

Prashant Sonar

List of Publications by Year in descending order

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220
papers

10,444
citations

36303

51
h-index

39675

94
g-index

228
all docs

228
docs citations

228
times ranked

10893
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultra-bright green carbon dots with excitation-independent fluorescence for bioimaging. <i>Journal of Nanostructure in Chemistry</i> , 2023, 13, 377-387.	9.1	13
2	Monochromatic Blue and Switchable Blue-Green Carbon Quantum Dots by Room-Temperature Air Plasma Processing. <i>Advanced Materials Technologies</i> , 2022, 7, 2100586.	5.8	16
3	Electrochemical Impedance Spectroscopy and its Applications in Sensor Development and Measuring Battery Performance. <i>IEEE Sensors Journal</i> , 2022, 22, 10152-10162.	4.7	8
4	Band Alignment with Self-Assembled 2D Layer of Carbon Derived from Waste to Balance Charge Injection in Perovskite Crystals Based Rigid and Flexible Light Emitting Diodes. <i>Advanced Materials Technologies</i> , 2022, 7, 2100583.	5.8	4
5	Review-Contemporary Progresses in Carbon-Based Electrode Material in Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2022, 169, 020530.	2.9	28
6	Recent progress and growth in biosensors technology: A critical review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 109, 21-51.	5.8	94
7	Surface Treatment of Inorganic CsPbI ₃ Nanocrystals with Guanidinium Iodide for Efficient Perovskite Light-Emitting Diodes with High Brightness. <i>Nano-Micro Letters</i> , 2022, 14, 69.	27.0	24
8	Directional Carrier Polarity Tunability in Ambipolar Organic Transistors Based on Diketopyrrolopyrrole and Bithiophene Imide Dual-Acceptor Semiconducting Polymers. <i>Chemistry of Materials</i> , 2022, 34, 3140-3151.	6.7	10
9	Review-Chemical Structures and Stability of Carbon-doped Graphene Nanomaterials and the Growth Temperature of Carbon Nanomaterials Grown by Chemical Vapor Deposition for Electrochemical Catalysis Reactions. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 041003.	1.8	11
10	Functional Materials Research at Queensland University of Technology's Centre for Materials Science. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	0
11	Composition and concentration-dependent photoluminescence of nitrogen-doped carbon dots. <i>Advanced Powder Technology</i> , 2022, 33, 103560.	4.1	7
12	Fluorenone and triphenylamine based donor-acceptor-donor (D-A-D) for solution-processed organic light-emitting diodes. <i>Flexible and Printed Electronics</i> , 2022, 7, 025009.	2.7	1
13	Current Trends and Future Perspectives of Nanomaterials in Food Packaging Application. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-32.	2.7	31
14	A paper-based optical sensor for the screening of viruses through the cysteine residues of their surface proteins: A proof of concept on the detection of coronavirus infection. <i>Talanta</i> , 2022, 248, 123630.	5.5	4
15	A simplified approach to thermally activated delayed fluorescence (TADF) bipolar host polymers. <i>Polymer Chemistry</i> , 2022, 13, 4241-4248.	3.9	5
16	Versatile azo-BODIPY-based low-bandgap conjugated small molecule for light harvesting and near-infrared photodetection. <i>Information Materials</i> , 2022, 4, .	17.3	7
17	A SERS quenching method for the sensitive determination of insulin. <i>Drug Testing and Analysis</i> , 2021, 13, 1048-1053.	2.6	6
18	Current advancements on charge selective contact interfacial layers and electrodes in flexible hybrid perovskite photovoltaics. <i>Journal of Energy Chemistry</i> , 2021, 54, 151-173.	12.9	51

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19	Enhancing the Electrochemical Doping Efficiency in Diketopyrrolopyrrole-Based Polymer for Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2021, 7, .	5.1	39
20	Enhanced amperometric acetone sensing using electrospun non-stoichiometric WO ₃ x nanofibers. <i>Journal of Materials Chemistry C</i> , 2021, 9, 671-678.	5.5	17
21	Short Alkyl Chain Engineering Modulation on Naphthalene Flanked Diketopyrrolopyrrole toward High-Performance Single Crystal Transistors and Organic Thin Film Displays. <i>Advanced Electronic Materials</i> , 2021, 7, 2000804.	5.1	18
22	Effect of controlled humidity on resistive switching of multilayer VO ₂ devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2021, 264, 114968.	3.5	14
23	Tin oxide for optoelectronic, photovoltaic and energy storage devices: a review. <i>Journal of Materials Chemistry A</i> , 2021, 9, 16621-16684.	10.3	146
24	Isolation and Detection of Exosomes Using Fe ₂ O ₃ Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021, 4, 1175-1186.	5.0	41
25	Organic Transistors: Enhancing the Electrochemical Doping Efficiency in Diketopyrrolopyrrole-Based Polymer for Organic Electrochemical Transistors (<i>Adv. Electron. Mater.</i> 1/2021). <i>Advanced Electronic Materials</i> , 2021, 7, 2170004.	5.1	1
26	Self-assembled carbon dot-wrapped perovskites enable light trapping and defect passivation for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7508-7521.	10.3	21
27	Polyethylene Glycol Coated Magnetic Nanoparticles: Hybrid Nanofluid Formulation, Properties and Drug Delivery Prospects. <i>Nanomaterials</i> , 2021, 11, 440.	4.1	34
28	Flexible Sensors Based on Organic-Inorganic Hybrid Materials. <i>Advanced Materials Technologies</i> , 2021, 6, 2000889.	5.8	43
29	Efficiency enhancement of low-cost metal free dye sensitized solar cells via non-thermal atmospheric pressure plasma surface treatment. <i>Solar Energy</i> , 2021, 215, 367-374.	6.1	13
30	Facile Use of Silver Nanoparticles-Loaded Alumina/Silica in Nanofluid Formulations for Enhanced Catalytic Performance toward 4-Nitrophenol Reduction. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 2994.	2.6	4
31	Materials Design and Optimization for Next-Generation Solar Cell and Light-Emitting Technologies. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 4638-4657.	4.6	12
32	Energy-Level Manipulation in Novel Indacenodithiophene-Based Donor-Acceptor Polymers for Near-Infrared Organic Photodetectors. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29866-29875.	8.0	19
33	Electrochemical Detection of Global DNA Methylation Using Biologically Assembled Polymer Beads. <i>Cancers</i> , 2021, 13, 3787.	3.7	1
34	p-i-n Structured Semitransparent Perovskite Solar Cells with Solution-Processed Electron Transport Layer. <i>Journal of Electronic Materials</i> , 2021, 50, 5732-5739.	2.2	7
35	Efficient Plastic Recycling and Remolding Circular Economy Using the Technology of Trust-Blockchain. <i>Sustainability</i> , 2021, 13, 9142.	3.2	38
36	Highly-stable memristive devices with synaptic characteristics based on hydrothermally synthesized MnO ₂ active layers. <i>Journal of Alloys and Compounds</i> , 2021, 872, 159653.	5.5	17

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37	Black Phosphorus-Diketopyrrolopyrrole Polymer Semiconductor Hybrid for Enhanced Charge Transfer and Photodetection. <i>Advanced Photonics Research</i> , 2021, 2, 2100150.	3.6	3
38	Structural Geometry Variation of 1,4-Naphthalene-Based Co-Polymers to Tune the Device Performance of PVK-Host-Based OLEDs. <i>Polymers</i> , 2021, 13, 2914.	4.5	4
39	Single and dual-gate organic field-effect transistors based on diketopyrrolopyrrole-diethienothiophene polymers: performance modulation via dielectric interfaces. <i>Materials Research Express</i> , 2021, 8, 096301.	1.6	1
40	Antibody coated conductive polymer for the electrochemical immunosensing of Human Cardiac Troponin I in blood plasma. <i>Analytica Chimica Acta</i> , 2021, 1185, 339082.	5.4	17
41	MagnetoMethyl IP: a magnetic nanoparticle-mediated immunoprecipitation and electrochemical detection method for global DNA methylation. <i>Analyst, The</i> , 2021, 146, 3654-3665.	3.5	3
42	Emissive semi-interpenetrating polymer networks for ink-jet printed multilayer OLEDs. <i>Polymer Chemistry</i> , 2021, 12, 5567-5573.	3.9	4
43	Polyoxometalates (POMs): from electroactive clusters to energy materials. <i>Energy and Environmental Science</i> , 2021, 14, 1652-1700.	30.8	184
44	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges. <i>Advanced Energy Materials</i> , 2021, 11, .	19.5	40
45	Organic Electrochemical Transistors for In Vivo Bioelectronics. <i>Advanced Materials</i> , 2021, 33, e2101874.	21.0	78
46	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv.) <i>TJ ETQq0 0 0 rgBT/Overlock 10 Tf 50 3</i>	19.5	2
47	Review-Carbon Electrodes in Magnesium Sulphur Batteries: Performance Comparison of Electrodes and Future Directions. <i>Journal of the Electrochemical Society</i> , 2021, 168, 120555.	2.9	12
48	Organic Electrochemical Transistors for In Vivo Bioelectronics (Adv. Mater. 49/2021). <i>Advanced Materials</i> , 2021, 33, .	21.0	1
49	Fluorination of pyrene-based organic semiconductors enhances the performance of light emitting diodes and halide perovskite solar cells. <i>Organic Electronics</i> , 2020, 77, 105524.	2.6	10
50	Small molecular material as an interfacial layer in hybrid inverted structure perovskite solar cells. <i>Materials Science in Semiconductor Processing</i> , 2020, 108, 104908.	4.0	8
51	Tuning the Charge Carrier Polarity of Organic Transistors by Varying the Electron Affinity of the Flanked Units in Diketopyrrolopyrrole-Based Copolymers. <i>Advanced Functional Materials</i> , 2020, 30, 1907452.	14.9	45
52	Developments of Diketopyrrolopyrrole-Dye-Based Organic Semiconductors for a Wide Range of Applications in Electronics. <i>Advanced Materials</i> , 2020, 32, e1903882.	21.0	212
53	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO ₂ -Based Building Materials. <i>Nanomaterials</i> , 2020, 10, 1854.	4.1	44
54	Pretreatment and fermentation of lignocellulosic biomass: reaction mechanisms and process engineering. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 2017-2047.	3.7	57

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55	Solution-Processed Pure Sulfide $\text{Cu}_{2}(\text{Zn}_{0.6}\text{Cd}_{0.4})\text{SnS}_{4}$ Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , 2020, 4, 2000293.	5.8	16
56	Elucidation of Thermal Degradation Model for Low and High Density Polyethylene by Statistical Parameters. <i>ChemistrySelect</i> , 2020, 5, 14153-14160.	1.5	3
57	Performance evaluation of a low-cost, novel vanadium nitride xerogel (VNXG) as a platinum-free electrocatalyst for dye-sensitized solar cells. <i>RSC Advances</i> , 2020, 10, 41177-41186.	3.6	13
58	Reduced Threshold Voltages and Enhanced Mobilities in Diketopyrrolopyrrole-Dithienothiophene Polymer-Based Organic Transistor by Interface Engineering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000097.	1.8	5
59	Interface modification using a post-treatment-free heteropolyacid for effective charge selective bilayer formation in perovskite solar cells. <i>Materials Letters</i> , 2020, 277, 128393.	2.6	2
60	A printable thermally activated delayed fluorescence polymer light emitting diode. <i>Journal of Materials Chemistry C</i> , 2020, 8, 13001-13009.	5.5	12
61	Pyrrolo[3,2-b]pyrrole-1,4-dione (IsoDPP) End Capped with Naphthalimide or Phthalimide: Novel Small Molecular Acceptors for Organic Solar Cells. <i>Molecules</i> , 2020, 25, 4700.	3.8	5
62	Solution-Processed Pure Sulfide $\text{Cu}_{2}(\text{Zn}_{0.6}\text{Cd}_{0.4})\text{SnS}_{4}$ Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , 2020, 4, 2070096.	5.8	0
63	Green Electronics: Biodegradable Materials and Green Processing for Green Electronics (<i>Adv. Mater.</i>) Tj ETQq1 1 0.784314 rgBT / Over 210	2.1	2
64	Electrode and dielectric layer interface device engineering study using furan flanked diketopyrrolopyrrole-dithienothiophene polymer based organic transistors. <i>Scientific Reports</i> , 2020, 10, 19989.	3.3	9
65	Diketopyrrolopyrrole-Based Dual-Acceptor Copolymers to Realize Tunable Charge Carrier Polarity of Organic Field-Effect Transistors and High-Performance Nonvolatile Ambipolar Flash Memories. <i>ACS Applied Electronic Materials</i> , 2020, 2, 1609-1618.	4.3	21
66	Light-Emitting Electrochemical Cells: Triethylene Glycol Substituted Diketopyrrolopyrrole and Isoindigo Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors (<i>Adv. Electron. Mater.</i> 5/2020). <i>Advanced Electronic Materials</i> , 2020, 6, 2070025.	5.1	1
67	Organic field-effect transistor-based flexible sensors. <i>Chemical Society Reviews</i> , 2020, 49, 3423-3460.	38.1	230
68	Potassium Doping to Enhance Green Photoemission of Light-Emitting Diodes Based on CsPbBr_{3} Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2020, 8, 2000742.	7.3	32
69	Synergistic Use of Pyridine and Selenophene in a Diketopyrrolopyrrole-Based Conjugated Polymer Enhances the Electron Mobility in Organic Transistors. <i>Advanced Functional Materials</i> , 2020, 30, 2000489.	14.9	43
70	Bactericidal Silver Nanoparticles by Atmospheric Pressure Solution Plasma Processing. <i>Nanomaterials</i> , 2020, 10, 874.	4.1	20
71	Triethylene Glycol Substituted Diketopyrrolopyrrole and Isoindigo Dye Based Donor-Acceptor Copolymers for Organic Light-Emitting Electrochemical Cells and Transistors. <i>Advanced Electronic Materials</i> , 2020, 6, 1901414.	5.1	20
72	Rapid and selective detection of recombinant human erythropoietin in human blood plasma by a sensitive optical sensor. <i>Analyst</i> , The, 2020, 145, 5508-5515.	3.5	9

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73	Biodegradable Materials and Green Processing for Green Electronics. <i>Advanced Materials</i> , 2020, 32, e2001591.	21.0	168
74	A highly sensitive SERS quenching nanosensor for the determination of tumor necrosis factor alpha in blood. <i>Sensors and Actuators B: Chemical</i> , 2020, 310, 127867.	7.8	30
75	Carbon dots derived from human hair for ppb level chloroform sensing in water. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00159.	3.3	21
76	Biowasteâ€Derived, Selfâ€Organized Arrays of Highâ€Performance 2D Carbon Emitters for Organic Lightâ€Emitting Diodes. <i>Advanced Materials</i> , 2020, 32, e1906176.	21.0	27
77	Electropolymerized Porous Polymer Films on Flexible Indium Tin Oxide Using Trifunctional Furan Substituted Benzene Conjugated Monomer for Biosensing. <i>ACS Applied Polymer Materials</i> , 2020, 2, 351-359.	4.4	10
78	Development of Dopantâ€Free Organic Hole Transporting Materials for Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020, 10, 1903326.	19.5	202
79	Allâ€Rounder Lowâ€Cost Dopantâ€Free Dâ€Aâ€D Holeâ€Transporting Materials for Efficient Indoor and Outdoor Performance of Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2020, 6, 1900884.	5.1	72
80	Highly Efficient Microscopic Charge Transport within Crystalline Domains in a Furanâ€Flanked Diketopyrrolopyrroleâ€Based Conjugated Copolymer. <i>Advanced Functional Materials</i> , 2020, 30, 2000389.	14.9	11
81	Versatile nature of anthanthrone based polymers as active multifunctional semiconductors for various organic electronic devices. <i>Materials Advances</i> , 2020, 1, 3428-3438.	5.4	9
82	White paper on the future of plasma science and technology in plastics and textiles. <i>Plasma Processes and Polymers</i> , 2019, 16, 1700228.	3.0	73
83	Naphthalene flanked diketopyrrolopyrrole: A new DPP family member and its comparative optoelectronic properties with thiophene- and furan- flanked DPP counterparts. <i>Organic Electronics</i> , 2019, 74, 290-298.	2.6	9
84	Dual chemosensor for the rapid detection of mercury(ii) pollution and biothiols. <i>Analyst</i> , The, 2019, 144, 4908-4916.	3.5	36
85	Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus. <i>Advanced Functional Materials</i> , 2019, 29, 1901991.	14.9	97
86	Photo-Cross-Linkable Polymer Inks for Solution-Based OLED Fabrication. <i>Macromolecules</i> , 2019, 52, 9105-9113.	4.8	17
87	Optoelectronics: Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus (Adv. Funct. Mater. 39/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970272.	14.9	2
88	Template based sintering of WO ₃ nanoparticles into porous tungsten oxide nanofibers for acetone sensing applications. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2961-2970.	5.5	33
89	Organic interfacial materials for perovskite-based optoelectronic devices. <i>Energy and Environmental Science</i> , 2019, 12, 1177-1209.	30.8	185
90	Naphthalene flanked diketopyrrolopyrrole: a new conjugated building block with hexyl or octyl alkyl side chains for electropolymerization studies and its biosensor applications. <i>Polymer Chemistry</i> , 2019, 10, 3722-3739.	3.9	16

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91	Naphthalimide end-capped diphenylacetylene: a versatile organic semiconductor for blue light emitting diodes and a donor or an acceptor for solar cells. <i>New Journal of Chemistry</i> , 2019, 43, 9243-9254.	2.8	15
92	Boosting inverted perovskite solar cell performance by using 9,9-bis(4-diphenylaminophenyl)fluorene functionalized with triphenylamine as a dopant-free hole transporting material. <i>Journal of Materials Chemistry A</i> , 2019, 7, 12507-12517.	10.3	62
93	Indenofluorene-based-copolymers: Influence of electron-deficient benzothiadiazole (BT) and benzooxadiazole (BO) moieties on light emitting devices. <i>Organic Electronics</i> , 2019, 70, 14-24.	2.6	10
94	Photo-assisted Amperometric Acetone Sensing of PVP/WO ₃ Hybrid Nanofibers. , 2019, , .		1
95	Application of A Novel, Non-Doped, Organic Hole-Transport Layer into Single-Walled Carbon Nanotube/Silicon Heterojunction Solar Cells. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4721.	2.5	3
96	Advanced liquid biopsy technologies for circulating biomarker detection. <i>Journal of Materials Chemistry B</i> , 2019, 7, 6670-6704.	5.8	118
97	Organic Transistor Based on Cyclopentadithiophene- <i>Ben</i> zothiadiazole Donor- <i>Acceptor</i> Copolymer for the Detection and Discrimination between Multiple Structural Isomers. <i>Advanced Functional Materials</i> , 2019, 29, 1808188.	14.9	20
98	Organic field effect transistors (OFETs) in environmental sensing and health monitoring: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 111, 27-36.	11.4	84
99	Dopant-free novel hole-transporting materials based on quinacridone dye for high-performance and humidity-stable mesoporous perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2019, 7, 5315-5323.	10.3	70
100	Molecular Engineering Using an Anthanthrone Dye for Low-Cost Hole Transport Materials: A Strategy for Dopant-Free, High-Efficiency, and Stable Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2018, 8, 1703007.	19.5	154
101	Naphthalimide end capped anthraquinone based solution-processable n-channel organic semiconductors: effect of alkyl chain engineering on charge transport. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3774-3786.	5.5	30
102	Control of Geminate Recombination by the Material Composition and Processing Conditions in Novel Polymer: Nonfullerene Acceptor Photovoltaic Devices. <i>Journal of Physical Chemistry A</i> , 2018, 122, 1253-1260.	2.5	10
103	A Spectroscopy and Microscopy Study of Parylene-C OFETs for Explosive Sensing. <i>IEEE Sensors Journal</i> , 2018, 18, 1364-1372.	4.7	10
104	Diketopyrrolopyrrole based organic semiconductors with different numbers of thiophene units: symmetry tuning effect on electronic devices. <i>New Journal of Chemistry</i> , 2018, 42, 4017-4028.	2.8	19
105	Experimental and modeling study of low-voltage field-effect transistors fabricated with molecularly aligned copolymer floating films. <i>Flexible and Printed Electronics</i> , 2018, 3, 015006.	2.7	15
106	One step facile synthesis of a novel anthanthrone dye-based, dopant-free hole transporting material for efficient and stable perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 3699-3708.	5.5	61
107	A triphenylamine substituted quinacridone derivative for solution processed organic light emitting diodes. <i>Materials Chemistry and Physics</i> , 2018, 206, 56-63.	4.0	15
108	Vinylene and benzo[1,2,5]thiadiazole: effect of the <i>ï</i> -spacer unit on the properties of bis(2-oxoindolin-3-ylidene)-benzodifuran-dione containing polymers for n-channel organic field-effect transistors. <i>RSC Advances</i> , 2018, 8, 38919-38928.	3.6	2

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109	Acene-based organic semiconductors for organic light-emitting diodes and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018, 6, 9017-9029.	5.5	50
110	Phthalimide and naphthalimide: Effect of end-capping groups on molecular properties and photovoltaic performance of 9-fluorenone based acceptors for organic solar cells. <i>Organic Electronics</i> , 2018, 62, 12-20.	2.6	10
111	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. <i>New Journal of Chemistry</i> , 2018, 42, 12374-12385.	2.8	29
112	Advanced Materials for Use in Soft Self-Healing Devices. <i>Advanced Materials</i> , 2017, 29, 1604973.	21.0	362
113	9-Fluorenone and 9,10-anthraquinone potential fused aromatic building blocks to synthesize electron acceptors for organic solar cells. <i>New Journal of Chemistry</i> , 2017, 41, 2899-2909.	2.8	19
114	Diketopyrrolopyrrole-based polymer:fullerene nanoparticle films with thermally stable morphology for organic photovoltaic applications. <i>MRS Communications</i> , 2017, 7, 67-73.	1.8	11
115	A comparative study of electrochemical, optical properties and electropolymerization behavior of thiophene- and furan-substituted diketopyrrolopyrrole. <i>Journal of Materials Research</i> , 2017, 32, 810-821.	2.6	14
116	Effect of thermal annealing Super Yellow emissive layer on efficiency of OLEDs. <i>Scientific Reports</i> , 2017, 7, 40805.	3.3	54
117	Molecular Engineering Strategy for High Efficiency Fullerene-Free Organic Solar Cells Using Conjugated 1,8-Naphthalimide and Fluorenone Building Blocks. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 16967-16976.	8.0	56
118	Diketopyrrolopyrrole copolymers based chemical sensors for the detection and discrimination of volatile organic compounds. <i>Sensors and Actuators B: Chemical</i> , 2017, 251, 49-56.	7.8	22
119	Investigation of thiophene flanked diketopyrrolopyrrole monomers with straight and branched alkyl chains and their electropolymerization study. <i>Journal of Materials Research</i> , 2017, 32, 2707-2718.	2.6	8
120	An overview on basics of organic and dye sensitized solar cells, their mechanism and recent improvements. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 78, 1262-1287.	16.4	98
121	Application of Hole-Transporting Materials as the Interlayer in Graphene Oxide/Single-Wall Carbon Nanotube Silicon Heterojunction Solar Cells. <i>Australian Journal of Chemistry</i> , 2017, 70, 1202.	0.9	7
122	A new pyrene cored small organic molecule with a flexible alkyl spacer: a potential solution processable blue emitter with bright photoluminescence. <i>New Journal of Chemistry</i> , 2017, 41, 11383-11390.	2.8	9
123	Thienylvinylethienyl and Naphthalene Core Substituted with Triphenylamines Highly Efficient Hole Transporting Materials and Their Comparative Study for Inverted Perovskite Solar Cells. <i>Solar Rrl</i> , 2017, 1, 1700105.	5.8	59
124	Low-Cost Alternative High-Performance Hole-Transport Material for Perovskite Solar Cells and Its Comparative Study with Conventional SPIRO-OMeTAD. <i>Advanced Electronic Materials</i> , 2017, 3, 1700139.	5.1	60
125	Sensors: A Highly Sensitive Diketopyrrolopyrrole-Based Ambipolar Transistor for Selective Detection and Discrimination of Xylene Isomers (Adv. Mater. 21/2016). <i>Advanced Materials</i> , 2016, 28, 4163-4163.	21.0	0
126	Charge Generation and Recombination in Diketopyrrolopyrrole Polymer: Fullerene Bulk Heterojunctions Studied by Transient Absorption and Time-Resolved Microwave Conductivity. <i>Journal of Physical Chemistry C</i> , 2016, 120, 28398-28406.	3.1	6

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127	High-Mobility Ambipolar Organic Thin-Film Transistor Processed From a Nonchlorinated Solvent. ACS Applied Materials & Interfaces, 2016, 8, 24325-24330.	8.0	29
128	A Highly Sensitive Diketopyrrolopyrrole-Based Ambipolar Transistor for Selective Detection and Discrimination of Xylene Isomers. Advanced Materials, 2016, 28, 4012-4018.	21.0	129
129	Controlling aggregation and crystallization of solution processed diketopyrrolopyrrole based polymer for high performance thin film transistors by pre-metered slot die coating process. Organic Electronics, 2016, 36, 113-119.	2.6	20
130	Charge Transport in Deep and Shallow States in a High-Mobility Polymer FET. IEEE Transactions on Electron Devices, 2016, 63, 1254-1259.	3.0	10
131	Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. Journal of Materials Chemistry C, 2016, 4, 1009-1018.	5.5	99
132	OFET based explosive sensors using diketopyrrolopyrrole and metal organic framework composite active channel material. Sensors and Actuators B: Chemical, 2016, 223, 114-122.	7.8	58
133	Charge transport studies in donor-acceptor block copolymer PDPP-TNT and PC71BM based inverted organic photovoltaic devices processed in room conditions. AIP Advances, 2015, 5, .	1.3	11
134	An Electron-Accepting Chromophore Based on Fluorene and Naphthalenediimide Building Blocks for Solution-Processable Bulk Heterojunction Devices. Asian Journal of Organic Chemistry, 2015, 4, 800-807.	2.7	11
135	Conjoint use of Dibenzosilole and Indan-1,3-dione Functionalities to Prepare an Efficient Non-Fullerene Acceptor for Solution-Processable Bulk Heterojunction Solar Cells. Asian Journal of Organic Chemistry, 2015, 4, 1096-1102.	2.7	23
136	Isoindigo-Based Small Molecules with Varied Donor Components for Solution-Processable Organic Field Effect Transistor Devices. Molecules, 2015, 20, 17362-17377.	3.8	8
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