

Sergey V Dayneko

List of Publications by Year in descending order

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papers

829
citations

471509

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501196

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38
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docs citations

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942
citing authors

#	ARTICLE	IF	CITATIONS
1	Simply Complex: The Efficient Synthesis of an Intricate Molecular Acceptor for High-Performance Air-Processed and Air-Tested Fullerene-Free Organic Solar Cells. <i>Chemistry of Materials</i> , 2017, 29, 1309-1314.	6.7	98
2	N-Annulated perylene diimide dimers: acetylene linkers as a strategy for controlling structural conformation and the impact on physical, electronic, optical and photovoltaic properties. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2074-2083.	5.5	68
3	Applying direct heteroarylation synthesis to evaluate organic dyes as the core component in PDI-based molecular materials for fullerene-free organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 11623-11633.	10.3	64
4	Fullerene-free polymer solar cells processed from non-halogenated solvents in air with PCE of 4.8%. <i>Chemical Communications</i> , 2017, 53, 1164-1167.	4.1	57
5	Combining Facile Synthetic Methods with Greener Processing for Efficient Polymer Perylene Diimide Based Organic Solar Cells. <i>Small Methods</i> , 2018, 2, 1800081.	8.6	54
6	Indoor Photovoltaics: Photoactive Material Selection, Greener Ink Formulations, and Slot-Die Coated Active Layers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46017-46025.	8.0	51
7	Solution processed red organic light-emitting-diodes using an N-annulated perylene diimide fluorophore. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2314-2319.	5.5	47
8	A non-fullerene acceptor with a diagnostic morphological handle for streamlined screening of donor materials in organic solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 16907-16913.	10.3	39
9	N-annulated perylene diimide dimers: the effect of thiophene bridges on physical, electronic, optical, and photovoltaic properties. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1137-1147.	4.9	36
10	Synthesis of a Perylene Diimide Dimer with Pyrrolic N-H Bonds and F-Functionalized Derivatives for Organic Field-Effect Transistors and Organic Solar Cells. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4592-4599.	2.4	34
11	Ternary organic solar cells: using molecular donor or acceptor third components to increase open circuit voltage. <i>New Journal of Chemistry</i> , 2019, 43, 10442-10448.	2.8	33
12	An unsymmetrical non-fullerene acceptor: synthesis via direct heteroarylation, self-assembly, and utility as a low energy absorber in organic photovoltaic cells. <i>Chemical Communications</i> , 2017, 53, 10168-10171.	4.1	31
13	Hybrid heterostructures based on aromatic polyimide and semiconductor CdSe quantum dots for photovoltaic applications. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	27
14	Interfacial ZnO Modification Using a Carboxylic Acid Functionalized N-Annulated Perylene Diimide for Inverted Type Organic Photovoltaics. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1590-1596.	4.3	23
15	Highly Efficient Quantum Dot Light-Emitting Diodes by Inserting Multiple Poly(methyl methacrylate) as Electron-Blocking Layers. <i>Advanced Functional Materials</i> , 2019, 29, 1906742.	14.9	23
16	Improved performance of solution processed OLEDs using N-annulated perylene diimide emitters with bulky side-chains. <i>Materials Advances</i> , 2021, 2, 933-936.	5.4	20
17	Interlayer Engineering of Flexible and Large-Area Red Organic-Light-Emitting Diodes Based on an N-Annulated Perylene Diimide Dimer. <i>ACS Applied Electronic Materials</i> , 2020, 2, 48-55.	4.3	19
18	Bromination of the benzothioxanthene Bloc: toward new π -conjugated systems for organic electronic applications. <i>Journal of Materials Chemistry C</i> , 2018, 6, 761-766.	5.5	18

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19	Photoconductivity of composites based on CdSe quantum dots and low-band-gap polymers. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 79, 206-211.	2.7	16
20	Application of CdSe/ZnS/CdS/ZnS Core-shell multishell Quantum Dots to Modern OLED Technology. <i>Materials Today: Proceedings</i> , 2016, 3, 211-215.	1.8	15
21	Direct (Hetero)Arylation Polymerization of a Spirobifluorene and a Dithienyl-Diketopyrrolopyrrole Derivative: New Donor Polymers for Organic Solar Cells. <i>Molecules</i> , 2018, 23, 962.	3.8	12
22	Laser-induced luminescence of multilayer structures based on polyimides and CdSe and CdSe/ZnS nanocrystals. <i>Laser Physics Letters</i> , 2009, 6, 718-722.	1.4	10
23	Synthesis, characterization and use of benzothioxanthene imide based dimers. <i>Chemical Communications</i> , 2020, 56, 10131-10134.	4.1	10
24	Effect of surface ligands on the performance of organic light-emitting diodes containing quantum dots. <i>Proceedings of SPIE</i> , 2014, , .	0.8	7
25	A highly efficient white-light-emitting diode based on a two-component polyfluorene/quantum dot composite. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 122, 12-15.	0.6	6
26	A triazatruxene-based molecular dyad for single-component organic solar cells. <i>Chemistry Squared</i> , 0, 2, 3.	0.0	4
27	Hybrid bulk heterojunction solar cells based on low band gap polymers and CdSe nanocrystals. <i>Proceedings of SPIE</i> , 2014, , .	0.8	2
28	Inverted P3HT:PC ₆₁ BM organic solar cells incorporating a π -extended squaraine dye with H- and (or) J-aggregation. <i>Canadian Journal of Chemistry</i> , 2018, 96, 703-711.	1.1	2
29	<title>Laser induced luminescence of dense films of CdSe/ZnS nanoparticles</title>. , 2007, , .		1
30	Engineering of hybrid heterostructures from organic semiconductors and quantum dots for advanced photovoltaic applications. , 2012, , .		1
31	Laser induced photoprocesses in solid thin films of CdSe/ZnS nanoparticles. , 2007, , .		0
32	<title>Anti-Stokes photoluminescence of CdSe/ZnS nanoparticles in solution and condensed phase</title>. , 2007, , .		0
33	The potential of lasing in quantum dots for sensing and diagnostic applications. , 2015, , .		0
34	Luminescence-kinetic spectroscopy of compound complexes of polyphenylquinolines. <i>Semiconductors</i> , 2015, 49, 959-961.	0.5	0
35	Light-Emitting Diodes: Highly Efficient Quantum Dot Light-Emitting Diodes by Inserting Multiple Poly(methyl methacrylate) as Electron-Blocking Layers (<i>Adv. Funct. Mater.</i> 50/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970342.	14.9	0
36	Environment friendly solvent processed, fullerene-free organic solar cells with high efficiency in air. , 2018, , .		0