

# Jin-Mun Yun

## List of Publications by Year in descending order

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41  
papers

2,657  
citations

236925

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265206

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all docs

43  
docs citations

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times ranked

5019  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formation of Large Crystalline Domains in a Semiconducting Polymer with Semi-fluorinated Alkyl Side Chains and Application to High-Performance Thin-Film Transistors. ACS Applied Materials & Interfaces, 2020, 12, 49886-49894.	8.0	12
2	Orthogonal Printable Reduced Graphene Oxide 2D Materials as Hole Transport Layers for High-Performance Inverted Polymer Solar Cells: Sheet Size Effect on Photovoltaic Properties. ACS Applied Materials & Interfaces, 2020, 12, 42811-42820.	8.0	14
3	<i>In situ</i> study of the film formation mechanism of organic-inorganic hybrid perovskite solar cells: controlling the solvate phase using an additive system. Journal of Materials Chemistry A, 2020, 8, 7695-7703.	10.3	29
4	2D/2D vanadyl phosphate (VP) on reduced graphene oxide as a hole transporting layer for efficient organic solar cells. Organic Electronics, 2018, 59, 92-98.	2.6	13
5	In Situ Self-Formed Nanosheet MoS <sub>3</sub> /Reduced Graphene Oxide Material Showing Superior Performance as a Lithium-Ion Battery Cathode. ACS Nano, 2018, 13, 1490-1498.	14.6	49
6	Bi-axial grown amorphous MoS <sub>x</sub> bridged with oxygen on r-GO as a superior stable and efficient nonprecious catalyst for hydrogen evolution. Scientific Reports, 2017, 7, 41190.	3.3	31
7	ZnO films using a precursor solution irradiated with an electron beam as the cathode interfacial layer in inverted polymer solar cells. RSC Advances, 2017, 7, 26689-26696.	3.6	9
8	Water dispersion of reduced graphene oxide stabilized via fullerene semiconductor for organic solar cells. Optical Materials Express, 2017, 7, 2487.	3.0	11
9	Low-Temperature-Processed 9% Colloidal Quantum Dot Photovoltaic Devices through Interfacial Management of p-n Heterojunction. Advanced Energy Materials, 2016, 6, 1502146.	19.5	70
10	Enhanced performance of perovskite solar cells with solution-processed n-doping of the PCBM interlayer. RSC Advances, 2016, 6, 64962-64966.	3.6	6
11	Effect of chemically converted graphene as an electrode interfacial modifier on device-performances of inverted organic photovoltaic cells. Semiconductor Science and Technology, 2015, 30, 065008.	2.0	1
12	Quinoidal Molecules as a New Class of Ambipolar Semiconductor Originating from Amphoteric Redox Behavior. Advanced Functional Materials, 2015, 25, 1146-1156.	14.9	74
13	2-Dimensional MoS <sub>2</sub> nanosheets as transparent and highly electrocatalytic counter electrode in dye-sensitized solar cells: Effect of thermal treatments. Journal of Industrial and Engineering Chemistry, 2015, 29, 71-77.	5.8	35
14	Graphene oxide and water-soluble polymer composite materials as efficient hole transporting layer for high performance organic solar cells. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 376-381.	1.8	11
15	Highly efficient and stable planar perovskite solar cells with reduced graphene oxide nanosheets as electrode interlayer. Nano Energy, 2015, 12, 96-104.	16.0	328
16	Morphological, optical, and electrical investigations of solution-processed reduced graphene oxide and its application to transparent electrodes in organic solar cells. Journal of Industrial and Engineering Chemistry, 2015, 21, 877-883.	5.8	17
17	Exfoliated and Partially Oxidized MoS <sub>2</sub> Nanosheets by One-Pot Reaction for Efficient and Stable Organic Solar Cells. Small, 2014, 10, 2319-2324.	10.0	102
18	Transparent graphene oxide-Pt composite counter electrode fabricated by pulse current electrodeposition-for dye-sensitized solar cells. Surface and Coatings Technology, 2014, 242, 8-13.	4.8	19

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19	Sulfonic acid-functionalized, reduced graphene oxide as an advanced interfacial material leading to donor polymer-independent high-performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 292-298.	10.3	69
20	Moderately reduced graphene oxide as hole transport layer in polymer solar cells via thermal assisted spray process. <i>Applied Surface Science</i> , 2014, 296, 140-146.	6.1	42
21	Stable charge storing in two-dimensional MoS <sub>2</sub> nanoflake floating gates for multilevel organic flash memory. <i>Nanoscale</i> , 2014, 6, 12315-12323.	5.6	64
22	An Approach for an Advanced Anode Interfacial Layer with Electron-Blocking Ability to Achieve High-Efficiency Organic Photovoltaics. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 19613-19620.	8.0	24
23	Nitrogen-doped and simultaneously reduced graphene oxide with superior dispersion as electrocatalysts for oxygen reduction reaction. <i>Materials Research Bulletin</i> , 2014, 59, 145-149.	5.2	8
24	Fluorine-functionalized and simultaneously reduced graphene oxide as a novel hole transporting layer for highly efficient and stable organic photovoltaic cells. <i>Nanoscale</i> , 2014, 6, 7183-7187.	5.6	74
25	A thienylenevinylene-phthalimide copolymer based polymer solar cell with high open circuit voltage: Effect of additive concentration on the open circuit voltage. <i>Solar Energy Materials and Solar Cells</i> , 2014, 125, 253-260.	6.2	13
26	Planar heterojunction perovskite solar cells with superior reproducibility. <i>Scientific Reports</i> , 2014, 4, 6953.	3.3	208
27	Efficient polymer solar cells with a solution-processed gold chloride as an anode interfacial modifier. <i>Applied Physics Letters</i> , 2013, 102, 163302.	3.3	13
28	Synthesis and characterization of a novel ambipolar polymer semiconductor based on a fumaronitrile core as an electron-withdrawing group. <i>Journal of Polymer Science Part A</i> , 2013, 51, 1029-1039.	2.3	10
29	Efficient work-function engineering of solution-processed MoS <sub>2</sub> thin-films for novel hole and electron transport layers leading to high-performance polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2013, 1, 3777.	5.5	173
30	Optimal Ambipolar Charge Transport of Thienylenevinylene-Based Polymer Semiconductors by Changes in Conformation for High-Performance Organic Thin Film Transistors and Inverters. <i>Chemistry of Materials</i> , 2013, 25, 1572-1583.	6.7	55
31	Successive solvent-treated PEDOT:PSS electrodes for flexible ITO-free organic photovoltaics. <i>Solar Energy Materials and Solar Cells</i> , 2013, 114, 104-109.	6.2	64
32	A Novel Thermally Reversible Soluble/Insoluble Conjugated Polymer with Semi-Fluorinated Alkyl Chains: Enhanced Transistor Performance by Fluorophobic Self-Organization and Orthogonal Hydrophobic Patterning. <i>Advanced Materials</i> , 2013, 25, 6416-6422.	21.0	34
33	High-performance polymer solar cells with moderately reduced graphene oxide as an efficient hole transporting layer. <i>Solar Energy Materials and Solar Cells</i> , 2012, 105, 96-102.	6.2	101
34	Moderately reduced graphene oxide as transparent counter electrodes for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2012, 81, 301-307.	5.2	52
35	Significant Vertical Phase Separation in Solvent-Vapor-Annealed Poly(3,4-ethylenedioxythiophene):Poly(styrene sulfonate) Composite Films Leading to Better Conductivity and Work Function for High-Performance Indium Tin Oxide-Free Optoelectronics. <i>ACS Applied Materials &amp; Interfaces</i> , 2012, 4, 2551-2560.	8.0	162
36	Highly Soluble Poly(thienylenevinylene) Derivatives with Charge-Carrier Mobility Exceeding 1 cm <sup>2</sup> V <sup>-1</sup> s <sup>-1</sup> . <i>Chemistry of Materials</i> , 2011, 23, 4663-4665.	6.7	72

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37	Synthesis and Characterization of Poly(Dithieno[3,2- <i>b</i> :2- <i>3'</i> - <i>d'</i> ]pyrrole) Derivatives Containing Thiophene Moieties and Their Application to Organic Devices. <i>Macromolecular Chemistry and Physics</i> , 2011, 212, 2308-2318.	2.2	12
38	Direct Observation of Ag Filamentary Paths in Organic Resistive Memory Devices. <i>Advanced Functional Materials</i> , 2011, 21, 3976-3981.	14.9	149
39	Solution-Processable Reduced Graphene Oxide as a Novel Alternative to PEDOT:PSS Hole Transport Layers for Highly Efficient and Stable Polymer Solar Cells. <i>Advanced Materials</i> , 2011, 23, 4923-4928.	21.0	363
40	Variations of cell performance in ITO-free organic solar cells with increasing cell areas. <i>Semiconductor Science and Technology</i> , 2011, 26, 034010.	2.0	31
41	Synthesis of novel arylamine containing perfluorocyclobutane and its electrochromic properties. <i>Journal of Materials Chemistry</i> , 2009, 19, 2380.	6.7	32