

# Brijesh Kumar

## List of Publications by Year in descending order

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68  
papers

1,163  
citations

430874

18  
h-index

414414

32  
g-index

69  
all docs

69  
docs citations

69  
times ranked

902  
citing authors

#	ARTICLE	IF	CITATIONS
1	Organic Thin Film Transistors: Structures, Models, Materials, Fabrication, and Applications: A Review. Polymer Reviews, 2014, 54, 33-111.	10.9	272
2	Perspectives and challenges for organic thin film transistors: materials, devices, processes and applications. Journal of Materials Science: Materials in Electronics, 2014, 25, 1-30.	2.2	126
3	Development of Pd-Pt functionalized high performance H <sub>2</sub> gas sensor based on silicon carbide coated porous silicon for extreme environment applications. Sensors and Actuators B: Chemical, 2019, 283, 373-383.	7.8	62
4	Impact of different layers on performance of OLED. Microsystem Technologies, 2018, 24, 4981-4989.	2.0	57
5	Single and dual gate OTFT based robust organic digital design. Microelectronics Reliability, 2014, 54, 100-109.	1.7	49
6	Design and analysis of noise margin, write ability and read stability of organic and hybrid 6-T SRAM cell. Microelectronics Reliability, 2014, 54, 2801-2812.	1.7	42
7	Static and dynamic characteristics of dual gate organic TFT based NAND and NOR circuits. Journal of Computational Electronics, 2014, 13, 627-638.	2.5	37
8	Analytical modeling for static and dynamic response of organic pseudo all-p inverter circuits. Journal of Computational Electronics, 2019, 18, 1490-1500.	2.5	35
9	Analytical modeling and parameter extraction of top and bottom contact structures of organic thin film transistors. Microelectronics Journal, 2013, 44, 736-743.	2.0	34
10	Analytical modelling and parameters extraction of multilayered OLED. IET Circuits, Devices and Systems, 2019, 13, 1255-1261.	1.4	34
11	Numerical simulation of non-toxic In <sub>2</sub> S <sub>3</sub> /SnS <sub>2</sub> buffer layer to enhance CZTS solar cells efficiency by optimizing device parameters. Optik, 2021, 227, 166087.	2.9	33
12	In-Depth Analysis of Structures, Materials, Models, Parameters, and Applications of Organic Light-Emitting Diodes. Journal of Electronic Materials, 2020, 49, 4610-4636.	2.2	31
13	Analysis of electrical parameters of organic thin film transistors based on thickness variation in semi-conducting and dielectric layers. IET Circuits, Devices and Systems, 2014, 8, 131-140.	1.4	30
14	Modeling and Analysis of High-Performance Triple Hole Block Layer Organic LED Based Light Sensor for Detection of Ovarian Cancer. IEEE Transactions on Circuits and Systems I: Regular Papers, 2021, 68, 3254-3264.	5.4	27
15	Organic LED based light sensor for detection of ovarian cancer. Microelectronic Engineering, 2019, 218, 111154.	2.4	26
16	Modeling of top and bottom contact structure organic field effect transistors. Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics, 2013, 31, .	1.2	24
17	Static and dynamic analysis of organic and hybrid inverter circuits. Journal of Computational Electronics, 2013, 12, 765-774.	2.5	22
18	Structural and optical characteristics of <i>in-situ</i> sputtered highly oriented 15R-SiC thin films on different substrates. Journal of Applied Physics, 2018, 123, .	2.5	22

#	ARTICLE	IF	CITATIONS
19	Characteristic Performance of OLED Based on Hole Injection, Transport and Blocking Layers. Recent Patents on Engineering, 2021, 14, 373-383.	0.4	19
20	Numerical modeling and parameters extraction of novel triple hole block layer based organic light emitting diode for display. Journal of the Society for Information Display, 2020, 28, 956-964.	2.1	18
21	Analysis of static and dynamic performance of organic inverter circuits based on dual and single gate organic thin film transistors. IET Circuits, Devices and Systems, 2013, 7, 345-351.	1.4	13
22	Study on formation and characterization of kesterite CZTSSe thin films deposited by thermal evaporation technique for solar cell applications. Journal of Materials Science: Materials in Electronics, 2020, 31, 8308-8315.	2.2	10
23	The role of non-homogeneous barrier on the electrical performance of 15R-SiC Schottky diodes grown by in-situ RF sputtering. Materials Science in Semiconductor Processing, 2022, 149, 106855.	4.0	10
24	Performance analysis of dual gate organic thin film transistor and organic SR latch application. , 2015, , .		9
25	The Role of the Substrate on Photophysical Properties of Highly Ordered 15R-SiC Thin Films. Journal of Electronic Materials, 2018, 47, 5259-5268.	2.2	9
26	Threshold voltage compensation 6T2C-pixel circuit design using OTFT for flexible display. Microelectronics Journal, 2020, 102, 104818.	2.0	8
27	Recent advancements and overview of organic solar cell. , 2016, , .		6
28	Performance analysis of dual gate organic thin film transistor through analytical modeling. , 2016, , .		6
29	Parameter Extraction of High-Performance Material Based Organic Light-Emitting Transistors (OLETs). Silicon, 0, , 1.	3.3	6
30	Synthesis of highly efficient selenium oxide hybridized g-C3N4 photocatalyst for NADH/NADPH regeneration to facilitate solar-to-chemical reaction. Main Group Chemistry, 2022, 21, 1077-1089.	0.8	6
31	Performance analysis of vertical channel organic thin film transistors through 2-D device simulation. , 2015, , .		5
32	Recent advancement in organic solar cells and comparison between various structures. , 2016, , .		5
33	Organic Light Emitting Diodes-Recent Advancements. , 2017, , .		5
34	Performance improvement for organic light emitting diodes by changing the position of mixed-interlayer. Main Group Chemistry, 2022, 21, 837-849.	0.8	5
35	Organic Humidity Sensors with Different Materials and Its Application in Environment Monitoring. , 2018, , .		4
36	Effect of dielectric thickness on performance of dual gate organic field effect transistors. , 2012, , .		3

#	ARTICLE	IF	CITATIONS
37	Analysis of electrode thickness variation on performance parameters of polymer thin film transistors using device simulation. International Journal of Advanced Intelligence Paradigms, 2013, 5, 3.	0.3	3
38	Coulomb Blockade Effect through Single Electron Tunneling Method in Cylindrical Gate Organic Light Emitting Transistor Configuration. Silicon, 2022, 14, 4087-4096.	3.3	3
39	Performance Analysis of OLED with Hole Block Layer and Impact of Multiple Hole Block Layer. Communications in Computer and Information Science, 2017, , 452-462.	0.5	3
40	Comparative study of graphene and its derivative materials as an electrode in OLEDs. AIP Conference Proceedings, 2018, , .	0.4	2
41	Performance Analysis of Double Block Layer OLED and Variation in Ratio of Double Block Layer. Advances in Intelligent Systems and Computing, 2018, , 123-128.	0.6	2
42	Organic Solar Cell: Operating Principle, Performance Parameters, Structures and Its Advantages. , 2018, , .		2
43	Detection of Ovarian Cancer using Organic Light Emitting Diodes. , 2018, , .		2
44	Performance Analysis and Parameter Extraction of Organic Light Emitting Transistor (OLET). , 2020, , .		2
45	Impact of Channel Length on Performance of Single-Gate and Dual-Gate a-IGZO Thin Film Transistor. , 2020, , .		2
46	Deposition and characterization of stannite $\text{Cu}_2\text{FeSn}(\text{S}_0\hat{\text{A}}\text{8Se0.2})_4$ thin film for potential absorber layer in solar cell application. Optical Materials, 2021, 120, 111430.	3.6	2
47	Analysis of bottom gate bottom contact device using floating electrode structure. , 2016, , .		1
48	Augmentation of OLEDs by Interpolating Electrode in the Hole Injection Layer. , 2017, , .		1
49	Hexagonal Boron Nitride: A Material Odyssey for the High Performance of OTFTs. , 2018, , .		1
50	Outcome-Based Education (OBE) Academic Planning-An Insight into All Round Development of an Engineer. , 2018, , .		1
51	Organic Thin Film Transistor Based Graphene Drooped Sensors. , 2018, , .		1
52	Mathematical analysis of organic-pass transistor using pseudo-p-OTFTs. Journal of Semiconductors, 2020, 41, 062601.	3.7	1
53	Computational study on 8-quinolinolato-alkali, an electron transporting material for OLED devices. AIP Conference Proceedings, 2020, , .	0.4	1
54	Investigation of Different Layer OLED Structure based upon PEDOT:PSS/GO Composite Anode. , 2020, , .		1

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55	Performance Analysis of Single and Dual Gate OTFT Based Humidity Sensors. , 2020, , .		1
56	Analysis of electrical characteristics and electroluminescent efficiency of field induced contact-DGOLET1. Main Group Chemistry, 2022, 21, 501-511.	0.8	1
57	Performance analysis of dual gate OTFT using different gate dielectric materials. , 2016, , .		0
58	Impact of variation in gate line spacing and active layer thickness on performance of organic static induction transistor. , 2016, , .		0
59	Performance comparison of single and dual gates organic thin film transistors. , 2016, , .		0
60	Single gate based different structures of OTFTs: Prospective and challenges. , 2016, , .		0
61	Effect of electrode-thickness on electrical properties of organic-thin-film-transistors. , 2016, , .		0
62	Impact of Gate Thickness Variation and Dielectric on the Performance of Vertical Organic Thin Film Transistor. Advances in Intelligent Systems and Computing, 2017, , 1065-1072.	0.6	0
63	Dual Gate Organic Inverter Circuit Behavior Analysis Based on Diode Load Logic Configuration. Advances in Intelligent Systems and Computing, 2017, , 1027-1033.	0.6	0
64	Graphene Planted Organic Gas Sensor. , 2017, , .		0
65	Performance Analysis of Different Bootstrap Inverter Configurations using Dual Gate OTFT. , 2018, , .		0
66	Impact of Different Organic Semiconductor Materials on Performance of Dual Gate OTFT. , 2018, , .		0
67	Recent Developments in Dual Gate Based Thin Film Transistors and Their Applications. , 2018, , .		0
68	Organic cylindrical transistor: Analytical modeling and performance parameters extraction. , 2016, , .		0