Fernando Langa

List of Publications by Year
in descending order

469 papers	11,531 citations	38742 50 h-index	82547 72 g-index
474 all docs	474 docs citations	474 times ranked	10326 citing authors

#	Article	IF	Citations
1	New wide-bandgap Dâ€“A polymer based on pyrrolo[3,4-<i>b</i>]dithieno[2,3-<i>f</i>:3â€²,2â€²-<i>h</i>]quinoxalindione and thiazole functionalized benzo[1,2-<i>b</i>:4,5-<i>b</i>â€²]dithiophene units for high-performance ternary organic solar cells with over 16% efficiency. Sustainable Energy and Fuels, 2022, 6, 682-692.	4.9	1
2	Noncovalent Conformational Locks Enabling Efficient Nonfullerene Acceptors. Solar Rrl, 2022, 6, 2100768.	5.8	13
3	Truxene Ï€-Expanded BODIPY Star-Shaped Molecules as Acceptors for Non-Fullerene Solar Cells with over 13% Efficiency. ACS Applied Energy Materials, 2022, 5, 2279-2289.	5.1	23
4	New Medium Bandgap Donor Dâ€A₁â€Dâ€A₂ Type Copolymers Based on Anthra[1,2â€b:4,3â€bâ€œ:6,7â€câ€'] Trithiopheneâ€8,12â€dione Groups for Highâ€Efficient Nonâ€Fullerene Polymer Solar Cells. Macromolecular Rapid Communications, 2022, 43, e2100839.	3.9	9
5	Efficient ternary bulk heterojunction organic solar cells using a low-cost nonfullerene acceptor. Journal of Materials Chemistry C, 2022, 10, 4372-4382.	5.5	5
6	Gold(III) Porphyrin Was Used as an Electron Acceptor for Efficient Organic Solar Cells. ACS Applied Materials & Interfaces, 2022, 14, 11708-11717.	8.0	11
7	Novel Pyrrolo [3,4â€b] Dithieno [3, 2â€f:2â€³,3â€³â€h] Quinoxalineâ€8,10 (9H)â€Dione Based Wide Bandgap Conjugated Copolymers for Bulk Heterojunction Polymer Solar Cells. Macromolecular Rapid Communications, 2022, 43, e2200060.	3.9	4
8	Efficient Medium Bandgap Electron Acceptor Based on Diketopyrrolopyrrole and Furan for Efficient Ternary Organic Solar Cells. ACS Applied Materials & Interfaces, 2022, , .	8.0	7
9	Synthesis of Dâ€A copolymers based on thiadiazole and thiazolothiazole acceptor units and their applications in ternary polymer solar cells. Journal of Polymer Science, 2022, 60, 2086-2099.	3.8	6
10	New wide band gap Ï€-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 %. Polymer, 2022, 251, 124892.	3.8	6
11	Efficient Ternary Polymer Solar Cells Employing Well Matched Medium Band Gap and Narrow Band Gap Nonfullerene Acceptors. ACS Applied Energy Materials, 2022, 5, 7813-7821.	5.1	5
12	Bulk Heterojunction Solar Cells: Porphyrins, Dpps and Bodipys As Building Blocks for Efficient Donor Materials. ECS Meeting Abstracts, 2022, MA2022-01, 2484-2484.	0.0	0
13	Molecular Engineering of Low-Bandgap Porphyrins for Highly Efficient Organic Solarcells. ECS Meeting Abstracts, 2022, MA2022-01, 981-981.	0.0	0
14	Reducing Energy Loss in Organic Solar Cells by Changing the Central Metal in Metalloporphyrins. ChemSusChem, 2021, 14, 3494-3501.	6.8	5
15	Energy-level modulation of coumarin-based molecular donors for efficient all small molecule fullerene-free organic solar cells. Journal of Materials Chemistry A, 2021, 9, 1563-1573.	10.3	18
16	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 0.55â€‰eV. Energy Technology, 2021, 9, 2000926.	3.8	2
17	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. Doklady Physical Chemistry, 2021, 496, 1-7.	0.9	1
18	A ternary organic solar cell with 15.6% efficiency containing a new DPP-based acceptor. Journal of Materials Chemistry C, 2021, 9, 16272-16281.	5.5	17

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19	Fullerene/Non-fullerene Alloy for High-Performance All-Small-Molecule Organic Solar Cells. ACS Applied Materials & Interfaces, 2021, 13, 6461-6469.	8.0	17
20	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%. Solar Energy, 2021, 216, 217-224.	6.1	15
21	Ternary Polymer Solar Cells with High Open Circuit Voltage containing Fullerene and New Thieno[3',2',6,7][1]Benzothieno[3,2â€b]Thieno[3,2â€g][1]Benzothiopheneâ€based Nonâ€fullerene Small Molecule Acceptor. Energy Technology, 2021, 9, 2001100.	3.8	6
22	Highly Efficient (>15%) Organic Solar Cells Based on Porphyrins. ECS Meeting Abstracts, 2021, MA2021-01, 770-770.	0.0	0
23	Highly Efficient (15.08%) All-Small-Molecule Ternary Solar Cells Constructed with a Porphyrin as a Donor and Two Acceptors. ACS Applied Energy Materials, 2021, 4, 4498-4506.	5.1	18
24	(Invited) Heteroatom Functionalization of N- and B-Doped Graphene. ECS Meeting Abstracts, 2021, MA2021-01, 625-625.	0.0	0
25	Efficient Ternary Organic Solar Cells (>14%) Enabled By Non-Fullerene Acceptors. ECS Meeting Abstracts, 2021, MA2021-01, 691-691.	0.0	0
26	New Dithiazole Side Chain Benzodithiophene Containing Dâ€"A Copolymers for Highly Efficient Nonfullerene Solar Cells. Macromolecular Chemistry and Physics, 2021, 222, 2100053.	2.2	6
27	Influence of the dipole moment on the photovoltaic performance of polymer solar cells employing non-fullerene small molecule acceptor. Solar Energy, 2021, 221, 393-401.	6.1	13
28	Self-Assembly-Directed Organization of a Fullereneâ€"Bisporphyrin into Supramolecular Giant Donut Structures for Excited-State Charge Stabilization. Journal of the American Chemical Society, 2021, 143, 11199-11208.	13.7	6
29	Highâ€Performance Fullerene Free Polymer Solar Cells Based on New Thiazole â€Functionalized Benzo[1,2â€b:4,5â€bâ€²]dithiophene Dâ€A Copolymer Donors. ChemistrySelect, 2021, 6, 7025-7036.	1.5	1
30	Incorporation of a Guaiacolâ€Based Small Molecule Guest Donor Enables Efficient Nonfullerene Acceptorâ€Based Ternary Organic Solar Cells. Solar Rrl, 2021, 5, 2100402.	5.8	8
31	High-efficiency fullerene free ternary organic solar cells based with two small molecules as donor. Optical Materials, 2021, 118, 111217.	3.6	2
32	Fullerene-Free All-Small-Molecule Ternary Organic Solar Cells with Two Compatible Fullerene-Free Acceptors and a Coumarin Donor Enabling a Power Conversion Efficiency of 14.5%. ACS Applied Energy Materials, 2021, 4, 11537-11544.	5.1	7
33	Binary and Ternary Polymer Solar Cells Based on a Wide Bandgap Dâ€A Copolymer Donor and Two Nonfullerene Acceptors with Complementary Absorption Spectral. ChemSusChem, 2021, 14, 4731-4740.	6.8	3
34	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 0.53Â eV. Materials Today Energy, 2021, 21, 100843.	4.7	4
35	Performance analysis of TiO2 based dye sensitized solar cell prepared by screen printing and doctor blade deposition techniques. Solar Energy, 2021, 226, 9-19.	6.1	26
36	New BODIPY derivatives with triarylamine and truxene substituents as donors for organic bulk heterojunction photovoltaic cells. Solar Energy, 2021, 227, 354-364.	6.1	12

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37	Prediction of non-radiative voltage losses in organic solar cells using machine learning. Solar Energy, 2021, 228, 175-186.	6.1	13
38	Efficient ternary polymer solar cell using wide bandgap conjugated polymer donor with two nonâ€fullerene small molecule acceptors enabled power conversion efficiency of 16% with low energy loss of 0.47 eV. Nano Select, 2021, 2, 1326-1335.	3.7	2
39	Enhanced electronic communication through a conjugated bridge in a porphyrinâ€“fullerene donorâ€“acceptor couple. Journal of Materials Chemistry C, 2021, 9, 10889-10898.	5.5	3
40	Effect of Mesogenic Side Groups on the Redox, Photophysical, and Solar Cell Properties of Diketopyrrolopyrrole<i>-trans</i>-bis(diphosphine)diethynylplatinum(II) Polymers. ACS Applied Polymer Materials, 2021, 3, 1087-1096.	4.4	6
41	Semitransparent organic solar cells: from molecular design to structureâ€“performance relationships. Journal of Materials Chemistry C, 2021, 10, 13-43.	5.5	25
42	Ternary Organic Solar Cell with a Nearâ€Infrared Absorbing Selenopheneâ€“Diketopyrrolopyrroleâ€Based Nonfullerene Acceptor and an Efficiency above 10%. Solar Rrl, 2020, 4, 1900471.	5.8	21
43	Synthesis and Photovoltaic Investigation of 8,10-Bis(2-octyldodecyl)-8,10-dihydro-9<i>H</i>-bisthieno[2â€²,3â€²:7,8;3â€³,2â€³:5,6] naphtho[2,3-<i>d</i>]imidazol-9-one Based Conjugated Polymers Using a Nonfullerene Acceptor. ACS Applied Energy Materials, 2020, 3, 495-505.	5.1	10
44	A bis(diketopyrrolopyrrole) dimer-containing ligand in platinum(<scp>ii</scp>) polyyne oligomers exhibiting ultrafast photoinduced electron transfer with PCBM and solar cell properties. Journal of Materials Chemistry C, 2020, 8, 2363-2380.	5.5	7
45	New Conjugated Polymers Based on Dithieno[2,3â€e:3â€²,2â€²â€g]Isoindoleâ€7,9(8H)â€Dione Derivatives for Applications in Nonfullerene Polymer Solar Cells. Solar Rrl, 2020, 4, 1900475.	5.8	7
46	Indole-based Aâ€“DAâ€²Dâ€“A type acceptor-based organic solar cells achieve efficiency over 15 % with low energy loss. Sustainable Energy and Fuels, 2020, 4, 6203-6211.	4.9	8
47	Polymer solar cell based on ternary active layer consists of medium bandgap polymer and two non-fullerene acceptors. Solar Energy, 2020, 207, 1427-1433.	6.1	4
48	Panchromatic Triple Organic Semiconductor Heterojunctions for Efficient Solar Cells. ACS Applied Energy Materials, 2020, 3, 12506-12516.	5.1	4
49	Synthesis and electronic properties of pyridine end-capped cyclopentadithiophene-vinylene oligomers. RSC Advances, 2020, 10, 41264-41271.	3.6	4
50	Enhancement of photovoltaic efficiency through fine adjustment of indaceneâ€based nonâ€fullerene acceptor by minimal chlorination for polymer solar cells. Nano Select, 2020, 1, 320-333.	3.7	11
51	Impacts of a second acceptor on the energy loss, blend morphology and carrier dynamics in non-fullerene ternary polymer solar cells. Journal of Materials Chemistry C, 2020, 8, 11727-11734.	5.5	5
52	Ternary Allâ€Smallâ€Molecule Solar Cells with Two Smallâ€Molecule Donors and Y6 Nonfullerene Acceptor with a Power Conversion Efficiency over Above 14% Processed from a Nonhalogenated Solvent. Solar Rrl, 2020, 4, 2000460.	5.8	13
53	New Highâ€Bandgap 8,10â€Dihydroâ€9 H â€Bistieno[2â€²,3â€²:7.8;3â€³,2â€³:5.6]Naphtho[2,3â€d] Imidazoleâ€9â€Oneâ€Based Donorâ€“Acceptor Copolymers for Nonfullerene Polymer Solar Cells. Energy Technology, 2020, 8, 2000611.	3.8	2
54	Aâ€“DAâ€²Dâ€“A Nonfullerene Acceptor Obtained by Fine-Tuning Side Chains on Pyrroles Enables PBDB-T-Based Organic Solar Cells with over 14% Efficiency. ACS Applied Energy Materials, 2020, 3, 11981-11991.	5.1	8

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55	Ternary Allâ€Smallâ€Molecule Solar Cells with Two Smallâ€Molecule Donors and Y6 Nonfullerene Acceptor with a Power Conversion Efficiency over Above 14% Processed from a Nonhalogenated Solvent. Solar Rrl, 2020, 4, 2070115.	5.8	0
56	Synthesis and Optical and Electrochemical Properties of Novel Random Terpolymers Based on Diketopyrrolopyrrole and Benzodithiazole/Quinoxaline Units for Polymer Solar Cells. Doklady Chemistry, 2020, 490, 6-10.	0.9	0
57	Plasmonic effects of copper nanoparticles in polymer photovoltaic devices for outdoor and indoor applications. Applied Physics Letters, 2020, 116, .	3.3	34
58	Carbazole-based green and blue-BODIPY dyads and triads as donors for bulk heterojunction organic solar cells. Dalton Transactions, 2020, 49, 5606-5617.	3.3	34
59	Cardanol- and Guaiacol-Sourced Solution-Processable Green Small Molecule-Based Organic Solar Cells. ACS Sustainable Chemistry and Engineering, 2020, 8, 5891-5902.	6.7	14
60	Highly efficient ternary polymer solar cell with two non-fullerene acceptors. Solar Energy, 2020, 199, 530-537.	6.1	8
61	The influence of the terminal acceptor and oligomer length on the photovoltaic properties of Aâ€"Dâ€"A small molecule donors. Journal of Materials Chemistry C, 2020, 8, 4763-4770.	5.5	15
62	Synthesis and Photovoltaic Properties of New Conjugated Dâ€A Polymers Based on the Same Fluoroâ€Benzothiadiazole Acceptor Unit and Different Donor Units. ChemistrySelect, 2020, 5, 853-863.	1.5	6
63	Triplet photosensitizer-nanotube conjugates: synthesis, characterization and photochemistry of charge stabilizing, palladium porphyrin/carbon nanotube conjugates. Nanoscale, 2020, 12, 9890-9898.	5.6	10
64	Synthesis and Characterization of Wideâ€Bandgap Conjugated Polymers Consisting of Same Electron Donor and Different Electronâ€Deficient Units and Their Application for Nonfullerene Polymer Solar Cells. Macromolecular Chemistry and Physics, 2020, 221, 2000030.	2.2	8
65	(Invited) Heteroatom Functionalization of N- and B-Doped Graphene. ECS Meeting Abstracts, 2020, MA2020-01, 777-777.	0.0	0
66	Improving the Efficient of Porphyrin-Based Organic Solar Cell. ECS Meeting Abstracts, 2020, MA2020-01, 904-904.	0.0	0
67	New Donorâ€"Acceptor Random Terpolymers with Wide Absorption Spectra of 300â€"1000 nm for Photovoltaic Applications. Doklady Physical Chemistry, 2020, 495, 196-200.	0.9	1
68	Tuning of structural and optical properties of Au nanoparticles in amorphous-carbon. Physica Scripta, 2020, 95, 105002.	2.5	1
69	Self-Assembly Directed Organization of Fullerene-Bisporphyrins into Supramolecular Donut Structures for Excited State Charge Stabilization. ECS Meeting Abstracts, 2020, MA2020-02, 1086-1086.	0.0	0
70	[All]â€‹<i>S</i>,<i>S</i>â€dioxide Oligoâ€Thienylenevinylenes: Synthesis and Structural/Electronic Shapes from Their Molecular Force Fields. Chemistry - A European Journal, 2019, 25, 464-468.	3.3	1
71	Cycloaddition of Nitrile Oxides to Graphene: a Theoretical and Experimental Approach. Chemistry - A European Journal, 2019, 25, 14644-14650.	3.3	9
72	A bacteriochlorin-diketopyrrolopyrrole triad as a donor for solution-processed bulk heterojunction organic solar cells. Journal of Materials Chemistry C, 2019, 7, 9655-9664.	5.5	5

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73	Modulating charge carrier density and mobility in doped graphene by covalent functionalization. Chemical Communications, 2019, 55, 9999-10002.	4.1	7
74	Bidirectional charge-transfer behavior in carbon-based hybrid nanomaterials. Nanoscale, 2019, 11, 14978-14992.	5.6	20
75	Occurrence of excited state charge separation in a N-doped grapheneâ€"perylenediimide hybrid formed <i>via</i> â€˜clickâ€™ chemistry. Nanoscale Advances, 2019, 1, 4009-4015.	4.6	4
76	NIR absorbing <i>ortho</i>-Ï€-extended perylene bisimide as a promising material for bulk heterojunction organic solar cells. Journal of Materials Chemistry A, 2019, 7, 3012-3017.	10.3	5
77	Thermally induced plasmonic resonance of Cu nanoparticles in fullerene C70 matrix. Vacuum, 2019, 159, 423-429.	3.5	5
78	Near-IR Absorbing Dâ€"Aâ€"D Zn-Porphyrin-Based Small-Molecule Donors for Organic Solar Cells with Low-Voltage Loss. ACS Applied Materials & Interfaces, 2019, 11, 7216-7225.	8.0	27
79	Conjugated random terpolymers based on benzodithiophene, diketopyrrolopyrrole, and 8,10â€•bis(thiophenâ€²2â€•yl)â€²2,5â€•di(nonadecanâ€³3â€•yl)bis[1,3]thiazolo[4,5â€•f :5â€²,4â€²â€•h]thieno[3,4â€•b]quinoxaline for Efficient Polymer Solar Cell. Journal of Polymer Science Part A, 2019, 57, 1478-1485.	2.3	5
80	Evolution of SPR in 120ÂMeV silver ion irradiated Cu (18%) C60 nanocomposites thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 8301-8311.	2.2	2
81	Increase in efficiency on using selenophene instead of thiophene in Ï€-bridges for D-Ï€-DPP-Ï€-D organic solar cells. Journal of Materials Chemistry A, 2019, 7, 11886-11894.	10.3	29
82	Random D1â€"A1â€"D1â€"A2 terpolymers based on diketopyrrolopyrrole and benzothiadiazolequinoxaline (BTQx) derivatives for high-performance polymer solar cells. New Journal of Chemistry, 2019, 43, 5325-5334.	2.8	9
83	Butterfly architecture of NIR Aza-BODIPY small molecules decorated with phenothiazine or phenoxazine. Chemical Communications, 2019, 55, 12535-12538.	4.1	22
84	Phenothiazine-based small molecules for bulk heterojunction organic solar cells; variation of side-chain polarity and length of conjugated system. Organic Electronics, 2019, 65, 232-242.	2.6	19
85	An all-small-molecule organic solar cell derived from naphthalimide for solution-processed high-efficiency nonfullerene acceptors. Journal of Materials Chemistry C, 2019, 7, 709-717.	5.5	15
86	New indolo carbazole-based non-fullerene n-type semiconductors for organic solar cell applications. Journal of Materials Chemistry C, 2019, 7, 543-552.	5.5	26
87	Synthesis and modification of Cu-C70 nanocomposite for plasmonic applications. Applied Surface Science, 2019, 466, 615-627.	6.1	6
88	(Invited) Self-Assemble of Supramolecular Polymers of Porphyrin-Bisfulleropyrazoline Tweezers. ECS Meeting Abstracts, 2019, , .	0.0	0
89	Structural Design of Porphyrins for Binary and Ternary Organic Solar Cells with High Efficiency and Low Energy Loss. ECS Meeting Abstracts, 2019, , .	0.0	0
90	Optical properties of Cu-C70nanocomposite under low energy ion irradiation. Materials Research Express, 2018, 5, 035044.	1.6	11

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91	Increased Efficiency of Dyeâ€Sensitized Solar Cells by Incorporation of a Ï€ Spacer in Donorâ€"Acceptor Zinc Porphyrins Bearing Cyanoacrylic Acid as an Anchoring Group. European Journal of Inorganic Chemistry, 2018, 2018, 2369-2379.	2.0	8
92	Low Energy Loss of 0.57 eV and High Efficiency of 8.80% in Porphyrin-Based BHJ Solar Cells. ACS Applied Energy Materials, 2018, 1, 1304-1315.	5.1	15
93	Benzothiadiazole Substituted Semiconductor Molecules for Organic Solar Cells: The Effect of the Solvent Annealing Over the Thin Film Hole Mobility Values. Journal of Physical Chemistry C, 2018, 122, 13782-13789.	3.1	14
94	Effect of high energy ions on the electrical and morphological properties of Poly(3-Hexylthiophene) (P3HT) thin film. Physica B: Condensed Matter, 2018, 537, 306-313.	2.7	5
95	Synthesis and photovoltaic properties of new Dâ€A copolymers based on 5,6â€bis(2â€ethylhexyl)naphtha[2,1â€b:3,4â€bâ€²]dithiopheneâ€2,9â€diyl] donor and fluorine substituted 6,7â€bis(9,9â€didodecylâ€9hâ€fluorenâ€2â€yl)[1,2,5] thiadiazolo[3,4â€g]quinoxaline acceptor units. Journal of Polymer Science Part A, 2018, 56, 1297-1307.	2.3	2
96	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. Journal of Materials Chemistry A, 2018, 6, 11714-11724.	10.3	49
97	BODIPYâ€"diketopyrrolopyrroleâ€"porphyrin conjugate small molecules for use in bulk heterojunction solar cells. Journal of Materials Chemistry A, 2018, 6, 8449-8461.	10.3	45
98	Edge-on and face-on functionalized Pc on enriched semiconducting SWCNT hybrids. Nanoscale, 2018, 10, 5205-5213.	5.6	18
99	Low energy ion irradiation studies of fullerene C 70 thin films â€" An emphasis on mapping the local structure modifications. Journal of Physics and Chemistry of Solids, 2018, 117, 204-214.	4.0	9
100	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. Physical Chemistry Chemical Physics, 2018, 20, 6321-6329.	2.8	23
101	Asymmetric triphenylamineâ€"phenothiazine based small molecules with varying terminal acceptors for solution processed bulk-heterojunction organic solar cells. Physical Chemistry Chemical Physics, 2018, 20, 6390-6400.	2.8	16
102	Synthesis and characterization of zinc carboxyâ€"porphyrin complexes for dye sensitized solar cells. New Journal of Chemistry, 2018, 42, 8151-8159.	2.8	10
103	Porphyrin Antenna-Enriched BODIPYâ€"Thiophene Copolymer for Efficient Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 992-1004.	8.0	28
104	Polymer solar cells based on Dâ€"A low bandgap copolymers containing fluorinated side chains of thiadiazoloquinoxaline acceptor and benzodithiophene donor units. New Journal of Chemistry, 2018, 42, 1626-1633.	2.8	8
105	Effect of acceptor strength on optical, electrochemical and photovoltaic properties of phenothiazine-based small molecule for bulk heterojunction organic solar cells. Dyes and Pigments, 2018, 149, 830-842.	3.7	26
106	Oligothienylenevinylene Polarons and Bipolarons Confined between Electronâ€Accepting Perchlorotriphenylmethyl Radicals. Chemistry - A European Journal, 2018, 24, 3776-3783.	3.3	4
107	Modulation of the power conversion efficiency of organic solar cells <i>via</i> architectural variation of a promising non-fullerene acceptor. Journal of Materials Chemistry A, 2018, 6, 574-582.	10.3	13
108	Photovoltaic Properties of a Porphyrinâ€Containing Polymer as Donor in Bulk Heterojunction Solar Cells With Low Energy Loss. Solar Rrl, 2018, 2, 1700168.	5.8	13

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109	Optimization of the Donor Material Structure and Processing Conditions to Obtain Efficient Smallâ€Molecule Donors for Bulk Heterojunction Solar Cells. ChemPhotoChem, 2018, 2, 81-88.	3.0	1
110	Dithienosiloleâ€“phenylquinoxalineâ€based copolymers with Aâ€Dâ€Aâ€D and Aâ€D structures for polymer solar cells. Journal of Polymer Science Part A, 2018, 56, 376-386.	2.3	6
111	New iridium-containing conjugated polymers for polymer solar cell applications. New Journal of Chemistry, 2018, 42, 17296-17302.	2.8	9
112	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. Chemical Communications, 2018, 54, 14144-14147.	4.1	19
113	Reduced Energy Offsets and Low Energy Losses Lead to Efficient (âˆ¼10% at 1 sun) Ternary Organic Solar Cells. ACS Energy Letters, 2018, 3, 2418-2424.	17.4	20
114	Fabrication of efficient dye-sensitized solar cells with photoanode containing TiO2â€“Au and TiO2â€“Ag plasmonic nanocomposites. Journal of Materials Science: Materials in Electronics, 2018, 29, 18209-18220.	2.2	15
115	Panchromatic ternary organic solar cells with 9.44% efficiency incorporating porphyrin-based donors. Nanoscale, 2018, 10, 12100-12108.	5.6	18
116	Selective Screening of Biological Thiols by Means of an Unreported Magenta Interaction and Evaluation Using Smartphones. ACS Omega, 2018, 3, 6617-6623.	3.5	2
117	Nonfullerene Polymer Solar Cells Reaching a 9.29% Efficiency Using a BODIPY-Thiophene Backboned Donor Material. ACS Applied Energy Materials, 2018, 1, 3359-3368.	5.1	22
118	Regioselectivity of the Pausonâ€“Khand reaction in single-walled carbon nanotubes. Nanoscale, 2018, 10, 15078-15089.	5.6	11
119	Low energy ion irradiation induced SPR of Cu-Fullerene C70 nanocomposite thin films. Journal of Alloys and Compounds, 2018, 767, 733-744.	5.5	13
120	Efficient Non-polymeric Heterojunctions in Ternary Organic Solar Cells. ACS Applied Energy Materials, 2018, 1, 4203-4210.	5.1	7
121	Investigation of C60 and C70 fullerenes under low energy ion impact. Journal of Materials Science: Materials in Electronics, 2018, 29, 14762-14773.	2.2	5
122	Enhanced efficiency of PbS quantum dot-sensitized solar cells using plasmonic photoanode. Journal of Nanoparticle Research, 2018, 20, 1.	1.9	9
123	Low Energy Gap Triphenylamineâ€“Heteropentaceneâ€“Dicyanovinyl Triad for Solution-Processed Bulk-Heterojunction Solar Cells. Journal of Physical Chemistry C, 2018, 122, 11262-11269.	3.1	8
124	Corrole-BODIPY Dyad as Small-Molecule Donor for Bulk Heterojunction Solar Cells. ACS Applied Materials & Interfaces, 2018, 10, 31462-31471.	8.0	36
125	N-Doped graphene/C60 covalent hybrid as a new material for energy harvesting applications. Chemical Science, 2018, 9, 8221-8227.	7.4	12
126	(Invited) Synthesis of Graphene-C60 Hybrids. ECS Meeting Abstracts, 2018, , .	0.0	0

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127	Estructural Design of Funcionalized Porphyrins for Very Efficient (> 9%) BHJ Solar Cells. ECS Meeting Abstracts, 2018, , .	0.0	0
128	Synthesis and photovoltaic properties low bandgap D-A copolymers based on fluorinated thiadiazoloquinoxaline. Organic Electronics, 2017, 43, 268-276.	2.6	6
129	Small molecule carbazole-based diketopyrrolopyrroles with tetracyanobutadiene acceptor unit as a non-fullerene acceptor for bulk heterojunction organic solar cells. Journal of Materials Chemistry A, 2017, 5, 3311-3319.	10.3	51
130	Photoexfoliation of two-dimensional materials through continuous UV irradiation. Nanotechnology, 2017, 28, 125604.	2.6	6
131	Ferrocene-diketopyrrolopyrrole based small molecule donors for bulk heterojunction solar cells. Physical Chemistry Chemical Physics, 2017, 19, 7262-7269.	2.8	16
132	(Dâ€“Ï€â€“A)₂â€“Ï€â€“Dâ€“A type ferrocenyl bisthiazole linked triphenylamine based molecular systems for DSSC: synthesis, experimental and theoretical performance studies. Physical Chemistry Chemical Physics, 2017, 19, 8925-8933.	2.8	45
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134	Cyclopentadithiophene-based co-oligomers for solution-processed organic solar cells. Dyes and Pigments, 2017, 143, 112-122.	3.7	6
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