

# Alice E White

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/6029591/alice-e-white-publications-by-year.pdf>

**Version:** 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95  
papers

5,356  
citations

33  
h-index

72  
g-index

96  
ext. papers

5,672  
ext. citations

5.3  
avg, IF

4.59  
L-index

#	Paper	IF	Citations
95	Engineering a living cardiac pump on a chip using high-precision fabrication.. <i>Science Advances</i> , <b>2022</b> , 8, eabm3791	14.3	4
94	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
93	Massively parallel cantilever-free atomic force microscopy. <i>Nature Communications</i> , <b>2021</b> , 12, 393	17.4	5
92	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
91	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
90	Printable microscale interfaces for long-term peripheral nerve mapping and precision control. <i>Nature Communications</i> , <b>2020</b> , 11, 4191	17.4	9
89	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
88	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
87	Tunable Infrared Metasurface on a Soft Polymer Scaffold. <i>Nano Letters</i> , <b>2018</b> , 18, 2802-2806	11.5	21
86	Design and Realization of 3D Printed AFM Probes. <i>Small</i> , <b>2018</b> , 14, e1800162	11	19
85	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
84	Carbon fiber on polyimide ultra-microelectrodes. <i>Journal of Neural Engineering</i> , <b>2018</b> , 15, 016010	5	36
83	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
82	Silicon RF-Photonic Filter and Down-Converter. <i>Journal of Lightwave Technology</i> , <b>2010</b> , 28, 3019-3028	4	48
81	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
80	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
79	Optical modulation techniques for analog signal processing and CMOS compatible electro-optic modulation <b>2008</b> ,		2

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	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
76	Advances in fiber optics. <i>Bell Labs Technical Journal</i> , <b>2002</b> , 5, 168-187	0.5	20
75	Integrated Optical Components For WDM Systems. <i>Optics and Photonics News</i> , <b>2000</b> , 11, 26	1.9	1
74	Arrayed waveguide lens wavelength add-drop in silica. <i>IEEE Photonics Technology Letters</i> , <b>1999</b> , 11, 557-559		26
73	40-wavelength add drop filter. <i>IEEE Photonics Technology Letters</i> , <b>1999</b> , 11, 1437-1439	2.2	36
72	Temperature dependent segregation of metals at Si/SiO <sub>2</sub> interfaces during oxygen ion bombardment. <i>Applied Physics Letters</i> , <b>1997</b> , 70, 426-428	3.4	7
71	Optical Fiber Components and Devices <b>1997</b> , 267-318		2
70	Optical Fiber Components and Devices <b>1997</b> , 267-318		
69	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-δ</sub> . <i>Physical Review B</i> , <b>1996</b> , 54, 15411-15416	3.3	15
68	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
67	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
66	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
65	Equilibrium shape of Si. <i>Physical Review Letters</i> , <b>1993</b> , 70, 1643-1646	7.4	442
64	Transport in submicrometer buried mesotaxial cobalt silicide wires. <i>Applied Physics Letters</i> , <b>1993</b> , 62, 387-389	3.4	21
63	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
62	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
61	Application of Novel Epitaxy Techniques to the Growth of CrSi <sub>2</sub> . <i>Materials Research Society Symposia Proceedings</i> , <b>1993</b> , 320, 453		

60	Buried Oxide and Silicide Formation by High-Dose Implantation in Silicon. <i>MRS Bulletin</i> , <b>1992</b> , 17, 40-46	3.2	16
59	30 nm CoSi <sub>2</sub> surface layers for contact metallization in complementary metal-oxide-semiconductor processes. <i>Applied Physics Letters</i> , <b>1992</b> , 61, 2311-2313	3.4	1
58	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</sub> ∓. <i>Applied Physics Letters</i> , <b>1992</b> , 60, 2932-2934	3.4	29
57	Sub-Micron Mesotaxial CoSi <sub>2</sub> Wires. <i>Materials Research Society Symposia Proceedings</i> , <b>1992</b> , 279, 881		2
56	. <i>IEEE Photonics Technology Letters</i> , <b>1992</b> , 4, 140-142	2.2	7
55	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
54	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
53	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
52	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
51	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
50	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
49	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
48	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
47	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
46	Evolution of Buried Cobalt Silicide Layers Formed by Co Implantation in Si(111). <i>Materials Research Society Symposia Proceedings</i> , <b>1990</b> , 202, 665		
45	Critical currents in proton-irradiated single-crystal Ba <sub>2</sub> YCu <sub>3</sub> O <sub>7</sub> ∓. <i>Applied Physics Letters</i> , <b>1990</b> , 56, 2681-2683		81
44	Amorphization and regrowth in Si/CoSi <sub>2</sub> /Si heterostructures. <i>Journal of Applied Physics</i> , <b>1990</b> , 68, 5641-5647		19
43	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

42	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
41	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
40	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
39	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
38	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
37	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
36	Ion-beam-induced metal-insulator transition in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> : A mobility edge. <i>Physical Review B</i> , <b>1989</b> , 39, 11599-11602	3.3	132
35	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
34	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
33	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
32	Reconstruction of (100) Silicon/Disilicide Interfaces. <i>Materials Research Society Symposia Proceedings</i> , <b>1989</b> , 139, 97		2
31	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
30	Studies of CoSi <sub>2</sub> nano-structures produced by high-dose ion implantation in Si. <i>Proceedings Annual Meeting Electron Microscopy Society of America</i> , <b>1989</b> , 47, 454-455		
29	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
28	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
27	Controllable reduction of critical currents in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> films. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 1010-1012	3.4	95
26	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
25	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

24	In situ epitaxial growth of Y1Ba2Cu3O7- $\delta$ films by molecular beam epitaxy with an activated oxygen source. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 2683-2685	3-4	131
23	Ion-beam-induced destruction of superconducting phase coherence in YBa2Cu3O7- $\delta$ . <i>Physical Review B</i> , <b>1988</b> , 37, 3755-3758	3-3	96
22	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
21	Parameters for in situ growth of high Tc superconducting thin films using an oxygen plasma source. <i>Applied Physics Letters</i> , <b>1988</b> , 53, 441-443	3-4	51
20	Synthesis of buried oxide and silicide layers with ion beams. <i>Science</i> , <b>1988</b> , 241, 930-5	33-3	8
19	Synthesis of Buried Silicon Compounds Using Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1988</b> , 100, 3		31
18	Nonzero isotope effect in La1.85Sr. <i>Physical Review Letters</i> , <b>1987</b> , 59, 912-914	7-4	207
17	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
16	Mesotaxy: Single-crystal growth of buried CoSi2 layers. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 95-97	3-4	393
15	Mechanisms of buried oxide formation by ion implantation. <i>Applied Physics Letters</i> , <b>1987</b> , 50, 19-21	3-4	77
14	Isotope effect in the high-Tc superconductors Ba2YCu3O7 and Ba2EuCu3O7. <i>Physical Review Letters</i> , <b>1987</b> , 58, 2333-2336	7-4	496
13	Synthesis of Buried Silicon Compounds Using Ion Implantation. <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 107, 3		24
12	Mesotaxy: Single-Crystal Growth of Buried Silicide Layers. <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 93, 93		8
11	Ion-Beam-Induced Destruction of Superconducting Phase Coherence in YBa2Cu3O7- $\delta$ . <i>Materials Research Society Symposia Proceedings</i> , <b>1987</b> , 99, 531		5
10	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
9	Destruction of superconductivity in quench-condensed two-dimensional films. <i>Physical Review B</i> , <b>1986</b> , 33, 3549-3552	3-3	148
8	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
7	Quantum transport in narrow MOSFET channels. <i>Surface Science</i> , <b>1986</b> , 170, 1-13	1-8	27

6	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
5	Correction to the two-dimensional density of states. <i>Physical Review B</i> , <b>1985</b> , 31, 1174-1176	3.3	53
4	Low-temperature magnetoresistance in two-dimensional magnesium films. <i>Physical Review B</i> , <b>1984</b> , 29, 3694-3696	3.3	45
3	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
2	Application of $\approx 100$ nm linewidth structures fabricated by shadowing techniques. <i>Journal of Vacuum Science and Technology</i> , <b>1981</b> , 19, 892-896		39
1	Carbon Fiber on Polyimide Ultra-Microelectrodes		1