

Ethan B Secor

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8293638/publications.pdf>

Version: 2024-02-01

43
papers

4,082
citations

218381

26
h-index

276539

41
g-index

43
all docs

43
docs citations

43
times ranked

6070
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Three-Dimensional Printing of High-Content Graphene Scaffolds for Electronic and Biomedical Applications. ACS Nano, 2015, 9, 4636-4648. | 7.3 | 609 |
| 2 | Inkjet Printing of High Conductivity, Flexible Graphene Patterns. Journal of Physical Chemistry Letters, 2013, 4, 1347-1351. | 2.1 | 573 |
| 3 | High-Resolution Patterning of Graphene by Screen Printing with a Silicon Stencil for Highly Flexible Printed Electronics. Advanced Materials, 2015, 27, 109-115. | 11.1 | 430 |
| 4 | Gravure Printing of Graphene for Large-Area Flexible Electronics. Advanced Materials, 2014, 26, 4533-4538. | 11.1 | 298 |
| 5 | Rapid and Versatile Photonic Annealing of Graphene Inks for Flexible Printed Electronics. Advanced Materials, 2015, 27, 6683-6688. | 11.1 | 258 |
| 6 | Principles of aerosol jet printing. Flexible and Printed Electronics, 2018, 3, 035002. | 1.5 | 179 |
| 7 | Scalable, Self-Aligned Printing of Flexible Graphene Micro-Supercapacitors. Advanced Energy Materials, 2017, 7, 1700285. | 10.2 | 167 |
| 8 | High-Performance Solid-State Supercapacitors and Microsupercapacitors Derived from Printable Graphene Inks. Advanced Energy Materials, 2016, 6, 1600909. | 10.2 | 139 |
| 9 | Enhanced Conductivity, Adhesion, and Environmental Stability of Printed Graphene Inks with Nitrocellulose. Chemistry of Materials, 2017, 29, 2332-2340. | 3.2 | 134 |
| 10 | All-Printed, Foldable Organic Thin-Film Transistors on Glassine Paper. Advanced Materials, 2015, 27, 7058-7064. | 11.1 | 133 |
| 11 | Emerging Carbon and Post-Carbon Nanomaterial Inks for Printed Electronics. Journal of Physical Chemistry Letters, 2015, 6, 620-626. | 2.1 | 122 |
| 12 | High-Resolution Transfer Printing of Graphene Lines for Fully Printed, Flexible Electronics. ACS Nano, 2017, 11, 7431-7439. | 7.3 | 116 |
| 13 | Fully Inkjet-Printed, Mechanically Flexible MoS ₂ Nanosheet Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 5675-5681. | 4.0 | 100 |
| 14 | Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. ACS Applied Materials & Interfaces, 2020, 12, 8592-8603. | 4.0 | 87 |
| 15 | Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. Nano Letters, 2017, 17, 2539-2546. | 4.5 | 81 |
| 16 | High-Performance Inkjet-Printed Indium-Gallium-Zinc-Oxide Transistors Enabled by Embedded, Chemically Stable Graphene Electrodes. ACS Applied Materials & Interfaces, 2016, 8, 17428-17434. | 4.0 | 62 |
| 17 | Combustion-Assisted Photonic Annealing of Printable Graphene Inks via Exothermic Binders. ACS Applied Materials & Interfaces, 2017, 9, 29418-29423. | 4.0 | 59 |
| 18 | 2D printing of graphene: a review. 2D Materials, 2019, 6, 042004. | 2.0 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Millisecond-pulsed photonicallly-annealed tin oxide electron transport layers for efficient perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 24110-24115. | 5.2 | 41 |
| 20 | Wiring up Liquid Metal: Stable and Robust Electrical Contacts Enabled by Printable Graphene Inks. <i>Advanced Electronic Materials</i> , 2018, 4, 1700483. | 2.6 | 39 |
| 21 | Guided ink and process design for aerosol jet printing based on annular drying effects. <i>Flexible and Printed Electronics</i> , 2018, 3, 035007. | 1.5 | 37 |
| 22 | Capacitively Coupled Hybrid Ion Gel and Carbon Nanotube Thin-Film Transistors for Low Voltage Flexible Logic Circuits. <i>Advanced Functional Materials</i> , 2018, 28, 1802610. | 7.8 | 37 |
| 23 | Printed microfluidic sweat sensing platform for cortisol and glucose detection. <i>Lab on A Chip</i> , 2021, 22, 156-169. | 3.1 | 37 |
| 24 | Multiphoton ionization of H^{2+} in xuv laser pulses. <i>Physical Review A</i> , 2011, 84, . | 1.0 | 35 |
| 25 | Transfer Printing of Sub-5 μ m Graphene Electrodes for Flexible Microsupercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22303-22310. | 4.0 | 34 |
| 26 | Freestanding Ion Gels for Flexible, Printed, Multifunctional Microsupercapacitors. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 9947-9954. | 4.0 | 27 |
| 27 | Double-slit interference effect in electron emission from H^{2+} to x-ray radiation. <i>Physical Review A</i> , 2012, 85, . | 1.0 | 23 |
| 28 | Pulsed sonication for alumina coatings on high-capacity oxides: Performance in lithium-ion cells. <i>Journal of Power Sources</i> , 2014, 258, 46-53. | 4.0 | 21 |
| 29 | Tailoring the Porosity and Microstructure of Printed Graphene Electrodes via Polymer Phase Inversion. <i>Journal of Physical Chemistry C</i> , 2018, 122, 13745-13750. | 1.5 | 20 |
| 30 | Real-Time Optical Process Monitoring for Structure and Property Control of Aerosol Jet Printed Functional Materials. <i>Advanced Materials Technologies</i> , 2020, 5, 2000781. | 3.0 | 19 |
| 31 | Understanding effects of printhead geometry in aerosol jet printing. <i>Flexible and Printed Electronics</i> , 2020, 5, 035004. | 1.5 | 19 |
| 32 | Understanding and mitigating process drift in aerosol jet printing. <i>Flexible and Printed Electronics</i> , 2020, 5, 015009. | 1.5 | 16 |
| 33 | Direct Printing of Graphene Electrodes for High-Performance Organic Inverters. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15988-15995. | 4.0 | 14 |
| 34 | Self-aligned capillarity-assisted printing of top-gate thin-film transistors on plastic. <i>Flexible and Printed Electronics</i> , 2018, 3, 035004. | 1.5 | 13 |
| 35 | Diffraction patterns in the ionization of the heteronuclear HeH^{2+} by attosecond x-ray radiation. <i>Physical Review A</i> , 2012, 86, . | 1.0 | 12 |
| 36 | Morphology and electrical properties of high-speed flexography-printed graphene. <i>Mikrochimica Acta</i> , 2022, 189, 123. | 2.5 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | White Paper: Printable graphene inks stabilized with cellulosic polymers. MRS Bulletin, 2018, 43, 730-733. | 1.7 | 8 |
| 38 | Light scattering measurements to support real-time monitoring and closed-loop control of aerosol jet printing. Additive Manufacturing, 2021, 44, 102028. | 1.7 | 8 |
| 39 | An inkjet printed piezoresistive back-to-back graphene tactile sensor for endosurgical palpation applications. , 2017, , . | | 6 |
| 40 | An Inkjet Printing Technique for Scalable Microfabrication of Graphene-Based Sensor Components. IEEE Access, 2020, 8, 79338-79346. | 2.6 | 5 |
| 41 | Graphene Ink as a Conductive Templating Interlayer for Enhanced Charge Transport of C ₆₀ -Based Devices. ACS Applied Materials & Interfaces, 2016, 8, 29594-29599. | 4.0 | 4 |
| 42 | Investigating Porous Media for Relief Printing Using Micro-Structured Materials. Advanced Engineering Materials, 2020, 22, 2000548. | 1.6 | 2 |
| 43 | Modular motion control software development to support a versatile, low-cost aerosol jet platform for printed electronics. Additive Manufacturing, 2021, 40, 101932. | 1.7 | 0 |