Woo Jin Hyun

List of Publications by Year
in descending order

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42 papers	2,313 citations	361296 20 h-index	289141 40 g-index
44 all docs	44 docs citations	44 times ranked	4149 citing authors

#	Article	IF	Citations
1	Highly Stretchable and Wearable Graphene Strain Sensors with Controllable Sensitivity for Human Motion Monitoring. ACS Applied Materials & Interfaces, 2015, 7, 6317-6324.	4.0	533
2	Highâ€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
3	Scalable, Selfâ€Aligned Printing of Flexible Graphene Microâ€Supercapacitors. Advanced Energy Materials, 2017, 7, 1700285.	10.2	167
4	Foldable Graphene Electronic Circuits Based on Paper Substrates. Advanced Materials, 2013, 25, 4729-4734.	11.1	156
5	Allâ€Printed, Foldable Organic Thinâ€Film Transistors on Glassine Paper. Advanced Materials, 2015, 27, 7058-7064.	11.1	133
6	Screen Printing of Highly Loaded Silver Inks on Plastic Substrates Using Silicon Stencils. ACS Applied Materials & Interfaces, 2015, 7, 12619-12624.	4.0	114
7	Enhanced Sensitivity of Patterned Graphene Strain Sensors Used for Monitoring Subtle Human Body Motions. ACS Applied Materials & Interfaces, 2017, 9, 11176-11183.	4.0	75
8	High-Modulus Hexagonal Boron Nitride Nanoplatelet Gel Electrolytes for Solid-State Rechargeable Lithium-Ion Batteries. ACS Nano, 2019, 13, 9664-9672.	7.3	64
9	Phase-Inversion Polymer Composite Separators Based on Hexagonal Boron Nitride Nanosheets for High-Temperature Lithium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 8107-8114.	4.0	52
10	Layered Heterostructure Ionogel Electrolytes for Highâ€Performance Solidâ€State Lithiumâ€Ion Batteries. Advanced Materials, 2021, 33, e2007864.	11.1	51
11	Subâ€3 V ZnO Electrolyteâ€Gated Transistors and Circuits with Screenâ€Printed and Photoâ€Crosslinked Ion Gel Gate Dielectrics: New Routes to Improved Performance. Advanced Functional Materials, 2020, 30, 1902028.	7.8	49
12	Twoâ€Dimensional TiO₂ Inverse Opal with a Closed Top Surface Structure for Enhanced Light Extraction from Polymer Lightâ€Emitting Diodes. Advanced Materials, 2011, 23, 1846-1850.	11.1	45
13	A Selfâ€Aligned Strategy for Printed Electronics: Exploiting Capillary Flow on Microstructured Plastic Surfaces. Advanced Electronic Materials, 2015, 1, 1500137.	2.6	43
14	High-Resolution, High-Aspect Ratio Conductive Wires Embedded in Plastic Substrates. ACS Applied Materials & Interfaces, 2015, 7, 1841-1847.	4.0	39
15	Nanocomposite Ionogel Electrolytes for Solidâ€State Rechargeable Batteries. Advanced Energy Materials, 2020, 10, 2002135.	10.2	37
16	Printed, Selfâ€Aligned Sideâ€Gate Organic Transistors with a Subâ€5 Âµm Gateâ€“Channel Distance on Imprinted Plastic Substrates. Advanced Electronic Materials, 2016, 2, 1600293.	2.6	33
17	All-Printed, Self-Aligned Carbon Nanotube Thin-Film Transistors on Imprinted Plastic Substrates. ACS Applied Materials & Interfaces, 2018, 10, 15926-15932.	4.0	33
18	Concurrently Approaching Volumetric and Specific Capacity Limits of Lithium Battery Cathodes via Conformal Pickering Emulsion Graphene Coatings. Advanced Energy Materials, 2020, 10, 2001216.	10.2	33

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19	Ionâ€Conductive, Viscosityâ€Tunable Hexagonal Boron Nitride Nanosheet Inks. Advanced Functional Materials, 2019, 29, 1902245.	7.8	30
20	Corrugated structure through a spin-coating process for enhanced light extraction from organic light-emitting diodes. Organic Electronics, 2012, 13, 579-585.	1.4	24
21	Printed, 1 V electrolyte-gated transistors based on poly(3-hexylthiophene) operating at >10 kHz on plastic. Applied Physics Letters, 2018, 113, .	1.5	19
22	Self-aligned inkjet printing of resistors and low-pass resistorâ€“capacitor filters on roll-to-roll imprinted plastics with resistances ranging from 10 to 10 ⁶ Î©. Flexible and Printed Electronics, 2018, 3, 045003.	1.5	18
23	Novel microlens arrays with embedded Al₂O₃nanoparticles for enhancing efficiency and stability of flexible polymer light-emitting diodes. RSC Advances, 2016, 6, 65450-65458.	1.7	15
24	Inkjet-printed, self-aligned organic Schottky diodes on imprinted plastic substrates. Flexible and Printed Electronics, 2020, 5, 015006.	1.5	15
25	Blade-Coatable Hexagonal Boron Nitride Ionogel Electrolytes for Scalable Production of Lithium Metal Batteries. ACS Energy Letters, 2022, 7, 1558-1565.	8.8	15
26	Enhanced performance of blue polymer light-emitting diodes by incorporation of Ag nanoparticles through the ligand-exchange process. Journal of Materials Chemistry C, 2016, 4, 10445-10452.	2.7	14
27	Printable hexagonal boron nitride ionogels. Faraday Discussions, 2021, 227, 92-104.	1.6	14
28	Self-aligned capillarity-assisted printing of top-gate thin-film transistors on plastic. Flexible and Printed Electronics, 2018, 3, 035004.	1.5	13
29	Screen-Printable Hexagonal Boron Nitride Ionogel Electrolytes for Mechanically Deformable Solid-State Lithium-Ion Batteries. Nano Letters, 2022, 22, 5372-5378.	4.5	9
30	White Paper: Printable graphene inks stabilized with cellulosic polymers. MRS Bulletin, 2018, 43, 730-733.	1.7	8
31	Open-channel microfluidic diodes based on two-tier junctions. Applied Physics Letters, 2018, 113, .	1.5	6
32	Two-Dimensional TiO₂ Honeycomb Structure for Enhanced Light Extraction from Polymer Light-Emitting Diodes. Journal of Nanoscience and Nanotechnology, 2014, 14, 8411-8415.	0.9	5
33	Synthesis of poly(3,4-ethylenedioxythiophene) : poly(styrene sulfonate)-capped silver nanoparticles and their application to blue polymer light-emitting diodes. Korean Journal of Chemical Engineering, 2015, 32, 534-539.	1.2	5
34	Low-driving-voltage and colour-stable white organic light-emitting diodes with a cross-patterned multi-emissive layer. Journal Physics D: Applied Physics, 2012, 45, 025101.	1.3	3
35	White emission from nano-structured top-emitting organic light-emitting diodes based on a blue emitting layer. Journal Physics D: Applied Physics, 2013, 46, 095107.	1.3	3
36	Enhanced Light Outcoupling Efficiency in Organic Light-Emitting Devices Using Irregular Microlenses Fabricated with 3D Colloidal Arrays. Science of Advanced Materials, 2014, 6, 2370-2377.	0.1	3

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37	Solution-processible corrugated structure and scattering layer for enhanced light extraction from organic light-emitting diodes. Journal of Information Display, 2012, 13, 151-157.	2.1	2
38	Pâ€157: Solutionâ€processed Light Extraction Structure and Metallic Grid Electrode for Enhanced Outcoupling of OLED. Digest of Technical Papers SID International Symposium, 2014, 45, 1571-1573.	0.1	1
39	Pâ€175: Profile of Heterostructured Host for Phosphorescent OLED and its Application to the White Lighting Devices with Low Driving Voltage. Digest of Technical Papers SID International Symposium, 2011, 42, 1757-1759.	0.1	0
40	Lithiumâ€Ion Batteries: Layered Heterostructure Ionogel Electrolytes for Highâ€Performance Solidâ€State Lithiumâ€Ion Batteries (Adv. Mater. 13/2021). Advanced Materials, 2021, 33, 2170099.	11.1	0
41	SOLED-2013-DT2E.4Solution-processed Internal and External Light Extraction Structure for Organic Light-emitting Diode. , 2013, , .		0
42	Silver Transparent Electrodes Using Micro-Patterns Prepared from Polystyrene Colloidal Arrays. Journal of Nanoscience and Nanotechnology, 2017, 17, 5814-5817.	0.9	0