

Brijesh Kumar

List of Publications by Year in descending order

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68
papers

1,163
citations

430874

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69
docs citations

69
times ranked

902
citing authors

#	ARTICLE	IF	CITATIONS
1	Coulomb Blockade Effect through Single Electron Tunneling Method in Cylindrical Gate Organic Light Emitting Transistor Configuration. Silicon, 2022, 14, 4087-4096.	3.3	3
2	Analysis of electrical characteristics and electroluminescent efficiency of field induced contact-DGOLET1. Main Group Chemistry, 2022, 21, 501-511.	0.8	1
3	Performance improvement for organic light emitting diodes by changing the position of mixed-interlayer. Main Group Chemistry, 2022, 21, 837-849.	0.8	5
4	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
5	The role of non-homogeneous barrier on the electrical performance of 15RÅ“SiC Schottky diodes grown by in-situ RF sputtering. Materials Science in Semiconductor Processing, 2022, 149, 106855.	4.0	10
6	Numerical simulation of non-toxic In2S3/SnS2 buffer layer to enhance CZTS solar cells efficiency by optimizing device parameters. Optik, 2021, 227, 166087.	2.9	33
7	Characteristic Performance of OLED Based on Hole Injection, Transport and Blocking Layers. Recent Patents on Engineering, 2021, 14, 373-383.	0.4	19
8	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
9	Deposition and characterization of stannite Cu2FeSn(SO4·8Se0.2)4 thin film for potential absorber layer in solar cell application. Optical Materials, 2021, 120, 111430.	3.6	2
10	Mathematical analysis of organic-pass transistor using pseudo-p-OTFTs. Journal of Semiconductors, 2020, 41, 062601.	3.7	1
11	Performance Analysis and Parameter Extraction of Organic Light Emitting Transistor (OLET). , 2020, , .		2
12	Impact of Channel Length on Performance of Single-Gate and Dual-Gate a-IGZO Thin Film Transistor. , 2020, , .		2
13	Computational study on 8-quinolinolato-alkali, an electron transporting material for OLED devices. AIP Conference Proceedings, 2020, , .	0.4	1
14	Investigation of Different Layer OLED Structure based upon PEDOT:PSS/GO Composite Anode. , 2020, , .		1
15	Performance Analysis of Single and Dual Gate OTFT Based Humidity Sensors. , 2020, , .		1
16	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
17	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
18	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

#	ARTICLE	IF	CITATIONS
19	Threshold voltage compensation 6T2C-pixel circuit design using OTFT for flexible display. Microelectronics Journal, 2020, 102, 104818.	2.0	8
20	Organic LED based light sensor for detection of ovarian cancer. Microelectronic Engineering, 2019, 218, 111154.	2.4	26
21	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
22	Analytical modelling and parameters extraction of multilayered OLED. IET Circuits, Devices and Systems, 2019, 13, 1255-1261.	1.4	34
23	Development of Pd-Pt functionalized high performance H ₂ 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
24	Comparative study of graphene and its derivative materials as an electrode in OLEDs. AIP Conference Proceedings, 2018, , .	0.4	2
25	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
26	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
27	Impact of different layers on performance of OLED. Microsystem Technologies, 2018, 24, 4981-4989.	2.0	57
28	Hexagonal Boron Nitride: A Material Odyssey for the High Performance of OTFTs. , 2018, , .		1
29	Performance Analysis of Different Bootstrap Inverter Configurations using Dual Gate OTFT. , 2018, , .		0
30	Outcome-Based Education (OBE) Academic Planning-An Insight into All Round Development of an Engineer. , 2018, , .		1
31	Impact of Different Organic Semiconductor Materials on Performance of Dual Gate OTFT. , 2018, , .		0
32	Recent Developments in Dual Gate Based Thin Film Transistors and Their Applications. , 2018, , .		0
33	Organic Thin Film Transistor Based Graphene Drooped Sensors. , 2018, , .		1
34	Organic Humidity Sensors with Different Materials and Its Application in Environment Monitoring. , 2018, , .		4
35	Organic Solar Cell: Operating Principle, Performance Parameters, Structures and Its Advantages. , 2018, , .		2
36	Detection of Ovarian Cancer using Organic Light Emitting Diodes. , 2018, , .		2

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37	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
38	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
39	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
40	Organic Light Emitting Diodes-Recent Advancements. , 2017, , .		5
41	Augmentation of OLEDs by Interpolating Electrode in the Hole Injection Layer. , 2017, , .		1
42	Graphene Planted Organic Gas Sensor. , 2017, , .		0
43	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
44	Recent advancement in organic solar cells and comparison between various structures. , 2016, , .		5
45	Performance analysis of dual gate OTFT using different gate dielectric materials. , 2016, , .		0
46	Impact of variation in gate line spacing and active layer thickness on performance of organic static induction transistor. , 2016, , .		0
47	Performance comparison of single and dual gates organic thin film transistors. , 2016, , .		0
48	Single gate based different structures of OTFTs: Prospective and challenges. , 2016, , .		0
49	Effect of electrode-thickness on electrical properties of organic-thin-film-transistors. , 2016, , .		0
50	Recent advancements and overview of organic solar cell. , 2016, , .		6
51	Analysis of bottom gate bottom contact device using floating electrode structure. , 2016, , .		1
52	Performance analysis of dual gate organic thin film transistor through analytical modeling. , 2016, , .		6
53	Organic cylindrical transistor: Analytical modeling and performance parameters extraction. , 2016, , .		0
54	Performance analysis of vertical channel organic thin film transistors through 2-D device simulation. , 2015, , .		5

#	ARTICLE	IF	CITATIONS
55	Performance analysis of dual gate organic thin film transistor and organic SR latch application. , 2015, , .		9
56	Analysis of electrical parameters of organic thin film transistors based on thickness variation in semiâ€conductive and dielectric layers. IET Circuits, Devices and Systems, 2014, 8, 131-140.	1.4	30
57	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
58	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
59	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
60	Organic Thin Film Transistors: Structures, Models, Materials, Fabrication, and Applications: A Review. Polymer Reviews, 2014, 54, 33-111.	10.9	272
61	Single and dual gate OTFT based robust organic digital design. Microelectronics Reliability, 2014, 54, 100-109.	1.7	49
62	Static and dynamic analysis of organic and hybrid inverter circuits. Journal of Computational Electronics, 2013, 12, 765-774.	2.5	22
63	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
64	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
65	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
66	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
67	Effect of dielectric thickness on performance of dual gate organic field effect transistors. , 2012, , .		3
68	Parameter Extraction of High-Performance Material Based Organic Light-Emitting Transistors (OLETs). Silicon, 0, , 1.	3.3	6