

Fernando Langa

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#	Paper	IF	Citations
449	Infrared photocurrent spectral response from plastic solar cell with low-band-gap polyfluorene and fullerene derivative. <i>Applied Physics Letters</i> , 2004 , 85, 5081-5083	3.4	193
448	Synthesis, photochemistry, and electrochemistry of single-wall carbon nanotubes with pendent pyridyl groups and of their metal complexes with zinc porphyrin. Comparison with pyridyl-bearing fullerenes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 6626-35	16.4	189
447	Microwave irradiation: more than just a method for accelerating reactions. <i>Contemporary Organic Synthesis</i> , 1997 , 4, 373-386		186
446	A Simple and Effective Modification of PCBM for Use as an Electron Acceptor in Efficient Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2011 , 21, 746-755	15.6	135
445	Microwave-assisted sidewall functionalization of single-wall carbon nanotubes by Diels-Alder cycloaddition. <i>Chemical Communications</i> , 2004 , 1734-5	5.8	131
444	Geminate charge recombination in polymer/fullerene bulk heterojunction films and implications for solar cell function. <i>Journal of the American Chemical Society</i> , 2010 , 132, 12440-51	16.4	120
443	The importance of various anchoring groups attached on porphyrins as potential dyes for DSSC applications. <i>RSC Advances</i> , 2014 , 4, 21379-21404	3.7	113
442	Sidewall Functionalization of Single-Walled Carbon Nanotubes with Nitrile Imines. Electron Transfer from the Substituent to the Carbon Nanotube. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 12697-12697 ¹⁰	3.4	110
441	Synthesis of diketopyrrolopyrrole containing copolymers: a study of their optical and photovoltaic properties. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 3095-103	3.4	109
440	A Novel Alternating Phenylenevinylene Copolymer with Perylene Bisimide Units: Synthesis, Photophysical, Electrochemical, and Photovoltaic Properties. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 7904-7912	3.8	92
439	Efficient bulk heterojunction devices based on phenylenevinylene small molecule and perylenebisimide. <i>Journal of Materials Chemistry</i> , 2010 , 20, 561-567		89
438	Design, Synthesis and Properties of Low Band Gap Polyfluorenes for Photovoltaic Devices. <i>Synthetic Metals</i> , 2005 , 154, 53-56	3.6	87
437	Photoinduced processes in fullerenopyrrolidine and fullerenopyrazoline derivatives substituted with an oligophenylenevinylene moiety. <i>Journal of Materials Chemistry</i> , 2002 , 12, 2077-2087		86
436	Modification of regioselectivity in cycloadditions to C70 under microwave irradiation. <i>Journal of Organic Chemistry</i> , 2000 , 65, 2499-507	4.2	76
435	Investigations of materials and device structures for organic semiconductor solar cells. <i>Optical Engineering</i> , 1993 , 32, 1921	1.1	74
434	Photophysical, electrochemical and photovoltaic properties of dye sensitized solar cells using a series of pyridyl functionalized porphyrin dyes. <i>RSC Advances</i> , 2012 , 2, 12899	3.7	70
433	Cycloadditions to [60]fullerene using microwave irradiation: A convenient and expeditious procedure. <i>Tetrahedron</i> , 1997 , 53, 2599-2608	2.4	68

432	Efficient tautomerization hydrazone-azomethine imine under microwave irradiation. Synthesis of [4,3?] and [5,3?]bipyrazoles. <i>Tetrahedron</i> , 1998 , 54, 13167-13180	2.4	67
431	Silica gel catalysed Knoevenagel condensation in dry media under microwave irradiation. <i>Tetrahedron Letters</i> , 1996 , 37, 1113-1116	2	67
430	Unsymmetrical Donor-Acceptor-Acceptor-Donor Type Benzothiadiazole-Based Small Molecule for a Solution Processed Bulk Heterojunction Organic Solar Cell. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 10283-92	9.5	65
429	Microwave Assisted Beckmann Rearrangement of Ketoximes in Dry Media. <i>Synlett</i> , 1995 , 1995, 1259-1260	2.0	65
428	Low band gap dyes based on 2-styryl-5-phenylazo-pyrrole: Synthesis and application for efficient dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011 , 196, 4152-4161	8.9	62
427	Toward High-Performance Polymer Photovoltaic Devices for Low-Power Indoor Applications. <i>Solar Rrl</i> , 2017 , 1, 1700174	7.1	60
426	The first synthesis of a conjugated hybrid of C60 fullerene and a single-wall carbon nanotube. <i>Carbon</i> , 2007 , 45, 2250-2252	10.4	59
425	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 TiO2 photoanode. <i>RSC Advances</i> , 2013 , 3, 22412	3.7	58
424	Cosensitization of dye sensitized solar cells with a thiocyanate free Ru dye and a metal free dye containing thienylfluorene conjugation. <i>RSC Advances</i> , 2013 , 3, 6036	3.7	58
423	New Triphenylamine-Based Organic Dyes with Different Numbers of Anchoring Groups for Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 5941-5950	3.8	58
422	Dye sensitized solar cells (DSSCs) based on modified iron phthalocyanine nanostructured TiO2 electrode and PEDOT:PSS counter electrode. <i>Synthetic Metals</i> , 2009 , 159, 1325-1331	3.6	58
421	Nanoscale interaction between CdSe or CdTe nanocrystals and molecular dyes fostering or hindering directional charge separation. <i>Small</i> , 2010 , 6, 221-5	11	58
420	Electrical and photoelectrical properties of poly(phenyl azomethine furane) thin films devices. <i>Thin Solid Films</i> , 1996 , 278, 129-134	2.2	58
419	Low band gap vinylene compounds with triphenylamine and benzothiadiazole segments for use in photovoltaic cells. <i>Organic Electronics</i> , 2009 , 10, 1320-1333	3.5	57
418	Thermal and Microwave-Assisted Synthesis of Diels-Alder Adducts of [60]Fullerene with 2,3-Pyrazinoquinodimethanes: Characterization and Electrochemical Properties. <i>Journal of Organic Chemistry</i> , 1997 , 62, 3705-3710	4.2	56
417	Low band gap conjugated small molecules containing benzobisthiadiazole and thienothiadiazole central units: synthesis and application for bulk heterojunction solar cells. <i>Journal of Materials Chemistry</i> , 2011 , 21, 4679		54
416	Synthesis and properties of isoxazolo[60]fullerene-donor dyads. <i>Journal of Organic Chemistry</i> , 2000 , 65, 8675-84	4.2	54
415	C(60)-based triads with improved electron-acceptor properties: pyrazolylpyrazolino[60]fullerenes. <i>Journal of Organic Chemistry</i> , 2001 , 66, 5033-41	4.2	54

414	Pyrazolinofullerenes: a less known type of highly versatile fullerene derivatives. <i>Chemical Society Reviews</i> , 2011 , 40, 5232-41	58.5	53
413	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
412	New conjugated alternating benzodithiophene-containing copolymers with different acceptor units: synthesis and photovoltaic application. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 155-171	13	52
411	Synthesis, electrochemistry and photophysical properties of phenylenevinylene fullerodendrimers. <i>Tetrahedron Letters</i> , 2001 , 42, 3435-3438	2	52
410	Microwave irradiation in solvent-free conditions: an eco-friendly methodology to prepare indazoles, pyrazolopyridines and bipyrazoles by cycloaddition reactions. <i>Green Chemistry</i> , 2000 , 2, 165-172	10	52
409	CH ₃ NH ₃ PbI ₃ Perovskite Sensitized Solar Cells Using a D-A Copolymer as Hole Transport Material. <i>Electrochimica Acta</i> , 2015 , 151, 21-26	6.7	50
408	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
407	Effect of counter electrode, thickness and sintering temperature of TiO ₂ electrode and TBP addition in electrolyte on photovoltaic performance of dye sensitized solar cell using pyronine G (PYR) dye. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009 , 206, 53-63	4.7	50
406	Polymer solar cells with low-bandgap polymers blended with C70-derivative give photocurrent at 1 μ m. <i>Thin Solid Films</i> , 2006 , 511-512, 576-580	2.2	50
405	Efficient sensitization of dye-sensitized solar cells by novel triazine-bridged porphyrin-porphyrin dyads. <i>Inorganic Chemistry</i> , 2013 , 52, 9813-25	5.1	49
404	Novel Low Band Gap Small Molecule and Phenylenevinylene Copolymer with Cyanovinylene 4-Nitrophenyl Segments: Synthesis and Application for Efficient Bulk Heterojunction Solar Cells. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 270-278	9.5	49
403	A new porphyrin bearing a pyridinylethynyl group as sensitizer for dye sensitized solar cells. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2013 , 253, 88-96	4.7	48
402	Dendritic liquid-crystalline fullerene-ferrocene dyads. <i>Tetrahedron</i> , 2006 , 62, 2115-2122	2.4	48
401	Synthesis and photochemistry of soluble, pentyl ester-modified single wall carbon nanotube. <i>Chemical Physics Letters</i> , 2004 , 386, 342-345	2.5	48
400	Bulk heterojunction organic solar cells based on carbazole-BODIPY conjugate small molecules as donors with high open circuit voltage. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 26580-8	3.6	47
399	Effect of surface modification of TiO ₂ on the photovoltaic performance of the quasi solid state dye sensitized solar cells using a benzothiadiazole-based dye. <i>Journal of Power Sources</i> , 2010 , 195, 3011-3016	8.9	47
398	Electrical, optical and photovoltaic effect in pyronine G (Y) based thin film sandwich devices. <i>Thin Solid Films</i> , 1998 , 333, 176-184	2.2	47
397	Liquid-crystalline [60]fullerene-TTF dyads. <i>Organic Letters</i> , 2005 , 7, 383-6	6.2	47

396	Porphyrins and BODIPY as Building Blocks for Efficient Donor Materials in Bulk Heterojunction Solar Cells. <i>Solar Rrl</i> , 2017 , 1, 1700127	7.1	46
395	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
394	On the thermal stability of [60]fullerene cycloadducts: retro-cycloaddition reaction of 2-pyrazolino[4,5:1,2][60]fullerenes. <i>Journal of Organic Chemistry</i> , 2008 , 73, 3184-8	4.2	45
393	Synthesis and properties of pyrazolino[60]fullerene-donor systems. <i>Tetrahedron</i> , 2002 , 58, 5821-5826	2.4	45
392	The isoindazole nucleus as a donor in fullerene-based dyads. Evidence for electron transfer. <i>Journal of Organic Chemistry</i> , 2004 , 69, 2661-8	4.2	45
391	Pyrazolino[60]fullerene-oligophenylenevinylene dumbbell-shaped arrays: synthesis, electrochemistry, photophysics, and self-assembly on surfaces. <i>Chemistry - A European Journal</i> , 2005 , 11, 4405-15	4.8	45
390	Synthesis of new C60?donor dyads by reaction of pyrazolyhydrazones with [60]fullerene under microwave irradiation. <i>Tetrahedron Letters</i> , 1999 , 40, 1587-1590	2	45
389	Effect of ethylene carbonate as a plasticizer on CuI/PVA nanocomposite: Structure, optical and electrical properties. <i>Journal of Advanced Research</i> , 2014 , 5, 79-86	13	44
388	A new family of A2B2 type porphyrin derivatives: synthesis, physicochemical characterization and their application in dye-sensitized solar cells. <i>Journal of Materials Chemistry</i> , 2012 , 22, 8092		44
387	Quasi solid state dye sensitized solar cells employing a polymer electrolyte and xanthene dyes. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2009 , 162, 32-39	3.1	44
386	Synthesis, photophysics of two new perylene bisimides and their photovoltaic performances in quasi solid state dye sensitized solar cells. <i>Journal of Power Sources</i> , 2009 , 194, 1171-1179	8.9	43
385	Solvent-free phase transfer catalysis under microwaves in Fullerene chemistry. A convenient preparation of N-alkylpyrrolidino[60]fullerenes. <i>Tetrahedron Letters</i> , 1998 , 39, 6053-6056	2	43
384	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
383	Comparative study on the photovoltaic characteristics of A ₂ B ₂ and D ₂ A ₂ molecules based on Zn-porphyrin; a D ₂ A ₂ molecule with over 8.0% efficiency. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 1057-1065	13	42
382	Synthesis, optical and electrochemical properties of the A-E-EA porphyrin and its application as an electron donor in efficient solution processed bulk heterojunction solar cells. <i>Nanoscale</i> , 2015 , 7, 1797-799	7.7	42
381	Carbon nanohorns as a scaffold for the construction of disposable electrochemical immunosensing platforms. Application to the determination of fibrinogen in human plasma and urine. <i>Analytical Chemistry</i> , 2014 , 86, 7749-56	7.8	42
380	Diketopyrrolopyrrole-Based Donor-Acceptor Copolymers as Organic Sensitizers for Dye Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 3287-3291	3.8	42
379	A carbon nanohorn-porphyrin supramolecular assembly for photoinduced electron-transfer processes. <i>Chemistry - A European Journal</i> , 2010 , 16, 10752-63	4.8	42

378	Stoichiometry dependence of charge transport in polymer/methanofullerene and polymer/C70 derivative based solar cells. <i>Organic Electronics</i> , 2006 , 7, 195-204	3.5	42
377	A Propeller-Shaped, Triazine-Linked Porphyrin Triad as Efficient Sensitizer for Dye-Sensitized Solar Cells. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 1020-1033	2.3	41
376	Grafted-double walled carbon nanotubes as electrochemical platforms for immobilization of antibodies using a metallic-complex chelating polymer: Application to the determination of adiponectin cytokine in serum. <i>Biosensors and Bioelectronics</i> , 2015 , 74, 24-9	11.8	40
375	AD _A based porphyrin for solution processed small molecule bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 16287-16301	13	40
374	High effectiveness of oligothiophenevinylene as molecular wires in Zn-porphyrin and C60 connected systems. <i>Chemical Communications</i> , 2007 , 4498-500	5.8	40
373	Synthesis, optical and electrochemical properties of new ferrocenyl substituted triphenylamine based donor-acceptor dyes for dye sensitized solar cells. <i>RSC Advances</i> , 2014 , 4, 34904-34911	3.7	39
372	Co-sensitization of amphiphilic ruthenium (II) sensitizer with a metal free organic dye: Improved photovoltaic performance of dye sensitized solar cells. <i>Organic Electronics</i> , 2013 , 14, 1237-1241	3.5	39
371	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
370	Role of the bridge in photoinduced electron transfer in porphyrin-fullerene dyads. <i>Chemistry - A European Journal</i> , 2015 , 21, 5814-25	4.8	38
369	Scorpion-shaped mono(carboxy)porphyrin-(BODIPY) ₂ , a novel triazine bridged triad: synthesis, characterization and dye sensitized solar cell (DSSC) applications. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 5652-5664	7.1	38
368	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
367	Endohedral and exohedral hybrids involving fullerenes and carbon nanotubes. <i>Nanoscale</i> , 2012 , 4, 4370-817	8.17	38
366	Synthesis of a perylene bisimide with acetonaphthopyrazine dicyanitrile terminal moieties for photovoltaic applications. <i>Synthetic Metals</i> , 2010 , 160, 932-938	3.6	38
365	Cycloaddition of benzyne to SWCNT: towards CNT-based paddle wheels. <i>Chemical Communications</i> , 2010 , 46, 7028-30	5.8	38
364	Novel zinc porphyrin with phenylenevinylene meso-substituents: Synthesis and application in dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2011 , 196, 6622-6628	8.9	38
363	Effect of the incorporation of a low-band-gap small molecule in a conjugated vinylene copolymer: PCBM blend for organic photovoltaic devices. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1370-4	9.5	38
362	Electroactive 3?-(N-phenylpyrazolyl)isoxazoline[4?,5?:1,2][60]fullerene dyads. <i>Tetrahedron Letters</i> , 1999 , 40, 4889-4892	2	38
361	Influence of iodine on the electrical and photoelectrical properties of zinc phthalocyanine thin film devices. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 1996 , 41, 222-227	3.1	38

360	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
359	Stepwise co-sensitization as a useful tool for enhancement of power conversion efficiency of dye-sensitized solar cells: The case of an unsymmetrical porphyrin dyad and a metal-free organic dye. <i>Organic Electronics</i> , 2014 , 15, 1324-1337	3.5	36
358	Solution processed bulk heterojunction polymer solar cells with low band gap DPP-CN small molecule sensitizer. <i>Organic Electronics</i> , 2012 , 13, 1756-1762	3.5	36
357	BODIPY-biketopyrrolopyrrole-porphyrin conjugate small molecules for use in bulk heterojunction solar cells. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 8449-8461	13	35
356	An AD π small molecule based on the 3,6-dithienylcarbazole electron donor (D) unit and nitrophenyl acrylonitrile electron acceptor (A) units for solution processed organic solar cells. <i>Journal of Materials Chemistry A</i> , 2013 , 1, 2297-2306	13	35
355	Novel p-phenylenevinylene compounds containing thiophene or anthracene moieties and cyano-vinylene bonds for photovoltaic applications. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 1711-1718	9.5	35
354	(D- π A)- π D-A type ferrocenyl bsthiazole 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
353	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
352	Electrical and photoelectrical properties of Schottky barrier devices using the chloro aluminium phthalocyanines. <i>Synthetic Metals</i> , 1995 , 74, 227-234	3.6	34
351	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
350	Synthesis of a Modified PC70BM and Its Application as an Electron Acceptor with Poly(3-hexylthiophene) as an Electron Donor for Efficient Bulk Heterojunction Solar Cells. <i>Advanced Functional Materials</i> , 2012 , 22, 4087-4095	15.6	33
349	Enhanced Performance of Bulk Heterojunction Solar Cells Using Novel Alternating Phenylenevinylene Copolymers of Low Band Gap with Cyanovinylene 4-Nitrophenyls. <i>Macromolecules</i> , 2010 , 43, 5544-5553	5.5	33
348	New photosensitizer with phenylenebisthiophene central unit and cyanovinylene 4-nitrophenyl terminal units for dye-sensitized solar cells. <i>Electrochimica Acta</i> , 2011 , 56, 5616-5623	6.7	33
347	Bandgap modulation in efficient n-thiophene absorbers for dye solar cell sensitization. <i>ChemPhysChem</i> , 2010 , 11, 245-50	3.2	33
346	Synthesis and photoinduced intramolecular processes of fulleropyrrolidine-oligothienylenevinylene-ferrocene triads. <i>Chemistry - A European Journal</i> , 2007 , 13, 3924-33	4.8	33
345	Microwave irradiation: an important tool to functionalize fullerenes and carbon nanotubes. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007 , 10, 766-82	1.3	33
344	Charge conduction mechanism and photovoltaic properties of 1,2-diazoamino diphenyl ethane (DDE) based schottky device. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2003 , 104, 15-25	3.1	33
343	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

342	Solvent Annealing Control of Bulk Heterojunction Organic Solar Cells with 6.6% Efficiency Based on a Benzodithiophene Donor Core and Dicyano Acceptor Units. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 20871-20879	3.8	32
341	Delocalization-to-localization charge transition in diferrocenyl-oligothienylene-vinylene molecular wires as a function of the size by Raman spectroscopy. <i>Journal of the American Chemical Society</i> , 2012 , 134, 5675-81	16.4	31
340	Synthesis and characterization of a low band gap quinoxaline based D π A copolymer and its application as a donor for bulk heterojunction polymer solar cells. <i>Polymer Chemistry</i> , 2013 , 4, 4033	4.9	31
339	Triplication of the photocurrent in dye solar cells by increasing the elongation of the π conjugation in Zn-porphyrin sensitizers. <i>ChemPhysChem</i> , 2011 , 12, 961-5	3.2	31
338	Electron transfer in nonpolar solvents in fullerodendrimers with peripheral ferrocene units. <i>Chemistry - A European Journal</i> , 2006 , 12, 5149-57	4.8	31
337	New acceptor π porphyrin π acceptor systems for solution-processed small molecule organic solar cells. <i>Dyes and Pigments</i> , 2015 , 121, 109-117	4.6	30
336	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
335	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
334	Novel Broadly Absorbing Sensitizers with Cyanovinylene 4-Nitrophenyl Segments and Various Anchoring Groups: Synthesis and Application for High-Efficiency Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12355-12363	3.8	30
333	Synthesis of dumbbell-shaped bis-(pyrazolino[60]fullerene)-oligophenylenevinylene derivatives. <i>Tetrahedron Letters</i> , 2002 , 43, 7507-7511	2	30
332	Diels-Alder cycloaddition of vinylpyrazoles. Synergy between microwave irradiation and solvent-free conditions. <i>Tetrahedron</i> , 1996 , 52, 9237-9248	2.4	30
331	"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
330	New soluble porphyrin bearing a pyridinylethynyl group as donor for bulk heterojunction solar cells. <i>Organic Electronics</i> , 2013 , 14, 1811-1819	3.5	29
329	Effect of solvent and subsequent thermal annealing on the performance of phenylenevinylene copolymer: PCBM solar cells. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 504-10	9.5	29
328	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
327	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
326	Synthesis of a Broadly Absorbing Modified PCBM and Application As Electron Acceptor with Poly(3-Hexylthiophene) As Electron Donor in Efficient Bulk Heterojunction Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7806-7816	3.8	28
325	Synthesis of benzoselenadiazole-based small molecule and phenylenevinylene copolymer and their application for efficient bulk heterojunction solar cells. <i>Organic Electronics</i> , 2010 , 11, 311-321	3.5	28

324	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
323	Characterization of PVA/CuI polymer composites as electron donor for photovoltaic application. <i>Optik</i> , 2013 , 124, 1624-1631	2.5	27
322	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
321	(4 + 2) and (2 + 2) Cycloadditions of Benzyne to C60 and Zig-Zag Single-Walled Carbon Nanotubes: The Effect of the Curvature. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 1716-1726	3.8	26
320	A mono(carboxy)porphyrin-triazine-(bodipy)2 triad as a donor for bulk heterojunction organic solar cells. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 6209-6217	7.1	26
319	Donor-acceptor-acceptor based charge transfer chromophore as electron donors for solution processed small molecule organic bulk heterojunction solar cells. <i>Organic Electronics</i> , 2015 , 19, 76-82	3.5	26
318	Synthesis of new low band gap dyes with BF ₂ -zopyrrole complex and their use for dye-sensitized solar cells. <i>Journal of Power Sources</i> , 2010 , 195, 5391-5398	8.9	26
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173	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
172	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
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170	Characterization of metal-free D-(π A) ₂ organic dye and its application as cosensitizer along with N719 dye for efficient dye-sensitized solar cells. <i>Indian Journal of Physics</i> , 2015 , 89, 1041-1050	1.4	10
169	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
168	Photovoltaic properties of low band gap copolymers based on phenylenevinylene donor and cyanovinylene 4-nitrophenyl acceptor units. <i>Organic Electronics</i> , 2012 , 13, 252-263	3.5	10
167	Photovoltaic properties of bulk heterojunction devices based on CuI-PVA as electron donor and PCBM and modified PCBM as electron acceptor. <i>Materials Science-Poland</i> , 2012 , 30, 10-16	0.6	10
166	Optical, electrical and photovoltaic properties of thermally annealed PPHT:DDE blend thin films. <i>Journal of Physics and Chemistry of Solids</i> , 2008 , 69, 2639-2651	3.9	10
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158	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
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147	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
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143	Synthesis, optical and electrochemical properties new donor-acceptor (D-A) copolymers based on benzo[1,2-b:3,4-b':6,5-b''] trithiophene donor and different acceptor units: Application as donor for photovoltaic devices. <i>Organic Electronics</i> , 2015 , 17, 167-177	3.5	8
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50	Indole-based A ⁺ A ⁻ D ⁺ A ⁻ 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
49	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
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47	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
46	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
45	Free-base porphyrin and [60]fullerene linked by oligomeric ethylenedioxythienylenevinylene bridge. <i>Journal of Porphyrins and Phthalocyanines</i> , 2015 , 19, 404-410	1.8	2
44	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
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41	Application of Microwave Irradiation in Carbon Nanostructures 2013 , 1059-1098		2
40	Application of Microwave Irradiation in Fullerene and Carbon Nanotube Chemistry 931-958		2
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38	Electrical conduction mechanism in crystal violet dye sensitised with AgI. <i>Journal Physics D: Applied Physics</i> , 1983 , 16, 1977-1983	3	2
37	Photovoltaic and rectification properties of SnO ₂ /malachite green + crystal violet dye/copper system. <i>Journal of Materials Science Letters</i> , 1984 , 3, 271-274		2

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35	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
34	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
33	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
32	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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30	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
29	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
28	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 Polymer Science Part A</i> , 2018 , 56, 1297-1307	2.5	1
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26	Vibrational spectra of oligothieryl-vinylenes with donor-donor and donor-acceptor substitution patterns. <i>Journal of Molecular Structure</i> , 2007 , 834-836, 374-379	3.4	1
25	Charge conduction process and photovoltaic effect in ITO/ArV/CHR/In pñ junction device. <i>Synthetic Metals</i> , 2001 , 124, 399-405	3.6	1
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23	Synthesis and electronic properties of pyridine end-capped cyclopentadithiophene-vinylene oligomers.. <i>RSC Advances</i> , 2020 , 10, 41264-41271	3.7	1
22	Regioselective preparation of a bis-pyrazolinofullerene by a macrocyclization reaction. <i>Chemical Communications</i> , 2016 , 52, 13205-13208	5.8	1
21	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
20	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
19	[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

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7	4,8-bis(dodecyloxy)benzo[1,2-b:4,5-b']dithiophene/4,6-di(3,4-diethylthien-2-yl)-thieno[3,4-c][1,2,5]thiadiazole derivatives for photovoltaic applications. <i>Polymer Science - Series B</i> , 2013 , 55, 373-381 Fullerene-Rich Nanostructures 699-714		
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