# Soeren Steudel

List of Publications by Year
in descending order

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| 87 | 2,974 | 172457 | 175258 |
|---|---|---|---|
| papers | citations | 29 h-index | 52 g-index |

| 88 | 88 | 88 | 3229 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | External compensation for highâ€resolution active matrix organic lightâ€emitting diode displays. Journal of the Society for Information Display, 2021, 29, 511-525. | 2.1 | 5 |
| 2 | Origin of High Current and Illumination Stress Instability in Self-Aligned a-InGaZnO Thin Film Transistors With Al<sub>2</sub>O<sub>3</sub> as High-Î° Gate Dielectric. IEEE Electron Device Letters, 2020, 41, 565-568. | 3.9 | 11 |
| 3 | (Invited) Sub-40mV Sigma V<sub>TH</sub> Igzo nFETs in 300mm Fab. ECS Transactions, 2020, 98, 205-217. | 0.5 | 7 |
| 4 | Flexible 16nJ/c.s. 134S/s 6b MIM C-2C ADC using Dual Gate Self-aligned Unipolar Metal-Oxide TFTs. , 2019, , . | | 6 |
| 5 | 9â€1: Invited Paper: Metalâ€oxide readout electronics based on Indiumâ€Galliumâ€Zincâ€Oxide and Indiumâ€Tinâ€Zincâ€Oxide for inâ€panel fingerprint detection application. Digest of Technical Papers SID International Symposium, 2019, 50, 95-98. | 0.3 | 9 |
| 6 | Highâ€temperature thinâ€film barriers for foldable <scp>AMOLED</scp> displays. Journal of the Society for Information Display, 2018, 26, 214-222. | 2.1 | 4 |
| 7 | High resolution photolithography for direct view active matrix organic light-emitting diode augmented reality displays. Journal of the Society for Information Display, 2018, 26, 128-136. | 2.1 | 22 |
| 8 | Self-Aligned Amorphous Indium-Tin-Zinc-Oxide Thin Film Transistors on Polyimide Foil. ECS Journal of Solid State Science and Technology, 2018, 7, P185-P191. | 1.8 | 10 |
| 9 | In-Panel 31.17dB 140kHz 87ÂµW Unipolar Dual-Gate In-Ga-Zn-O Charge-Sense Amplifier for 500dpi Sensor Array on Flexible Displays. , 2018, , . | | 3 |
| 10 | Effect of High Oxygen Partial Pressure on Carrier Transport Mechanism in a-InGaZnO TFTs. IEEE Transactions on Electron Devices, 2018, 65, 2833-2837. | 3.0 | 9 |
| 11 | 15.2 A flexible ISO14443-A compliant 7.5mW 128b metal-oxide NFC barcode tag with direct clock division circuit from 13.56MHz carrier. , 2017, , . | | 42 |
| 12 | Power saving through state retention in IGZO-TFT AMOLED displays for wearable applications. Journal of the Society for Information Display, 2017, 25, 222-228. | 2.1 | 44 |
| 13 | Characteristics improvement of topâ€gate selfâ€aligned amorphous indium gallium zinc oxide thinâ€film transistors using a dualâ€gate control. Journal of the Society for Information Display, 2017, 25, 349-355. | 2.1 | 26 |
| 14 | 5â€3: Distinguished Paper: Power Saving through State Retention in IGZOâ€TFT AMOLED Displays for Wearable Applications. Digest of Technical Papers SID International Symposium, 2017, 48, 38-41. | 0.3 | 2 |
| 15 | ESD characterisation of a-IGZO TFTs on Si and foil substrates. , 2017, , . | | 2 |
| 16 | An active artificial iris controlled by a 25-Î¼W flexible thin-film driver. , 2016, , . | | 4 |
| 17 | 16.6 Flexible thin-film NFC transponder chip exhibiting data rates compatible to ISO NFC standards using self-aligned metal-oxide TFTs. , 2016, , . | | 35 |
| 18 | 16.5 A flexible thin-film pixel array with a charge-to-current gain of 59ÂµA/pC and 0.33% nonlinearity and a cost effective readout circuit for large-area X-ray imaging. , 2016, , . | | 7 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Paper No S12.5: Selfâ€Aligned aâ€IGZO TFTs: Impact of S/D Contacts Formation on Their Negativeâ€Biasâ€Illuminationâ€Stress (NBIS) Instability. Digest of Technical Papers SID International Symposium, 2015, 46, 55-55. | 0.3 | 0 |
| 20 | Pâ€6: Impact of Buffer Layers on the Selfâ€Aligned Topâ€Gate aâ€IGZO TFT Characteristics. Digest of Technical Papers SID International Symposium, 2015, 46, 1139-1142. | 0.3 | 4 |
| 21 | Impact of source/drain contacts formation of selfâ€aligned amorphousâ€IGZO TFTs on their negativeâ€biasâ€illuminationâ€stress stabilities. Journal of the Society for Information Display, 2015, 23, 397-402. | 2.1 | 4 |
| 22 | 29.4: Flexible AMOLED Display with Integrated Gate Driver Operating at Operation Speed Compatible with 4k2k. Digest of Technical Papers SID International Symposium, 2015, 46, 427-430. | 0.3 | 8 |
| 23 | Analysis of frequency dispersion in amorphous Inâ€“Gaâ€“Znâ€“O thin-film transistors. Journal of Information Display, 2015, 16, 31-36. | 4.0 | 11 |
| 24 | Organic photodetectors with active layer patterned by lithography. , 2015, , . | | 0 |
| 25 | Integrated Line Driver for Digital Pulse-Width Modulation Driven AMOLED Displays on Flex. IEEE Journal of Solid-State Circuits, 2015, 50, 282-290. | 5.4 | 20 |
| 26 | Low-temperature formation of sourceâ€“drain contacts in self-aligned amorphous oxide thin-film transistors. Journal of Information Display, 2015, 16, 111-117. | 4.0 | 23 |
| 27 | Impact of the Low Temperature Gate Dielectrics on Device Performance and Bias-Stress Stabilities of a-IGZO Thin-Film Transistors. ECS Journal of Solid State Science and Technology, 2015, 4, N99-N102. | 1.8 | 16 |
| 28 | Uniform Aerosol Jet printed polymer lines with 30Î¼m width for 140ppi resolution RGB organic light emitting diodes. Organic Electronics, 2015, 22, 40-43. | 2.6 | 77 |
| 29 | Medium Frequency Physical Vapor Deposited Al<sub>2</sub>O<sub>3</sub>and SiO<sub>2</sub>as Etch-Stop-Layers for Amorphous Indium-Gallium-Zinc-Oxide Thin-Film-Transistors. ECS Journal of Solid State Science and Technology, 2015, 4, Q38-Q42. | 1.8 | 10 |
| 30 | Back-channel-etch amorphous indiumâ€“galliumâ€“zinc oxide thin-film transistors: The impact of source/drain metal etch and final passivation. Japanese Journal of Applied Physics, 2014, 53, 111401. | 1.5 | 27 |
| 31 | Comparative study of sourceâ€“drain contact metals for amorphous InGaZnO thinâ€film transistors. Journal of the Society for Information Display, 2014, 22, 310-315. | 2.1 | 6 |
| 32 | Ultralow power transponder in thin film circuit technology on foil with sub − 1V operation voltage. , 2014, , . | | 4 |
| 33 | High performance aâ€IGZO thinâ€film transistors with mfâ€PVD SiO<sub>2</sub> as an etchâ€stopâ€layer. Journal of the Society for Information Display, 2014, 22, 23-28. | 2.1 | 31 |
| 34 | 20.1: Flexible AMOLED Display and Gateâ€driver with Selfâ€aligned IGZO TFT on Plastic Foil. Digest of Technical Papers SID International Symposium, 2014, 45, 248-251. | 0.3 | 27 |
| 35 | 13.4: Flexible Low Temperature Solution Processed Oxide Semiconductor TFT Backplanes for Use in AMOLED Displays. Digest of Technical Papers SID International Symposium, 2014, 45, 161-163. | 0.3 | 13 |
| 36 | Circuits and AMOLED display with self-aligned a-IGZO TFTs on polyimide foil. Journal of the Society for Information Display, 2014, 22, 509-517. | 2.1 | 23 |

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|---|---|---|---|
| 37 | High-Performance a-IGZO Thin Film Diode as Selector for Cross-Point Memory Application. IEEE Electron Device Letters, 2014, 35, 642-644. | 3.9 | 39 |
| 38 | Photolithographic patterning of organic photodetectors with a non-fluorinated photoresist system. Organic Electronics, 2014, 15, 2355-2359. | 2.6 | 29 |
| 39 | Multiscale Modeling of the Electrostatic Impact of Self-Assembled Monolayers used as Gate Dielectric Treatment in Organic Thin-Film Transistors. ACS Applied Materials & Interfaces, 2014, 6, 15372-15378. | 8.0 | 37 |
| 40 | Scaling down of organic complementary logic gates for compact logic on foil. Organic Electronics, 2014, 15, 1229-1234. | 2.6 | 30 |
| 41 | Impact of etch stop layer on negative bias illumination stress of amorphous Indium Gallium Zinc Oxide transistors. , 2014, , . | | 2 |
| 42 | Organic RFID Tags. Integrated Circuits and Systems, 2013, , 133-155. | 0.2 | 4 |
| 43 | 18.4L: Lateâ€News Paper: Full Color Flexible Topâ€emission AMOLED Display on Polyethylene Naphthalate (PEN) Foil with Metal Oxide TFTs Backplane. Digest of Technical Papers SID International Symposium, 2013, 44, 203-206. | 0.3 | 12 |
| 44 | Singleâ€source dualâ€layer amorphous IGZO thinâ€film transistors for display and circuit applications. Journal of the Society for Information Display, 2013, 21, 129-136. | 2.1 | 40 |
| 45 | Gigahertz Operation of a-IGZO Schottky Diodes. IEEE Transactions on Electron Devices, 2013, 60, 3407-3412. | 3.0 | 64 |
| 46 | Integrated UHF a-IGZO energy harvester for passive RFID tags. , 2013, , . | | 12 |
| 47 | Novel backâ€channelâ€etch process flow based aâ€IGZO TFTs for circuit and display applications on PEN foil. Journal of the Society for Information Display, 2013, 21, 369-375. | 2.1 | 27 |
| 48 | UHF IGZO Schottky diode. , 2012, , . | | 21 |
| 49 | High-performance a-In-Ga-Zn-O Schottky diode with oxygen-treated metal contacts. Applied Physics Letters, 2012, 101, . | 3.3 | 81 |
| 50 | Solutionâ€processed and lowâ€temperature metal oxide nâ€channel thinâ€film transistors and lowâ€voltage complementary circuitry on largeâ€area flexible polyimide foil. Journal of the Society for Information Display, 2012, 20, 499-507. | 2.1 | 19 |
| 51 | Design and realization of a flexible QQVGA AMOLED display with organic TFTs. Organic Electronics, 2012, 13, 1729-1735. | 2.6 | 89 |
| 52 | A 6b 10MS/s current-steering DAC manufactured with amorphous Gallium-Indium-Zinc-Oxide TFTs achieving SFDR > 30dB up to 300kHz. , 2012, , . | | 19 |
| 53 | Interlayer Processing in Active Matrix OLED Displays. , 2011, , . | | 0 |
| 54 | Low-temperature and scalable complementary thin-film technology based on solution-processed metal oxide n-TFTs and pentacene p-TFTs. Organic Electronics, 2011, 12, 1909-1913. | 2.6 | 45 |

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| 55 | Towards EPC-Compatible Organic RFID Tags. , 2011, , 347-367. | | 0 |
| 56 | Noise-Margin Analysis for Organic Thin-Film Complementary Technology. IEEE Transactions on Electron Devices, 2010, 57, 201-208. | 3.0 | 58 |
| 57 | Pulsed Excitation of OLEDs With a Remote Metallic Cathode. IEEE Journal of Quantum Electronics, 2010, 46, 62-67. | 1.9 | 11 |
| 58 | A low-temperature-cross-linked poly(4-vinylphenol) gate-dielectric for organic thin film transistors. Thin Solid Films, 2010, 519, 391-393. | 1.8 | 32 |
| 59 | Towards EPC Compatible Plastic RFID Tags. ECS Meeting Abstracts, 2010, MA2010-02, 1830-1830. | 0.0 | 0 |
| 60 | Organic complementary oscillators with stage-delays below 1â€‚Î¼s. Applied Physics Letters, 2010, 96, 133307. | 3.3 | 34 |
| 61 | Adhesion Promoting Polymer Interlayers for Ag Layers Deposited in OLED Processing. Journal of Adhesion Science and Technology, 2010, 24, 1145-1151. | 2.6 | 5 |
| 62 | (Invited) Towards EPC Compatible Plastic RFID Tags. ECS Transactions, 2010, 33, 383-389. | 0.5 | 4 |
| 63 | An organic integrated capacitive DC-DC up-converter. , 2010, , . | | 10 |
| 64 | Design and manufacturing of organic RFID circuits: Coping with intrinsic parameter variations in organic devices by circuit design. , 2010, , . | | 4 |
| 65 | Functional Pentacene Thin Films Grown by In-Line Organic Vapor Phase Deposition at Web Speeds above 2 m/min. Applied Physics Express, 2009, 2, 086503. | 2.4 | 11 |
| 66 | High-speed growth of pentacene thin films by in-line organic vapor phase deposition. Proceedings of SPIE, 2009, , . | 0.8 | 3 |
| 67 | Plastic circuits and tags for 13.56MHz radio-frequency communication. Solid-State Electronics, 2009, 53, 1220-1226. | 1.4 | 127 |
| 68 | Nanoparticle-based, spray-coated silver top contacts for efficient polymer solar cells. Organic Electronics, 2009, 10, 735-740. | 2.6 | 103 |
| 69 | Ultra-High Frequency rectification using organic diodes. , 2008, , . | | 13 |
| 70 | An integrated double half-wave organic Schottky diode rectifier on foil operating at 13.56 MHz. Applied Physics Letters, 2008, 93, 093305. | 3.3 | 71 |
| 71 | Correlation between bias stress instability and phototransistor operation of pentacene thin-film transistors. Applied Physics Letters, 2007, 91, 103508. | 3.3 | 104 |
| 72 | Light-emitting organic field-effect transistor using an organic heterostructure within the transistor channel. Applied Physics Letters, 2006, 89, 223504. | 3.3 | 36 |

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|---|---|---|---|
| 73 | Light-emitting organic field-effect transistors using an organic heterostructure inside the transistor channel. , 2006, 6192, 71. | | 1 |
| 74 | Integrated shadow mask method for patterning small molecule organic semiconductors. Applied Physics Letters, 2006, 88, 103501. | 3.3 | 52 |
| 75 | Pentacene devices and logic gates fabricated by organic vapor phase deposition. Applied Physics Letters, 2006, 89, 203502. | 3.3 | 43 |
| 76 | Comparison of organic diode structures regarding high-frequency rectification behavior in radio-frequency identification tags. Journal of Applied Physics, 2006, 99, 114519. | 2.5 | 103 |
| 77 | Low voltage complementary organic inverters. Applied Physics Letters, 2006, 88, 162116. | 3.3 | 61 |
| 78 | Self-aligned surface treatment for thin-film organic transistors. Applied Physics Letters, 2006, 88, 222103. | 3.3 | 34 |
| 79 | Patterning of organic thin film transistors by oxygen plasma etch. Applied Physics Letters, 2006, 89, 183503. | 3.3 | 42 |
| 80 | 50 MHz rectifier based on an organic diode. Nature Materials, 2005, 4, 597-600. | 27.5 | 240 |
| 81 | High-Performance Low Voltage Organic Thin-Film Transistors. Materials Research Society Symposia Proceedings, 2005, 870, 141. | 0.1 | 9 |
| 82 | Patterned growth of pentacene. Applied Physics Letters, 2004, 85, 5550-5552. | 3.3 | 46 |
| 83 | Patterned growth of organic small-molecule layers. Materials Research Society Symposia Proceedings, 2004, 814, 119. | 0.1 | 0 |
| 84 | Influence of the dielectric roughness on the performance of pentacene transistors. Applied Physics Letters, 2004, 85, 4400. | 3.3 | 362 |
| 85 | Nucleation of organic semiconductors on inert substrates. Physical Review B, 2003, 68, . | 3.2 | 231 |
| 86 | Intra-Grain and Oligo-Grain Top-Contact Organic Thin film Transistors. Materials Research Society Symposia Proceedings, 2003, 771, 691. | 0.1 | 0 |
| 87 | Organic RFID Tags. , 0, , . | | 2 |