

Fernando Langa

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.

449
papers

9,936
citations

48
h-index

68
g-index

473
ext. papers

10,713
ext. citations

5.3
avg, IF

6.33
L-index

#	Paper	IF	Citations
449	New medium bandgap donor D-A -D-A type Copolymers Based on Anthra[1,2-b:4,3-b':6,7-c''] Trithiophene-8,12-dione Groups for High -Efficient non -fullerene Polymer Solar Cells.. <i>Macromolecular Rapid Communications</i> , 2022 , e2100839	4.8	4
448	Efficient ternary bulk heterojunction organic solar cells using a low-cost nonfullerene acceptor. <i>Journal of Materials Chemistry C</i> , 2022 , 10, 4372-4382	7.1	0
447	Gold(III) Porphyrin Was Used as an Electron Acceptor for Efficient Organic Solar Cells.. <i>ACS Applied Materials & Interfaces</i> , 2022 ,	9.5	6
446	Novel Pyrrolo [3,4-b] dithieno [3, 2-f:2'',3''-h] quinoxaline-8,10 (9H)-dione Based Wide Bandgap Conjugated Copolymers for Bulk Heterojunction Polymer Solar Cells.. <i>Macromolecular Rapid Communications</i> , 2022 , e2200060	4.8	0
445	New wide band gap E conjugated copolymers based on anthra[1,2-b:4,3-b':6,7-c''] trithiophene-8,12-dione for high performance non-fullerene polymer solar cells with an efficiency of 15.07 %. <i>Polymer</i> , 2022 , 251, 124892	3.9	1
444	Semitransparent organic solar cells: from molecular design to structureperformance relationships. <i>Journal of Materials Chemistry C</i> , 2021 , 10, 13-43	7.1	3
443	Reducing Energy Loss in Organic Solar Cells by Changing the Central Metal in Metalloporphyrins. <i>ChemSusChem</i> , 2021 , 14, 3494-3501	8.3	3
442	Efficient Ternary Polymer solar cells based ternary active layer consisting of conjugated polymers and non-fullerene acceptors with power conversion efficiency approaching near to 15.5%. <i>Solar Energy</i> , 2021 , 216, 217-224	6.8	9
441	Ternary Polymer Solar Cells with High Open Circuit Voltage containing Fullerene and New Thieno[3',2',6,7][1]Benzothieno[3,2-b]Thieno[3,2-g][1]Benzothiophene-based Non-fullerene Small Molecule Acceptor. <i>Energy Technology</i> , 2021 , 9, 2001100	3.5	2
440	Highly Efficient (15.08%) All-Small-Molecule Ternary Solar Cells Constructed with a Porphyrin as a Donor and Two Acceptors. <i>ACS Applied Energy Materials</i> , 2021 , 4, 4498-4506	6.1	9
439	New Dithiazole Side Chain Benzodithiophene Containing D _A Copolymers for Highly Efficient Nonfullerene Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2021 , 222, 2100053	2.6	2
438	Influence of the dipole moment on the photovoltaic performance of polymer solar cells employing non-fullerene small molecule acceptor. <i>Solar Energy</i> , 2021 , 221, 393-401	6.8	3
437	Self-Assembly-Directed Organization of a Fullerene-Bisporphyrin into Supramolecular Giant Donut Structures for Excited-State Charge Stabilization. <i>Journal of the American Chemical Society</i> , 2021 , 143, 11199-11208	16.4	2
436	High-Performance Fullerene Free Polymer Solar Cells Based on New Thiazole -Functionalized Benzo[1,2-b:4,5-b']dithiophene D-A Copolymer Donors. <i>ChemistrySelect</i> , 2021 , 6, 7025-7036	1.8	
435	Energy-level modulation of coumarin-based molecular donors for efficient all small molecule fullerene-free organic solar cells. <i>Journal of Materials Chemistry A</i> , 2021 , 9, 1563-1573	13	9
434	Ternary Polymer Solar Cells Using Two Polymers P1 and P3 with Similar Chemical Structures and Nonfullerene Acceptor Attained Power Conversion Efficiency Over 15.5% with Low Energy Loss of 0.55 eV. <i>Energy Technology</i> , 2021 , 9, 2000926	3.5	1
433	New Random Terpolymers Based on Bis(4,5-didodecylthiophen-2-yl)-[1,2,5]thiadiazolo[3,4-i]dithieno[3,2-a:2',3'-c]phenazine with Variable Absorption Spectrum as Promising Materials for Organic Solar Cells. <i>Doklady Physical Chemistry</i> , 2021 , 496, 1-7	0.8	

432	Fullerene/Non-fullerene Alloy for High-Performance All-Small-Molecule Organic Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6461-6469	9.5	10
431	Incorporation of a Guaiacol-Based Small Molecule Guest Donor Enables Efficient Nonfullerene Acceptor-Based Ternary Organic Solar Cells. <i>Solar Rrl</i> , 2021 , 5, 2100402	7.1	6
430	High-efficiency fullerene free ternary organic solar cells based with two small molecules as donor. <i>Optical Materials</i> , 2021 , 118, 111217	3.3	1
429	Binary and Ternary Polymer Solar Cells Based on a Wide Bandgap D-A Copolymer Donor and Two Nonfullerene Acceptors with Complementary Absorption Spectral. <i>ChemSusChem</i> , 2021 , 14, 4731-4740	8.3	2
428	Ternary polymer solar cells based on wide bandgap and narrow bandgap non-fullerene acceptors with an efficiency of 16.40 % and a low energy loss of 0.53 eV. <i>Materials Today Energy</i> , 2021 , 21, 100843	7	1
427	Performance analysis of TiO ₂ based dye sensitized solar cell prepared by screen printing and doctor blade deposition techniques. <i>Solar Energy</i> , 2021 , 226, 9-19	6.8	8
426	New BODIPY derivatives with triarylamine and truxene substituents as donors for organic bulk heterojunction photovoltaic cells. <i>Solar Energy</i> , 2021 , 227, 354-364	6.8	5
425	Prediction of non-radiative voltage losses in organic solar cells using machine learning. <i>Solar Energy</i> , 2021 , 228, 175-186	6.8	4
424	Efficient ternary polymer solar cell using wide bandgap conjugated polymer donor with two non-fullerene small molecule acceptors enabled power conversion efficiency of 16% with low energy loss of 0.47 eV. <i>Nano Select</i> , 2021 , 2, 1326-1335	3.1	1
423	Enhanced electronic communication through a conjugated bridge in a porphyrinfullerene donor-acceptor couple. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 10889-10898	7.1	0
422	Effect of Mesogenic Side Groups on the Redox, Photophysical, and Solar Cell Properties of Diketopyrrolopyrrole-trans-bis(diphosphine)diethynylplatinum(II) Polymers. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1087-1096	4.3	2
421	ADA?DA Nonfullerene Acceptor Obtained by Fine-Tuning Side Chains on Pyrroles Enables PBDB-T-Based Organic Solar Cells with over 14% Efficiency. <i>ACS Applied Energy Materials</i> , 2020 , 3, 11981-11997	6.1	1
420	Ternary All-Small-Molecule Solar Cells with Two Small-Molecule Donors and Y6 Nonfullerene Acceptor with a Power Conversion Efficiency over Above 14% Processed from a Nonhalogenated Solvent. <i>Solar Rrl</i> , 2020 , 4, 2070115	7.1	
419	Synthesis and Optical and Electrochemical Properties of Novel Random Terpolymers Based on Diketopyrrolopyrrole and Benzodithiazole/Quinoxaline Units for Polymer Solar Cells. <i>Doklady Chemistry</i> , 2020 , 490, 6-10	0.8	
418	Plasmonic effects of copper nanoparticles in polymer photovoltaic devices for outdoor and indoor applications. <i>Applied Physics Letters</i> , 2020 , 116, 253302	3.4	14
417	Carbazole-based green and blue-BODIPY dyads and triads as donors for bulk heterojunction organic solar cells. <i>Dalton Transactions</i> , 2020 , 49, 5606-5617	4.3	20
416	Cardanol- and Guaiacol-Sourced Solution-Processable Green Small Molecule-Based Organic Solar Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 5891-5902	8.3	9
415	Highly efficient ternary polymer solar cell with two non-fullerene acceptors. <i>Solar Energy</i> , 2020 , 199, 530-537	6.8	3

414	The influence of the terminal acceptor and oligomer length on the photovoltaic properties of ADA small molecule donors. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 4763-4770	7.1	8
413	Synthesis and Photovoltaic Properties of New Conjugated D-A Polymers Based on the Same Fluoro-Benzothiadiazole Acceptor Unit and Different Donor Units. <i>ChemistrySelect</i> , 2020 , 5, 853-863	1.8	5
412	Triplet photosensitizer-nanotube conjugates: synthesis, characterization and photochemistry of charge stabilizing, palladium porphyrin/carbon nanotube conjugates. <i>Nanoscale</i> , 2020 , 12, 9890-9898	7.7	3
411	Tuning of structural and optical properties of Au nanoparticles in amorphous-carbon. <i>Physica Scripta</i> , 2020 , 95, 105002	2.6	
410	New Donor-Acceptor Random Terpolymers with Wide Absorption Spectra of 300-1000 nm for Photovoltaic Applications. <i>Doklady Physical Chemistry</i> , 2020 , 495, 196-200	0.8	
409	Ternary Organic Solar Cell with a Near-Infrared Absorbing Selenophene-Diketopyrrolopyrrole-Based Nonfullerene Acceptor and an Efficiency above 10%. <i>Solar Rrl</i> , 2020 , 4, 1900471	7.1	9
408	Synthesis and Photovoltaic Investigation of 8,10-Bis(2-octyldodecyl)-8,10-dihydro-9H-bisthieno[2,3:7,8;3,2:5,6] naphtho[2,3-d]imidazol-9-one Based Conjugated Polymers Using a Nonfullerene Acceptor. <i>ACS Applied Energy Materials</i> , 2020 , 3, 495-505	6.1	5
407	A bis(diketopyrrolopyrrole) dimer-containing ligand in platinum(II) polyene oligomers exhibiting ultrafast photoinduced electron transfer with PCBM and solar cell properties. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 2363-2380	7.1	3
406	New Conjugated Polymers Based on Dithieno[2,3-e:3',2'-g]Isoindole-7,9(8H)-Dione Derivatives for Applications in Nonfullerene Polymer Solar Cells. <i>Solar Rrl</i> , 2020 , 4, 1900475	7.1	3
405	Indole-based ADA type acceptor-based organic solar cells achieve efficiency over 15 % with low energy loss. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 6203-6211	5.8	3
404	Polymer solar cell based on ternary active layer consists of medium bandgap polymer and two non-fullerene acceptors. <i>Solar Energy</i> , 2020 , 207, 1427-1433	6.8	3
403	Panchromatic Triple Organic Semiconductor Heterojunctions for Efficient Solar Cells. <i>ACS Applied Energy Materials</i> , 2020 , 3, 12506-12516	6.1	1
402	Synthesis and electronic properties of pyridine end-capped cyclopentadithiophene-vinylene oligomers.. <i>RSC Advances</i> , 2020 , 10, 41264-41271	3.7	1
401	Enhancement of photovoltaic efficiency through fine adjustment of indacene-based non-fullerene acceptor by minimal chlorination for polymer solar cells. <i>Nano Select</i> , 2020 , 1, 320-333	3.1	9
400	Impacts of a second acceptor on the energy loss, blend morphology and carrier dynamics in non-fullerene ternary polymer solar cells. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 11727-11734	7.1	4
399	Ternary All-Small-Molecule Solar Cells with Two Small-Molecule Donors and Y6 Nonfullerene Acceptor with a Power Conversion Efficiency over Above 14% Processed from a Nonhalogenated Solvent. <i>Solar Rrl</i> , 2020 , 4, 2000460	7.1	10
398	New High-Bandgap 8,10-Dihydro-9H-Bistieno[2,3:7,8;3,2:5,6]Naphtho[2,3-d]Imidazole-9-One-Based Donor-Acceptor Copolymers for Nonfullerene Polymer Solar Cells. <i>Energy Technology</i> , 2020 , 8, 2000611	3.5	2
397	Synthesis and Characterization of Wide-Bandgap Conjugated Polymers Consisting of Same Electron Donor and Different Electron-Deficient Units and Their Application for Nonfullerene Polymer Solar Cells. <i>Macromolecular Chemistry and Physics</i> , 2020 , 221, 2000030	2.6	5

396	Occurrence of excited state charge separation in a N-doped graphene/berylenediimide hybrid formed via click chemistry. <i>Nanoscale Advances</i> , 2019 , 1, 4009-4015	5.1	3
395	NIR absorbing ortho-extended perylene bisimide as a promising material for bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3012-3017	13	1
394	Thermally induced plasmonic resonance of Cu nanoparticles in fullerene C70 matrix. <i>Vacuum</i> , 2019 , 159, 423-429	3.7	3
393	Near-IR Absorbing D-A-D Zn-Porphyrin-Based Small-Molecule Donors for Organic Solar Cells with Low-Voltage Loss. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 7216-7225	9.5	20
392	Conjugated random terpolymers based on benzodithiophene, diketopyrrolopyrrole, and 8,10-bis(thiophen-2-yl)-2,5-di(nonadecan-3-yl)bis[1,3]thiazolo[4,5-f:5',4'-h]thieno[3,4-b]quinoxaline for Efficient Polymer Solar Cell. <i>Journal of Polymer Science Part A</i> , 2019 , 57, 1478-1485	2.5	4
391	Evolution of SPR in 120 MeV silver ion irradiated Cu (18%) C60 nanocomposites thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 8301-8311	2.1	2
390	Increase in efficiency on using selenophene instead of thiophene in bridges for D-DPP-D organic solar cells. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 11886-11894	13	21
389	Cycloaddition of Nitrile Oxides to Graphene: a Theoretical and Experimental Approach. <i>Chemistry - A European Journal</i> , 2019 , 25, 14644-14650	4.8	7
388	A bacteriochlorin-diketopyrrolopyrrole triad as a donor for solution-processed bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 9655-9664	7.1	4
387	Modulating charge carrier density and mobility in doped graphene by covalent functionalization. <i>Chemical Communications</i> , 2019 , 55, 9999-10002	5.8	4
386	Bidirectional charge-transfer behavior in carbon-based hybrid nanomaterials. <i>Nanoscale</i> , 2019 , 11, 14978-14992	7.1	11
385	Random D1A1D1A2 terpolymers based on diketopyrrolopyrrole and benzothiadiazolequinoxaline (BTQx) derivatives for high-performance polymer solar cells. <i>New Journal of Chemistry</i> , 2019 , 43, 5325-5334	3.6	7
384	Butterfly architecture of NIR Aza-BODIPY small molecules decorated with phenothiazine or phenoxazine. <i>Chemical Communications</i> , 2019 , 55, 12535-12538	5.8	11
383	Phenothiazine-based small molecules for bulk heterojunction organic solar cells; variation of side-chain polarity and length of conjugated system. <i>Organic Electronics</i> , 2019 , 65, 232-242	3.5	14
382	An all-small-molecule organic solar cell derived from naphthalimide for solution-processed high-efficiency nonfullerene acceptors. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 709-717	7.1	12
381	New indolo carbazole-based non-fullerene n-type semiconductors for organic solar cell applications. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 543-552	7.1	14
380	Synthesis and modification of Cu-C70 nanocomposite for plasmonic applications. <i>Applied Surface Science</i> , 2019 , 466, 615-627	6.7	5
379	[All]-S,S-dioxide Oligo-Thienylenevinylenes: Synthesis and Structural/Electronic Shapes from Their Molecular Force Fields. <i>Chemistry - A European Journal</i> , 2019 , 25, 464-468	4.8	1

378	Optical properties of Cu-C70nanocomposite under low energy ion irradiation. <i>Materials Research Express</i> , 2018 , 5, 035044	1.7	8
377	Increased Efficiency of Dye-Sensitized Solar Cells by Incorporation of a π -Spacer in Donor-Acceptor Zinc Porphyrins Bearing Cyanoacrylic Acid as an Anchoring Group. <i>European Journal of Inorganic Chemistry</i> , 2018 , 2018, 2369-2379	2.3	5
376	Low Energy Loss of 0.57 eV and High Efficiency of 8.80% in Porphyrin-Based BHJ Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 1304-1315	6.1	13
375	Benzothiadiazole Substituted Semiconductor Molecules for Organic Solar Cells: The Effect of the Solvent Annealing Over the Thin Film Hole Mobility Values. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13782-13789	3.8	11
374	Effect of high energy ions on the electrical and morphological properties of Poly(3-Hexylthiophene) (P3HT) thin film. <i>Physica B: Condensed Matter</i> , 2018 , 537, 306-313	2.8	3
373	Synthesis and photovoltaic properties of new D-A copolymers based on 5,6-bis(2-ethylhexyl)naphtha[2,1-b:3,4-b']dithiophene-2,9-diyl] donor and fluorine substituted 6,7-bis(9,9-didodecyl-9h-fluoren-2-yl)[1,2,5] thiadiazolo[3,4-g]quinoxaline acceptor units. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 1307-1307	2.5	1
372	A non-fullerene all small molecule solar cell constructed with a diketopyrrolopyrrole-based acceptor having a power conversion efficiency higher than 9% and an energy loss of 0.54 eV. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 11714-11724	13	38
371	BODIPY-diketopyrrolopyrrole-porphyrin conjugate small molecules for use in bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8449-8461	13	35
370	Edge-on and face-on functionalized Pc on enriched semiconducting SWCNT hybrids. <i>Nanoscale</i> , 2018 , 10, 5205-5213	7.7	15
369	Low energy ion irradiation studies of fullerene C70 thin films [An emphasis on mapping the local structure modifications. <i>Journal of Physics and Chemistry of Solids</i> , 2018 , 117, 204-214	3.9	7
368	Phenothiazine-based small-molecule organic solar cells with power conversion efficiency over 7% and open circuit voltage of about 1.0 V using solvent vapor annealing. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6321-6329	3.6	17
367	Asymmetric triphenylamine-phenothiazine based small molecules with varying terminal acceptors for solution processed bulk-heterojunction organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 6390-6400	3.6	9
366	Synthesis and characterization of zinc carboxy-porphyrin complexes for dye sensitized solar cells. <i>New Journal of Chemistry</i> , 2018 , 42, 8151-8159	3.6	8
365	Porphyrin Antenna-Enriched BODIPY-Thiophene Copolymer for Efficient Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 992-1004	9.5	23
364	Polymer solar cells based on D-A low bandgap copolymers containing fluorinated side chains of thiadiazoloquinoxaline acceptor and benzodithiophene donor units. <i>New Journal of Chemistry</i> , 2018 , 42, 1626-1633	3.6	6
363	Nonfullerene Polymer Solar Cells Reaching a 9.29% Efficiency Using a BODIPY-Thiophene Backboned Donor Material. <i>ACS Applied Energy Materials</i> , 2018 , 1, 3359-3368	6.1	15
362	Regioselectivity of the Pauson-Khand reaction in single-walled carbon nanotubes. <i>Nanoscale</i> , 2018 , 10, 15078-15089	7.7	6
361	Low energy ion irradiation induced SPR of Cu-Fullerene C70 nanocomposite thin films. <i>Journal of Alloys and Compounds</i> , 2018 , 767, 733-744	5.7	9

360	Efficient Non-polymeric Heterojunctions in Ternary Organic Solar Cells. <i>ACS Applied Energy Materials</i> , 2018 , 1, 4203-4210	6.1	5
359	Investigation of C60 and C70 fullerenes under low energy ion impact. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 14762-14773	2.1	2
358	Enhanced efficiency of PbS quantum dot-sensitized solar cells using plasmonic photoanode. <i>Journal of Nanoparticle Research</i> , 2018 , 20, 1	2.3	7
357	Low Energy Gap TriphenylamineHeteropentaceneDicyanovinyl Triad for Solution-Processed Bulk-Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 11262-11269	3.8	6
356	Corrole-BODIPY Dyad as Small-Molecule Donor for Bulk Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 31462-31471	9.5	27
355	N-Doped graphene/C covalent hybrid as a new material for energy harvesting applications. <i>Chemical Science</i> , 2018 , 9, 8221-8227	9.4	7
354	Effect of acceptor strength on optical, electrochemical and photovoltaic properties of phenothiazine-based small molecule for bulk heterojunction organic solar cells. <i>Dyes and Pigments</i> , 2018 , 149, 830-842	4.6	22
353	Oligothiophenevinylene Polarons and Bipolarons Confined between Electron-Accepting Perchlorotriphenylmethyl Radicals. <i>Chemistry - A European Journal</i> , 2018 , 24, 3776-3783	4.8	4
352	Modulation of the power conversion efficiency of organic solar cells via architectural variation of a promising non-fullerene acceptor. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 574-582	13	11
351	Photovoltaic Properties of a Porphyrin-Containing Polymer as Donor in Bulk Heterojunction Solar Cells With Low Energy Loss. <i>Solar Rrl</i> , 2018 , 2, 1700168	7.1	11
350	Optimization of the Donor Material Structure and Processing Conditions to Obtain Efficient Small-Molecule Donors for Bulk Heterojunction Solar Cells. <i>ChemPhotoChem</i> , 2018 , 2, 81-88	3.3	1
349	Dithienosilolephenylquinoxaline-based copolymers with A-D-A-D and A-D structures for polymer solar cells. <i>Journal of Polymer Science Part A</i> , 2018 , 56, 376-386	2.5	4
348	New iridium-containing conjugated polymers for polymer solar cell applications. <i>New Journal of Chemistry</i> , 2018 , 42, 17296-17302	3.6	8
347	Ni-Porphyrin-based small molecule for efficient organic solar cells (>9.0%) with a high open circuit voltage of over 1.0 V and low energy loss. <i>Chemical Communications</i> , 2018 , 54, 14144-14147	5.8	15
346	Reduced Energy Offsets and Low Energy Losses Lead to Efficient (~10% at 1 sun) Ternary Organic Solar Cells. <i>ACS Energy Letters</i> , 2018 , 3, 2418-2424	20.1	14
345	Fabrication of efficient dye-sensitized solar cells with photoanode containing TiO ₂ Au and TiO ₂ Ag plasmonic nanocomposites. <i>Journal of Materials Science: Materials in Electronics</i> , 2018 , 29, 18209-18220 ¹¹	2.1	11
344	Panchromatic ternary organic solar cells with 9.44% efficiency incorporating porphyrin-based donors. <i>Nanoscale</i> , 2018 , 10, 12100-12108	7.7	13
343	Selective Screening of Biological Thiols by Means of an Unreported Magenta Interaction and Evaluation Using Smartphones. <i>ACS Omega</i> , 2018 , 3, 6617-6623	3.9	

342	Synthesis and photovoltaic properties low bandgap D-A copolymers based on fluorinated thiadiazoloquinoxaline. <i>Organic Electronics</i> , 2017 , 43, 268-276	3.5	5
341	Small molecule carbazole-based diketopyrrolopyrroles with tetracyanobutadiene acceptor unit as a non-fullerene acceptor for bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 3311-3319	13	42
340	Photoexfoliation of two-dimensional materials through continuous UV irradiation. <i>Nanotechnology</i> , 2017 , 28, 125604	3.4	4
339	Ferrocene-diketopyrrolopyrrole based small molecule donors for bulk heterojunction solar cells. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 7262-7269	3.6	13
338	(D-EA)-ED-A type ferrocenyl bisthiazole linked triphenylamine based molecular systems for DSSC: synthesis, experimental and theoretical performance studies. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 8925-8933	3.6	34
337	A Very Low Band Gap Diketopyrrolopyrrole-Porphyrin Conjugated Polymer. <i>ChemPlusChem</i> , 2017 , 82, 625-630	2.8	17
336	Cyclopentadithiophene-based co-oligomers for solution-processed organic solar cells. <i>Dyes and Pigments</i> , 2017 , 143, 112-122	4.6	4
335	Polymer solar cells based low bandgap A1-D-A2-D terpolymer based on fluorinated thiadiazoloquinoxaline and benzothiadiazole acceptors with energy loss less than 0.5 eV. <i>Organic Electronics</i> , 2017 , 46, 192-202	3.5	9
334	New cyclopentadithiophene (CDT) linked porphyrin donors with different end-capping acceptors for efficient small molecule organic solar cells. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4742-4751	7.1	15
333	Charge stabilizing tris(triphenylamine)-zinc porphyrin-carbon nanotube hybrids: synthesis, characterization and excited state charge transfer studies. <i>Nanoscale</i> , 2017 , 9, 7551-7558	7.7	28
332	Pyrrolo[3,2-b]pyrrole as the Central Core of the Electron Donor for Solution-Processed Organic Solar Cells. <i>ChemPlusChem</i> , 2017 , 82, 1096-1104	2.8	20
331	Comparative study on the photovoltaic characteristics of AD ₂ A and D ₂ AD molecules based on Zn-porphyrin; a D ₂ AD molecule with over 8.0% efficiency. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1057-1065	13	42
330	Synthesis, characterization and thermally induced structural transformation of Au-C 70 nanocomposite thin films. <i>Vacuum</i> , 2017 , 142, 146-153	3.7	9
329	Tuning the optoelectronic properties for high-efficiency (>7.5%) all small molecule and fullerene-free solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14259-14269	13	28
328	Ferrocene-diketopyrrolopyrrole based non-fullerene acceptors for bulk heterojunction polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 13625-13633	13	34
327	Effect of low fluence radiation on nanocomposite thin films of Cu nanoparticles embedded in fullerene C 60. <i>Vacuum</i> , 2017 , 142, 5-12	3.7	21
326	Unprecedented low energy losses in organic solar cells with high external quantum efficiencies by employing non-fullerene electron acceptors. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 14887-14897	13	32
325	Efficient Polymer Solar Cells with High Open-Circuit Voltage Containing Diketopyrrolopyrrole-Based Non-Fullerene Acceptor Core End-Capped with Rhodanine Units. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 11739-11748	9.5	38

324	Cyclopentadithiophene organic core in small molecule organic solar cells: morphological control of carrier recombination. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 3640-3648	3.6	6
323	Operative Mechanism of Hole-Assisted Negative Charge Motion in Ground States of Radical-Anion Molecular Wires. <i>Journal of the American Chemical Society</i> , 2017 , 139, 686-692	16.4	21
322	Benzothiadiazole-pyrrolo[3,4-b]dithieno[2,3-f:3',2'-h]quinoxalindione-based random terpolymer incorporating strong and weak electron accepting [1,2,5]thiadiazolo[3,4g]quinoxaline for polymer solar cells. <i>Organic Electronics</i> , 2017 , 41, 1-8	3.5	4
321	Oligomers of cyclopentadithiophene-vinylene in aromatic and quinoidal versions and redox species with intermediate forms. <i>Chemical Science</i> , 2017 , 8, 8106-8114	9.4	11
320	Porphyryns and BODIPY as Building Blocks for Efficient Donor Materials in Bulk Heterojunction Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700127	7.1	46
319	Regular conjugated D π A copolymer containing two benzotriazole and benzothiadiazole acceptors and dithienosilole donor units for photovoltaic application. <i>RSC Advances</i> , 2017 , 7, 49204-49214	3.7	3
318	Efficient Photoinduced Energy and Electron Transfer in Zn -Porphyrin/Fullerene Dyads with Interchromophoric Distances up to 2.6 nm and No Wire-like Connectivity. <i>Chemistry - A European Journal</i> , 2017 , 23, 14200-14212	4.8	9
317	Synthesis of new 2,6-bis(6-fluoro-2-hexyl-2H-benzotriazol-4-yl)-4,4-bis(2-ethylhexyl)-4H-silolo[3,2-b:4,5-b']dithiophene based D-A conjugated terpolymers for photovoltaic application. <i>Polymer</i> , 2017 , 133, 195-204	3.9	3
316	Toward High-Performance Polymer Photovoltaic Devices for Low-Power Indoor Applications. <i>Solar Rrl</i> , 2017 , 1, 1700174	7.1	60
315	Dithieno[3,2-b:2',3'-d]pyrrole-benzo[c][1,2,5]thiadiazole conjugate small molecule donors: effect of fluorine content on their photovoltaic properties. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 20513-20522	3.6	6
314	Porphyryn based push-pull conjugates as donors for solution-processed bulk heterojunction solar cells: a case of metal-dependent power conversion efficiency. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 15529-15533	13	18
313	Viologen-functionalized single-walled carbon nanotubes as carrier nanotags for electrochemical immunosensing. Application to TGF- β cytokine. <i>Biosensors and Bioelectronics</i> , 2017 , 98, 240-247	11.8	24
312	Thermally induced tuning of SPR of metal-fullerene Ag(26%)-C 70 nanocomposite. <i>Surface and Coatings Technology</i> , 2017 , 324, 361-367	4.4	11
311	Synthesis and photophysical properties of regioregular low bandgap copolymers with controlled 5-fluorobenzotriazole orientation for photovoltaic application. <i>Polymer Chemistry</i> , 2016 , 7, 5849-5861	4.9	10
310	Dithienopyrrole-benzodithiophene based donor materials for small molecular BHJSCs: Impact of side chain and annealing treatment on their photovoltaic properties. <i>Organic Electronics</i> , 2016 , 37, 312-325	3.5	21
309	New D-A1-D-A2-Type Regular Terpolymers Containing Benzothiadiazole and Benzotrithiophene Acceptor Units for Photovoltaic Application. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32998-33009	8.5	14
308	Efficiency improvement using bis(trifluoromethane) sulfonamide lithium salt as a chemical additive in porphyrin based organic solar cells. <i>Nanoscale</i> , 2016 , 8, 17953-17962	7.7	21
307	High photo-current in solution processed organic solar cells based on a porphyrin core A-D π A as electron donor material. <i>Organic Electronics</i> , 2016 , 38, 330-336	3.5	13

306	Small molecule based N-phenyl carbazole substituted diketopyrrolopyrroles as donors for solution-processed bulk heterojunction organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22999-3005	3.6	16
305	Synthesis of new D-A1D-A2 type low bandgap terpolymers based on different thiadiazoloquinoxaline acceptor units for efficient polymer solar cells. <i>RSC Advances</i> , 2016 , 6, 71232-71244	3.7	9
304	A dithieno[3,2-b:2',3'-d]pyrrole based, NIR absorbing, solution processable, small molecule donor for efficient bulk heterojunction solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 32096-32106	3.6	13
303	Synthesis and photophysical properties of semiconductor molecules D1-A-D2-A-D1-type structure based on derivatives of quinoxaline and dithienosilole for organics solar cells. <i>Organic Electronics</i> , 2016 , 39, 361-370	3.5	2
302	Low Open-Circuit Voltage Loss in Solution-Processed Small-Molecule Organic Solar Cells. <i>ACS Energy Letters</i> , 2016 , 1, 302-308	20.1	52
301	Ultrafast electron transfer in all-carbon-based SWCNT-C60 donor-acceptor nanoensembles connected by poly(phenylene-ethynylene) spacers. <i>Nanoscale</i> , 2016 , 8, 14716-24	7.7	15
300	CuSCN as selective contact in solution-processed small-molecule organic solar cells leads to over 7% efficient porphyrin-based device. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 11009-11022	13	37
299	D-A-D-ED-A-D type diketopyrrolopyrrole based small molecule electron donors for bulk heterojunction organic solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 16950-7	3.6	18
298	Design and synthesis of new ultra-low band gap thiadiazoloquinoxaline-based polymers for near-infrared organic photovoltaic application. <i>RSC Advances</i> , 2016 , 6, 14893-14908	3.7	22
297	Hetero aromatic donors as effective terminal groups for DPP based organic solar cells. <i>RSC Advances</i> , 2016 , 6, 9023-9036	3.7	4
296	Charge recombination losses in thiophene-substituted porphyrin dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2016 , 126, 147-153	4.6	15
295	1,1,4,4-Tetracyanobuta-1,3-diene Substituted Diketopyrrolopyrroles: An Acceptor for Solution Processable Organic Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 6324-6335	3.8	50
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293	New low bandgap near-IR conjugated D-A copolymers for BHJ polymer solar cell applications. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 8389-400	3.6	13
292	Pyridyl vs. bipyridyl anchoring groups of porphyrin sensitizers for dye sensitized solar cells. <i>RSC Advances</i> , 2016 , 6, 22187-22203	3.7	16
291	Dicyanoquinodimethane-substituted benzothiadiazole for efficient small-molecule solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 7235-41	3.6	17
290	Heteroleptic Ru(II)-bipyridine complexes based on hexylthioether-, hexyloxy- and hexyl-substituted thienylenevinylens and their application in dye-sensitized solar cells. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 11901-8	3.6	2
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288	D-A-D-A-D push pull organic small molecules based on 5,10-dihydroindolo[3,2-b]indole (DINI) central core donor for solution processed bulk heterojunction solar cells. <i>Organic Electronics</i> , 2016 , 30, 122-130	3.5	26
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286	Synthesis, characterization and photoinduced charge separation of carbon nanohorn-oligothiophenevinylene hybrids. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1828-37	3.6	7
285	Positional isomers of pyridine linked triphenylamine-based donor-acceptor organic dyes for efficient dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2016 , 126, 38-45	4.6	30
284	Two new bulky substituted Zn porphyrins bearing carboxylate anchoring groups as promising dyes for DSSCs. <i>New Journal of Chemistry</i> , 2016 , 40, 5930-5941	3.6	8
283	Design, synthesis and photophysical properties of D1-A-D2-A-D1-type small molecules based on fluorobenzotriazole acceptor and dithienosilole core donor for solution processed organic solar cells. <i>Dyes and Pigments</i> , 2016 , 132, 387-397	4.6	7
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274	Symmetrical and unsymmetrical triphenylamine based diketopyrrolopyrroles and their use as donors for solution processed bulk heterojunction organic solar cells. <i>RSC Advances</i> , 2016 , 6, 99685-99694	3.7	15
273	New ultra low bandgap thiadiazolequinoxaline-based D-A copolymers for photovoltaic applications. <i>Organic Electronics</i> , 2016 , 37, 411-420	3.5	2
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270	Donor-Acceptor, triazine-linked porphyrin dyads as sensitizers for dye-sensitized solar cells. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015 , 19, 175-191	1.8	5
269	Efficient co-sensitization of dye-sensitized solar cells by novel porphyrin/triazine dye and tertiary aryl-amine organic dye. <i>Organic Electronics</i> , 2015 , 25, 295-307	3.5	33
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262	Covalent decoration onto the outer walls of double walled carbon nanotubes with perylene diimides. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 4960-4969	7.1	15
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248	Synthesis, optical and electrochemical properties of the A-B-A porphyrin and its application as an electron donor in efficient solution processed bulk heterojunction solar cells. <i>Nanoscale</i> , 2015 , 7, 1797-89	4.2	42
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245	A new unsymmetrical near-IR small molecule with squaraine chromophore for solution processed bulk heterojunction solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 7029-7037	7.1	15
244	Two new D-A conjugated polymers P(PTQD-Th) and P(PTQD-2Th) with same 9-(2-octyldodecyl)-8 H-pyrrolo[3,4-b]bisthieno[2,3-f:3',2'-h]quinoxaline-8,10(9 H)-dione acceptor and different donor units for BHJ polymer solar cells application. <i>Organic Electronics</i> , 2015 , 24, 137-146	3.5	6
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233	Triazine-Bridged Porphyrin Triad as Electron Donor for Solution-Processed Bulk Hetero-Junction Organic Solar Cells. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 5968-5977	3.8	45
232	Near infrared organic semiconducting materials for bulk heterojunction and dye-sensitized solar cells. <i>Chemical Record</i> , 2014 , 14, 419-81	6.6	16
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228	"Spider"-shaped porphyrins with conjugated pyridyl anchoring groups as efficient sensitizers for dye-sensitized solar cells. <i>Inorganic Chemistry</i> , 2014 , 53, 11871-81	5.1	29
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217	Synthesis and photovoltaic properties of DAD type small molecules containing diketopyrrolopyrrole (DPP) acceptor central unit with different donor terminal units. <i>Organic Electronics</i> , 2014 , 15, 2116-2125	3.5	15

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212	Application of solution processable squaraine dyes as electron donors for organic bulk-heterojunction solar cells. <i>Photochemical and Photobiological Sciences</i> , 2013 , 12, 1688-99	4.2	22
211	Efficient cycloaddition of arynes to carbon nanotubes under microwave irradiation. <i>Carbon</i> , 2013 , 63, 140-148	10.4	22
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209	High open circuit voltage in efficient thiophene-based small molecule solution processed organic solar cells. <i>Organic Electronics</i> , 2013 , 14, 2826-2832	3.5	30
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203	Enhancement of power conversion efficiency of dye-sensitized solar cells by co-sensitization of zinc-porphyrin and thiocyanate-free ruthenium(II)-terpyridine dyes and graphene modified TiO ₂ photoanode. <i>RSC Advances</i> , 2013 , 3, 22412	3.7	58
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194	Diarylmethanofullerene: Efficient Polymer Solar Cells with Low-Band-Gap Copolymer. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 13350-13356	3.8	16
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