

Ioannis Kymissis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1157138/publications.pdf>

Version: 2024-02-01

192
papers

6,480
citations

93792

39
h-index

84171

75
g-index

198
all docs

198
docs citations

198
times ranked

10317
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Low-Voltage Organic Transistors on Plastic Comprising High-Dielectric Constant Gate Insulators. <i>Science</i> , 1999, 283, 822-824. | 6.0 | 866 |
| 2 | Performance of monolayer graphene nanomechanical resonators with electrical readout. <i>Nature Nanotechnology</i> , 2009, 4, 861-867. | 15.6 | 847 |
| 3 | High-performance bottom electrode organic thin-film transistors. <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 1060-1064. | 1.6 | 286 |
| 4 | Orientation of luminescent excitons in layered nanomaterials. <i>Nature Nanotechnology</i> , 2013, 8, 271-276. | 15.6 | 250 |
| 5 | Low-Voltage, High-Mobility Pentacene Transistors with Solution-Processed High Dielectric Constant Insulators. <i>Advanced Materials</i> , 1999, 11, 1372-1375. | 11.1 | 157 |
| 6 | An integrated CMOS quantitative-polymerase-chain-reaction lab-on-chip for point-of-care diagnostics. <i>Lab on A Chip</i> , 2014, 14, 4076-4084. | 3.1 | 149 |
| 7 | Movers and Shakers: Kinetic Energy Harvesting for the Internet of Things. <i>IEEE Journal on Selected Areas in Communications</i> , 2015, 33, 1624-1639. | 9.7 | 117 |
| 8 | A High-ε Capacitance Salt-Free Dielectric for Self-Healable, Printable, and Flexible Organic Field Effect Transistors and Chemical Sensor. <i>Advanced Functional Materials</i> , 2015, 25, 3745-3755. | 7.8 | 113 |
| 9 | Low-Voltage Organic Electronics Based on a Gate-Tunable Injection Barrier in Vertical graphene-organic Semiconductor Heterostructures. <i>Nano Letters</i> , 2015, 15, 69-74. | 4.5 | 105 |
| 10 | High κ Capacitors and OFET Gate Dielectrics from Self-Assembled BaTiO ₃ and (Ba,Sr)TiO ₃ Nanocrystals in the Superparaelectric Limit. <i>Advanced Functional Materials</i> , 2010, 20, 554-560. | 7.8 | 98 |
| 11 | Patterning pentacene organic thin film transistors. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2002, 20, 956. | 1.6 | 97 |
| 12 | Limits of Carrier Diffusion in <i>n</i> -Type and <i>p</i> -Type CH ₃ NH ₃ PbI ₃ Perovskite Single Crystals. <i>Journal of Physical Chemistry Letters</i> , 2016, 7, 3510-3518. | 2.1 | 86 |
| 13 | Lab kits using the Arduino prototyping platform. , 2010, , . | | 84 |
| 14 | Graphene-organic hybrid electronics. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4598-4613. | 2.7 | 84 |
| 15 | Energy harvesting active networked tags (EnHANTs) for ubiquitous object networking. <i>IEEE Wireless Communications</i> , 2010, 17, 18-25. | 6.6 | 83 |
| 16 | Tunable threshold voltage and flatband voltage in pentacene field effect transistors. <i>Applied Physics Letters</i> , 2006, 89, 112109. | 1.5 | 80 |
| 17 | Reticulated Heterojunctions for Photovoltaic Devices. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 7909-7912. | 7.2 | 80 |
| 18 | Organic Field Effect Transistors. <i>Integrated Circuits and Systems</i> , 2009, , . | 0.2 | 78 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Review of Gravimetric Sensing of Volatile Organic Compounds. ACS Sensors, 2020, 5, 1514-1534. | 4.0 | 77 |
| 20 | Decoupling the Effects of Self-Assembled Monolayers on Gold, Silver, and Copper Organic Transistor Contacts. Advanced Materials Interfaces, 2015, 2, 1400384. | 1.9 | 75 |
| 21 | Electrical and optical characterization of field emitter tips with integrated vertically stacked focus. IEEE Transactions on Electron Devices, 2003, 50, 2548-2558. | 1.6 | 74 |
| 22 | Photovoltaic Universal Joints: Ball-and-Socket Interfaces in Molecular Photovoltaic Cells. ChemPhysChem, 2010, 11, 799-803. | 1.0 | 74 |
| 23 | A high-resolution spectrometer based on a compact planar two dimensional photonic crystal cavity array. Applied Physics Letters, 2012, 100, 231104. | 1.5 | 73 |
| 24 | Challenge. , 2009, , . | | 71 |
| 25 | Observation of Ground- and Excited-State Charge Transfer at the C ₆₀ /Graphene Interface. ACS Nano, 2015, 9, 7175-7185. | 7.3 | 69 |
| 26 | Direct extraction of mobility in pentacene OFETs using C-V and I-V measurements. IEEE Electron Device Letters, 2005, 26, 716-718. | 2.2 | 68 |
| 27 | FBAR-CMOS Oscillator Array for Mass-Sensing Applications. IEEE Sensors Journal, 2010, 10, 1042-1047. | 2.4 | 63 |
| 28 | Photonic crystal spectrometer. Optics Express, 2010, 18, 8277. | 1.7 | 61 |
| 29 | Single-layer graphene cathodes for organic photovoltaics. Applied Physics Letters, 2011, 98, . | 1.5 | 60 |
| 30 | Engineering density of semiconductor-dielectric interface states to modulate threshold voltage in OFETs. IEEE Transactions on Electron Devices, 2006, 53, 9-13. | 1.6 | 59 |
| 31 | Micro-LED Technologies and Applications. Information Display, 2016, 32, 16-23. | 0.1 | 57 |
| 32 | An Organic Active-Matrix Imager. IEEE Transactions on Electron Devices, 2008, 55, 527-532. | 1.6 | 56 |
| 33 | Single-crystal-to-single-crystal intercalation of a low-bandgap superatomic crystal. Nature Chemistry, 2017, 9, 1170-1174. | 6.6 | 56 |
| 34 | Memory effect from charge trapping in layered organic structures. Applied Physics Letters, 2004, 85, 4666-4668. | 1.5 | 53 |
| 35 | Morphological and Spectroscopic Studies of Electrochemically Deposited Poly(3,4-ethylenedioxythiophene) (PEDOT) Hole Extraction Layer for Organic Photovoltaic Device (OPVd) Fabrication. Journal of Physical Chemistry C, 2011, 115, 4307-4314. | 1.5 | 53 |
| 36 | A Locally Amplified Strain Sensor Based on a Piezoelectric Polymer and Organic Field-Effect Transistors. IEEE Transactions on Electron Devices, 2011, 58, 910-917. | 1.6 | 47 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 37 | Printable ammonia sensor based on organic field effect transistor. <i>Organic Electronics</i> , 2014, 15, 3221-3230. | 1.4 | 47 |
| 38 | Movers and shakers. , 2014, , . | | 45 |
| 39 | Solar Cells from a Solution Processable Pentacene with Improved Air Stability. <i>Chemistry of Materials</i> , 2009, 21, 4090-4092. | 3.2 | 43 |
| 40 | Donor-acceptor Shape Matching Drives Performance in Photovoltaics. <i>Advanced Energy Materials</i> , 2013, 3, 894-902. | 10.2 | 43 |
| 41 | High carrier mobility in graphene doped using a monolayer of tungsten oxyselenide. <i>Nature Electronics</i> , 2021, 4, 731-739. | 13.1 | 41 |
| 42 | In situ study of pentacene interaction with archetypal hybrid contacts: Fluorinated versus alkane thiols on gold. <i>Physical Review B</i> , 2010, 82, . | 1.1 | 40 |
| 43 | PVDF-Based Piezoelectric Microphone for Sound Detection Inside the Cochlea: Toward Totally Implantable Cochlear Implants. <i>Trends in Hearing</i> , 2018, 22, 233121651877445. | 0.7 | 40 |
| 44 | Energy-Harvesting Active Networked Tags (EnHANTs). <i>ACM Transactions on Sensor Networks</i> , 2015, 11, 1-27. | 2.3 | 38 |
| 45 | Encapsulated graphene field-effect transistors for air stable operation. <i>Applied Physics Letters</i> , 2015, 106, . | 1.5 | 35 |
| 46 | Movers and shakers. <i>Performance Evaluation Review</i> , 2014, 42, 407-419. | 0.4 | 34 |
| 47 | trans-trans-2,5-Bis-[2,5-(2,2-bithienyl)ethenyl]thiophene: synthesis, characterization, thin film deposition and fabrication of organic field-effect transistors. <i>Synthetic Metals</i> , 1997, 89, 193-197. | 2.1 | 32 |
| 48 | A Sensorized Multicurved Robot Finger With Data-Driven Touch Sensing via Overlapping Light Signals. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2416-2427. | 3.7 | 31 |
| 49 | Effect of solubilizing agent on properties of poly(3,4-ethylenedioxythiophene) (PEDOT) electrodeposited from aqueous solution. <i>Electrochimica Acta</i> , 2012, 78, 638-643. | 2.6 | 30 |
| 50 | Templating and Charge Injection from Copper Electrodes into Solution-Processed Organic Field-Effect Transistors. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 3716-3721. | 4.0 | 29 |
| 51 | Organic Thin-Film Transistors as Gas Sensors: A Review. <i>Materials</i> , 2021, 14, 3. | 1.3 | 29 |
| 52 | A Hybrid Electronic Nose and Tongue for the Detection of Ketones: Improved Sensor Orthogonality Using Graphene Oxide-Based Detectors. <i>IEEE Sensors Journal</i> , 2017, 17, 1971-1980. | 2.4 | 28 |
| 53 | Laboratory Thin-Film Encapsulation of Air-Sensitive Organic Semiconductor Devices. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 153-156. | 1.6 | 27 |
| 54 | A Lithographic Process for Integrated Organic Field-Effect Transistors. <i>Journal of Display Technology</i> , 2005, 1, 289-294. | 1.3 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A 4.4- μ W Wake-Up Receiver Using Ultrasound Data. IEEE Journal of Solid-State Circuits, 2013, 48, 649-660. | 3.5 | 26 |
| 56 | Prototyping energy harvesting active networked tags (EnHANTs). , 2013, , . | | 25 |
| 57 | Triple-Mode, Hybrid-Storage, Energy Harvesting Power Management Unit: Achieving High Efficiency Against Harvesting and Load Power Variabilities. IEEE Journal of Solid-State Circuits, 2017, 52, 2550-2562. | 3.5 | 25 |
| 58 | Double-gated silicon field emitters. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2003, 21, 486. | 1.6 | 22 |
| 59 | Electrochemically prepared polymer solar cell by three-layer deposition of poly(3,4-ethylenedioxythiophene)/poly(2,2 ϵ^2 -bithiophene)/fullerene (PEDOT/PBT/C60). Polymer, 2011, 52, 3627-3632. | 1.8 | 21 |
| 60 | Substituted triphenylamines as building blocks for star shaped organic electronic materials. New Journal of Chemistry, 2015, 39, 1840-1851. | 1.4 | 21 |
| 61 | Improving the radiation hardness of graphene field effect transistors. Applied Physics Letters, 2016, 109, . | 1.5 | 21 |
| 62 | Organic Thin Film Transistors in Mechanical Sensors. Advanced Functional Materials, 2020, 30, 2004700. | 7.8 | 21 |
| 63 | Impedance spectroscopy on copper phthalocyanine diodes with surface-induced molecular orientation. Organic Electronics, 2014, 15, 1724-1730. | 1.4 | 20 |
| 64 | Employing Pneumatic Nozzle Printing for Controlling the Crystal Growth of Small Molecule Organic Semiconductor for Field ϵ Effect Transistors. Advanced Electronic Materials, 2018, 4, 1700534. | 2.6 | 20 |
| 65 | Field emission from a patterned organic conducting composite. Applied Physics Letters, 2003, 82, 2347-2349. | 1.5 | 19 |
| 66 | Gene expression analysis with an integrated CMOS microarray by time-resolved fluorescence detection. Biosensors and Bioelectronics, 2011, 26, 2660-2665. | 5.3 | 19 |
| 67 | An Intracochlear Pressure Sensor as a Microphone for a Fully Implantable Cochlear Implant. Otology and Neurotology, 2016, 37, 1596-1600. | 0.7 | 19 |
| 68 | Production and electrical characterization of the reflectin A2 isoform from Doryteuthis (Loligo) pealeii. RSC Advances, 2016, 6, 57103-57107. | 1.7 | 17 |
| 69 | Electrochemical codeposition of poly(thieno[3,2-b]thiophene) and fullerene: An approach to a bulk heterojunction organic photovoltaic device. Synthetic Metals, 2012, 162, 10-17. | 2.1 | 16 |
| 70 | Waveguide-integrated photonic crystal spectrometer with camera readout. Applied Physics Letters, 2014, 105, 051103. | 1.5 | 16 |
| 71 | Strongly Correlated Alignment of Fluorinated 5,11 ϵ Bis(triethylgermylethynyl)anthradithiophene Crystallites in Solution ϵ Processed Field ϵ Effect Transistors. ChemPhysChem, 2014, 15, 2913-2916. | 1.0 | 16 |
| 72 | Metacapacitors: Printed Thin Film, Flexible Capacitors for Power Conversion Applications. IEEE Transactions on Power Electronics, 2016, 31, 2695-2708. | 5.4 | 16 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Synthesis, characterization and printing application of alkylated indolo[3,2-b]carbazoles. Synthetic Metals, 2017, 228, 9-17. | 2.1 | 16 |
| 74 | Enhanced microLED efficiency via strategic pGaN contact geometries. Optics Express, 2021, 29, 14841. | 1.7 | 16 |
| 75 | Inexpensive photonic crystal spectrometer for colorimetric sensing applications. Optics Express, 2013, 21, 4411. | 1.7 | 15 |
| 76 | Helium-ion-induced radiation damage in LiNbO ₃ thin-film electro-optic modulators. Optics Express, 2014, 22, 19653. | 1.7 | 15 |
| 77 | Color Fine-tuning of Optical Materials Through Rational Design. ChemPhysChem, 2017, 18, 549-563. | 1.0 | 15 |
| 78 | Formulation, printing, and poling method for piezoelectric films based on PVDF-TrFE. Journal of Applied Physics, 2020, 128, . | 1.1 | 15 |
| 79 | Evaluating photovoltaic performance indoors. , 2012, , . | | 14 |
| 80 | Integrated VOC vapor sensing on FBAR-CMOS array. , 2012, , . | | 14 |
| 81 | Clean Graphene Electrodes on Organic Thin-Film Devices via Orthogonal Fluorinated Chemistry. Nano Letters, 2015, 15, 2555-2561. | 4.5 | 14 |
| 82 | A macroscopic model for vertical graphene-organic semiconductor heterojunction field-effect transistors. Organic Electronics, 2016, 36, 45-49. | 1.4 | 14 |
| 83 | Localizing Seizure Activity in the Brain Using Implantable Micro-LEDs with Quantum Dot Downconversion. Advanced Materials Technologies, 2018, 3, 1700366. | 3.0 | 14 |
| 84 | Photocurrent Study of Oxygen-Mediated Doping States in Pentacene Thin-Film Transistors. IEEE Transactions on Electron Devices, 2010, 57, 380-384. | 1.6 | 13 |
| 85 | Doping and Illumination Dependence of $1/f$ Noise in Pentacene Thin-Film Transistors. IEEE Electron Device Letters, 2010, 31, 1050-1052. | 2.2 | 13 |
| 86 | Reticulated Organic Photovoltaics. Advanced Functional Materials, 2012, 22, 1167-1173. | 7.8 | 13 |
| 87 | Photocurrent measurements of pentacene-based devices. Applied Physics Reviews, 2015, 2, . | 5.5 | 13 |
| 88 | Length-independent Charge Transport in Chimeric Molecular Wires. Angewandte Chemie - International Edition, 2016, 55, 14267-14271. | 7.2 | 13 |
| 89 | 0.6V Threshold Voltage Thin Film Transistors With Solution Processable Indium Oxide (In ₂ O ₃) Channel and Anodized High- κ Al ₂ O ₃ Dielectric. IEEE Electron Device Letters, 2019, 40, 1112-1115. | 2.2 | 13 |
| 90 | Project-based learning within a large-scale interdisciplinary research effort. , 2013, , . | | 12 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | The Effect of Thermal Reduction and Film Thickness on fast Response Transparent Graphene Oxide Humidity Sensors. <i>Procedia Engineering</i> , 2016, 168, 301-304. | 1.2 | 12 |
| 92 | Plant Spike: A Low-Cost, Low-Power Beacon for Smart City Soil Health Monitoring. <i>IEEE Internet of Things Journal</i> , 2020, 7, 9080-9090. | 5.5 | 12 |
| 93 | Origin of open-circuit voltage reduction in high-mobility perovskite solar cells. <i>Solar Energy</i> , 2022, 236, 473-479. | 2.9 | 12 |
| 94 | Difluorinated 6,13-bis(triisopropylsilylethynyl)pentacene: Synthesis, Crystallinity, and Charge Transport Properties. <i>ChemPhysChem</i> , 2015, 16, 1251-1257. | 1.0 | 11 |
| 95 | Solution-Processable Superatomic Thin-Films. <i>Journal of the American Chemical Society</i> , 2019, 141, 10967-10971. | 6.6 | 11 |
| 96 | Resistance to Unwanted Photo-Oxidation of Multi-Acene Molecules. <i>Journal of Organic Chemistry</i> , 2020, 85, 12731-12739. | 1.7 | 11 |
| 97 | Study of Local Mobility in Pentacene Field-Effect Transistors Using Spatially Resolved Photocurrent Measurement. <i>IEEE Electron Device Letters</i> , 2010, 31, 761-763. | 2.2 | 10 |
| 98 | A Laboratory-Based Course in Display Technology. <i>IEEE Transactions on Education</i> , 2011, 54, 314-319. | 2.0 | 10 |
| 99 | Invited Paper: MicroLED Microdisplays by Integration of III-V LEDs with Silicon Thin Film Transistors. <i>Digest of Technical Papers SID International Symposium</i> , 2017, 48, 246-248. | 0.1 | 10 |
| 100 | Monolithically Integrated CMOS-SMR Oscillator in 65 nm CMOS Using Custom MPW Die-Level Fabrication Process. <i>Journal of Microelectromechanical Systems</i> , 2017, 26, 846-858. | 1.7 | 10 |
| 101 | Asymmetric leakage in (Ba, Sr)TiO ₃ nanoparticle/parylene-C composite capacitors. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2013, 51, 35-38. | 2.4 | 9 |
| 102 | Direct observation of both contact and remote oxygen scavenging of GeO ₂ in a metal-oxide-semiconductor stack. <i>Journal of Applied Physics</i> , 2014, 116, . | 1.1 | 9 |
| 103 | Accurate contact localization and indentation depth prediction with an optics-based tactile sensor. , 2017, , . | | 9 |
| 104 | Permanent water swelling effect in low temperature thermally reduced graphene oxide. <i>Applied Physics Letters</i> , 2017, 110, . | 1.5 | 9 |
| 105 | Characterization of ESD protection devices under total ionizing dose irradiation. , 2017, , . | | 9 |
| 106 | LED-Based Optical Device for Chronic <i>In Vivo</i> Cerebral Blood Volume Measurement. <i>IEEE Transactions on Electron Devices</i> , 2010, 57, 174-177. | 1.6 | 8 |
| 107 | A directly addressed monolithic LED array as a projection source. <i>Journal of the Society for Information Display</i> , 2010, 18, 808-812. | 0.8 | 8 |
| 108 | Polymer-Nanocrystal Nanocomposites: Device Concepts in Capacitors and Multiferroics. <i>IEEE Nanotechnology Magazine</i> , 2020, 19, 255-268. | 1.1 | 8 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Nanostructured Electrodes Improve the Fill Factor of Organic Photovoltaics. IEEE Journal of Photovoltaics, 2014, 4, 1100-1106. | 1.5 | 7 |
| 110 | Effect of vacuum thermal annealing to encapsulated graphene field effect transistors. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2016, 34, 041805. | 0.6 | 7 |
| 111 | Process control of threshold voltage in organic FETs. , 0, , . | | 6 |
| 112 | An Organic Imager for Flexible Large Area Electronics. Digest of Technical Papers - IEEE International Solid-State Circuits Conference, 2007, , . | 0.0 | 6 |
| 113 | Sequential Lateral Solidification of Silicon Thin Films on Cu BEOL-Integrated Wafers for Monolithic 3-D Integration. IEEE Transactions on Electron Devices, 2015, 62, 3887-3891. | 1.6 | 6 |
| 114 | P-99: Pneumatic Nozzle Printing as a Versatile Approach to Crystal Growth Management and Patterning of Printed Organic Thin Film Transistors. Digest of Technical Papers SID International Symposium, 2016, 47, 1502-1505. | 0.1 | 6 |
| 115 | Contact localization through spatially overlapping piezoresistive signals. , 2016, , . | | 6 |
| 116 | Microscopy and microRaman study of periodically poled domains in deeply thinned lithium niobate wafers. Optical Materials, 2016, 57, 243-248. | 1.7 | 6 |
| 117 | Nanocomposite Capacitors in Power Electronics and Multiferroics: Prospects for the Future of Nanopackaging and Beyond. IEEE Nanotechnology Magazine, 2019, 13, 8-17. | 0.9 | 6 |
| 118 | 37â€¢4: Micro LED Defect Analysis via Photoluminescent and Cathodoluminescent Imaging. Digest of Technical Papers SID International Symposium, 2020, 51, 532-535. | 0.1 | 6 |
| 119 | A Reconfigurable Surface Acoustic Wave Filter on ZnO/AlGaN/GaN Heterostructure. IEEE Transactions on Electron Devices, 2020, 67, 4507-4514. | 1.6 | 6 |
| 120 | Early defect identification for micro light-emitting diode displays via photoluminescent and cathodoluminescent imaging. Journal of the Society for Information Display, 2021, 29, 264-274. | 0.8 | 6 |
| 121 | An electrostrictive high dielectric constant fluorinated terpolymer sheet fabricated by a melt and stretch extrusion process. Journal of Materials Science, 2010, 45, 6834-6836. | 1.7 | 5 |
| 122 | Bimorph actuator with monolithically integrated CMOS OFET control. Organic Electronics, 2013, 14, 286-290. | 1.4 | 5 |
| 123 | More than meets the eye - A portable measurement unit for characterizing light energy availability. , 2013, , . | | 5 |
| 124 | Sequential lateral solidification of silicon thin films on low-k dielectrics for low temperature integration. Applied Physics Letters, 2014, 105, . | 1.5 | 5 |
| 125 | Unexpected length dependence of excited-state charge transfer dynamics for surface-confined perylenediimide ensembles. Materials Horizons, 2017, 4, 437-441. | 6.4 | 5 |
| 126 | Inexpensive, Versatile, and Robust USB-Driven Sensor Platform. , 2017, 1, 1-4. | | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | Apparent Piezo-Photocurrent Modulation in Methylammonium Lead Iodide Perovskite Photodetectors. <i>Advanced Electronic Materials</i> , 2019, 5, 1900518. | 2.6 | 5 |
| 128 | Display meets biology: A vision for ubiquitous healthcare platforms. <i>Journal of the Society for Information Display</i> , 2019, 27, 181-191. | 0.8 | 5 |
| 129 | Magnetic and dielectric property control in the multivalent nanoscale perovskite $\text{Eu}_{0.5}\text{Ba}_{0.5}\text{TiO}_3$. <i>Nanoscale</i> , 2021, 13, 10365-10384. | 2.8 | 5 |
| 130 | Correction to "High-performance bottom electrode organic thin-film transistors". <i>IEEE Transactions on Electron Devices</i> , 2001, 48, 1750-1750. | 1.6 | 4 |
| 131 | NEMS applications of graphene. , 2009, , . | | 4 |
| 132 | Laboratory pentacene and parylene evaporation systems for fabricating organic thin film devices. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2011, 29, 022401. | 0.6 | 4 |
| 133 | Poly-(3)hexylthiophene nanowire networks for versatile fabrication of bulk heterojunctions with increased active volume. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 031209. | 0.6 | 4 |
| 134 | Comparison of top- and bottom-contact pentacene field-effect transistors using photocurrent microscopy. , 2016, , . | | 4 |
| 135 | An Optical Soil Sensor for NPK Nutrient Detection in Smart Cities. , 2022, , . | | 4 |
| 136 | Novel cmp-based process for fabricating arrays of double-gated silicon field emitters. , 0, , . | | 3 |
| 137 | An organic semiconductor based process for photodetecting applications. , 0, , . | | 3 |
| 138 | Isolation of organic field-effect transistors by surface patterning with an UV/ozone process. <i>Journal of Vacuum Science & Technology B</i> , 2009, 27, 1057. | 1.3 | 3 |
| 139 | Influence of electromigration on the maximum operating field of $(\text{Ba,Sr})\text{TiO}_3$ /parylene-C composite capacitors. <i>Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics</i> , 2013, 31, 060603. | 0.6 | 3 |
| 140 | An ultra thin implantable system for cerebral blood volume monitoring using flexible OLED and OPD. , 2015, , . | | 3 |
| 141 | Radiation hardened graphene field effect transistors. , 2016, , . | | 3 |
| 142 | CMOS integrated ZnO thin film bulk acoustic resonator with Si_3N_4 suscepter layer for improved IR sensitivity. , 2017, , . | | 3 |
| 143 | Cross-linked polyvinyl phenol as dielectric for flexible bottom gate bottom contact transistors. , 2019, , . | | 3 |
| 144 | A Tunable Surface Acoustic Wave Device on Zinc Oxide via acoustoelectric interaction with AlGaIn/GaN 2DEG. , 2019, , . | | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 145 | 57â€³: Characterizing Image Retention for HDR OLED Displays. Digest of Technical Papers SID International Symposium, 2020, 51, 850-853. | 0.1 | 3 |
| 146 | 51â€³: Color Shifting in High Dynamic Range OLED Displays. Digest of Technical Papers SID International Symposium, 2021, 52, 706-709. | 0.1 | 3 |
| 147 | Biomassâ€³Derived Nanoporous Graphene Memory Cell. Advanced Materials Interfaces, 2022, 9, . | 1.9 | 3 |
| 148 | Bipolar Resistive Switching in Lanthanum Titanium Oxide and an Increased On/Off Ratio Using an Oxygen-Deficient ZnO Interlayer. ACS Applied Materials & Interfaces, 2022, 14, 17682-17690. | 4.0 | 3 |
| 149 | Organic solar cell-equipped energy harvesting active networked tag (EnHANT) prototypes. , 2011, , . | | 2 |
| 150 | A tone analyzer based on a piezoelectric polymer and organic thin film transistors. Journal of the Acoustical Society of America, 2012, 132, 3826-3831. | 0.5 | 2 |
| 151 | 75.2L:Late-News Paper: A Passive-Matrix Inorganic LED Array as a Projection Source. Digest of Technical Papers SID International Symposium, 2012, 43, 1013-1015. | 0.1 | 2 |
| 152 | General method for simultaneous optimization of light trapping and carrier collection in an ultra-thin film organic photovoltaic cell. Journal of Applied Physics, 2014, 116, 023110. | 1.1 | 2 |
| 153 | Low-power organic electronics based on gate-tunable injection barrier in vertical graphene-organic semiconductor heterostructures. , 2014, , . | | 2 |
| 154 | Die-level processing for 3-D monolithic integration of piezoelectric MEMS on CMOS. , 2017, , . | | 2 |
| 155 | A Highly Linear Non-Magnetic GaN Circulator Based on Spatio-Temporal Modulation with an IIP3 of 56 dBm. , 2020, , . | | 2 |
| 156 | A laboratory course on information display technologies for remote learning. Journal of the Society for Information Display, 2021, 29, 852-858. | 0.8 | 2 |
| 157 | Bringing the Lab to the Field: Tracking Movement and Phenotyping Stress in Wild Rats. Biological Psychiatry, 2021, 89, S206. | 0.7 | 2 |
| 158 | Organic Field Emission Device Integrated With Organic Transistor. IEEE Transactions on Electron Devices, 2005, 52, 1907-1914. | 1.6 | 1 |
| 159 | Correction to "Study of Local Mobility in Pentacene Field-Effect Transistors Using Spatially Resolved Photocurrent Measurement" [Jul 10 761-763. IEEE Electron Device Letters, 2010, 31, 1164-1164. | 2.2 | 1 |
| 160 | Group IV Nanocrystals for Silicon Photovoltaics. Materials Research Society Symposia Proceedings, 2011, 1305, 1. | 0.1 | 1 |
| 161 | An adaptive testbed of energy harvesting active networked tags (EnHANTS) prototypes. , 2013, , . | | 1 |
| 162 | Large scale temperature monitoring system for detection of potential ebola patient. , 2015, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 163 | Triple-mode photovoltaic power management: Achieving high efficiency against harvesting and load variability. , 2016, , . | | 1 |
| 164 | Lengthâ€independent Charge Transport in Chimeric Molecular Wires. Angewandte Chemie, 2016, 128, 14479-14483. | 1.6 | 1 |
| 165 | Sheet-based flexible technologies for mechanical sensing. , 2018, , . | | 1 |
| 166 | 44â€4: A Brief Survey of MicroLED Technologies. Digest of Technical Papers SID International Symposium, 2020, 51, 650-652. | 0.1 | 1 |
| 167 | Improved Cyclohexanone Vapor Detection via Gravimetric Sensing. Journal of Microelectromechanical Systems, 2020, 29, 1253-1263. | 1.7 | 1 |
| 168 | ESD Breakdown of Parylene OFETs With Varying Contact Overlap Capacitance. IEEE Transactions on Electron Devices, 2021, 68, 4630-4636. | 1.6 | 1 |
| 169 | Flexible electronic bands for the dynamic optical spectroscopic assessment of systemic lupus erythematosus in finger joints. , 2019, , . | | 1 |
| 170 | Integrated Light Management as a Path to Miniaturizing Spectrometers. , 2017, , . | | 1 |
| 171 | Near ultraviolet light emission in hexagonal boron nitride based van der Waals heterostructures. , 2019, , . | | 1 |
| 172 | Organic TFT controlled organic field emitter. , 0, , . | | 0 |
| 173 | Molecular Organic Electronic Circuits. IEEE/ACM International Conference on Computer-Aided Design, Digest of Technical Papers, 2006, , . | 0.0 | 0 |
| 174 | Semiconductor-dielectric interfacial study using spectral-spatial photocurrent probes and 1/f noise probe in organic field effect transistors. , 2009, , . | | 0 |
| 175 | Inside Cover: Photovoltaic Universal Joints: Ball-and-Socket Interfaces in Molecular Photovoltaic Cells (ChemPhysChem 4/2010). ChemPhysChem, 2010, 11, 742-742. | 1.0 | 0 |
| 176 | Building interactive systems using unconventional electronics. , 2010, , . | | 0 |
| 177 | An active matrix arrayed microphone with acoustic bandwidth response. , 2011, , . | | 0 |
| 178 | Special Issue on the 18th International Display Workshops (IDW '11), Part II. Journal of the Society for Information Display, 2012, 20, 551-551. | 0.8 | 0 |
| 179 | EditorialBest of SID International Symposium. Journal of the Society for Information Display, 2012, 20, 597-597. | 0.8 | 0 |
| 180 | Amorphous silicon-graphene anodes for lithium ion batteries. , 2013, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 181 | Low-cost photonic crystals for spectral sensors fabricated using projection lithography. , 2014, , . | | 0 |
| 182 | Co-development of complementary technology and modified-CPL family for organic digital integrated circuits. Materials Research Society Symposia Proceedings, 2015, 1795, 19-25. | 0.1 | 0 |
| 183 | A molybdenum disulfide piezoelectric strain gauge. , 2015, , . | | 0 |
| 184 | Acoustoelectric amplification of surface acoustic waves on ZnO deposited on AlGaIn/GaN Epi. , 2017, , . | | 0 |
| 185 | Tri-modal thin-film flexible electronic skin to augment robotic grasping. , 2018, , . | | 0 |
| 186 | Polymer-Nanocrystal Nanocomposite Capacitors and Their Applications in Energy Storage. , 2018, , . | | 0 |
| 187 | Flexible optical imaging band system for the assessment of arthritis in patients with systemic lupus erythematosus. Biomedical Optics Express, 2021, 12, 1651. | 1.5 | 0 |
| 188 | Laser assisted rapid fabrication of perovskite photodetector. , 2019, , . | | 0 |
| 189 | Optics in Action: An Overview of the Advancements in Information Display Education. , 2021, , . | | 0 |
| 190 | A LoRaWAN-Based Environmental Sensor System for Urban Tree Health Monitoring. , 2021, , . | | 0 |
| 191 | An Implantable Umbo Microphone For Fully-Implantable Assistive Hearing Devices. , 2021, , . | | 0 |
| 192 | A PvdF-Trfe Intracochlear Hydrophone and Amplifier For Totally Implantable Cochlear Implants. , 2022, , . | | 0 |