

# Dipjyoti Das

## List of Publications by Year in descending order

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35  
papers

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471509

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501196

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g-index

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docs citations

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times ranked

862  
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved molecular architecture of Dâ€™A carbazole dyes: 9% PCE with a cobalt redox shuttle in dye sensitized solar cells. Journal of Materials Chemistry A, 2015, 3, 21664-21671.	10.3	91
2	The Influence of Top and Bottom Metal Electrodes on Ferroelectricity of Hafnia. IEEE Transactions on Electron Devices, 2021, 68, 523-528.	3.0	80
3	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
4	Electroluminescent room temperature columnar liquid crystals based on bay-annulated perylene tetraesters. Journal of Materials Chemistry C, 2017, 5, 1767-1781.	5.5	42
5	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
6	Demonstration of High Ferroelectricity (P <sub>r</sub> ~ 29 µC/cm <sup>2</sup> ) 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
7	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
8	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
9	Solution Processed Donor-Acceptor Polymer Based Electrical Memory Device with High On/Off Ratio and Tunable Properties. ACS Applied Electronic Materials, 2019, 1, 600-607.	4.3	31
10	Insertion of Dielectric Interlayer: A New Approach to Enhance Energy Storage in Hf <sub>x</sub> Zr <sub>1-x</sub> O <sub>2</sub> Capacitors. IEEE Electron Device Letters, 2021, 42, 331-334.	3.9	30
11	Effect of Dual Cathode Buffer Layer on the Charge Carrier Dynamics of rrP3HT:PCBM Based Bulk Heterojunction Solar Cell. ACS Applied Materials & Interfaces, 2016, 8, 10904-10910.	8.0	27
12	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
13	Ferroelectricity in CMOS-Compatible Hafnium Oxides: Reviving the ferroelectric field-effect transistor technology. IEEE Nanotechnology Magazine, 2021, 15, 20-32.	1.3	25
14	White polymer light emitting diodes based on PVK: the effect of the electron injection barrier on transport properties, electroluminescence and controlling the electroplex formation. Physical Chemistry Chemical Physics, 2016, 18, 33077-33084.	2.8	24
15	Synthesis and characterization of color tunable, highly electroluminescent copolymers of polyfluorene by incorporating the N-phenyl-1,8-naphthalimide moiety into the main chain. Journal of Materials Chemistry C, 2015, 3, 9318-9326.	5.5	23
16	Efficient blue and white polymer light emitting diodes based on a well charge balanced, core modified polyfluorene derivative. Physical Chemistry Chemical Physics, 2016, 18, 7389-7394.	2.8	20
17	Photosensitive organic field effect transistors: the influence of ZnPc morphology and bilayer dielectrics for achieving a low operating voltage and low bias stress effect. Physical Chemistry Chemical Physics, 2016, 18, 32602-32609.	2.8	19
18	Combined influence of plasmonic metal nanoparticles and dual cathode buffer layers for highly efficient rrP3HT:PCBM-based bulk heterojunction solar cells. Journal of Materials Chemistry C, 2017, 5, 6578-6587.	5.5	17

#	ARTICLE	IF	CITATIONS
19	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
20	Sub 5 Å...-EOT Hf <sub>1-x</sub> Zr <sub>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
21	First Example of White Organic Electroluminescence Utilizing Perylene Ester Imides. ChemistrySelect, 2018, 3, 5123-5129.	1.5	14
22	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
23	High-Performance ZnPc Thin Film-Based Photosensitive Organic Field-Effect Transistors: Influence of Multilayer Dielectric Systems and Thin Film Growth Structure. ACS Omega, 2017, 2, 1241-1248.	3.5	13
24	Organic Semiconductors: A New Future of Nanodevices and Applications. , 2015, , 97-128.		12
25	Saturated and Stable White Electroluminescence from Linear Single Polymer Systems Based on Polyfluorene and Mono-Substituted Dibenzofulvene Derivatives. Journal of Physical Chemistry C, 2017, 121, 18137-18143.	3.1	10
26	Improved optical performance of multi-layer MoS <sub>2</sub> phototransistor with see-through metal electrode. Nano Convergence, 2019, 6, 32.	12.1	9
27	Ferroelectricity in Al <sub>x</sub> O <sub>y</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
28	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
29	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
30	Solution Processed WPLEDs with Good Color Stability and High Color Rendering Index via a Phosphor-Sensitized System. ChemistrySelect, 2017, 2, 3184-3190.	1.5	3
31	Color Tunable Donor-Acceptor Electroluminescent Copolymers: Synthesis, Characterization, Photophysical Properties and PLED Fabrication. ChemistrySelect, 2017, 2, 7044-7049.	1.5	2
32	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
33	Improvement of charge carrier dynamics in P3HT:PC <sub>61</sub> BM based solar cell in presence of organic cathode interfacial layers. , 2016, , .		0
34	Effect of Substrate Temperature on Twin Donor Layer Organic Solar Cell. Materials Today: Proceedings, 2018, 5, 23450-23455.	1.8	0
35	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