

Ari Alastalo

List of Publications by Year in descending order

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47
papers

1,215
citations

393982

19
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377514

34
g-index

48
all docs

48
docs citations

48
times ranked

1524
citing authors

#	ARTICLE	IF	CITATIONS
1	Electrical sintering of nanoparticle structures. Nanotechnology, 2008, 19, 175201.	1.3	292
2	Flexography-Printed In ₂ O ₃ Semiconductor Layers for High-Mobility Thin-Film Transistors on Flexible Plastic Substrate. Advanced Materials, 2015, 27, 7168-7175.	11.1	116
3	Contactless Electrical Sintering of Silver Nanoparticles on Flexible Substrates. IEEE Transactions on Microwave Theory and Techniques, 2011, 59, 1419-1429.	2.9	72
4	Far-UV Annealed Inkjet-Printed In ₂ O ₃ Semiconductor Layers for Thin-Film Transistors on a Flexible Polyethylene Naphthalate Substrate. ACS Applied Materials & Interfaces, 2017, 9, 8774-8782.	4.0	71
5	Printed, Highly Stable Metal Oxide Thin-Film Transistors with Ultra-Thin High- ϵ_r Oxide Dielectric. Advanced Electronic Materials, 2020, 6, 1901071.	2.6	57
6	Rapid low-temperature processing of metal-oxide thin film transistors with combined far ultraviolet and thermal annealing. Applied Physics Letters, 2014, 105, .	1.5	48
7	Substrate-facilitated nanoparticle sintering and component interconnection procedure. Nanotechnology, 2010, 21, 475204.	1.3	41
8	Systematic Design of Printable Metasurfaces: Validation Through Reverse-Offset Printed Millimeter-Wave Absorbers. IEEE Transactions on Antennas and Propagation, 2018, 66, 1340-1351.	3.1	32
9	Smart-antenna operation for indoor wireless local-area networks using OFDM. IEEE Transactions on Wireless Communications, 2003, 2, 392-399.	6.1	31
10	18.1:Invited Paper: Roll-to-Roll Manufacturing of Printed OLEDs. Digest of Technical Papers SID International Symposium, 2013, 44, 192-195.	0.1	31
11	Printed WORM Memory on a Flexible Substrate Based on Rapid Electrical Sintering of Nanoparticles. IEEE Transactions on Electron Devices, 2011, 58, 151-159.	1.6	29
12	Reverse-Offset Printing of Metal-Nitrate-Based Metal Oxide Semiconductor Ink for Flexible TFTs. Advanced Electronic Materials, 2019, 5, 1900272.	2.6	26
13	Electrostatic transducers for micromechanical resonators: free space and solid dielectric. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2006, 53, 2484-2489.	1.7	24
14	Intermodulation in capacitively coupled microelectromechanical filters. IEEE Electron Device Letters, 2005, 26, 289-291.	2.2	22
15	Reverse Offset Printing of Semidried Metal Acetylacetonate Layers and Its Application to a Solution-Processed IGZO TFT Fabrication. ACS Applied Materials & Interfaces, 2018, 10, 24339-24343.	4.0	22
16	Third-Order Intermodulation in Microelectromechanical Filters Coupled With Capacitive Transducers. Journal of Microelectromechanical Systems, 2006, 15, 141-148.	1.7	21
17	Piezoelectrically transduced single-crystal-silicon plate resonators. , 2008, , .		20
18	In ₂ O ₃ Thin-Film Transistors via Inkjet Printing for Depletion-Load nMOS Inverters. IEEE Electron Device Letters, 2016, 37, 445-448.	2.2	20

#	ARTICLE	IF	CITATIONS
19	High performance solution processed oxide thin-film transistors with inkjet printed Ag source-drain electrodes. Journal of Materials Chemistry C, 2018, 6, 3220-3225.	2.7	20
20	Wireless ferroelectric resonating sensor. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2010, 57, 785-791.	1.7	19
21	Roll-to-roll printed resistive WORM memory on a flexible substrate. Nanotechnology, 2012, 23, 305204.	1.3	19
22	Reverse-offset for roll-to-roll high-resolution printing. Flexible and Printed Electronics, 2018, 3, 014001.	1.5	19
23	Technical Solutions for Automotive Intermodulation Radar for Detecting Vulnerable Road Users. , 2009, , .		18
24	Inkjet-Printed Ternary Oxide Dielectric and Doped Interface Layer for Metal-Oxide Thin-Film Transistors with Low Voltage Operation. Advanced Materials Interfaces, 2021, 8, 2100728.	1.9	16
25	All-Printed Transistors on Nano Cellulose Substrate. MRS Advances, 2016, 1, 645-650.	0.5	13
26	0.6V Threshold Voltage Thin Film Transistors With Solution Processable Indium Oxide ($\text{In}_{2}\text{O}_{3}$) Channel and Anodized High- κ $\text{Al}_{2}\text{O}_{3}$ Dielectric. IEEE Electron Device Letters, 2019, 40, 1112-1115.	2.2	13
27	Printed Low-Voltage Fuse Memory on Paper. IEEE Electron Device Letters, 2014, 35, 354-356.	2.2	12
28	Modelling of nanoparticle sintering under electrical boundary conditions. Journal Physics D: Applied Physics, 2010, 43, 485501.	1.3	11
29	Synthesis of cobalt nanoparticles to enhance magnetic permeability of metal-polymer composites. Advanced Powder Technology, 2011, 22, 649-656.	2.0	11
30	Analysis of a MEMS transmission line. IEEE Transactions on Microwave Theory and Techniques, 2003, 51, 1977-1981.	2.9	9
31	Gravure printed sol-gel derived AlOOH hybrid nanocomposite thin films for printed electronics. Journal of Materials Chemistry C, 2015, 3, 1776-1786.	2.7	9
32	Contactless read-out of printed memory. Microelectronic Engineering, 2011, 88, 2941-2945.	1.1	8
33	Suitability of roll-to-roll reverse offset printing for mass production of millimeter-wave antennas: Progress report. , 2016, , .		7
34	Microelectromechanical delay lines with slow signal propagation. Journal of Micromechanics and Microengineering, 2006, 16, 1854-1860.	1.5	5
35	Printed zinc tin oxide diodes: from combustion synthesis to large-scale manufacturing. Flexible and Printed Electronics, 2022, 7, 014005.	1.5	5
36	The Anderson model in a superconductor: -derivable theory. Journal of Physics Condensed Matter, 1998, 10, L63-L68.	0.7	4

#	ARTICLE	IF	CITATIONS
37	Correction to "Improvement of the Conversion Performance of a Resonating Multimode Microelectromechanical Mixer-Filter Through Parametric Amplification". IEEE Electron Device Letters, 2008, 29, 957-957.	2.2	4
38	Piezoelectrically actuated micromechanical BAW resonators. , 2008, , .		4
39	Towards printed millimeter-wave components: Material characterization. , 2016, , .		4
40	Variable Antenna Load for Transmitter Efficiency Improvement. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1666-1672.	2.9	3
41	A process for SOI resonators with surface micromachined covers and reduced electrostatic gaps. Journal of Micromechanics and Microengineering, 2010, 20, 045003.	1.5	3
42	Printed low-voltage programmable write-once-read-many-memories. , 2014, , .		1
43	Studies on applicability of reverse offset in printing millimeter-wave antennas on flexible substrates. , 2017, , .		1
44	Correction to "Towards micromechanical radio: overtone excitations of a microresonator through the nonlinearities of the second and third order". Journal of Microelectromechanical Systems, 2008, 17, 1557-1557.	1.7	0
45	Modelling of printable metal-oxide TFTs for circuit simulation. , 2014, , .		0
46	Effect of UV light and low temperature on solution-processed, high-performance metal-oxide semiconductors and TFTs. , 2014, , .		0
47	Second-order perturbation theory for the single-impurity Anderson model of a BCS superconductor. Journal of Magnetism and Magnetic Materials, 2017, 438, 193-203.	1.0	0