

# Himadri S Majumdar

## List of Publications by Year in descending order

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50  
papers

1,479  
citations

304743

22  
h-index

315739

38  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2053  
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of regioregular polythiophene in spintronic devices: Effect of interface. Applied Physics Letters, 2006, 89, 122114.	3.3	158
2	Flexography-Printed In <sub>2</sub> O <sub>3</sub> Semiconductor Layers for High-Mobility Thin-Film Transistors on Flexible Plastic Substrate. Advanced Materials, 2015, 27, 7168-7175.	21.0	116
3	Memory device applications of a conjugated polymer: Role of space charges. Journal of Applied Physics, 2002, 91, 2433-2437.	2.5	94
4	Fullerene-based bistable devices and associated negative differential resistance effect. Organic Electronics, 2005, 6, 188-192.	2.6	91
5	Comparing small molecules and polymer for future organic spin-valves. Journal of Alloys and Compounds, 2006, 423, 169-171.	5.5	78
6	Far-UV Annealed Inkjet-Printed In <sub>2</sub> O <sub>3</sub> Semiconductor Layers for Thin-Film Transistors on a Flexible Polyethylene Naphthalate Substrate. ACS Applied Materials & Interfaces, 2017, 9, 8774-8782.	8.0	71
7	Tuning the electrical switching of polymer/fullerene nanocomposite thin film devices by control of morphology. Applied Physics Letters, 2008, 93, .	3.3	64
8	Role of electron-hole pair formation in organic magnetoresistance. Physical Review B, 2009, 79, .	3.2	56
9	Data-storage devices based on layer-by-layer self-assembled films of a phthalocyanine derivative. Organic Electronics, 2003, 4, 39-44.	2.6	50
10	Rapid low-temperature processing of metal-oxide thin film transistors with combined far ultraviolet and thermal annealing. Applied Physics Letters, 2014, 105, .	3.3	48
11	Organic memory using [6,6]-phenyl-C61butyric acid methyl ester: morphology, thickness and concentration dependence studies. Nanotechnology, 2008, 19, 035203.	2.6	39
12	Printed Half-Wave and Full-Wave Rectifier Circuits Based on Organic Diodes. IEEE Transactions on Electron Devices, 2013, 60, 870-874.	3.0	39
13	Surface Functionalization of Ion-Sensitive Floating-Gate Field-Effect Transistors With Organic Electronics. IEEE Transactions on Electron Devices, 2015, 62, 1291-1298.	3.0	39
14	Electrode Dependence of Tunneling Electroresistance and Switching Stability in Organic Ferroelectric P(VDF-TrFE)-Based Tunnel Junctions. Advanced Functional Materials, 2018, 28, 1703273.	14.9	38
15	Switching and memory devices based on a polythiophene derivative for data-storage applications. Synthetic Metals, 2004, 140, 203-206.	3.9	34
16	Application of Paper-Supported Printed Gold Electrodes for Impedimetric Immunosensor Development. Biosensors, 2013, 3, 1-17.	4.7	34
17	Stress and defect induced enhanced low field magnetoresistance and dielectric constant in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. Journal of Alloys and Compounds, 2012, 512, 332-339.	5.5	31
18	Memory applications of a thiophene-based conjugated polymer: capacitance measurements. Journal Physics D: Applied Physics, 2003, 36, 211-215.	2.8	29

#	ARTICLE	IF	CITATIONS
19	On the origin of decay of spin current with temperature in organic spintronic devices. <i>Organic Electronics</i> , 2012, 13, 2653-2658.	2.6	24
20	Organic spin valves: effect of magnetic impurities on the spin transport properties of polymer spacers. <i>New Journal of Physics</i> , 2009, 11, 013022.	2.9	23
21	Ferromagnetism in indium tin-oxide (ITO) electrodes at room temperature. <i>Synthetic Metals</i> , 2010, 160, 303-306.	3.9	23
22	Enhanced Performance of Printed Organic Diodes Using a Thin Interfacial Barrier Layer. <i>ACS Applied Materials &amp; Interfaces</i> , 2011, 3, 7-10.	8.0	23
23	High rectifier output voltages with printed organic charge pump circuit. <i>Organic Electronics</i> , 2014, 15, 306-310.	2.6	20
24	In <sub>2</sub> O <sub>3</sub> Thin-Film Transistors via Inkjet Printing for Depletion-Load nMOS Inverters. <i>IEEE Electron Device Letters</i> , 2016, 37, 445-448.	3.9	20
25	High performance solution processed oxide thin-film transistors with inkjet printed Ag source-drain electrodes. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3220-3225.	5.5	20
26	Conductance switching and data-storage in oriented polymer-based devices: impedance characteristics. <i>Thin Solid Films</i> , 2004, 446, 296-300.	1.8	19
27	Hysteretic magnetoresistance in polymeric diodes. <i>Physica Status Solidi - Rapid Research Letters</i> , 2009, 3, 242-244.	2.4	18
28	Memory applications of a thiophene-based conjugated polymer by photoluminescence measurements. <i>Synthetic Metals</i> , 2005, 148, 175-178.	3.9	17
29	Electrical bistability and memory applications of poly(p-phenylenevinylene) films. <i>Synthetic Metals</i> , 2006, 156, 828-832.	3.9	16
30	Effect of strain and grain boundaries on dielectric properties in La <sub>0.7</sub> Sr <sub>0.3</sub> MnO <sub>3</sub> thin films. <i>Journal of Materials Science</i> , 2013, 48, 2115-2122.	3.7	16
31	Interfacial Properties of Organic Semiconductor-Inorganic Magnetic Oxide Hybrid Spintronic Systems Fabricated Using Pulsed Laser Deposition. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 22228-22237.	8.0	15
32	Decay in spin diffusion length with temperature in organic semiconductors—An insight of possible mechanisms. <i>Synthetic Metals</i> , 2013, 173, 26-30.	3.9	13
33	Anodic Oxidation of Ultra-Thin Ti Layers on ITO Substrates and their Application in Organic Electronic Memory Elements. <i>Electrochimica Acta</i> , 2014, 137, 91-98.	5.2	12
34	Effect of dielectric barrier on rectification, injection and transport properties of printed organic diodes. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 295301.	2.8	11
35	Versatile characterization of thiol-functionalized printed metal electrodes on flexible substrates for cheap diagnostic applications. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4391-4397.	2.4	11
36	COMPARATIVE STUDY OF SPIN INJECTION AND TRANSPORT IN Alq <sub>3</sub> AND Co-PHTHALOCYANINE-BASED ORGANIC SPIN VALVES. <i>Spin</i> , 2014, 04, 1440009.	1.3	11

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37	Observation of ferromagnetic ordering in conjugated polymers exhibiting OMAR effect. <i>Organic Electronics</i> , 2015, 21, 66-72.	2.6	10
38	Surface modified high rectification organic diode based on sulfonated poly(aniline). <i>Journal of Materials Chemistry</i> , 2006, 16, 3014-3020.	6.7	9
39	Gravure printed sol-gel derived ALOOH hybrid nanocomposite thin films for printed electronics. <i>Journal of Materials Chemistry C</i> , 2015, 3, 1776-1786.	5.5	9
40	Comment on "Memory Effect and Negative Differential Resistance by Electrode-Induced Two-Dimensional Single-Electron Tunneling in Molecular and Organic Electronic Devices". <i>Advanced Materials</i> , 2006, 18, 2805-2806.	21.0	8
41	Photoluminescence measurements to study conductance switching and data storage in polythiophene based devices. <i>Applied Physics Letters</i> , 2004, 85, 2393-2395.	3.3	6
42	Towards printed magnetic sensors based on organic diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2009, 206, 2198-2201.	1.8	5
43	Large-scale Solution Processable Graphene-based Thin Film Devices. <i>Materials Research Society Symposia Proceedings</i> , 2012, 1407, 218.	0.1	4
44	Electrical and thermal analysis of frequency dependent filamentary switching in printed rectifying diodes. <i>Organic Electronics</i> , 2015, 20, 69-75.	2.6	3
45	Relaxation dynamics in light-emitting devices based on a poly(3-alkylthiophene) derivative: transient capacitance and transient electroluminescence studies. <i>Synthetic Metals</i> , 2002, 129, 275-279.	3.9	1
46	Imaging and Elemental Analysis of Polymer/Fullerene Nanocomposite Memory Devices. <i>Materials Research Society Symposia Proceedings</i> , 2008, 1071, 1.	0.1	0
47	Organic Electronics. <i>International Journal of Photoenergy</i> , 2013, 2013, 1-1.	2.5	0
48	High Throughput Electrochemical Method for Contact Optimization in Printed Rectifying Diodes. <i>Materials Research Society Symposia Proceedings</i> , 2014, 1628, 1.	0.1	0
49	Modelling of printable metal-oxide TFTs for circuit simulation. , 2014, , .		0
50	Effect of UV light and low temperature on solution-processed, high-performance metal-oxide semiconductors and TFTs. , 2014, , .		0