

Darren T Verebelyi

List of Publications by Year in descending order

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201658

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all docs

56
docs citations

56
times ranked

885
citing authors

#	ARTICLE	IF	CITATIONS
1	Metalorganic Deposition of YBCO Films for Second-Generation High-Temperature Superconductor Wires. MRS Bulletin, 2004, 29, 572-578.	3.5	167
2	Low angle grain boundary transport in YBa ₂ Cu ₃ O _{7-δ} coated conductors. Applied Physics Letters, 2000, 76, 1755-1757.	3.3	166
3	Reversible axial-strain effect and extended strain limits in Y-Ba-Cu-O coatings on deformation-textured substrates. Applied Physics Letters, 2003, 83, 4223-4225.	3.3	126
4	YBCO coated conductors by an MOD/RABITS process. IEEE Transactions on Applied Superconductivity, 2003, 13, 2458-2461.	1.7	96
5	Second Generation HTS Wire Based on RABITS Substrates and MOD YBCO. IEEE Transactions on Applied Superconductivity, 2005, 15, 2611-2616.	1.7	92
6	Uniform performance of continuously processed MOD-YBCO-coated conductors using a textured Ni ^W substrate. Superconductor Science and Technology, 2003, 16, L19-L22.	3.5	89
7	Epitaxial growth of La ₂ Zr ₂ O ₇ thin films on rolled Ni-substrates by sol-gel process for high T _c superconducting tapes. Physica C: Superconductivity and Its Applications, 2000, 336, 63-69.	1.2	74
8	YBa ₂ Cu ₃ O _{7-δ} coated conductors with high engineering current density. Journal of Materials Research, 2000, 15, 2647-2652.	2.6	65
9	HTS Wire: status and prospects. Physica C: Superconductivity and Its Applications, 2003, 386, 424-430.	1.2	64
10	Transport ac loss studies of YBCO coated conductors with nickel alloy substrates. Superconductor Science and Technology, 2003, 16, 1294-1298.	3.5	61
11	Investigation of YBCO Coated Conductors for Fault Current Limiter Applications. IEEE Transactions on Applied Superconductivity, 2007, 17, 3471-3474.	1.7	55
12	Bend strain tolerance of critical currents for YBa ₂ Cu ₃ O ₇ films deposited on rolled-textured (001)Ni. Applied Physics Letters, 1998, 73, 1904-1906.	3.3	53
13	The Development of Second Generation HTS Wire at American Superconductor. IEEE Transactions on Applied Superconductivity, 2007, 17, 3379-3382.	1.7	49
14	Inter- and intragrain transport measurements in YBa ₂ Cu ₃ O _{7-δ} deformation textured coated conductors. Applied Physics Letters, 2001, 79, 3998-4000.	3.3	45
15	Grain orientations and grain boundary networks of YBa ₂ Cu ₃ O _{7-δ} films deposited by metalorganic and pulsed laser deposition on biaxially textured Ni ^W substrates. Journal of Materials Research, 2006, 21, 923-934.	2.6	45
16	Substrate and Stabilization Effects on the Transport AC Losses in YBCO Coated Conductors. IEEE Transactions on Applied Superconductivity, 2005, 15, 1583-1586.	1.7	44
17	Phase stability for the in situ growth of Nd _{1-x} Ba _{2x} Cu ₃ O _y films using pulsed-laser deposition. Applied Physics Letters, 1999, 74, 96-98.	3.3	37
18	Nucleation of epitaxial yttria-stabilized zirconia on biaxially textured (001) Ni for deposited conductors. Applied Physics Letters, 2000, 76, 2427-2429.	3.3	36

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19	Enhancement of the irreversible axial-strain limit of Y-Ba-Cu-O-coated conductors with the addition of a Cu layer. Applied Physics Letters, 2005, 87, 212505.	3.3	36
20	Continuous growth of epitaxial CeO ₂ buffer layers on rolled Ni tapes by electron beam evaporation. Physica C: Superconductivity and Its Applications, 1999, 316, 27-33.	1.2	34
21	Critical current density of YBa ₂ Cu ₃ O _{7-δ} low-angle grain boundaries in self-field. Applied Physics Letters, 2001, 78, 2031-2033.	3.3	34
22	Control of Flux Pinning in MOD YBCO Coated Conductor. IEEE Transactions on Applied Superconductivity, 2007, 17, 3347-3350.	1.7	31
23	Long length fabrication of YBCO on rolling assisted biaxially textured substrates (RABiTS) using pulsed laser deposition. IEEE Transactions on Applied Superconductivity, 1999, 9, 2276-2279.	1.7	30
24	Epitaxial growth of gadolinium oxide on roll-textured nickel using a solution growth technique. Journal of Materials Research, 2000, 15, 621-628.	2.6	30
25	Transverse compressive stress effect in Y-Ba-Cu-O coatings on biaxially textured Ni and Ni-W substrates. IEEE Transactions on Applied Superconductivity, 2003, 13, 3530-3533.	1.7	30
26	Practical neutral-axis conductor geometries for coated conductor composite wire. Superconductor Science and Technology, 2003, 16, 1158-1161.	3.5	30
27	High Critical Current YBCO Films Prepared by an MOD Process on RABiTS Templates. IEEE Transactions on Applied Superconductivity, 2007, 17, 3553-3556.	1.7	30
28	Growth and superconducting properties of YBa ₂ Cu ₃ O _{7-δ} films on conductive SrRuO ₃ and LaNiO ₃ multilayers for coated conductor applications. Applied Physics Letters, 2000, 76, 760-762.	3.3	29
29	Unusual physical properties of KCu ₇ S ₄ at diffusive one-dimensional ordering transitions. Physical Review B, 1998, 57, 3315-3325.	3.2	25
30	Low angle grain boundary transport properties of undoped and doped Y123 thin film bicrystals. Physica C: Superconductivity and Its Applications, 2000, 341-348, 1431-1434.	1.2	25
31	Improved electrodeposition process for the preparation of superconducting thallium oxide films. Physica C: Superconductivity and Its Applications, 2000, 333, 59-64.	1.2	23
32	High critical current MOD ex situ YBCO films on RABiTSTM and MgO-IBAD templates. Physica C: Superconductivity and Its Applications, 2003, 390, 249-253.	1.2	23
33	Improved YBCO Coated Conductors Using Alternate Buffer Architectures. IEEE Transactions on Applied Superconductivity, 2005, 15, 2632-2634.	1.7	23
34	Superconducting thallium oxide films by the electrodeposition method. Physica C: Superconductivity and Its Applications, 1998, 304, 55-65.	1.2	21
35	Conductive buffer layers and overlayers for the thermal stability of coated conductors. IEEE Transactions on Applied Superconductivity, 2001, 11, 3309-3312.	1.7	20
36	Transport and structural characterization of epitaxial Nd _{1+x} Ba _{2-x} Cu ₃ O _y thin films grown on LaAlO ₃ and Ni metal substrates by pulsed-laser deposition. Physica C: Superconductivity and Its Applications, 1999, 324, 177-186.	1.2	18

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37	Epitaxy of HgBa ₂ CaCu ₂ O ₆ superconducting films on biaxially textured Ni substrates. Applied Physics Letters, 2000, 77, 4193-4195.	3.3	18
38	Characterization of Bi based superconducting whiskers. Physica C: Superconductivity and Its Applications, 1996, 265, 301-308.	1.2	16
39	Critical current of YBCO grain boundaries in large magnetic fields. IEEE Transactions on Applied Superconductivity, 1999, 9, 2655-2658.	1.7	15
40	Epitaxial superconducting Tl _{0.5} Pb _{0.5} Sr _{1.6} Ba _{0.4} Ca ₂ Cu ₃ O ₉ films on LaAlO ₃ by thermal spray and post-spray annealing. Superconductor Science and Technology, 1999, 12, L1-L4.	3.5	14
41	Synthesis and characterization of thallium-based 1212 films with high critical current density on LaAlO ₃ substrates. Superconductor Science and Technology, 2000, 13, 173-177.	3.5	14
42	Effect of magnetic substitutions (Ni, Co, Fe) for Cu on thermal conductivity of BiSCCO whiskers. Physica C: Superconductivity and Its Applications, 1999, 328, 53-59.	1.2	13
43	In-plane aligned superconducting Tl _{0.78} Bi _{0.22} Sr _{1.6} Ba _{0.4} Ca ₂ Cu ₃ O ₉ films on rolling assisted biaxially textured substrates. Physica C: Superconductivity and Its Applications, 1999, 313, 241-245.	1.2	13
44	Fabrication and physical properties of large-area HgBa ₂ CaCu ₂ O ₆ superconducting films. Superconductor Science and Technology, 2000, 13, 225-228.	3.5	13
45	Optimizing the doping state of YBCO coated conductors. Superconductor Science and Technology, 2004, 17, S473-S476.	3.5	13
46	Preparation of Epitaxial YbBa ₂ Cu ₃ O _{7-δ} on SrTiO ₃ Single Crystal Substrates Using a Solution Process. Japanese Journal of Applied Physics, 1999, 38, L727-L730.	1.5	12
47	Reel-to-reel continuous deposition of epitaxial CeO ₂ /buffer layers on biaxially textured Ni tapes by electron beam evaporation. IEEE Transactions on Applied Superconductivity, 1999, 9, 1967-1970.	1.7	11
48	An all-sputtered buffer layer architecture for high-J _c YBa ₂ Cu ₃ O _{7-δ} coated conductors. Physica C: Superconductivity and Its Applications, 2000, 340, 33-40.	1.2	11
49	Microstructure of a high J _c , laser-ablated YBa ₂ Cu ₃ O _{7-δ} /sol-gel deposited NdGaO ₃ buffer layer/(001) SrTiO ₃ multi-layer structure. Physica C: Superconductivity and Its Applications, 2000, 331, 73-78.	1.2	11
50	Thermal conductivity measurement of microgram whiskers. Review of Scientific Instruments, 1997, 68, 2494-2498.	1.3	10
51	Synthesis and characterization of chromium-containing, thallium-based 1212 films. Physica C: Superconductivity and Its Applications, 2000, 333, 221-228.	1.2	10
52	On the Effect of NiW on the Inductance and AC Loss of HTS Cables. IEEE Transactions on Applied Superconductivity, 2005, 15, 1578-1582.	1.7	10
53	The effect of Co substitution for Cu in Bi ₂ Sr ₂ Ca ₁ Cu ₂ O _{8-δ} . Physica C: Superconductivity and Its Applications, 1999, 319, 1-11.	1.2	8
54	Superconducting (TlBi) _{sub 0.9} /Sr _{sub 1.6} /Ba _{sub 0.4} /Ca _{sub 2} /Cu _{sub 3} /Ag _{sub 0.2} /O _{sub x} / films from electrodeposited precursors. IEEE Transactions on Applied Superconductivity, 1999, 9, 1681-1683.	1.7	7

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55	Growth and characterization of superconducting films $Tl_{0.78}Bi_{0.22}Sr_{1.6}Ba_{0.4}Ca_2Cu_3O_9$ on CeO_2 -buffered single crystal YSZ. <i>Physica C: Superconductivity and Its Applications</i> , 1998, 306, 149-153.	1.2	6
56	Oxygen loading in second-generation high-temperature superconductor tapes. <i>Current Applied Physics</i> , 2006, 6, 511-514.	2.4	0