathed superconducting tapes and solenoids. Journal of Superconductivity and Novel Magnetism, 1994, 7, 829-833.	0.5	6
42	Growth and evolution of microstructure of epitaxial YBa2Cu3O7â˜x ultrathin and thin films on MgO. Physica C: Superconductivity and Its Applications, 1994, 226, 23-36.	1.2	46
43	Strain dependence of the critical current density of Bi-2223 multifilament tape conductors. Physica C: Superconductivity and Its Applications, 1994, 235-240, 3457-3458.	1.2	1
44	Growth and Microstructure of YBa2Cu3O7â˜x Thin Films for Superconductor Devices. , 1994, , 409-416.		0
45	In-situ growth of epitaxial YBa2Cu3O7 thin films by on-axis unbalanced d.c. magnetron sputtering. Thin Solid Films, 1993, 228, 182-185.	1.8	20
46	Hardness and elastic modulus of diamond and diamond-like carbon films. Thin Solid Films, 1993, 228, 289-292.	1.8	82
47	Insitugrowth of epitaxial YBa2Cu3O7thin films by onâ€axis unbalanced direct current magnetron sputtering. Applied Physics Letters, 1993, 62, 528-530.	3.3	36
48	New techniques for fabricating step-edge junctions for high-T/sub c/ SQUIDs on MgO substrates. IEEE Transactions on Applied Superconductivity, 1993, 3, 2361-2364.	1.7	11
49	Microhardness and Youngâ€™s modulus of diamond and diamondlike carbon films. Journal of Applied Physics, 1992, 72, 2791-2796.	2.5	138
50	Temperature, field and frequency dependence of intergranular AC loss in high-temperature superconductors. Physica C: Superconductivity and Its Applications, 1992, 197, 267-273.	1.2	24
51	Critical current density and flux pinning in silver/superconductor composites and tapes. Physica C: Superconductivity and Its Applications, 1991, 179, 361-368.	1.2	44
52	AC susceptibility of granular superconductors. Superconductor Science and Technology, 1991, 4, S325-S327.	3.5	12
53	Comparison of YBCO thin films and SQUIDs prepared by ion beam deposition and RF and DC unbalanced magnetron sputtering. IEEE Transactions on Magnetics, 1991, 27, 3036-3039.	2.1	4
54	Properties of the Cubic Superconductor Ba0.6K0.4BiO3. , 1991, , 109-112.		1

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55	Superconductor/Silver Composites and Tapes Based on Bi-Pb-Sr-Ca-Cu-O. , 1991, , 683-686.		0
56	AC susceptibility, resistivity and specific heat of the cubic superconductor Ba0.6K0.4BiO3. Physica C: Superconductivity and Its Applications, 1990, 171, 181-186.	1.2	6
57	Melt processing of alkali element doped Bi2Sr2CaCu2O8. Physica C: Superconductivity and Its Applications, 1990, 172, 295-303.	1.2	37
58	Effect of silver addition on superconductivity in the Bi1.6Pb0.4Sr1.6Ca2Cu3O10?y system. Journal of Materials Science: Materials in Electronics, 1990, 1, 30-33.	2.2	10
59	Flux creep and transport critical current density in high-Tc superconductors. Physica C: Superconductivity and Its Applications, 1990, 165, 371-376.	1.2	67
60	Superconductivity in a Agâ€doped Biâ€Pbâ€Srâ€Caâ€Cuâ€O system. Applied Physics Letters, 1990, 56, 493-494.	3.3	46
61	Specific heat of polycrystallineBa0.6K0.4BiO3from 0.5 to 20 K. Physical Review B, 1990, 42, 4794-4796.	3.2	12
62	EFFECT OF Fe DOPING ON SUPERCONDUCTIVITY IN THE Bi-Pb-Sr-Ca-Cu-O SYSTEM. Modern Physics Letters B, 1990, 04, 1393-1402.	1.9	6
63	CORRELATION OF CRITICAL CURRENT DENSITY WITH Cu3+ CONCENTRATION AND DENSITY IN YBa2Cu3O7â^'x. Modern Physics Letters B, 1989, 03, 151-155.	1.9	1
64	Crystallite alignment of YBa2Cu3O7-xthrough texture growth. Superconductor Science and Technology, 1989, 2, 212-215.	3.5	8
65	A two-band model applied to resistivity data on a superconducting ceramic specimen of YBa2Cu3O7â^'x. Physica C: Superconductivity and Its Applications, 1989, 158, 258-264.	1.2	10
66	The interaction of Ag with Bi-Pb-Sr-Ca-Cu-O superconductor. Physica C: Superconductivity and Its Applications, 1989, 160, 533-540.	1.2	61
67	Stabilisation of 110 K superconducting phase in Biî—¸Srî—¸Caî—¸Cuî—¸O Pb substitution. Physica C: Superconductivity and Its Applications, 1989, 157, 93-98.	1.2	51
68	Highly Oriented Yba₂Cu₃O_{7-X} Thin Films Prepared by Unbalanced Dc Magnetron Sputtering From a Single Stoichiometric Target. Materials Research Society Symposia Proceedings, 1989, 169, 655.	0.1	3
69	Processing, Characterisation and Properties of the Superconducting Tl-Ba-Ca-Cu-O System. , 1989, , 813-818.		0
70	Labile Cu3+ ions correlated with superconducting properties in YBa2Cu3O7â^'x. Solid State Communications, 1988, 68, 221-225.	1.9	31
71	Dependence of the Superconducting Transition Temperature on Radii of Alkali and Alkaline Earth Dopants in Y₁Ba₂Cu₃O_{7â^'x}. Physica Status Solidi (B): Basic Research, 1988, 147, K153.	1.5	7
72	Ion-assisted deposition and metastable structures. Thin Solid Films, 1988, 163, 13-32.	1.8	56

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73	Phase changes in Y1Ba2Cu3O7-xinduced by Fe2O3and V2O5dopants. Journal of Physics C: Solid State Physics, 1988, 21, L127-L131.	1.5	8
74	Electrical transport, optical properties, and structure of TiN films synthesized by lowâ€energy ion assisted deposition. Journal of Applied Physics, 1988, 64, 225-234.	2.5	97
75	Labile Cu3+ions in the Bi-Sr-Ca-Cu-O system and the effects of varying the composition and heat treatment. Superconductor Science and Technology, 1988, 1, 78-82.	3.5	20
76	Processing, characterisation and properties of the superconducting Tl-Ba-Ca-Cu-O system. Superconductor Science and Technology, 1988, 1, 83-87.	3.5	4
77	Critical Current Density and Labile Ions in Superconducting YBa₂Cu₃O_{7-x} Wire and Tape. Materials Science Forum, 1988, 34-36, 341-344.	0.3	1
78	Impurity and thermodynamic effects on superconducting properties of Y1Ba2Cu3O7-x. Journal of Physics C: Solid State Physics, 1987, 20, L1003-L1008.	1.5	19
79	Electron microscopy and microanalysis of a YBa2Cu3Oxsuperconducting oxide. Applied Physics Letters, 1987, 51, 535-537.	3.3	26
80	HighTcsuperconducting B1 phase MoN films prepared by lowâ€energy ionâ€assisted deposition. Journal of Applied Physics, 1987, 62, 600-610.	2.5	59
81	Unbalanced magnetron ionâ€assisted deposition and property modification of thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 504-508.	2.1	160
82	Optical constants and associated functions of metastable diamondlike amorphous carbon films in the energy range 0.5â€“7.3 eV. Journal of Applied Physics, 1986, 59, 4133-4145.	2.5	298
83	Charged particle fluxes from planar magnetron sputtering sources. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 196-202.	2.1	384
84	Unbalanced dc magnetrons as sources of high ion fluxes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1986, 4, 453-456.	2.1	193
85	The role of hydrogen and boron in a-SiH : Bâ€”Electronic and optical properties. Applications of Surface Science, 1985, 22-23, 916-924.	1.0	2
86	Fourfold to threefold transition in diamondlike amorphous carbon films: A study of optical and electrical properties. Journal of Applied Physics, 1985, 58, 518-521.	2.5	90
87	Diamondlike amorphous carbon films prepared by magnetron sputtering of graphite. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1985, 3, 2386-2390.	2.1	155
88	Deposition parameters and film properties of hydrogenated amorphous silicon prepared by high rate dc planar magnetron reactive sputtering. Journal of Applied Physics, 1984, 55, 4232-4238.	2.5	49
89	Effects of hydrogenation and doping on the conductivity and density of defect states in amorphous silicon. Journal of Applied Physics, 1984, 56, 2788-2792.	2.5	11
90	Analysis of films prepared by plasma polymerization of acetylene in a D.C. magnetron. Thin Solid Films, 1983, 108, 247-256.	1.8	68

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91	Optical constants of amorphous hydrogenated carbon and silicon-carbon alloy films and their application in high temperature solar selective surfaces. Solar Energy Materials and Solar Cells, 1983, 9, 113-126.	0.4	38
92	Electrical conduction in sputtered Si:Al films. Solid State Communications, 1983, 47, 555-558.	1.9	6
93	Trends in optical parameters and band structure with increasing hydrogenation of amorphous silicon. Solid State Communications, 1983, 48, 189-193.	1.9	25
94	Properties and structure of amorphous hydrogenated carbon films. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1983, 48, 341-364.	0.6	117
95	The role of solitons and the kinetics of precipitate growth in boron doped siliconâ€“germanium alloys. Journal of Applied Physics, 1983, 54, 2402-2406.	2.5	4
96	Optical properties of a-Si and a-Si:H prepared by DC magnetron techniques. Journal of Physics C: Solid State Physics, 1983, 16, 4933-4944.	1.5	21
97	Altering the thermal conductivity of phosphorus-doped Si-Ge alloys by the precipitation of dopant. Journal Physics D: Applied Physics, 1982, 15, 299-304.	2.8	6
98	Hydrogenated carbon films produced by sputtering in argonâ€“hydrogen mixtures. Applied Optics, 1982, 21, 3615.	2.1	39
99	Localization in the metallic regime of granular Cuâ€”SiO2 films. Solid State Communications, 1982, 42, 143-145.	1.9	36
100	Electrical resistivity of some niobium A15 compounds. Solid State Communications, 1982, 41, 735-738.	1.9	19
101	On the Boundary Scattering of Phonons in Silicon. Physica Status Solidi (B): Basic Research, 1981, 103, K13.	1.5	2
102	Phonon scattering at grain boundaries in heavily doped fine-grained siliconâ€“germanium alloys. Nature, 1981, 290, 765-766.	27.8	250
103	Precipitation of phosphorus from solid solutions in Si-Ge alloys and its effect on thermoelectric transport properties. Journal Physics D: Applied Physics, 1981, 14, 723-732.	2.8	17
104	Hot-press sintering of Ge-Si alloys. Journal of Materials Science, 1980, 15, 594-600.	3.7	24
105	Boundary scattering of phonons in fine-grained hot-pressed Ge-Si alloys. I. The dependence of lattice thermal conductivity on grain size and porosity. Journal of Physics C: Solid State Physics, 1980, 13, 4657-4670.	1.5	61
106	Boundary scattering of phonons in fine-grained hot-pressed Ge-Si alloys. II. Theory. Journal of Physics C: Solid State Physics, 1980, 13, 4671-4678.	1.5	39
107	The reversal of precipitation in heavily doped silicon-germanium alloys. Journal Physics D: Applied Physics, 1979, 12, 1613-1619.	2.8	17
108	Apparatus for the measurement of thermal diffusivity featuring a low-frequency sine-wave generator and a digital phase meter. Journal of Physics E: Scientific Instruments, 1978, 11, 941-947.	0.7	17

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109	Thermal Conductivity of Thin Crystals of Pure Silicon. Physica Status Solidi (B): Basic Research, 1974, 63, K89.	1.5	12
110	The effect of boundary scattering on the high-temperature thermal conductivity of silicon. Journal of Physics C: Solid State Physics, 1973, 6, 1701-1708.	1.5	39
111	Measurement of thermal conductivity by a parallel flow sandwich technique using the Peltier effect. Journal of Physics E: Scientific Instruments, 1972, 5, 553-554.	0.7	7
112	Boundary scattering of phonons in silicon crystals at room temperature. Physics Letters, Section A: General, Atomic and Solid State Physics, 1972, 41, 193-194.	2.1	20
113	Superconducting Millimetre-Wavelength Bolometers. , 0, , .		0