

# Dipjyoti Das

## List of Publications by Year in descending order

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35  
papers

799  
citations

471509

17  
h-index

501196

28  
g-index

35  
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35  
docs citations

35  
times ranked

862  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substantial efficiency enhancement in solution processed phosphorescent light emitting diode with polymer host: Efficient optimization of charge balance and processing conditions. Journal of Physics and Chemistry of Solids, 2022, 163, 110577.	4.0	4
2	Sub 5 Å...EOT Hf <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> , for Next-Generation DRAM Capacitors Using Morphotropic Phase Boundary and High-Pressure (200 atm) Annealing With Rapid Cooling Process. IEEE Transactions on Electron Devices, 2022, 69, 103-108.	3.0	16
3	Low-Temperature Growth of Ferroelectric Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Thin Films Assisted by Deep Ultraviolet Light Irradiation. ACS Applied Electronic Materials, 2021, 3, 1244-1251.	4.3	16
4	Ferroelectricity in Al <sub>f</sub> /Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> , Bilayer Stack: Role of Dielectric Layer Thickness and Annealing Temperature. Journal of Semiconductor Technology and Science, 2021, 21, 62-67.	0.4	9
5	The Influence of Top and Bottom Metal Electrodes on Ferroelectricity of Hafnia. IEEE Transactions on Electron Devices, 2021, 68, 523-528.	3.0	80
6	Insertion of Dielectric Interlayer: A New Approach to Enhance Energy Storage in Hf <sub>1-x</sub> Zr <sub>x</sub> O <sub>2</sub> Capacitors. IEEE Electron Device Letters, 2021, 42, 331-334.	3.9	30
7	Influence of High-Pressure Annealing Conditions on Ferroelectric and Interfacial Properties of Zr-Rich Hf <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> Capacitors. IEEE Transactions on Electron Devices, 2021, 68, 1996-2002.	3.0	27
8	Ferroelectricity Enhancement in Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Based Tri-Layer Capacitors at Low-Temperature (350 Å°C) Annealing Process. IEEE Electron Device Letters, 2021, 42, 812-815.	3.9	39
9	Ferroelectricity in CMOS-Compatible Hafnium Oxides: Reviving the ferroelectric field-effect transistor technology. IEEE Nanotechnology Magazine, 2021, 15, 20-32.	1.3	25
10	Broad spectral responsivity in highly photoconductive InZnO/MoS <sub>2</sub> heterojunction phototransistor with ultrathin transparent metal electrode. Nanotechnology, 2020, 31, 035201.	2.6	0
11	Demonstration of High Ferroelectricity ( $P_{r} \sim 29 \text{ } \mu\text{C}/\text{cm}^2$ ) in Zr Rich Hf <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> Films. IEEE Electron Device Letters, 2020, 41, 34-37.	3.9	38
12	Trade-off between interfacial charge and negative capacitance effects in the Hf-Zr-Al-O/Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> bilayer system. Solid-State Electronics, 2020, 174, 107914.	1.4	14
13	High-k Hf <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> , Ferroelectric Insulator by Utilizing High Pressure Anneal. IEEE Transactions on Electron Devices, 2020, 67, 2489-2494.	3.0	36
14	Ferroelectricity Enhancement in Hf <sub>0.5</sub> Zr <sub>0.5</sub> O <sub>2</sub> Capacitors by Incorporating Ta <sub>2</sub> O <sub>5</sub> Dielectric Seed Layers. , 2020, , .		8
15	Effect of High Pressure Annealing Temperature on the Ferroelectric Properties of TiN/Hf <sub>0.25</sub> Zr <sub>0.75</sub> O <sub>2</sub> /TiN Capacitors. , 2020, , .		2
16	Insertion of HfO <sub>2</sub> Seed/Dielectric Layer to the Ferroelectric HZO Films for Heightened Remanent Polarization in MFM Capacitors. IEEE Transactions on Electron Devices, 2020, 67, 745-750.	3.0	67
17	White light emitting diode based on purely organic fluorescent to modern thermally activated delayed fluorescence (TADF) and perovskite materials. Nano Convergence, 2019, 6, 31.	12.1	31
18	Improved optical performance of multi-layer MoS <sub>2</sub> phototransistor with see-through metal electrode. Nano Convergence, 2019, 6, 32.	12.1	9

#	ARTICLE	IF	CITATIONS
19	Solution Processed Donor-Acceptor Polymer Based Electrical Memory Device with High On/Off Ratio and Tunable Properties. <i>ACS Applied Electronic Materials</i> , 2019, 1, 600-607.	4.3	31
20	Effect of Substrate Temperature on Twin Donor Layer Organic Solar Cell. <i>Materials Today: Proceedings</i> , 2018, 5, 23450-23455.	1.8	0
21	First Example of White Organic Electroluminescence Utilizing Perylene Ester Imides. <i>ChemistrySelect</i> , 2018, 3, 5123-5129.	1.5	14
22	Electroluminescent room temperature columnar liquid crystals based on bay-annulated perylene tetraesters. <i>Journal of Materials Chemistry C</i> , 2017, 5, 1767-1781.	5.5	42
23	Solution Processed WPLEDs with Good Color Stability and High Color Rendering Index via a Phosphor-Sensitized System. <i>ChemistrySelect</i> , 2017, 2, 3184-3190.	1.5	3
24	Combined influence of plasmonic metal nanoparticles and dual cathode buffer layers for highly efficient rrP3HT:PCBM-based bulk heterojunction solar cells. <i>Journal of Materials Chemistry C</i> , 2017, 5, 6578-6587.	5.5	17
25	High-Performance ZnPc Thin Film-Based Photosensitive Organic Field-Effect Transistors: Influence of Multilayer Dielectric Systems and Thin Film Growth Structure. <i>ACS Omega</i> , 2017, 2, 1241-1248.	3.5	13
26	Color Tunable Donor-Acceptor Electroluminescent Copolymers: Synthesis, Characterization, Photophysical Properties and PLED Fabrication. <i>ChemistrySelect</i> , 2017, 2, 7044-7049.	1.5	2
27	Saturated and Stable White Electroluminescence from Linear Single Polymer Systems Based on Polyfluorene and Mono-Substituted Dibenzofulvene Derivatives. <i>Journal of Physical Chemistry C</i> , 2017, 121, 18137-18143.	3.1	10
28	White polymer light emitting diodes based on PVK: the effect of the electron injection barrier on transport properties, electroluminescence and controlling the electroplex formation. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 33077-33084.	2.8	24
29	Effect of Dual Cathode Buffer Layer on the Charge Carrier Dynamics of rrP3HT:PCBM Based Bulk Heterojunction Solar Cell. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 10904-10910.	8.0	27
30	Photosensitive organic field effect transistors: the influence of ZnPc morphology and bilayer dielectrics for achieving a low operating voltage and low bias stress effect. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 32602-32609.	2.8	19
31	Improvement of charge carrier dynamics in P3HT:PCBM based solar cell in presence of organic cathode interfacial layers. , 2016, , .		0
32	Efficient blue and white polymer light emitting diodes based on a well charge balanced, core modified polyfluorene derivative. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 7389-7394.	2.8	20
33	Organic Semiconductors: A New Future of Nanodevices and Applications. , 2015, , 97-128.		12
34	Synthesis and characterization of color tunable, highly electroluminescent copolymers of polyfluorene by incorporating the N-phenyl-1,8-naphthalimide moiety into the main chain. <i>Journal of Materials Chemistry C</i> , 2015, 3, 9318-9326.	5.5	23
35	Improved molecular architecture of D-A carbazole dyes: 9% PCE with a cobalt redox shuttle in dye sensitized solar cells. <i>Journal of Materials Chemistry A</i> , 2015, 3, 21664-21671.	10.3	91