

Prashant Sonar

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

209
papers

7,837
citations

44
h-index

82
g-index

228
ext. papers

9,096
ext. citations

8.1
avg, IF

6.49
L-index

#	Paper	IF	Citations
209	Review Contemporary Progresses in Carbon-Based Electrode Material in Li-S Batteries. <i>Journal of the Electrochemical Society</i> , 2022 , 169, 020530	3.9	5
208	Recent progress and growth in biosensors technology: A critical review. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 ,	6.3	13
207	Surface Treatment of Inorganic CsPbI Nanocrystals with Guanidinium Iodide for Efficient Perovskite Light-Emitting Diodes with High Brightness.. <i>Nano-Micro Letters</i> , 2022 , 14, 69	19.5	4
206	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	2	3
205	Functional Materials Research at Queensland University of Technology Centre for Materials Science. <i>Advanced Materials Technologies</i> , 2022 , 7, 2101574	6.8	
204	Composition and concentration-dependent photoluminescence of nitrogen-doped carbon dots. <i>Advanced Powder Technology</i> , 2022 , 33, 103560	4.6	1
203	Current Trends and Future Perspectives of Nanomaterials in Food Packaging Application. <i>Journal of Nanomaterials</i> , 2022 , 2022, 1-32	3.2	1
202	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	6.2	0
201	Review Carbon Electrodes in Magnesium Sulphur Batteries: Performance Comparison of Electrodes and Future Directions. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 120555	3.9	6
200	Emerging Perovskite Solar Cell Technology: Remedial Actions for the Foremost Challenges (Adv. Energy Mater. 42/2021). <i>Advanced Energy Materials</i> , 2021 , 11, 2170166	21.8	1
199	Electrochemical Impedance Spectroscopy and its Applications in Sensor Development and Measuring Battery Performance. <i>IEEE Sensors Journal</i> , 2021 , 1-1	4	1
198	Organic Electrochemical Transistors for In Vivo Bioelectronics. <i>Advanced Materials</i> , 2021 , 33, e2101874	24	17
197	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,	4.6	1
196	Materials Design and Optimization for Next-Generation Solar Cell and Light-Emitting Technologies. <i>Journal of Physical Chemistry Letters</i> , 2021 , 12, 4638-4657	6.4	5
195	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	9.5	5
194	A SERS quenching method for the sensitive determination of insulin. <i>Drug Testing and Analysis</i> , 2021 , 13, 1048-1053	3.5	1
193	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	27

192	Enhancing the Electrochemical Doping Efficiency in Diketopyrrolopyrrole-Based Polymer for Organic Electrochemical Transistors. <i>Advanced Electronic Materials</i> , 2021 , 7, 2000701	6.4	19
191	Enhanced amperometric acetone sensing using electrospun non-stoichiometric WO ₃ nanofibers. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 671-678	7.1	9
190	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	6.4	11
189	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	3.1	4
188	Tin oxide for optoelectronic, photovoltaic and energy storage devices: a review. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 16621-16684	13	21
187	Isolation and Detection of Exosomes Using Fe ₂ O ₃ Nanoparticles. <i>ACS Applied Nano Materials</i> , 2021 , 4, 1175-1186	5.6	19
186	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	13	8
185	Polyethylene Glycol Coated Magnetic Nanoparticles: Hybrid Nanofluid Formulation, Properties and Drug Delivery Prospects. <i>Nanomaterials</i> , 2021 , 11,	5.4	14
184	Flexible Sensors Based on Organic-Inorganic Hybrid Materials. <i>Advanced Materials Technologies</i> , 2021 , 6, 2000889	6.8	10
183	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	6.8	9
182	p-i-n Structured Semitransparent Perovskite Solar Cells with Solution-Processed Electron Transport Layer. <i>Journal of Electronic Materials</i> , 2021 , 50, 5732-5739	1.9	2
181	Efficient Plastic Recycling and Remolding Circular Economy Using the Technology of Trust-Blockchain. <i>Sustainability</i> , 2021 , 13, 9142	3.6	12
180	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	5.7	5
179	Black Phosphorus-Diketopyrrolopyrrole Polymer Semiconductor Hybrid for Enhanced Charge Transfer and Photodetection. <i>Advanced Photonics Research</i> , 2021 , 2100150	1.9	0
178	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,	4.5	1
177	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	1.7	
176	Antibody coated conductive polymer for the electrochemical immunosensing of Human Cardiac Troponin I in blood plasma. <i>Analytica Chimica Acta</i> , 2021 , 1185, 339082	6.6	2
175	e-MagnetoMethyl IP: a magnetic nanoparticle-mediated immunoprecipitation and electrochemical detection method for global DNA methylation. <i>Analyst, The</i> , 2021 , 146, 3654-3665	5	0

174	Polyoxometalates (POMs): from electroactive clusters to energy materials. <i>Energy and Environmental Science</i> , 2021 , 14, 1652-1700	35.4	46
173	Organic Electrochemical Transistors for In Vivo Bioelectronics (Adv. Mater. 49/2021). <i>Advanced Materials</i> , 2021 , 33, 2170387	24	1
172	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	9
171	Organic field-effect transistor-based flexible sensors. <i>Chemical Society Reviews</i> , 2020 , 49, 3423-3460	58.5	113
170	Potassium Doping to Enhance Green Photoemission of Light-Emitting Diodes Based on CsPbBr ₃ Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2020 , 8, 2000742	8.1	14
169	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	15.6	20
168	Bactericidal Silver Nanoparticles by Atmospheric Pressure Solution Plasma Processing. <i>Nanomaterials</i> , 2020 , 10,	5.4	12
167	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	6.4	11
166	Rapid and selective detection of recombinant human erythropoietin in human blood plasma by a sensitive optical sensor. <i>Analyst, The</i> , 2020 , 145, 5508-5515	5	4
165	Biodegradable Materials and Green Processing for Green Electronics. <i>Advanced Materials</i> , 2020 , 32, e2001491	14.91	71
164	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	8.5	19
163	Carbon dots derived from human hair for ppb level chloroform sensing in water. <i>Sustainable Materials and Technologies</i> , 2020 , 25, e00159	5.3	7
162	Biowaste-Derived, Self-Organized Arrays of High-Performance 2D Carbon Emitters for Organic Light-Emitting Diodes. <i>Advanced Materials</i> , 2020 , 32, e1906176	24	15
161	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	4.3	3
160	Development of Dopant-Free Organic Hole Transporting Materials for Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2020 , 10, 1903326	21.8	111
159	All-Rounder Low-Cost Dopant-Free D-A-D Hole-Transporting Materials for Efficient Indoor and Outdoor Performance of Perovskite Solar Cells. <i>Advanced Electronic Materials</i> , 2020 , 6, 1900884	6.4	35
158	Highly Efficient Microscopic Charge Transport within Crystalline Domains in a Furan-Flanked Diketopyrrolopyrrole-Based Conjugated Copolymer. <i>Advanced Functional Materials</i> , 2020 , 30, 2000389	15.6	5
157	Versatile nature of anthanthrone based polymers as active multifunctional semiconductors for various organic electronic devices. <i>Materials Advances</i> , 2020 , 1, 3428-3438	3.3	3

156	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	3.5	9
155	Small molecular material as an interfacial layer in hybrid inverted structure perovskite solar cells. <i>Materials Science in Semiconductor Processing</i> , 2020 , 108, 104908	4.3	6
154	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	15.6	27
153	Developments of Diketopyrrolopyrrole-Dye-Based Organic Semiconductors for a Wide Range of Applications in Electronics. <i>Advanced Materials</i> , 2020 , 32, e1903882	24	124
152	Recent Progress in the Abatement of Hazardous Pollutants Using Photocatalytic TiO-Based Building Materials. <i>Nanomaterials</i> , 2020 , 10,	5.4	23
151	Pretreatment and fermentation of lignocellulosic biomass: reaction mechanisms and process engineering. <i>Reaction Chemistry and Engineering</i> , 2020 , 5, 2017-2047	4.9	22
150	Solution-Processed Pure Sulfide Cu ₂ (Zn _{0.6} Cd _{0.4})SnS ₄ Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , 2020 , 4, 2000293	7.1	13
149	Elucidation of Thermal Degradation Model for Low and High Density Polyethylene by Statistical Parameters. <i>ChemistrySelect</i> , 2020 , 5, 14153-14160	1.8	2
148	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	3.7	6
147	Reduced Threshold Voltages and Enhanced Mobilities in DiketopyrrolopyrroleDithienothiophene Polymer-Based Organic Transistor by Interface Engineering. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 2000097	1.6	2
146	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	3.3	0
145	A printable thermally activated delayed fluorescence polymer light emitting diode. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 13001-13009	7.1	6
144	Pyrrolo[3,2-]pyrrole-1,4-dione (IsoDPP) End Capped with Napthalimide or Phthalimide: Novel Small Molecular Acceptors for Organic Solar Cells. <i>Molecules</i> , 2020 , 25,	4.8	2
143	Solution-Processed Pure Sulfide Cu ₂ (Zn _{0.6} Cd _{0.4})SnS ₄ Solar Cells with Efficiency 10.8% Using Ultrathin CuO Intermediate Layer. <i>Solar Rrl</i> , 2020 , 4, 2070096	7.1	
142	Green Electronics: Biodegradable Materials and Green Processing for Green Electronics (Adv. Mater. 33/2020). <i>Advanced Materials</i> , 2020 , 32, 2070245	24	2
141	Electrode and dielectric layer interface device engineering study using furan flanked diketopyrrolopyrrole-dithienothiophene polymer based organic transistors. <i>Scientific Reports</i> , 2020 , 10, 19989	4.9	5
140	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	7.1	26
139	Organic interfacial materials for perovskite-based optoelectronic devices. <i>Energy and Environmental Science</i> , 2019 , 12, 1177-1209	35.4	125

138	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	4.9	10
137	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	2.6	8
136	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	13	52
135	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	3.5	6
134	White paper on the future of plasma science and technology in plastics and textiles. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1700228	3.4	51
133	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	3.5	5
132	Dual chemosensor for the rapid detection of mercury(ii) pollution and biothiols. <i>Analyst, The</i> , 2019 , 144, 4908-4916	5	26
131	Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus. <i>Advanced Functional Materials</i> , 2019 , 29, 1901991	15.6	50
130	Photo-Cross-Linkable Polymer Inks for Solution-Based OLED Fabrication. <i>Macromolecules</i> , 2019 , 52, 9105-9113	5.3	13
129	Optoelectronics: Multifunctional Optoelectronics via Harnessing Defects in Layered Black Phosphorus (Adv. Funct. Mater. 39/2019). <i>Advanced Functional Materials</i> , 2019 , 29, 1970272	15.6	1
128	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	13.3	55
127	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	2.6	3
126	Advanced liquid biopsy technologies for circulating biomarker detection. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 6670-6704	7.3	74
125	Organic Transistor Based on Cyclopentadithiophene-Benzothiadiazole Donor-Acceptor Copolymer for the Detection and Discrimination between Multiple Structural Isomers. <i>Advanced Functional Materials</i> , 2019 , 29, 1808188	15.6	12
124	Organic field effect transistors (OFETs) in environmental sensing and health monitoring: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2019 , 111, 27-36	14.6	52
123	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	21.8	115
122	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	7.1	24
121	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	2.8	9

120	. <i>IEEE Sensors Journal</i> , 2018 , 18, 1364-1372	4	9
119	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	3.6	18
118	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	3.1	11
117	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	7.1	48
116	Acene-based organic semiconductors for organic light-emitting diodes and perovskite solar cells. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 9017-9029	7.1	41
115	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	3.5	5
114	Naphthalene flanked diketopyrrolopyrrole based organic semiconductors for high performance organic field effect transistors. <i>New Journal of Chemistry</i> , 2018 , 42, 12374-12385	3.6	20
113	A triphenylamine substituted quinacridone derivative for solution processed organic light emitting diodes. <i>Materials Chemistry and Physics</i> , 2018 , 206, 56-63	4.4	12
112	Vinylene and benzo[[1,2,5]thiadiazole: effect of the 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	3.7	2
111	Advanced Materials for Use in Soft Self-Healing Devices. <i>Advanced Materials</i> , 2017 , 29, 1604973	24	265
110	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	3.6	17
109	Diketopyrrolopyrrole-based polymer:fullerene nanoparticle films with thermally stable morphology for organic photovoltaic applications. <i>MRS Communications</i> , 2017 , 7, 67-73	2.7	10
108	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	2.5	10
107	Effect of thermal annealing Super Yellow emissive layer on efficiency of OLEDs. <i>Scientific Reports</i> , 2017 , 7, 40805	4.9	39
106	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	9.5	38
105	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	8.5	19
104	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	2.5	6
103	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	16.2	66

102	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	1.2	6
101	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	3.6	9
100	Thienylvinyleneethienyl 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	7.1	49
99	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	6.4	43
98	A Highly Sensitive Diketopyrrolopyrrole-Based Ambipolar Transistor for Selective Detection and Discrimination of Xylene Isomers. <i>Advanced Materials</i> , 2016 , 28, 4012-8	24	112
97	Controlling aggregation and crystallization of solution processed diketopyrrolopyrrole based polymer for high performance thin film transistors by pre-metered slot die coating process. <i>Organic Electronics</i> , 2016 , 36, 113-119	3.5	15
96	Charge Transport in Deep and Shallow States in a High-Mobility Polymer FET. <i>IEEE Transactions on Electron Devices</i> , 2016 , 63, 1254-1259	2.9	8
95	Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices. <i>Journal of Materials Chemistry C</i> , 2016 , 4, 1009-1018	7.1	78
94	OFET based explosive sensors using diketopyrrolopyrrole and metal organic framework composite active channel material. <i>Sensors and Actuators B: Chemical</i> , 2016 , 223, 114-122	8.5	47
93	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	24	
92	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	3.8	6
91	High-Mobility Ambipolar Organic Thin-Film Transistor Processed From a Nonchlorinated Solvent. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 24325-30	9.5	22
90	Optical Characterization of the Hole Polaron in a Series of Diketopyrrolopyrrole Polymers Used for Organic Photovoltaics. <i>Polymers</i> , 2015 , 7, 69-90	4.5	6
89	Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends. <i>Scientific Reports</i> , 2015 , 5, 10683	4.9	38
88	Hole mobility of 3.56 cm ² V ⁻¹ s ⁻¹ accomplished using more extended dithienothiophene with furan flanked diketopyrrolopyrrole polymer. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 9299-9305	7.1	37
87	Crowning of dibenzosilole with a naphthalenediimide functional group to prepare an electron acceptor for organic solar cells. <i>Dyes and Pigments</i> , 2015 , 120, 314-321	4.6	12
86	Reversible conversion of dominant polarity in ambipolar polymer/graphene oxide hybrids. <i>Scientific Reports</i> , 2015 , 5, 9446	4.9	15
85	Time-independent charge carrier mobility in a model polymer:fullerene organic solar cell. <i>Organic Electronics</i> , 2015 , 16, 205-211	3.5	10

84	Charge transport studies in donor-acceptor block copolymer PDPP-TNT and PC71BM based inverted organic photovoltaic devices processed in room conditions. <i>AIP Advances</i> , 2015 , 5, 077177	1.5	8
83	An Electron-Accepting Chromophore Based on Fluorene and Naphthalenediimide Building Blocks for Solution-Processable Bulk Heterojunction Devices. <i>Asian Journal of Organic Chemistry</i> , 2015 , 4, 800-807	3.7	11
82	Conjoint use of Dibenzosilole and Indan-1,3-dione Functionalities to Prepare an Efficient Non-Fullerene Acceptor for Solution-Processable Bulk-Heterojunction Solar Cells. <i>Asian Journal of Organic Chemistry</i> , 2015 , 4, 1096-1102	3	21
81	Isoindigo-Based Small Molecules with Varied Donor Components for Solution-Processable Organic Field Effect Transistor Devices. <i>Molecules</i> , 2015 , 20, 17362-77	4.8	6
80	Significant Improvement of Optoelectronic and Photovoltaic Properties by Incorporating Thiophene in a Solution-Processable D-A-D Modular Chromophore. <i>Molecules</i> , 2015 , 20, 21787-801	4.8	5
79	Defect analysis of sputter grown cupric oxide for optical and electronics application. <i>Journal Physics D: Applied Physics</i> , 2015 , 48, 495104	3	17
78	Thiophene-tetrafluorophenylthiophene: a promising building block for ambipolar organic field effect transistors. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 2080-2085	7.1	27
77	Surface engineering of reduced graphene oxide for controllable ambipolar flash memories. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 1699-708	9.5	27
76	Synthesis of diketopyrrolopyrrole based copolymers via the direct arylation method for p-channel and ambipolar OFETs. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 4275-83	3.6	41
75	Water-based nanoparticulate solar cells using a diketopyrrolopyrrole donor polymer. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 2647-53	3.6	22
74	Improved performance in diketopyrrolopyrrole-based transistors with bilayer gate dielectrics. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 3170-5	9.5	28
73	A non-fullerene electron acceptor based on fluorene and diketopyrrolopyrrole building blocks for solution-processable organic solar cells with an impressive open-circuit voltage. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23837-42	3.6	56
72	Pyrene based conjugated materials: synthesis, characterization and electroluminescent properties. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 23320-8	3.6	24
71	Excited-state dynamics in diketopyrrolopyrrole-based copolymer for organic photovoltaics investigated by transient optical spectroscopy. <i>Japanese Journal of Applied Physics</i> , 2014 , 53, 01AB11	1.4	4
70	Density of trap states in a polymer field-effect transistor. <i>Applied Physics Letters</i> , 2014 , 105, 133302	3.4	9
69	A Study of Diphenylfumaronitrile and Furan-Substituted Diketopyrrolopyrrole Alternating Copolymer and Its Thin-Film Transistors. <i>Macromolecular Chemistry and Physics</i> , 2014 , 215, 725-732	2.6	13
68	Logic-gate devices based on printed polymer semiconducting nanostripes. <i>Nano Letters</i> , 2013 , 13, 3643-71.5	7.1	35
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