Darren T Verebelyi

List of Publications by Year in Descending Order

56 papers	1,964 citations	27 h-index	43 g-index
56 ext. papers	2,011 ext. citations	2.1 avg, IF	3.48 L-index

#	Paper	IF	Citations
56	The Development of Second Generation HTS Wire at American Superconductor. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3379-3382	1.8	48
55	Control of Flux Pinning in MOD YBCO Coated Conductor. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3347-3350	1.8	30
54	Investigation of YBCO Coated Conductors for Fault Current Limiter Applications. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3471-3474	1.8	50
53	High Critical Current YBCO Films Prepared by an MOD Process on RABiTS Templates. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3553-3556	1.8	28
52	Oxygen loading in second-generation high-temperature superconductor tapes. *Current Applied Physics*, **2006**, 6, 511-514	2.6	
51	Grain orientations and grain boundary networks of YBa2Cu3O7−δ films deposited by metalorganic and pulsed laser deposition on biaxially textured Ni–W substrates. *Journal of Materials Research*, **2006**, 21, 923-934	2.5	44
50	Second generation HTS wire based on RABiTS substrates and MOD YBCO. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2611-2616	1.8	91
49	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	3.4	34
48	On the effect of NiW on the inductance and AC loss of HTS cables. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 1578-1582	1.8	9
47	Improved YBCO coated conductors using alternate buffer architectures. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2632-2634	1.8	22
46	Substrate and stabilization effects on the transport AC losses in YBCO coated conductors. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 1583-1586	1.8	42
45	Optimizing the doping state of YBCO coated conductors. *Superconductor Science and Technology*, **2004**, 17, S473-S476	3.1	10
44	Metalorganic Deposition of YBCO Films for Second-Generation High-Temperature Superconductor Wires. *MRS Bulletin*, **2004**, 29, 572-578	3.2	157
43	Practical neutral-axis conductor geometries for coated conductor composite wire. *Superconductor Science and Technology*, **2003**, 16, 1158-1161	3.1	30
42	HTS Wire: status and prospects. *Physica C: Superconductivity and Its Applications*, **2003**, 386, 424-430	1.3	59
41	High critical current MOD ex situ YBCO films on RABiTSTM and MgO-IBAD templates. *Physica C: Superconductivity and Its Applications*, **2003**, 390, 249-253	1.3	22
40	YBCO coated conductors by an MOD/RABiTS/spl trade/ process. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 2458-2461	1.8	90

39	Transport ac loss studies of YBCO coated conductors with nickel alloy substrates. *Superconductor Science and Technology*, **2003**, 16, 1294-1298	3.1	59
38	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	1.8	29
37	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	3.4	117
36	Uniform performance of continuously processed MOD-YBCO-coated conductors using a textured Ni–W substrate. *Superconductor Science and Technology*, **2003**, 16, L19-L22	3.1	87
35	Conductive buffer layers and overlayers for the thermal stability of coated conductors. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 3309-3312	1.8	20
34	Inter- and intragrain transport measurements in YBa2Cu3O7−x deformation textured coated conductors. *Applied Physics Letters*, **2001**, 79, 3998-4000	3.4	43
33	Critical current density of YBa2Cu3O7−δ low-angle grain boundaries in self-field. *Applied Physics Letters*, **2001**, 78, 2031-2033	3.4	34
32	Improved electrodeposition process for the preparation of superconducting thallium oxide films. *Physica C: Superconductivity and Its Applications*, **2000**, 333, 59-64	1.3	22
31	Epitaxial growth of La2Zr2O7 thin films on rolled Ni-substrates by sol–gel process for high Tc superconducting tapes. *Physica C: Superconductivity and Its Applications*, **2000**, 336, 63-69	1.3	71
30	Synthesis and characterization of chromium-containing, thallium-based 1212 films. *Physica C: Superconductivity and Its Applications*, **2000**, 333, 221-228	1.3	7
29	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	1.3	25
28	An all-sputtered buffer layer architecture for high-Jc YBa2Cu3O7−δ coated conductors. *Physica C: Superconductivity and Its Applications*, **2000**, 340, 33-40	1.3	11
27	Microstructure of a high Jc, laser-ablated YBa2Cu3O7/sol–gel deposited NdGaO3 buffer layer/(001) SrTiO3 multi-layer structure. *Physica C: Superconductivity and Its Applications*, **2000**, 331, 73-78	1.3	10
26	Low angle grain boundary transport in YBa2Cu3O7−δ coated conductors. *Applied Physics Letters*, **2000**, 76, 1755-1757	3.4	160
25	Fabrication and physical properties of large-area HgBa2CaCu2O6superconducting films. *Superconductor Science and Technology*, **2000**, 13, 225-228	3.1	13
24	Synthesis and characterization of thallium-based 1212 films with high critical current density on LaAlO3substrates. *Superconductor Science and Technology*, **2000**, 13, 173-177	3.1	14
23	Growth and superconducting properties of YBa2Cu3O7−δ films on conductive SrRuO3 and LaNiO3 multilayers for coated conductor applications. *Applied Physics Letters*, **2000**, 76, 760-762	3.4	24
22	Nucleation of epitaxial yttria-stabilized zirconia on biaxially textured (001) Ni for deposited conductors. *Applied Physics Letters*, **2000**, 76, 2427-2429	3.4	33

21	YBa2Cu3O7-y□oated conductors with high engineering current density. *Journal of Materials Research*, **2000**, 15, 2647-2652	2.5	62
20	Epitaxial growth of gadolinium oxide on roll-textured nickel using a solution growth technique. *Journal of Materials Research*, **2000**, 15, 621-628	2.5	27
19	Epitaxy of HgBa2CaCu2O6 superconducting films on biaxially textured Ni substrates. *Applied Physics Letters*, **2000**, 77, 4193-4195	3.4	17
18	Preparation of Epitaxial YbBa2Cu3O7-□on SrTiO3 Single Crystal Substrates Using a Solution Process. *Japanese Journal of Applied Physics*, **1999**, 38, L727-L730	1.4	11
17	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	1.8	27
16	The effect of Co substitution for Cu in Bi2Sr2Ca1Cu2O8□*Physica C: Superconductivity and Its Applications*, **1999**, 319, 1-11	1.3	8
15	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	1.3	13
14	In-plane aligned superconducting Tl0.78Bi0.22Sr1.6Ba0.4Ca2Cu3O9 films on rolling assisted biaxially textured substrates. *Physica C: Superconductivity and Its Applications*, **1999**, 313, 241-245	1.3	11
13	Continuous growth of epitaxial CeO2 buffer layers on rolled Ni tapes by electron beam evaporation. *Physica C: Superconductivity and Its Applications*, **1999**, 316, 27-33	1.3	30
12	Transport and structural characterization of epitaxial Nd1+xBa2□Cu3Oy thin films grown on LaAlO3 and Ni metal substrates by pulsed-laser deposition. *Physica C: Superconductivity and Its Applications*, **1999**, 324, 177-186	1.3	17
11	Reel-to-reel continuous deposition of epitaxial CeO/sub 2/ buffer layers on biaxially textured Ni tapes by electron beam evaporation. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 1967-1970	1.8	9
10	. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 2655-2658	1.8	15
9	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	1.8	7
8	Epitaxial superconducting Tl0.5Pb0.5Sr1.6Ba0.4Ca2Cu3O9films on LaAlO3by thermal spray and post-spray annealing. *Superconductor Science and Technology*, **1999**, 12, L1-L4	3.1	13
7	Phase stability for the in situ growth of Nd1+xBa2□Cu3Oy films using pulsed-laser deposition. *Applied Physics Letters*, **1999**, 74, 96-98	3.4	35
6	Superconducting thallium oxide films by the electrodeposition method. *Physica C: Superconductivity and Its Applications*, **1998**, 304, 55-65	1.3	19
5	Growth and characterization of superconducting films Tl0.78Bi0.22Sr1.6Ba0.4Ca2Cu3O9 on CeO2-buffered single crystal YSZ. *Physica C: Superconductivity and Its Applications*, **1998**, 306, 149-153	1.3	5
4	Bend strain tolerance of critical currents for YBa2Cu3O7 films deposited on rolled-textured (001)Ni. *Applied Physics Letters*, **1998**, 73, 1904-1906	3.4	49

3	Unusual physical properties of KCu7S4 at diffusive one-dimensional ordering transitions. *Physical Review B*, **1998**, 57, 3315-3325	3.3	19
2	Thermal conductivity measurement of microgram whiskers. *Review of Scientific Instruments*, **1997**, 68, 2494-2498	1.7	9
1	Characterization of Bi based superconducting whiskers. *Physica C: Superconductivity and Its Applications*, **1996**, 265, 301-308	1.3	16