



## Prashant Sonar

Associate Professor & ARC Future  
Fellow, Organic and Printed Electronic  
Research Group @  
QUT

Organic and Flexible Electronics  
Organic Field Effect Transistors  
Organic Photovoltaics  
Organic Light Emitting Diodes  
Sensor

### GET MY OWN PROFILE

	All	Since 2013
Citations	4927	3896
h-index	34	30
i10-index	70	63

TITLE	CITED BY	YEAR
<a href="#">A High Mobility P-Type DPP-Thieno [3, 2-b] thiophene Copolymer for Organic Thin-Film Transistors</a> Y Li, SP Singh, P Sonar Advanced Materials 22 (43), 4862-4866	424	2010
<a href="#">High mobility diketopyrrolopyrrole (DPP)-based organic semiconductor materials for organic thin film transistors and photovoltaics</a> Y Li, P Sonar, L Murphy, W Hong Energy & Environmental Science 6 (6), 1684-1710	395	2013
<a href="#">A Low-Bandgap Diketopyrrolopyrrole-Benzothiadiazole-Based Copolymer for High-Mobility Ambipolar Organic Thin-Film Transistors</a> P Sonar, SP Singh, Y Li, MS Soh, A Dodabalapur Advanced materials 22 (47), 5409-5413	341	2010
<a href="#">Annealing-Free High-Mobility Diketopyrrolopyrrole- Quaterthiophene Copolymer for Solution-Processed Organic Thin Film Transistors</a> Y Li, P Sonar, SP Singh, MS Soh, M van Meurs, J Tan Journal of the American Chemical Society 133 (7), 2198-2204	326	2011
<a href="#">Organic non-fullerene acceptors for organic photovoltaics</a> P Sonar, JPF Lim, KL Chan Energy & Environmental Science 4 (5), 1558-1574	324	2011
<a href="#">Improved hydrophilicity, permeability, antifouling and mechanical performance of PVDF composite ultrafiltration membranes tailored by oxidized low-dimensional ca...</a> J Zhang, Z Xu, W Mai, C Min, B Zhou, M Shan, Y Li, C Yang, Z Wang, ... Journal of Materials Chemistry A 1 (9), 3101-3111	245 *	2013
<a href="#">Solution processable low bandgap diketopyrrolopyrrole (DPP) based derivatives: novel acceptors for organic solar cells</a> P Sonar, GM Ng, TT Lin, A Dodabalapur, ZK Chen Journal of Materials Chemistry 20 (18), 3626-3636	228	2010
<a href="#">High mobility organic thin film transistor and efficient photovoltaic devices using versatile donor-acceptor polymer semiconductor by molecular design</a>	155	2011

- P Sonar, SP Singh, Y Li, ZE Ooi, T Ha, I Wong, MS Soh, A Dodabalapur  
Energy & Environmental Science 4 (6), 2288-2296
- [3, 6-Di \(furan-2-yl\) pyrrolo \[3, 4-c\] pyrrole-1, 4 \(2H, 5H\)-dione and bithiophene copolymer with rather disordered chain orientation showing high mobility in organic thi...](#) 124 2011  
Y Li, P Sonar, SP Singh, W Zeng, MS Soh  
Journal of Materials Chemistry 21 (29), 10829-10835
- [Field-effect transistors based on self-organized molecular nanostripes](#) 119 2005  
M Cavallini, P Stoliar, JF Moulin, M Surin, P Leclère, R Lazzaroni, ...  
Nano letters 5 (12), 2422-2425
- [Cubic silsesquioxanes for use in solution processable organic light emitting diodes \(OLED\)](#) 97 2009  
KL Chan, P Sonar, A Sellinger  
Journal of Materials Chemistry 19 (48), 9103-9120
- [Furan containing diketopyrrolopyrrole copolymers: synthesis, characterization, organic field effect transistor performance and photovoltaic properties](#) 90 2012  
P Sonar, SP Singh, EL Williams, Y Li, MS Soh, A Dodabalapur  
Journal of Materials Chemistry 22 (10), 4425-4435
- [Electron-accepting conjugated materials based on 2-vinyl-4, 5-dicyanoimidazoles for application in organic electronics](#) 84 2009  
RYC Shin, P Sonar, PS Siew, ZK Chen, A Sellinger  
The Journal of organic chemistry 74 (9), 3293-3298
- [Synthesis, characterization and comparative study of thiophene–benzothiadiazole based donor–acceptor–donor \(D–A–D\) materials](#) 81 2009  
P Sonar, SP Singh, P Leclere, M Surin, R Lazzaroni, TT Lin, ...  
Journal of Materials Chemistry 19 (20), 3228-3237
- [High-mobility organic thin film transistors based on benzothiadiazole-sandwiched dihexylquaterthiophenes](#) 81 2008  
P Sonar, SP Singh, S Sudhakar, A Dodabalapur, A Sellinger  
Chemistry of Materials 20 (9), 3184-3190
- [1, 3, 6, 8-Tetrasubstituted pyrenes: solution-processable materials for application in organic electronics](#) 77 2010  
P Sonar, MS Soh, YH Cheng, JT Henssler, A Sellinger  
Organic Letters 12 (15), 3292-3295
- [Nonvolatile multilevel data storage memory device from controlled ambipolar charge trapping mechanism](#) 72 2013  
Y Zhou, ST Han, P Sonar, VAL Roy  
Scientific reports 3, 2319
- [A furan-containing conjugated polymer for high mobility ambipolar organic thin film transistors](#) 65 2012  
P Sonar, TRB Foong, SP Singh, Y Li, A Dodabalapur  
Chemical Communications 48 (67), 8383-8385

- Solid-state assemblies and optical properties of conjugated oligomers combining fluorene and thiophene units** 55 2007  
M Surin, P Sonar, AC Grimsdale, K Müllen, S De Feyter, S Habuchi, ...  
Journal of Materials Chemistry 17 (8), 728-735
- 4-Hexylbithieno [3, 2-b: 2' 3' -e] pyridine: An Efficient Electron-Accepting Unit in Fluorene and Indenofluorene Copolymers for Light-Emitting Devices** 55 2004  
P Sonar, J Zhang, AC Grimsdale, K Müllen, M Surin, R Lazzaroni, ...  
Macromolecules 37 (3), 709-715
- Rodlike bimetallic ruthenium and osmium complexes bridged by phenylene spacers. Synthesis, electrochemistry, and photophysics** 50 2005  
S Welter, N Salluce, A Benetti, N Rot, P Belser, P Sonar, AC Grimsdale, ...  
Inorganic chemistry 44 (13), 4706-4718
- Photophysical Characterization of Light-Emitting Poly (indenofluorene) s** 47 2005  
PE Keivanidis, J Jacob, L Oldridge, P Sonar, B Carbonnier, S Balushev, ...  
ChemPhysChem 6 (8), 1650-1660
- A non-fullerene electron acceptor based on fluorene and diketopyrrolopyrrole building blocks for solution-processable organic solar cells with an impressive open-ci...** 45 2014  
H Patil, WX Zu, A Gupta, V Chellappan, A Bilic, P Sonar, A Rananaware, ...  
Physical Chemistry Chemical Physics 16 (43), 23837-23842
- One-Step Macroscopic Alignment of Conjugated Polymer Systems by Epitaxial Crystallization during Spin-Coating** 44 2013  
C Müller, M Aghamohammadi, S Himmelberger, P Sonar, M Garriga, ...  
Advanced Functional Materials 23 (19), 2368-2377
- Poly (2, 5-bis (2-octyldodecyl)-3, 6-di (furan-2-yl)-2, 5-dihydro-pyrrolo [3, 4-c] pyrrole-1, 4-dione-co-thieno [3, 2-b] thiophene): a high performance polymer semicond...** 44 2012  
Y Li, P Sonar, SP Singh, ZE Ooi, ESH Lek, MQY Loh  
Physical Chemistry Chemical Physics 14 (19), 7162-7169
- Design and modification of three-component randomly incorporated copolymers for high performance organic photovoltaic applications** 43 2013  
J Li, KH Ong, P Sonar, SL Lim, GM Ng, HK Wong, HS Tan, ZK Chen  
Polymer Chemistry 4 (3), 804-811
- Supramolecular Organization in Fluorene/Indenofluorene–Oligothiophene Alternating Conjugated Copolymers** 40 2005  
M Surin, P Sonar, AC Grimsdale, K Müllen, R Lazzaroni, P Leclère  
Advanced Functional Materials 15 (9), 1426-1434
- 3D-Hybrid Networks with Controllable Electrical Conductivity from the Electrochemical Deposition of Terthiophene-Functionalized Polyphenylene Dendrimers** 40 2005  
H John, R Bauer, P Espindola, P Sonar, J Heinze, K Müllen  
Angewandte Chemie International Edition 44 (16), 2447-2451

- A highly sensitive diketopyrrolopyrrole-based ambipolar transistor for selective detection and discrimination of xylene isomers** 38 2016  
B Wang, TP Huynh, W Wu, N Hayek, TT Do, JC Cancilla, JS Torrecilla, ...  
Advanced Materials 28 (21), 4012-4018
- Charge transport and density of trap states in balanced high mobility ambipolar organic thin-film transistors** 38 2012  
TJ Ha, P Sonar, B Cobb, A Dodabalapur  
Organic Electronics 13 (1), 136-141
- Furan substituted diketopyrrolopyrrole and thienylenevinylene based low band gap copolymer for high mobility organic thin film transistors** 37 2012  
P Sonar, JM Zhuo, LH Zhao, KM Lim, J Chen, AJ Rondinone, SP Singh, ...  
Journal of Materials Chemistry 22 (33), 17284-17292
- High mobility top-gate and dual-gate polymer thin-film transistors based on diketopyrrolopyrrole-naphthalene copolymer** 36 2011  
TJ Ha, P Sonar, A Dodabalapur  
Applied Physics Letters 98 (25), 118
- Advanced Materials for Use in Soft Self-Healing Devices** 35 2017  
TP Huynh, P Sonar, H Haick  
Advanced Materials 29 (19)
- Synthesis of diketopyrrolopyrrole based copolymers via the direct arylation method for p-channel and ambipolar OFETs** 34 2014  
P Sonar, TRB Foong, A Dodabalapur  
Physical Chemistry Chemical Physics 16 (9), 4275-4283
- Isoindigo dye incorporated copolymers with naphthalene and anthracene: promising materials for stable organic field effect transistors** 34 2013  
P Sonar, HS Tan, S Sun, YM Lam, A Dodabalapur  
Polymer Chemistry 4 (6), 1983-1994
- Thiophene–benzothiadiazole–thiophene (D–A–D) based polymers: effect of donor/acceptor moieties adjacent to D–A–D segment on photophysical and photovoltaic...** 34 2011  
P Sonar, EL Williams, SP Singh, A Dodabalapur  
Journal of Materials Chemistry 21 (28), 10532-10541
- Charge transport study of high mobility polymer thin-film transistors based on thiophene substituted diketopyrrolopyrrole copolymers** 33 2013  
TJ Ha, P Sonar, A Dodabalapur  
Physical chemistry chemical physics 15 (24), 9735-9741
- Comparative behavior of CdS and CdSe quantum dots in poly (3-hexylthiophene) based nanocomposites** 33 2006  
P Sonar, KP Sreenivasan, T Maddanimath, K Vijayamohanan  
Materials research bulletin 41 (1), 198-208
- A benzothiadiazole end capped donor–acceptor based small molecule for organic electronics** 32 2013

P Sonar, EL Williams, SP Singh, S Manzhos, A Dodabalapur  
Physical Chemistry Chemical Physics 15 (40), 17064-17069

**Phenothiazine and carbazole substituted pyrene based electroluminescent organic semiconductors for OLED devices** 30 2016

JK Salunke, FL Wong, K Feron, S Manzhos, MF Lo, D Shinde, A Patil, ...  
Journal of Materials Chemistry C 4 (5), 1009-1018

**Relation between charge carrier mobility and lifetime in organic photovoltaics** 30 2013

C Vijila, SP Singh, E Williams, P Sonar, A Pivrikas, B Philippa, R White, ...  
Journal of Applied Physics 114 (18), 184503

**Solution processable poly (2, 5-dialkyl-2, 5-dihydro-3, 6-di-2-thienyl-pyrrolo [3, 4-c] pyrrole-1, 4-dione) for ambipolar organic thin film transistors** 29 2012

Y Li, B Sun, P Sonar, SP Singh  
Organic Electronics 13 (9), 1606-1613

**Synthesis, thin-film morphology, and comparative study of bulk and bilayer heterojunction organic photovoltaic devices using soluble diketopyrrolopyrrole molecules** 28 2011

W Kylberg, P Sonar, J Heier, JN Tisserant, C Müller, F Nüesch, ZK Chen, ...  
Energy & Environmental Science 4 (9), 3617-3624

**Recent progress in fluorescent blue light-emitting materials** 26 2010

Z Ma, P Sonar, ZK Chen  
Current Organic Chemistry 14 (18), 2034-2069

**Logic-gate devices based on printed polymer semiconducting nanostripes** 25 2013

D Gentili, P Sonar, F Liscio, T Cramer, L Ferlauto, F Leonardi, S Milita, ...  
Nano letters 13 (8), 3643-3647

**Ultra-flexible nonvolatile memory based on donor-acceptor diketopyrrolopyrrole polymer blends** 24 2015

Y Zhou, ST Han, Y Yan, L Zhou, LB Huang, J Zhuang, P Sonar, VAL Roy  
Scientific reports 5, 10683

**Thiophene-based dendronized macromonomers and polymers** 22 2007

P Sonar, H Benmansour, T Geiger, AD Schlüter  
Polymer 48 (17), 4996-5004

**A fluorenone based low band gap solution processable copolymer for air stable and high mobility organic field effect transistors** 21 2013

P Sonar, TJ Ha, A Dodabalapur  
Chemical Communications 49 (16), 1588-1590

**ZnO layers for opto-electronic applications from solution-based and low-temperature processing of an organometallic precursor** 20 2012

TRB Foong, SP Singh, P Sonar, ZE Ooi, KL Chan, A Dodabalapur  
Journal of Materials Chemistry 22 (39), 20896-20901

<b>Surface engineering of reduced graphene oxide for controllable ambipolar flash memories</b> ST Han, Y Zhou, P Sonar, H Wei, L Zhou, Y Yan, CS Lee, VAL Roy ACS applied materials & interfaces 7 (3), 1699-1708	18	2015
<b>Hole mobility of 3.56 cm<sup>2</sup> V<sup>-1</sup> s<sup>-1</sup> accomplished using more extended dithienothiophene with furan flanked diketopyrrolopyrrole polymer</b> P Sonar, J Chang, Z Shi, E Gann, J Li, J Wu, CR McNeill Journal of Materials Chemistry C 3 (36), 9299-9305	18	2015
<b>Improved performance in diketopyrrolopyrrole-based transistors with bilayer gate dielectrics</b> TJ Ha, P Sonar, A Dodabalapur ACS applied materials & interfaces 6 (5), 3170-3175	18	2014
<b>Water-based nanoparticulate solar cells using a diketopyrrolopyrrole donor polymer</b> B Vaughan, EL Williams, NP Holmes, P Sonar, A Dodabalapur, ... Physical Chemistry Chemical Physics 16 (6), 2647-2653	18	2014
<b>Conjoint use of Dibenzosilole and Indan-1, 3-dione Functionalities to Prepare an Efficient Non-Fullerene Acceptor for Solution-Processable Bulk-Heterojunction S...</b> H Patil, A Gupta, B Alford, D Ma, SH Privér, A Bilic, P Sonar, SV Bhosale Asian Journal of Organic Chemistry 4 (10), 1096-1102	17	2015
<b>Nanomorphology influence on the light conversion mechanisms in highly efficient diketopyrrolopyrrole based organic solar cells</b> J Ajuria, S Chavhan, R Tena-Zaera, J Chen, AJ Rondinone, P Sonar, ... Organic Electronics 14 (1), 326-334	17	2013
<b>Synthesis and study of conductivity behaviour of blended conducting polymer films irradiated with swift heavy ions of silicon</b> P Sonar, AL Sharma, A Chandra, K Muellen, A Srivastava Current Applied Physics 3 (2-3), 247-250	16	2003
<b>An overview on basics of organic and dye sensitized solar cells, their mechanism and recent improvements</b> PP Kumavat, P Sonar, DS Dalal Renewable and Sustainable Energy Reviews 78, 1262-1287	15	2017
<b>OFET based explosive sensors using diketopyrrolopyrrole and metal organic framework composite active channel material</b> SG Surya, SS Nagarkar, SK Ghosh, P Sonar, VR Rao Sensors and Actuators B: Chemical 223, 114-122	15	2016
<b>Nanoscale phase domain structure and associated device performance of organic solar cells based on a diketopyrrolopyrrole polymer</b> EL Williams, S Gorelik, IY Phang, M Bosman, C Vijila, GS Subramanian, ... RSC Advances 3 (43), 20113-20124	15	2013
<b>A study of the effects metal residues in poly (9, 9-dioctylfluorene) have</b>	15	2007



**on field-effect transistor device characteristics**

P Sonar, AC Grimsdale, M Heeney, M Shkunov, I McCulloch, K Müllen  
 Synthetic Metals 157 (21), 872-875

**Pyrene based conjugated materials: synthesis, characterization and electroluminescent properties**

JK Salunke, P Sonar, FL Wong, VAL Roy, CS Lee, PP Wadgaonkar  
 Physical Chemistry Chemical Physics 16 (42), 23320-23328

**Impact of Al Passivation and cosputter on the structural property of  $\beta$ -FeSi<sub>2</sub> for Al-Doped  $\beta$ -FeSi<sub>2</sub>/n-Si (100) based solar cells application**

GK Dalapati, A Kumar, CC Tan, SL Liew, P Sonar, HL Seng, HK Hui, ...  
 ACS applied materials & interfaces 5 (12), 5455-5460

**Thiophene–tetrafluorophenyl–thiophene: a promising building block for ambipolar organic field effect transistors**

P Sonar, J Chang, Z Shi, J Wu, J Li  
 Journal of Materials Chemistry C 3 (9), 2080-2085

**A study of diphenylfumaronitrile and furan-substituted diketopyrrolopyrrole alternating copolymer and its thin-film transistors**

P Sonar, TJ Ha, Y Seong, SC Yeh, CT Chen, S Manzhos, A Dodabalapur  
 Macromolecular Chemistry and Physics 215 (8), 725-732

**Charge carrier velocity distributions in high mobility polymer field-effect transistors**

TJ Ha, P Sonar, A Dodabalapur  
 Applied Physics Letters 100 (15), 89

**Polymer-mediated synthesis of  $\gamma$ -Fe<sub>2</sub>O<sub>3</sub> nano-particles**

S Radhakrishnan, C Saujanya, P Sonar, IK Gopalkrishnan, JV Yakhmi  
 Polyhedron 20 (11-14), 1489-1494

**Characteristics of high-performance ambipolar organic field-effect transistors based on a diketopyrrolopyrrole-benzothiadiazole copolymer**

TJ Ha, P Sonar, SP Singh, A Dodabalapur  
 IEEE Transactions on electron devices 59 (5), 1494-1500

**Synthesis, characterization and comparative OFET behaviour of indenofluorene–bithiophene and terthiophene alternating copolymers**

P Sonar, L Oldridge, AC Grimsdale, K Müllen, M Surin, R Lazzaroni, ...  
 Synthetic Metals 160 (5-6), 468-474

**Ambipolar polymeric semiconductor materials and organic electronic devices**

P Sonar, SP Singh, MS Soh, Y Li  
 US Patent 8,624,232

**Ambipolar polymeric semiconductor materials and organic electronic devices**

P Sonar, SP Singh, MS Soh, Y Li  
 US Patent 8,624,232

<b>Ambipolar polymeric semiconductor materials and organic electronic devices</b> P Sonar, SP Singh, MS Soh, Y Li US Patent 8,624,232	11	2014
<b>Defect analysis of sputter grown cupric oxide for optical and electronics application</b> GK Dalapati, RS Kajen, S Masudy-Panah, P Sonar Journal of Physics D: Applied Physics 48 (49), 495104	10	2015
<b>Effect of thermal annealing Super Yellow emissive layer on efficiency of OLEDs</b> S Burns, J MacLeod, TT Do, P Sonar, SD Yambem Scientific reports 7, 40805	9	2017
<b>P-type materials and organic electronic devices</b> Z Chen, J Li, B Ong, P Sonar, KH Ong, GM Ng, SL Lim, SP Singh, Y Li US Patent 9,166,167	9	2015
<b>P-type materials and organic electronic devices</b> Z Chen, J Li, B Ong, P Sonar, KH Ong, GM Ng, SL Lim, SP Singh, Y Li US Patent 9,166,167	9	2015
<b>P-type materials and organic electronic devices</b> Z Chen, J Li, B Ong, P Sonar, KH Ong, GM Ng, SL Lim, SP Singh, Y Li US Patent 9,166,167	9	2015
<b>Crowning of dibenzosilole with a naphthalenediimide functional group to prepare an electron acceptor for organic solar cells</b> A Gupta, RV Hangarge, X Wang, B Alford, V Chellapan, LA Jones, ... Dyes and Pigments 120, 314-321	9	2015
<b>Time-independent charge carrier mobility in a model polymer: fullerene organic solar cell</b> B Philippa, C Vijila, RD White, P Sonar, PL Burn, P Meredith, A Pivrikas Organic Electronics 16, 205-211	9	2015
<b>Electrical characteristics of lateral heterostructure organic field-effect bipolar transistors</b> SP Singh, P Sonar, A Sellinger, A Dodabalapur Applied Physics Letters 94 (1), 8	9	2009
<b>Synthesis, characterization and organic field effect transistor performance of a diketopyrrolopyrrole–fluorenone copolymer</b> P Sonar, TJ Ha, A Dodabalapur Physical Chemistry Chemical Physics 15 (20), 7475-7478	8	2013
<b>Iron (II) Spin-Transition Complexes with Dendritic Ligands, Part II</b> YL Wei, P Sonar, M Grunert, J Kusz, AD Schlüter, P Gütllich European journal of inorganic chemistry 2010 (25), 3930-3941	8	2010
<b>Iron (II) spin transition complexes with dendritic ligands, part I</b> P Sonar, CM Grunert, YL Wei, J Kusz, P Gütllich, AD Schlüter	8	2008



European journal of inorganic chemistry 2008 (10), 1613-1622

**Thienylvinyleneethienyl and Naphthalene Core Substituted with Triphenylamines—Highly Efficient Hole Transporting Materials and Their Comparative Study for Inver...** 7 2017

HD Pham, H Hu, K Feron, S Manzhos, H Wang, YM Lam, P Sonar  
Solar RRL 1 (8)

**Band gap tunable N-type molecules for organic field effect transistors** 7 2013

H Glowatzki, P Sonar, SP Singh, AM Mak, MB Sullivan, W Chen, ATS Wee, ...  
The Journal of Physical Chemistry C 117 (22), 11530-11539

**Pyridine-incorporated dihexylquaterthiophene: a novel blue emitter for organic light emitting diodes (OLEDs)** 7 2012

P Sonar, SG Santamaria, TT Lin, A Sellinger, H Bolink  
Australian Journal of Chemistry 65 (9), 1244-1251

**3D-Hybridnetzwerke aus terthiophenfunktionalisierten Polyphenylendendrimeren mit einstellbarer elektrischer Leitfähigkeit** 7 2005

H John, R Bauer, P Espindola, P Sonar, J Heinze, K Müllen  
Angewandte Chemie 117 (16), 2501-2505

**High-mobility ambipolar organic thin-film transistor processed from a nonchlorinated solvent** 6 2016

P Sonar, J Chang, JH Kim, KH Ong, E Gann, S Manzhos, J Wu, ...  
ACS applied materials & interfaces 8 (37), 24325-24330

**Density of trap states in a polymer field-effect transistor** 6 2014

S Kim, TJ Ha, P Sonar, A Dodabalapur  
Applied Physics Letters 105 (13), 153\_1

**Solution-processed dual-gate polymer field-effect transistors for display applications** 6 2013

TJ Ha, P Sonar, A Dodabalapur  
Journal of Display Technology 9 (9), 710-715

**Low-Cost Alternative High-Performance Hole-Transport Material for Perovskite Solar Cells and Its Comparative Study with Conventional SPIRO-OMeTAD** 5 2017

HD Pham, Z Wu, LK Ono, S Manzhos, K Feron, N Motta, Y Qi, P Sonar  
Advanced Electronic Materials 3 (8)

**Molecular Engineering Strategy for High Efficiency Fullerene-Free Organic Solar Cells Using Conjugated 1, 8-Naphthalimide and Fluorenone Building Blocks** 5 2017

TT Do, HD Pham, S Manzhos, JM Bell, P Sonar  
ACS applied materials & interfaces 9 (20), 16967-16976

**9-Fluorenone and 9, 10-anthraquinone potential fused aromatic building blocks to synthesize electron acceptors for organic solar cells** 5 2017

TT Do, K Rundel, Q Gu, E Gann, S Manzhos, K Feron, J Bell, CR McNeill, ...  
New Journal of Chemistry 41 (8), 2899-2909

- Controlling aggregation and crystallization of solution processed diketopyrrolopyrrole based polymer for high performance thin film transistors by pre-metered slot di...** 5 2016  
J Chang, P Sonar, Z Lin, C Zhang, J Zhang, Y Hao, J Wu  
Organic Electronics 36, 113-119
- Charge-carrier velocity distributions in high-mobility polymer dual-gate thin-film transistors** 5 2012  
TJ Ha, P Sonar, A Dodabalapur  
IEEE Electron Device Letters 33 (6), 899-901
- Significant improvement of optoelectronic and photovoltaic properties by incorporating thiophene in a solution-processable D–A–D modular chromophore** 4 2015  
AM Raynor, A Gupta, CM Plummer, SL Jackson, A Bilic, H Patil, P Sonar, ...  
Molecules 20 (12), 21787-21801
- Reversible conversion of dominant polarity in ambipolar polymer/graphene oxide hybrids** 4 2015  
Y Zhou, ST Han, P Sonar, X Ma, J Chen, Z Zheng, VAL Roy  
Scientific reports 5, 9446
- Optical characterization of the hole polaron in a series of diketopyrrolopyrrole polymers used for organic photovoltaics** 4 2014  
EL Williams, TS Ang, Z Ooi, P Sonar, TT Lin, WT Neo, J Song, J Hobley  
Polymers 7 (1), 69-90
- Excited-state dynamics in diketopyrrolopyrrole-based copolymer for organic photovoltaics investigated by transient optical spectroscopy** 4 2013  
H Matsuzaki, A Furube, R Katoh, SP Singh, P Sonar, EL Williams, C Vijila, ...  
Japanese Journal of Applied Physics 53 (1S), 01AB11
- A comparative study of electrochemical, optical properties and electropolymerization behavior of thiophene-and furan-substituted diketopyrrolopyrrole** 3 2017  
SP Ponnappa, S Arumugam, HJ Spratt, S Manzhos, AP O'Mullane, ...  
Journal of Materials Research 32 (4), 810-821
- An Electron-Accepting Chromophore Based on Fluorene and Naphthalenediimide Building Blocks for Solution-Processable Bulk Heterojunction Devices** 3 2015  
A Gupta, X Wang, D Srivani, B Alford, V Chellappan, A Bilic, H Patil, ...  
Asian Journal of Organic Chemistry 4 (8), 800-807