Darren T Verebelyi

List of Publications by Citations

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	Low angle grain boundary transport in YBa2Cu3O7 coated conductors. *Applied Physics Letters*, **2000**, 76, 1755-1757	3.4	160
55	Metalorganic Deposition of YBCO Films for Second-Generation High-Temperature Superconductor Wires. *MRS Bulletin*, **2004**, 29, 572-578	3.2	157
54	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
53	Second generation HTS wire based on RABiTS substrates and MOD YBCO. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2611-2616	1.8	91
52	YBCO coated conductors by an MOD/RABiTS/spl trade/ process. *IEEE Transactions on Applied Superconductivity*, **2003**, 13, 2458-2461	1.8	90
51	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
50	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
49	YBa2Cu3O7-y coated conductors with high engineering current density. *Journal of Materials Research*, **2000**, 15, 2647-2652	2.5	62
48	HTS Wire: status and prospects. *Physica C: Superconductivity and Its Applications*, **2003**, 386, 424-430	1.3	59
47	Transport ac loss studies of YBCO coated conductors with nickel alloy substrates. *Superconductor Science and Technology*, **2003**, 16, 1294-1298	3.1	59
46	Investigation of YBCO Coated Conductors for Fault Current Limiter Applications. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3471-3474	1.8	50
45	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
44	The Development of Second Generation HTS Wire at American Superconductor. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3379-3382	1.8	48
43	Grain orientations and grain boundary networks of YBa2Cu3O7 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
42	Inter- and intragrain transport measurements in YBa2Cu3O7 deformation textured coated conductors. *Applied Physics Letters*, **2001**, 79, 3998-4000	3.4	43
41	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
40	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

39	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
38	Critical current density of YBa2Cu3O7 low-angle grain boundaries in self-field. *Applied Physics Letters*, **2001**, 78, 2031-2033	3.4	34
37	Nucleation of epitaxial yttria-stabilized zirconia on biaxially textured (001) Ni for deposited conductors. *Applied Physics Letters*, **2000**, 76, 2427-2429	3.4	33
36	Control of Flux Pinning in MOD YBCO Coated Conductor. *IEEE Transactions on Applied Superconductivity*, **2007**, 17, 3347-3350	1.8	30
35	Practical neutral-axis conductor geometries for coated conductor composite wire. *Superconductor Science and Technology*, **2003**, 16, 1158-1161	3.1	30
34	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
33	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
32	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
31	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
30	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
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	Growth and superconducting properties of YBa2Cu3O7 films on conductive SrRuO3 and LaNiO3 multilayers for coated conductor applications. *Applied Physics Letters*, **2000**, 76, 760-762	3.4	24
27	Improved YBCO coated conductors using alternate buffer architectures. *IEEE Transactions on Applied Superconductivity*, **2005**, 15, 2632-2634	1.8	22
26	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
25	Improved electrodeposition process for the preparation of superconducting thallium oxide films. *Physica C: Superconductivity and Its Applications*, **2000**, 333, 59-64	1.3	22
24	Conductive buffer layers and overlayers for the thermal stability of coated conductors. *IEEE Transactions on Applied Superconductivity*, **2001**, 11, 3309-3312	1.8	20
23	Superconducting thallium oxide films by the electrodeposition method. *Physica C: Superconductivity and Its Applications*, **1998**, 304, 55-65	1.3	19
22	Unusual physical properties of KCu7S4 at diffusive one-dimensional ordering transitions. *Physical Review B*, **1998**, 57, 3315-3325	3.3	19

21	Epitaxy of HgBa2CaCu2O6 superconducting films on biaxially textured Ni substrates. *Applied Physics Letters*, **2000**, 77, 4193-4195	3.4	17
20	Transport and structural characterization of epitaxial Nd1+xBa2−xCu3Oy 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
19	Characterization of Bi based superconducting whiskers. *Physica C: Superconductivity and Its Applications*, **1996**, 265, 301-308	1.3	16
18	. *IEEE Transactions on Applied Superconductivity*, **1999**, 9, 2655-2658	1.8	15
17	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
16	Fabrication and physical properties of large-area HgBa2CaCu2O6superconducting films. *Superconductor Science and Technology*, **2000**, 13, 225-228	3.1	13
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	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
13	An all-sputtered buffer layer architecture for high-Jc YBa2Cu3O7−δcoated conductors. *Physica C: Superconductivity and Its Applications*, **2000**, 340, 33-40	1.3	11
12	Preparation of Epitaxial YbBa2Cu3O7-δon SrTiO3 Single Crystal Substrates Using a Solution Process. *Japanese Journal of Applied Physics*, **1999**, 38, L727-L730	1.4	11
11	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
10	Optimizing the doping state of YBCO coated conductors. *Superconductor Science and Technology*, **2004**, 17, S473-S476	3.1	10
9	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
8	Thermal conductivity measurement of microgram whiskers. *Review of Scientific Instruments*, **1997**, 68, 2494-2498	1.7	9
7	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
6	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
5	The effect of Co substitution for Cu in Bi2Sr2Ca1Cu2O8+δ *Physica C: Superconductivity and Its Applications*, **1999**, 319, 1-11	1.3	8
4	Synthesis and characterization of chromium-containing, thallium-based 1212 films. *Physica C: Superconductivity and Its Applications*, **2000**, 333, 221-228	1.3	7

3	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
2	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
1	Oxygen loading in second-generation high-temperature superconductor tapes. *Current Applied Physics*, **2006**, 6, 511-514	2.6	