Selvam Subramaniyan

List of Publications by Year
in descending order

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28 papers	2,670 citations	236925 25 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	3363 citing authors

#	Article	IF	Citations
1	Driving Force and Optical Signatures of Bipolaron Formation in Chemically Doped Conjugated Polymers. Advanced Materials, 2021, 33, e2000228.	21.0	21
2	Barbiturate end-capped non-fullerene acceptors for organic solar cells: tuning acceptor energetics to suppress geminate recombination losses. Chemical Communications, 2018, 54, 2966-2969.	4.1	29
3	Low-Vapor-Pressure Solvent Additives Function as Polymer Swelling Agents in Bulk Heterojunction Organic Photovoltaics. Journal of Physical Chemistry C, 2018, 122, 16574-16588.	3.1	17
4	Nonfullerene Polymer Solar Cells with 8.5% Efficiency Enabled by a New Highly Twisted Electron Acceptor Dimer. Advanced Materials, 2016, 28, 124-131.	21.0	250
5	Solar Cells: Fineâ€Tuning the 3D Structure of Nonfullerene Electron Acceptors Toward Highâ€Performance Polymer Solar Cells (Adv. Mater. 21/2015). Advanced Materials, 2015, 27, 3340-3340.	21.0	2
6	Sequential Processing for Organic Photovoltaics: Design Rules for Morphology Control by Tailored Semiâ€Orthogonal Solvent Blends. Advanced Energy Materials, 2015, 5, 1402020.	19.5	82
7	Bis(Naphthalene Imide)diphenylanthrazolines: A New Class of Electron Acceptors for Efficient Nonfullerene Organic Solar Cells and Applicable to Multiple Donor Polymers. Advanced Energy Materials, 2015, 5, 1402041.	19.5	48
8	Fineâ€Tuning the 3D Structure of Nonfullerene Electron Acceptors Toward Highâ€Performance Polymer Solar Cells. Advanced Materials, 2015, 27, 3266-3272.	21.0	158
9	The effects of Ta₂O₅â€“ZnO films as cathodic buffer layers in inverted polymer solar cells. Journal of Materials Chemistry A, 2014, 2, 9361-9370.	10.3	33
10	Naphthobisthiazole diimide-based n-type polymer semiconductors: synthesis, Ï€-stacking, field-effect charge transport, and all-polymer solar cells. Polymer Chemistry, 2014, 5, 5707.	3.9	25
11	Beyond Fullerenes: Design of Nonfullerene Acceptors for Efficient Organic Photovoltaics. Journal of the American Chemical Society, 2014, 136, 14589-14597.	13.7	213
12	Side chain engineering of n-type conjugated polymer enhances photocurrent and efficiency of all-polymer solar cells. Chemical Communications, 2014, 50, 10801.	4.1	62
13	Allâ€Polymer Bulk Heterojuction Solar Cells with 4.8% Efficiency Achieved by Solution Processing from a Coâ€Solvent. Advanced Materials, 2014, 26, 6080-6085.	21.0	161
14	Thiazolothiazole Donorâ€“Acceptor Conjugated Polymer Semiconductors for Photovoltaic Applications. Macromolecules, 2014, 47, 4199-4209.	4.8	35
15	Photoinduced Hole Transfer Becomes Suppressed with Diminished Driving Force in Polymerâ€Fullerene Solar Cells While Electron Transfer Remains Active. Advanced Functional Materials, 2013, 23, 1238-1249.	14.9	101
16	Charge Photogeneration for a Series of Thiazoloâ€Thiazole Donor Polymers Blended with the Fullerene Electron Acceptors PCBM and ICBA. Advanced Functional Materials, 2013, 23, 3286-3298.	14.9	155
17	All-Polymer Solar Cells with 3.3% Efficiency Based on Naphthalene Diimide-Selenophene Copolymer Acceptor. Journal of the American Chemical Society, 2013, 135, 14960-14963.	13.7	363
18	Hole Transfer from Low Band Gap Quantum Dots to Conjugated Polymers in Organic/Inorganic Hybrid Photovoltaics. Journal of Physical Chemistry Letters, 2013, 4, 280-284.	4.6	38

#	Article	IF	Citations
19	Charge generation and energy transfer in hybrid polymer/infrared quantum dot solar cells. Energy and Environmental Science, 2013, 6, 769.	30.8	51
20	Tetraazabenzodifluoranthene Diimides: Building Blocks for Solutionâ€Processable nâ€Type Organic Semiconductors. Angewandte Chemie - International Edition, 2013, 52, 5513-5517.	13.8	154
21	High Mobility Thiazoleâ€“Diketopyrrolopyrrole Copolymer Semiconductors for High Performance Field-Effect Transistors and Photovoltaic Devices. Macromolecules, 2012, 45, 9029-9037.	4.8	70
22	Enhanced Open Circuit Voltage and Efficiency of Donorâ€“Acceptor Copolymer Solar Cells by Using Indene-C60 Bisadduct. Chemistry of Materials, 2012, 24, 1995-2001.	6.7	100
23	Photoinduced Charge Transfer and Polaron Dynamics in Polymer and Hybrid Photovoltaic Thin Films: Organic vs Inorganic Acceptors. Journal of Physical Chemistry C, 2011, 115, 24403-24410.	3.1	74
24	New Thiazolothiazole Copolymer Semiconductors for Highly Efficient Solar Cells. Macromolecules, 2011, 44, 6245-6248.	4.8	72
25	Benzobisthiazole-Based Donorâ€“Acceptor Copolymer Semiconductors for Photovoltaic Cells and Highly Stable Field-Effect Transistors. Macromolecules, 2011, 44, 7207-7219.	4.8	101
26	Effects of Side Chains on Thiazolothiazoleâ€Based Copolymer Semiconductors for High Performance Solar Cells. Advanced Energy Materials, 2011, 1, 854-860.	19.5	183
27	The effect of quantum dot ligand treatements on polaron lifetime and photovoltaic device performance. , 2011, , .		0
28	Air-Stable Ambipolar Field-Effect Transistors and Complementary Logic Circuits from Solution-Processed n/p Polymer Heterojunctions. ACS Applied Materials & Interfaces, 2010, 2, 2974-2977.	8.0	46