Ethan B Secor

List of Publications by Year
in descending order

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43 papers	4,082 citations	218677 26 h-index	276875 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.	14.6	609
2	Inkjet Printing of High Conductivity, Flexible Graphene Patterns. Journal of Physical Chemistry Letters, 2013, 4, 1347-1351.	4.6	573
3	Highâ€Resolution Patterning of Graphene by Screen Printing with a Silicon Stencil for Highly Flexible Printed Electronics. Advanced Materials, 2015, 27, 109-115.	21.0	430
4	Gravure Printing of Graphene for Largeâ€area Flexible Electronics. Advanced Materials, 2014, 26, 4533-4538.	21.0	298
5	Rapid and Versatile Photonic Annealing of Graphene Inks for Flexible Printed Electronics. Advanced Materials, 2015, 27, 6683-6688.	21.0	258
6	Principles of aerosol jet printing. Flexible and Printed Electronics, 2018, 3, 035002.	2.7	179
7	Scalable, Selfâ€Aligned Printing of Flexible Graphene Microâ€Supercapacitors. Advanced Energy Materials, 2017, 7, 1700285.	19.5	167
8	Highâ€Performance Solidâ€State Supercapacitors and Microsupercapacitors Derived from Printable Graphene Inks. Advanced Energy Materials, 2016, 6, 1600909.	19.5	139
9	Enhanced Conductivity, Adhesion, and Environmental Stability of Printed Graphene Inks with Nitrocellulose. Chemistry of Materials, 2017, 29, 2332-2340.	6.7	134
10	Allâ€Printed, Foldable Organic Thinâ€Film Transistors on Glassine Paper. Advanced Materials, 2015, 27, 7058-7064.	21.0	133
11	Emerging Carbon and Post-Carbon Nanomaterial Inks for Printed Electronics. Journal of Physical Chemistry Letters, 2015, 6, 620-626.	4.6	122
12	High-Resolution Transfer Printing of Graphene Lines for Fully Printed, Flexible Electronics. ACS Nano, 2017, 11, 7431-7439.	14.6	116
13	Fully Inkjet-Printed, Mechanically Flexible MoS₂ Nanosheet Photodetectors. ACS Applied Materials & Interfaces, 2019, 11, 5675-5681.	8.0	100
14	Aerosol-Jet-Printed Graphene Immunosensor for Label-Free Cytokine Monitoring in Serum. ACS Applied Materials & Interfaces, 2020, 12, 8592-8603.	8.0	87
15	Comprehensive Enhancement of Nanostructured Lithium-Ion Battery Cathode Materials via Conformal Graphene Dispersion. Nano Letters, 2017, 17, 2539-2546.	9.1	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.	8.0	62
17	Combustion-Assisted Photonic Annealing of Printable Graphene Inks via Exothermic Binders. ACS Applied Materials & Interfaces, 2017, 9, 29418-29423.	8.0	59
18	2D printing of graphene: a review. 2D Materials, 2019, 6, 042004.	4.4	49

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19	Millisecond-pulsed photonically-annealed tin oxide electron transport layers for efficient perovskite solar cells. Journal of Materials Chemistry A, 2017, 5, 24110-24115.	10.3	41
20	Wiring up Liquid Metal: Stable and Robust Electrical Contacts Enabled by Printable Graphene Inks. Advanced Electronic Materials, 2018, 4, 1700483.	5.1	39
21	Guided ink and process design for aerosol jet printing based on annular drying effects. Flexible and Printed Electronics, 2018, 3, 035007.	2.7	37
22	Capacitively Coupled Hybrid Ion Gel and Carbon Nanotube Thinâ€Film Transistors for Low Voltage Flexible Logic Circuits. Advanced Functional Materials, 2018, 28, 1802610.	14.9	37
23	Printed microfluidic sweat sensing platform for cortisol and glucose detection. Lab on A Chip, 2021, 22, 156-169.	6.0	37
24	Multiphoton ionization of H<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub><mml:msup><mml:mrow /><mml:mo>+</mml:mo></mml:msup></mml:mrow></mml:math>in xuv laser pulses. Physical Review A, 2011, 84, .	2.5	35
25	Transfer Printing of Sub-5 Î¼m Graphene Electrodes for Flexible Microsupercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 22303-22310.	8.0	34
26	Freestanding Ion Gels for Flexible, Printed, Multifunctional Microsupercapacitors. ACS Applied Materials & Interfaces, 2019, 11, 9947-9954.	8.0	27
27	Double-slit interference effect in electron emission from<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow><mml:msub><mml:mtext>H</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:mrow to x-ray radiation. Physical Review A, 2012, 85, .	2.5	23
28	Pulsed sonication for alumina coatings on high-capacity oxides: Performance in lithium-ion cells. Journal of Power Sources, 2014, 258, 46-53.	7.8	21
29	Tailoring the Porosity and Microstructure of Printed Graphene Electrodes via Polymer Phase Inversion. Journal of Physical Chemistry C, 2018, 122, 13745-13750.	3.1	20
30	Realâ€Time Optical Process Monitoring for Structure and Property Control of Aerosol Jet Printed Functional Materials. Advanced Materials Technologies, 2020, 5, 2000781.	5.8	19
31	Understanding effects of printhead geometry in aerosol jet printing. Flexible and Printed Electronics, 2020, 5, 035004.	2.7	19
32	Understanding and mitigating process drift in aerosol jet printing. Flexible and Printed Electronics, 2020, 5, 015009.	2.7	16
33	Direct Printing of Graphene Electrodes for High-Performance Organic Inverters. ACS Applied Materials & Interfaces, 2018, 10, 15988-15995.	8.0	14
34	Self-aligned capillarity-assisted printing of top-gate thin-film transistors on plastic. Flexible and Printed Electronics, 2018, 3, 035004.	2.7	13
35	Diffraction patterns in the ionization of the heteronuclear HeH<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mrow><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math>ion by attosecond x-ray radiation. Physical Review A, 2012, 86, .	2.5	12
36	Morphology and electrical properties of high-speed flexography-printed graphene. Mikrochimica Acta, 2022, 189, 123.	5.0	9

#	Article	IF	Citations
37	White Paper: Printable graphene inks stabilized with cellulosic polymers. MRS Bulletin, 2018, 43, 730-733.	3.5	8
38	Light scattering measurements to support real-time monitoring and closed-loop control of aerosol jet printing. Additive Manufacturing, 2021, 44, 102028.	3.0	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.	4.2	5
41	Graphene Ink as a Conductive Templating Interlayer for Enhanced Charge Transport of C₆₀-Based Devices. ACS Applied Materials & Interfaces, 2016, 8, 29594-29599.	8.0	4
42	Investigating Porous Media for Relief Printing Using Microâ€Architected Materials. Advanced Engineering Materials, 2020, 22, 2000548.	3.5	2
43	Modular motion control software development to support a versatile, low-cost aerosol jet platform for printed electronics. Additive Manufacturing, 2021, 40, 101932.	3.0	0