

# Alice E White

## List of Publications by Citations

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95  
papers

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h-index

72  
g-index

96  
ext. papers

5,672  
ext. citations

5.3  
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L-index

#	Paper	IF	Citations
95	Superconductivity near 30 K without copper: the Ba <sub>0.6</sub> K <sub>0.4</sub> BiO <sub>3</sub> perovskite. <i>Nature</i> , <b>1988</b> , 332, 814-816	50.4	1038
94	Isotope effect in the high-T <sub>c</sub> superconductors Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7</sub> and Ba <sub>2</sub> EuCu <sub>3</sub> O <sub>7</sub> . <i>Physical Review Letters</i> , <b>1987</b> , 58, 2333-2336	7.4	496
93	Equilibrium shape of Si. <i>Physical Review Letters</i> , <b>1993</b> , 70, 1643-1646	7.4	442
92	Mesotaxy: Single-crystal growth of buried CoSi <sub>2</sub> layers. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 95-97	3.4	393
91	Nonzero isotope effect in La <sub>1.85</sub> Sr. <i>Physical Review Letters</i> , <b>1987</b> , 59, 912-914	7.4	207
90	Destruction of superconductivity in quench-condensed two-dimensional films. <i>Physical Review B</i> , <b>1986</b> , 33, 3549-3552	3.3	148
89	Ion-beam-induced metal-insulator transition in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> : A mobility edge. <i>Physical Review B</i> , <b>1989</b> , 39, 11599-11602	3.3	132
88	In situ epitaxial growth of Y <sub>1</sub> Ba <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films by molecular beam epitaxy with an activated oxygen source. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 2683-2685	3.4	131
87	Breakdown of Eliashberg theory for two-dimensional superconductivity in the presence of disorder. <i>Physical Review Letters</i> , <b>1986</b> , 57, 2195-2198	7.4	120
86	Demonstration of a Tunable Microwave-Photonic Notch Filter Using Low-Loss Silicon Ring Resonators. <i>Journal of Lightwave Technology</i> , <b>2009</b> , 27, 2105-2110	4	107
85	Sharp angular sensitivity of pinning due to twin boundaries in Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7</sub> . <i>Applied Physics Letters</i> , <b>1990</b> , 56, 2465-2467	3.4	102
84	Ion-beam-induced destruction of superconducting phase coherence in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-δ</sub> . <i>Physical Review B</i> , <b>1988</b> , 37, 3755-3758	3.3	96
83	Controllable reduction of critical currents in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> films. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 1010-1012	3.4	95
82	Critical currents in proton-irradiated single-crystal Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7-x</sub> . <i>Applied Physics Letters</i> , <b>1990</b> , 56, 2681-2683	3.4	81
81	Mechanisms of buried oxide formation by ion implantation. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 19-21	3.4	77
80	Enhanced strain relaxation in Si/GexSi <sub>1-x</sub> /Si heterostructures via point-defect concentrations introduced by ion implantation. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 2445-2447	3.4	75
79	Preparation of superconducting thin films of calcium strontium bismuth copper oxides by coevaporation. <i>Applied Physics Letters</i> , <b>1988</b> , 52, 1828-1830	3.4	67

78	Demonstration of a Fourth-Order Pole-Zero Optical Filter Integrated Using CMOS Processes. <i>Journal of Lightwave Technology</i> , <b>2007</b> , 25, 87-92	4	63
77	Evidence for Interaction Effects in the Low-Temperature Resistance Rise in Ultrathin Metallic Wires. <i>Physical Review Letters</i> , <b>1982</b> , 48, 1752-1755	7.4	58
76	Correction to the two-dimensional density of states. <i>Physical Review B</i> , <b>1985</b> , 31, 1174-1176	3.3	53
75	Parameters for in situ growth of high T <sub>c</sub> superconducting thin films using an oxygen plasma source. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 441-443	3.4	51
74	Silicon RF-Photonic Filter and Down-Converter. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 3019-3028	4	48
73	Mesotaxy: Synthesis of buried single-crystal silicide layers by implantation. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1989</b> , 39, 253-258	1.2	46
72	Formation of continuous CoSi <sub>2</sub> layers by high Co dose implantation into Si(100). <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 1629-1634	2.5	46
71	Low-temperature magnetoresistance in two-dimensional magnesium films. <i>Physical Review B</i> , <b>1984</b> , 29, 3694-3696	3.3	45
70	Patterned Electrical Conductance and Electrode Formation in Ion-Implanted Diamond Films. <i>Journal of the Electrochemical Society</i> , <b>1994</b> , 141, L41-L43	3.9	44
69	From Simple to Architecturally Complex Hydrogel Scaffolds for Cell and Tissue Engineering Applications: Opportunities Presented by Two-Photon Polymerization. <i>Advanced Healthcare Materials</i> , <b>2020</b> , 9, e1901217	10.1	43
68	Ion beam thinning and polishing of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> films. <i>Applied Physics Letters</i> , <b>1989</b> , 55, 1915-1917	3.4	42
67	A micro-scale printable nanoclip for electrical stimulation and recording in small nerves. <i>Journal of Neural Engineering</i> , <b>2017</b> , 14, 036006	5	41
66	Electrical and structural properties of Si/CrSi <sub>2</sub> /Si heterostructures fabricated using ion implantation. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 1260-1262	3.4	41
65	Application of 100 nm linewidth structures fabricated by shadowing techniques. <i>Journal of Vacuum Science and Technology</i> , <b>1981</b> , 19, 892-896		39
64	Carbon fiber on polyimide ultra-microelectrodes. <i>Journal of Neural Engineering</i> , <b>2018</b> , 15, 016010	5	36
63	40-wavelength add drop filter. <i>IEEE Photonics Technology Letters</i> , <b>1999</b> , 11, 1437-1439	2.2	36
62	Propagation of picosecond electrical pulses on a silicon-based microstrip line with buried cobalt silicide ground plane. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 2604-2606	3.4	31
61	Synthesis of Buried Silicon Compounds Using Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1988</b> , 100, 3		31

60	Dynamic Actuation of Soft 3D Micromechanical Structures Using Micro-Electromechanical Systems (MEMS). <i>Advanced Materials Technologies</i> , <b>2018</b> , 3, 1700293	6.8	30
59	Enhancement of flux pinning by H <sup>+</sup> and Xe <sup>+</sup> irradiation in epitaxial thin films of Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Applied Physics Letters</i> , <b>1992</b> , 60, 2932-2934	3.4	29
58	Oxygen intercalation homogeneity and electrical transport in superconducting Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7-<math>\delta</math></sub> crystals. <i>Physical Review B</i> , <b>1988</b> , 38, 7129-7132	3.3	29
57	Characterization of GaAs layers grown directly on Si substrates by metalorganic chemical vapor deposition. <i>Journal of Applied Physics</i> , <b>1987</b> , 62, 862-867	2.5	28
56	Quantum transport in narrow MOSFET channels. <i>Surface Science</i> , <b>1986</b> , 170, 1-13	1.8	27
55	CMOS-Compatible Si-Ring-Assisted Mach-Zehnder Interferometer With Internal Bandwidth Equalization. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2010</b> , 16, 45-52	3.8	26
54	Arrayed waveguide lens wavelength add-drop in silica. <i>IEEE Photonics Technology Letters</i> , <b>1999</b> , 11, 557-559		26
53	Exploiting Si/CoSi <sub>2</sub> /Si heterostructures grown by mesotaxy. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1991</b> , 59-60, 693-697	1.2	26
52	Corrections to the one-dimensional density of states: Observation of a Coulomb gap?. <i>Physical Review Letters</i> , <b>1986</b> , 56, 532-535	7.4	26
51	Synthesis of Buried Silicon Compounds Using Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 107, 3		24
50	Ultraviolet laser fabrication of strong, nearly polarization-independent Bragg reflectors in germanium-doped silica waveguides on silica substrates. <i>Applied Physics Letters</i> , <b>1994</b> , 65, 3308-3310	3.4	23
49	Temperature dependence of reactive ion etching of GaAs with CCl <sub>2</sub> F <sub>2</sub> :O <sub>2</sub> . <i>Journal of Applied Physics</i> , <b>1989</b> , 66, 3839-3849	2.5	23
48	Implantation, damage, and regrowth of high T <sub>c</sub> superconductors. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , <b>1989</b> , 37-38, 923-929	1.2	23
47	Formation of cobalt silicide in Co <sup>+</sup> implanted Si(111). <i>Applied Physics Letters</i> , <b>1991</b> , 58, 122-124	3.4	22
46	Tunable Infrared Metasurface on a Soft Polymer Scaffold. <i>Nano Letters</i> , <b>2018</b> , 18, 2802-2806	11.5	21
45	Transport in submicrometer buried mesotaxial cobalt silicide wires. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 387-389	3.4	21
44	Advances in fiber optics. <i>Bell Labs Technical Journal</i> , <b>2002</b> , 5, 168-187	0.5	20
43	Quantum transport of buried single-crystalline CoSi <sub>2</sub> layers in (111)Si and (100)Si substrates. <i>Physical Review B</i> , <b>1993</b> , 48, 8002-8015	3.3	20

42	Anisotropic strain relaxation in buried CoSi <sub>2</sub> layers formed by mesotaxy. <i>Journal of Applied Physics</i> , <b>1990</b> , 67, 787-791	2.5	20
41	Studies of 3D directed cell migration enabled by direct laser writing of curved wave topography. <i>Biofabrication</i> , <b>2019</b> , 11, 021001	10.5	19
40	Design and Realization of 3D Printed AFM Probes. <i>Small</i> , <b>2018</b> , 14, e1800162	11	19
39	Amorphization and regrowth in Si/CoSi <sub>2</sub> /Si heterostructures. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 5641-5647	2.5	19
38	High critical currents in c-axis textured Bi-Pb-Sr-Ca-Cu-O superconductor ribbons. <i>Physica C: Superconductivity and Its Applications</i> , <b>1991</b> , 177, 189-194	1.3	16
37	Buried Oxide and Silicide Formation by High-Dose Implantation in Silicon. <i>MRS Bulletin</i> , <b>1992</b> , 17, 40-46	3.2	16
36	Ion beam induced damage and superlattice formation in epitaxial YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> thin films. <i>Applied Physics Letters</i> , <b>1989</b> , 54, 1178-1180	3.4	16
35	Epitaxial order and resistivity of high temperature superconductors grown on SrTiO <sub>3</sub> . <i>Journal of Crystal Growth</i> , <b>1988</b> , 91, 386-391	1.6	16
34	Effects of 3.1-MeV proton and 1-GeV Au-ion irradiation on the magnetic flux noise and critical current of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> . <i>Physical Review B</i> , <b>1996</b> , 54, 15411-15416	3.3	15
33	Evolution of buried compound layers formed by ion implantation. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>1992</b> , 12, 107-114	3.1	15
32	Controlled misfit dislocation nucleation in Si <sub>0.90</sub> Ge <sub>0.10</sub> epitaxial layers grown on Si. <i>Applied Physics Letters</i> , <b>1993</b> , 63, 746-748	3.4	11
31	Direct laser writing for cardiac tissue engineering: a microfluidic heart on a chip with integrated transducers. <i>Lab on A Chip</i> , <b>2021</b> , 21, 1724-1737	7.2	10
30	Printable microscale interfaces for long-term peripheral nerve mapping and precision control. <i>Nature Communications</i> , <b>2020</b> , 11, 4191	17.4	9
29	Polarization-insensitive planar lightwave circuit dual-rate Mach-Zehnder delay-interferometer. <i>IEEE Photonics Technology Letters</i> , <b>2006</b> , 18, 1708-1710	2.2	8
28	Mesotaxy: Single-Crystal Growth of Buried Silicide Layers. <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 93, 93		8
27	Synthesis of buried oxide and silicide layers with ion beams. <i>Science</i> , <b>1988</b> , 241, 930-5	33.3	8
26	Fabrication of multi-material 3D structures by the integration of direct laser writing and MEMS stencil patterning. <i>Nanoscale</i> , <b>2019</b> , 11, 3261-3267	7.7	8
25	Temperature dependent segregation of metals at Si <sub>3</sub> BiO <sub>2</sub> interfaces during oxygen ion bombardment. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 426-428	3.4	7

24	Coalescence of buried CoSi <sub>2</sub> layers formed by mesotaxy in Si(111). <i>Journal of Applied Physics</i> , <b>1991</b> , 70, 7354-7361	2.5	7
23	. <i>IEEE Photonics Technology Letters</i> , <b>1992</b> , 4, 140-142	2.2	7
22	Mesotaxy Layers of IrSi <sub>3</sub> in (111)Si Formed by MeV ION Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 235, 279		6
21	Superconductivity at 121 K in a new bulk Tl-Ba-Ca-Cu-O compound. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 911-912	3.4	6
20	Interfacial structure and its effect on nucleation and growth energetics in mesotaxial Si/CoSi <sub>2</sub> /Si structures. <i>Applied Physics Letters</i> , <b>1991</b> , 59, 3467-3469	3.4	5
19	Ion-Beam-Induced Destruction of Superconducting Phase Coherence in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-x</sub> . <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 99, 531		5
18	Massively parallel cantilever-free atomic force microscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 393	17.4	5
17	Increased pinning energies and critical current densities in heavy-ion-irradiated Bi <sub>2</sub> Sr <sub>2</sub> CaCu <sub>2</sub> O <sub>8</sub> single crystals. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 759-761	3.4	4
16	The Role of Implant Temperature in the Formation of Thin Buried Oxide Layers. <i>Materials Research Society Symposia Proceedings</i> , <b>1986</b> , 74, 585		4
15	Controlled Cell Alignment Using Two-Photon Direct Laser Writing-Patterned Hydrogels in 2D and 3D. <i>Macromolecular Bioscience</i> , <b>2021</b> , 21, e2100051	5.5	4
14	Engineering a living cardiac pump on a chip using high-precision fabrication.. <i>Science Advances</i> , <b>2022</b> , 8, eabm3791	14.3	4
13	Optical Fiber Components and Devices <b>1997</b> , 267-318		2
12	Optical modulation techniques for analog signal processing and CMOS compatible electro-optic modulation <b>2008</b> ,		2
11	Sub-Micron Mesotaxial CoSi <sub>2</sub> Wires. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 279, 881		2
10	Reconstruction of (100) Silicon/Disilicide Interfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 139, 97		2
9	Lateral Confinement of Silicide Layers Synthesized with High Dose Implantation and Annealing. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 147, 223		2
8	Integrated Optical Components For WDM Systems. <i>Optics and Photonics News</i> , <b>2000</b> , 11, 26	1.9	1
7	Low Resistivity CoSi <sub>2</sub> Surface Layers for Use as Contacts in CMOS Processes. <i>Materials Research Society Symposia Proceedings</i> , <b>1991</b> , 224, 109		1

- 6 30 nm CoSi<sub>2</sub> surface layers for contact metallization in complementary metal-oxide-semiconductor processes. *Applied Physics Letters*, **1992**, 61, 2311-2313 3.4 1
- 5 Carbon Fiber on Polyimide Ultra-Microelectrodes 1
- 4 Application of Novel Epitaxy Techniques to the Growth of CrSi<sub>2</sub>. *Materials Research Society Symposia Proceedings*, **1993**, 320, 453
- 3 Evolution of Buried Cobalt Silicide Layers Formed by Co Implantation in Si(111). *Materials Research Society Symposia Proceedings*, **1990**, 202, 665
- 2 Studies of CoSi<sub>2</sub> nano-structures produced by high-dose ion implantation in Si. *Proceedings Annual Meeting Electron Microscopy Society of America*, **1989**, 47, 454-455
- 1 Optical Fiber Components and Devices **1997**, 267-318