

Eric S Hellman

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6743049/publications.pdf>

Version: 2024-02-01

50
papers

1,667
citations

257101

24
h-index

276539

41
g-index

50
all docs

50
docs citations

50
times ranked

1015
citing authors

#	ARTICLE	IF	CITATIONS
1	The Polarity of GaN: a Critical Review. MRS Internet Journal of Nitride Semiconductor Research, 1998, 3, 1.	1.0	282
2	Growth of high-T _c superconducting thin films using molecular beam epitaxy techniques. Applied Physics Letters, 1987, 51, 1191-1193.	1.5	128
3	Electron affinity at aluminum nitride surfaces. Applied Physics Letters, 1998, 73, 1346-1348.	1.5	93
4	Epitaxial Ba _{1-x} KxBiO ₃ films on MgO: Nucleation, cracking, and critical currents. Applied Physics Letters, 1991, 58, 1335-1337.	1.5	67
5	Electron tunneling in the high-T _c bismuthate superconductors. Physical Review B, 1991, 44, 12521-12524.	1.1	67
6	Growth of Ga-face and N-face GaN films using ZnO Substrates. MRS Internet Journal of Nitride Semiconductor Research, 1996, 1, 1.	1.0	67
7	Molecular beam epitaxy of layered DyBaCuO compounds. Applied Physics Letters, 1988, 53, 1660-1662.	1.5	66
8	Epitaxial Growth and Orientation of GaN on (1 0 0) $\hat{\Gamma}$ -LiAlO ₂ . MRS Internet Journal of Nitride Semiconductor Research, 1997, 2, 1.	1.0	66
9	Infra-red transmission spectroscopy of GaAs during molecular beam epitaxy. Journal of Crystal Growth, 1987, 81, 38-42.	0.7	64
10	All $\hat{\Gamma}$ high-T _c Josephson tunnel junction: Ba _{1-x} KxBiO ₃ /Ba _{1-x} KxBiO ₃ junctions. Applied Physics Letters, 1991, 58, 95-96.	1.5	63
11	Elastic scattering centers in resonant tunneling diodes. Applied Physics Letters, 1988, 53, 201-203.	1.5	55
12	Normal-state resistivity and Hall effect in Ba _{1-x} KxBiO ₃ epitaxial films. Physical Review B, 1993, 47, 11346-11353.	1.1	53
13	Molecular beam epitaxy of superconducting (Rb,Ba)BiO ₃ . Applied Physics Letters, 1989, 55, 2120-2122.	1.5	46
14	ScAlMgO ₄ : an Oxide Substrate for GaN Epitaxy. MRS Internet Journal of Nitride Semiconductor Research, 1996, 1, 1.	1.0	45
15	Penetration depth, microwave surface resistance, and gap ratio in NbN and Ba _{1-x} KxBiO ₃ thin films. Applied Physics Letters, 1994, 64, 244-246.	1.5	39
16	Superconductor-insulator-superconductor tunneling in Ba _{1-x} KxBiO ₃ grain boundaries. Applied Physics Letters, 1993, 63, 2824-2826.	1.5	37
17	Adsorption controlled molecular beam epitaxy of rubidium barium bismuth oxide. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1990, 8, 332.	1.6	29
18	Free-charge-carrier plasmons in Ba _{1-x} KxBiO ₃ : A close relation to cuprate superconductors. Physical Review B, 1992, 46, 1182-1187.	1.1	29

#	ARTICLE	IF	CITATIONS
19	Molecular-beam epitaxy and deposition of high-T _c superconductors. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1988, 6, 799.	1.6	28
20	Epitaxial solid-solution films of immiscible MgO and CaO. Applied Physics Letters, 1994, 64, 1341-1343.	1.5	28
21	Reduction of the acceptor impurity background in GaAs grown by molecular beam epitaxy. Applied Physics Letters, 1986, 49, 391-393.	1.5	27
22	Optical characterization of excited states in BaBiO ₃ . Physical Review B, 1990, 42, 923-926.	1.1	25
23	ScAlMgO ₄ : An Oxide Substrate for GaN Epitaxy. Materials Research Society Symposia Proceedings, 1995, 395, 51.	0.1	25
24	Variable-range-hopping transport in Ba _{1-x} KxBiO ₃ (0 < x < 0.35). Physical Review B, 1991, 44, 9719-9722.	1.1	24
25	Molecular beam epitaxy of gallium arsenide using direct radiative substrate heating. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 1986, 4, 574.	1.6	22
26	Origin of the $\frac{1}{2} \pm 9\text{\AA}^{\circ}$ peaks in YBa ₂ Cu ₃ O _{7-δ} films grown on cubic zirconia substrates. Journal of Materials Research, 1996, 11, 1336-1348.	1.2	21
27	Phase characterization of dysprosium barium copper oxide thin films grown on strontium titanate by molecular beam epitaxy. Journal of Materials Research, 1989, 4, 476-495.	1.2	20
28	Energy-momentum relation for polarons confined to one dimension. Physical Review B, 1986, 33, 8284-8290.	1.1	17
29	Nucleation of AlN on the (7 \times 7) Reconstructed Silicon (1 1 1) Surface. MRS Internet Journal of Nitride Semiconductor Research, 1998, 3, 1.	1.0	17
30	Evidence for two-particle normal-state tunneling in Ba _{1-x} KxBiO ₃ native-barrier tunnel junctions. Physical Review B, 1995, 52, 6822-6828.	1.1	15
31	Limit cycle oscillation in negative differential resistance devices. Journal of Applied Physics, 1988, 64, 2798-2800.	1.1	13
32	The effects of oxidation and air exposure on RbxBa _{1-x} BiO ₃ superconducting thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1991, 9, 2716-2720.	0.9	12
33	Circular dichroism observed in bismuthate superconductors. Physical Review B, 1991, 43, 11408-11410.	1.1	12
34	Far-infrared transmission of Ba _{1-x} KxBiO ₃ thin films. Physical Review B, 1994, 50, 643-646.	1.1	12
35	Molecular beam epitaxy of dysprosium barium cuprous oxides using molecular oxygen. Journal of Materials Research, 1992, 7, 795-800.	1.2	11
36	Quasiparticle-tunneling properties of Ba _{1-x} KxBiO ₃ /BaBi ₂ O ₇ /Ba _{1-x} KxBiO ₃ sandwich junctions. Physical Review B, 1993, 47, 14510-14513.	1.1	10

#	ARTICLE	IF	CITATIONS
37	Mechanism of current modulation by optic phonons in heterojunction tunneling experiments. Physical Review B, 1986, 34, 5475-5483.	1.1	6
38	Hysteretic Josephson-junction behavior and phase diffusion in $Ba_{1-x}K_xBiO_3$ films. Physical Review B, 1993, 48, 6626-6631.	1.1	6
39	Nonuniform Morphology and Luminescence Properties of a Molecular Beam Epitaxy GaN Film from Atomic Force Microscopy, Scanning Electron Microscopy and Cathodoluminescence. MRS Internet Journal of Nitride Semiconductor Research, 1997, 2, 1.	1.0	5
40	High resolution transmission electron microscopy of $Ba_{1-x}K_xBiO_3$ superconductor-insulator-superconductor grain boundary tunnel junctions. Journal of Materials Research, 1998, 13, 1774-1779.	1.2	5
41	Umklapp electron-electron scattering resistivity of half-filled copper-oxygen chains and planes. Physical Review B, 1989, 39, 9604-9606.	1.1	3
42	Molecular Beam Epitaxy of Superconducting Bismuthates on Various Substrates. Materials Research Society Symposia Proceedings, 1991, 221, 53.	0.1	2
43	Molecular Beam Epitaxy of Rubidium Barium Bismuth Oxide: Structural Phenomena in Perovskite Heteroepitaxy. Materials Research Society Symposia Proceedings, 1989, 169, 719.	0.1	1
44	(Rubidium, Barium) Bismuth Oxide: A Model Material For Molecular Beam Epitaxy Of Perovskites. Proceedings of SPIE, 1990, , .	0.8	1
45	Tc- ρ Relations in $YB_2Cu_3O_{7-\rho}$ Thin Films: Effects of Oxygen Pressure During Growth. Materials Research Society Symposia Proceedings, 1992, 275, 101.	0.1	1
46	Epitaxial Solid-Solution Films of Immiscible MgO and CaO. Materials Research Society Symposia Proceedings, 1994, 341, 127.	0.1	1
47	Angular dependence of tunneling effects in $Ba_{1-x}K_xBiO_3$ grain boundaries. , 1994, 2158, 124.		1
48	The Effect Of Elastic Scattering Centers On The Current Voltage Characteristics Of Double Barrier Resonant Tunneling Diodes. Proceedings of SPIE, 1988, , .	0.8	0
49	Public Sees Physicists in the Wrong Light. Physics Today, 1991, 44, 100-100.	0.3	0
50	Molecular Beam Epitaxy of $Ba_{1-x}K_xBiO_3$ Films and Heterostructures. , 1992, , 855-858.		0