

Bruce A Davidson

List of Publications by Citations

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65
papers

1,663
citations

23
h-index

39
g-index

68
ext. papers

1,754
ext. citations

4.4
avg, IF

3.64
L-index

#	Paper	IF	Citations
65	Structural and superconducting properties of orientation-ordered Y1Ba2Cu3O7-x films prepared by molecular-beam epitaxy. <i>Physical Review B</i> , 1987 , 36, 4039-4042	3.3	192
64	Superconducting Y-Ba-Cu-O oxide films by sputtering. <i>Applied Physics Letters</i> , 1987 , 51, 694-696	3.4	149
63	Ge-Si layered structures: Artificial crystals and complex cell ordered superlattices. <i>Applied Physics Letters</i> , 1986 , 49, 286-288	3.4	144
62	Growth mechanism and clustering phenomena: The Ge-on-Si system. <i>Physical Review B</i> , 1989 , 39, 7848-7851	3.5	70
61	Structure and optical properties of Ge-Si ordered superlattices. <i>Applied Physics Letters</i> , 1987 , 50, 760-763	3.4	65
60	Strain-Engineered Oxygen Vacancies in CaMnO Thin Films. <i>Nano Letters</i> , 2017 , 17, 794-799	11.5	64
59	Strain in ultrathin epitaxial films of Ge/Si(100) measured by ion scattering and channeling. <i>Physical Review Letters</i> , 1987 , 59, 664-667	7.4	61
58	Preparation and characterization of LaMnO3 thin films grown by pulsed laser deposition. <i>Journal of Applied Physics</i> , 2006 , 100, 023910	2.5	59
57	Improvements in the heteroepitaxy of GaAs on Si. <i>Applied Physics Letters</i> , 1987 , 51, 36-38	3.4	55
56	Superconducting Tl-Ba-Ca-Cu-O films by sputtering. <i>Applied Physics Letters</i> , 1988 , 53, 2102-2104	3.4	48
55	Evidence of direct correlation between out-of-plane lattice parameter and metal-insulator transition temperature in oxygen-depleted manganite thin films. <i>Applied Physics Letters</i> , 2012 , 100, 042404	3.4	45
54	Nature of the metal-insulator transition in few-unit-cell-thick LaNiO films. <i>Nature Communications</i> , 2018 , 9, 2206	17.4	44
53	The Formation and Structure of CVD W Films Produced by the Si Reduction of WF6. <i>Journal of the Electrochemical Society</i> , 1987 , 134, 2285-2292	3.9	43
52	Observation of a halide (F/Cl) stabilized, new perovskite phase in superconducting Y2Ba5Cu7Ox films. <i>Applied Physics Letters</i> , 1988 , 52, 1625-1627	3.4	41
51	Preparation of high Tc and Jc films of Ba2YC3O7 using laser evaporation of a composite target containing BaF2. <i>Applied Physics Letters</i> , 1988 , 52, 1995-1997	3.4	38
50	Superconductor-normal-superconductor behavior of Josephson junctions scribed in Y1Ba2Cu3O7 by a high-brightness electron source. <i>Applied Physics Letters</i> , 1996 , 68, 3811-3813	3.4	36
49	Deterministic and robust room-temperature exchange coupling in monodomain multiferroic BiFeO heterostructures. <i>Nature Communications</i> , 2017 , 8, 1583	17.4	35

48	YBa ₂ Cu ₃ O ₇ /La _{0.7} Ca _{0.3} MnO ₃ bilayers: Interface coupling and electric transport properties. <i>Physical Review B</i> , 2010 , 82,	3-3	34
47	Electron sampling depth and saturation effects in perovskite films investigated by soft x-ray absorption spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3-3	28
46	Constructing oxide interfaces and heterostructures by atomic layer-by-layer laser molecular beam epitaxy. <i>Npj Quantum Materials</i> , 2017 , 2,	5	27
45	Improved tunneling magnetoresistance at low temperature in manganite junctions grown by molecular beam epitaxy. <i>Applied Physics Letters</i> , 2011 , 98, 162505	3-4	25
44	Observation of (5 x 5) surface reconstruction on pure silicon and its stability against native-oxide formation. <i>Physical Review Letters</i> , 1986 , 57, 1332-1335	7-4	24
43	Evidence of electronic band redistribution in La _{0.65} Sr _{0.35} MnO ₃ by hard x-ray photoelectron spectroscopy. <i>Physical Review B</i> , 2012 , 86,	3-3	23
42	Observation of strong to Josephson-coupled crossover in 10 ¹⁰ YBa ₂ Cu ₃ O _x bicrystal junctions. <i>Applied Physics Letters</i> , 1999 , 75, 3171-3173	3-4	23
41	High-quality in situ manganite thin films by pulsed laser deposition at low background pressures. <i>European Physical Journal B</i> , 2006 , 51, 337-340	1.2	20
40	Measuring magnetic profiles at manganite surfaces with monolayer resolution. <i>Journal of Magnetism and Magnetic Materials</i> , 2010 , 322, 1212-1216	2.8	19
39	MgB ₂ Josephson junctions produced by focused helium ion beam irradiation. <i>AIP Advances</i> , 2018 , 8, 075020	2-0	18
38	Strain-induced magnetization control in an oxide multiferroic heterostructure. <i>Physical Review B</i> , 2018 , 97,	3-3	17
37	Surface octahedral distortions and atomic design of perovskite interfaces. <i>Advanced Materials</i> , 2013 , 25, 4043-8	24	17
36	Surface electronic and magnetic properties of La _{2/3} Sr _{1/3} MnO ₃ thin films with extended metallicity above the Curie temperature. <i>Physical Review B</i> , 2008 , 78,	3-3	17
35	Critical layer thickness and strain relaxation measurements in GaSb(001)/AlSb structures. <i>Journal of Applied Physics</i> , 1989 , 66, 1687-1694	2.5	16
34	. <i>IEEE Transactions on Applied Superconductivity</i> , 1994 , 4, 228-235	1.8	15
33	Y-Ba-Cu-O films by rf magnetron sputtering using single composite targets: Superconducting and structural properties. <i>Applied Physics Letters</i> , 1988 , 52, 1735-1737	3-4	14
32	Real-time and in situ monitoring of sputter deposition with RHEED for atomic layer controlled growth. <i>APL Materials</i> , 2016 , 4, 086111	5-7	12
31	High Resolution Thermal Imaging of Hotspots in Superconducting Films. <i>IEEE Transactions on Applied Superconductivity</i> , 2007 , 17, 3215-3218	1.8	11

30	Statistical equilibrium in particle channeling. <i>Applied Physics Letters</i> , 1987 , 50, 135-137	3.4	11
29	An integrated ultra-high vacuum apparatus for growth and in situ characterization of complex materials. <i>Review of Scientific Instruments</i> , 2020 , 91, 085109	1.7	10
28	Reduced Critical Current Spread in Planar MgB ₂ Josephson Junction Array Made by Focused Helium Ion Beam. <i>IEEE Transactions on Applied Superconductivity</i> , 2019 , 29, 1-6	1.8	9
27	Effect of strain in La _{0.7} Sr _{0.3} MnO ₃ epitaxial films with different crystallographic orientation. <i>Journal of Alloys and Compounds</i> , 2006 , 423, 228-231	5.7	9
26	Nature of the Josephson barrier in electron-beam-written YBa ₂ Cu ₃ O _{7-δ} junctions. <i>Physical Review B</i> , 1997 , 56, 10828-10831	3.3	8
25	Strain and critical thickness in GaSb(001)/AlSb. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1989 , 7, 764		7
24	Epitaxial growth of perovskite SrBiO ₃ film on SrTiO ₃ by oxide molecular beam epitaxy. <i>Physical Review Materials</i> , 2019 , 3,	3.2	7
23	Normal-state and superconducting properties of Co-doped BaFe ₂ As ₂ and MgB ₂ thin films after focused helium ion beam irradiation. <i>Superconductor Science and Technology</i> , 2019 , 32, 095009	3.1	6
22	Summary Abstract: Structural analysis of ultrathin epitaxial Ge/Si films on Si(100). <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1987 , 5, 1147		5
21	Epitaxial Films of High T _c Oxide Superconductors YBa ₂ Cu ₃ O ₇ Grown on SrTiO ₃ by Molecular Beam Epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1987 , 99, 339		4
20	Two-stage dissipation in a superconducting microbridge: experiment and modeling. <i>Superconductor Science and Technology</i> , 2010 , 23, 085005	3.1	3
19	Local tunneling magnetoresistance probed by low-temperature scanning laser microscopy. <i>Applied Physics Letters</i> , 2011 , 99, 182513	3.4	3
18	High-resistivity SNS Josephson junctions scribed in YBa ₂ /sub 2/Cu/sub 3/O/sub 7-/spl delta// by electron irradiation. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 2518-2521	1.8	3
17	Broken particle-hole symmetry at atomically flat a-axis YBa ₂ Cu ₃ O _{7-δ} interfaces. <i>Physical Review Letters</i> , 2004 , 93, 107004	7.4	3
16	Dynamic properties and nonequilibrium processes in electron-beam scribed YBa ₂ Cu ₃ O ₇ Josephson junctions. <i>Applied Physics Letters</i> , 1998 , 73, 1290-1292	3.4	3
15	Strained Layer Semiconductor Films: Structure and Stability. <i>Materials Research Society Symposia Proceedings</i> , 1987 , 102, 405		3
14	High-temperature superconductivity and its robustness against magnetic polarization in monolayer FeSe on EuTiO ₃ . <i>Npj Quantum Materials</i> , 2021 , 6,	5	3
13	Controlling the electrical and magnetic ground states by doping in the complete phase diagram of titanate Eu _{1-x} LaxTiO ₃ thin films. <i>Physical Review B</i> , 2020 , 101,	3.3	2

12	The influence of surface roughness in X-ray resonant magnetic reflectivity experiments. <i>European Physical Journal: Special Topics</i> , 2012 , 208, 165-175	2.3	2
11	Defect scattering in high T _c and colossal magnetoresistive tunnel junctions. <i>Physica C: Superconductivity and Its Applications</i> , 2000 , 335, 184-189	1.3	2
10	Supercurrent peaks in planar high-temperature superconducting Josephson junctions. <i>Physical Review B</i> , 2000 , 62, 12455-12461	3.3	2
9	Dynamic properties of asymmetric discrete vortex-flow transistors. <i>Superconductor Science and Technology</i> , 1999 , 12, 970-973	3.1	2
8	Single-crystalline epitaxial TiO film: A metal and superconductor, similar to Ti metal. <i>Science Advances</i> , 2021 , 7,	14.3	2
7	Microscopic barrier properties in electron-beam scribed YBCO Josephson junctions. <i>Applied Superconductivity</i> , 1997 , 5, 277-284		1
6	Growth of colossal magnetoresistance heterostructures by molecular beam epitaxy. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 602, 9		1
5	. <i>IEEE Transactions on Applied Superconductivity</i> , 1995 , 5, 3369-3372	1.8	1
4	Electrical and magnetic properties of amorphous W-Mn-O films. <i>Journal of Non-Crystalline Solids</i> , 1987 , 92, 261-270	3.9	1
3	Spin-glass transition in Mg Mn alloys. <i>Solid State Communications</i> , 1987 , 62, 835-836	1.6	1
2	Design and implementation of a dual-control active device using YBCO grain-boundary junctions. <i>IEEE Transactions on Applied Superconductivity</i> , 1997 , 7, 2407-2410	1.8	
1	Three Terminal HT _c Vortex Flow Transistors: Optimisation of the Device Geometry Employing Bicrystal Grain-Boundary Josephson Junctions. <i>International Journal of Modern Physics B</i> , 1999 , 13, 1253-1258	1.1	1