

Sergey V Dayneko

List of Publications by Year in descending order

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36
papers

829
citations

535685

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1093
citing authors

#	ARTICLE	IF	CITATIONS
1	Improved performance of solution processed OLEDs using <i>N</i> -annulated perylene diimide emitters with bulky side-chains. <i>Materials Advances</i> , 2021, 2, 933-936.	2.6	20
2	Solution processed red organic light-emitting-diodes using an <i>N</i> -annulated perylene diimide fluorophore. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2314-2319.	2.7	47
3	Interlayer Engineering of Flexible and Large-Area Red Organic-Light-Emitting Diodes Based on an <i>N</i> -Annulated Perylene Diimide Dimer. <i>ACS Applied Electronic Materials</i> , 2020, 2, 48-55.	2.0	19
4	Synthesis, characterization and use of benzothioxanthene imide based dimers. <i>Chemical Communications</i> , 2020, 56, 10131-10134.	2.2	10
5	Interfacial ZnO Modification Using a Carboxylic Acid Functionalized <i>N</i> -Annulated Perylene Diimide for Inverted Type Organic Photovoltaics. <i>ACS Applied Electronic Materials</i> , 2019, 1, 1590-1596.	2.0	23
6	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.	7.8	23
7	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.	1.4	33
8	Indoor Photovoltaics: Photoactive Material Selection, Greener Ink Formulations, and Slot-Die Coated Active Layers. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46017-46025.	4.0	51
9	Light-Emitting Diodes: Highly Efficient Quantum Dot Light-Emitting Diodes by Inserting Multiple Poly(methyl methacrylate) as Electron-Blocking Layers (Adv. Funct. Mater. 50/2019). <i>Advanced Functional Materials</i> , 2019, 29, 1970342.	7.8	0
10	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.	0.6	2
11	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.	2.7	18
12	Combining Facile Synthetic Methods with Greener Processing for Efficient Polymer-Perylene Diimide Based Organic Solar Cells. <i>Small Methods</i> , 2018, 2, 1800081.	4.6	54
13	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.	1.7	12
14	Synthesis of a Perylene Diimide Dimer with Pyrrolic N-H Bonds and N-Functionalized Derivatives for Organic Field-Effect Transistors and Organic Solar Cells. <i>European Journal of Organic Chemistry</i> , 2018, 2018, 4592-4599.	1.2	34
15	Environment friendly solvent processed, fullerene-free organic solar cells with high efficiency in air. , 2018, , .		0
16	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.	3.2	98
17	<i>N</i> -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.	2.7	68
18	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.	5.2	64

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19	A highly efficient white-light-emitting diode based on a two-component polyfluorene/quantum dot composite. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2017, 122, 12-15.	0.2	6
20	N-annulated perylene diimide dimers: the effect of thiophene bridges on physical, electronic, optical, and photovoltaic properties. Sustainable Energy and Fuels, 2017, 1, 1137-1147.	2.5	36
21	Fullerene-free polymer solar cells processed from non-halogenated solvents in air with PCE of 4.8%. Chemical Communications, 2017, 53, 1164-1167.	2.2	57
22	An unsymmetrical non-fullerene acceptor: synthesis via direct heteroarylation, self-assembly, and utility as a low energy absorber in organic photovoltaic cells. Chemical Communications, 2017, 53, 10168-10171.	2.2	31
23	A non-fullerene acceptor with a diagnostic morphological handle for streamlined screening of donor materials in organic solar cells. Journal of Materials Chemistry A, 2017, 5, 16907-16913.	5.2	39
24	Application of CdSe/ZnS/CdS/ZnS Core-multishell Quantum Dots to Modern OLED Technology. Materials Today: Proceedings, 2016, 3, 211-215.	0.9	15
25	Photoconductivity of composites based on CdSe quantum dots and low-band-gap polymers. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 79, 206-211.	1.3	16
26	The potential of lasing in quantum dots for sensing and diagnostic applications. , 2015, , .		0
27	Luminescence-kinetic spectroscopy of compound complexes of polyphenylquinolines. Semiconductors, 2015, 49, 959-961.	0.2	0
28	Hybrid bulk heterojunction solar cells based on low band gap polymers and CdSe nanocrystals. Proceedings of SPIE, 2014, , .	0.8	2
29	Effect of surface ligands on the performance of organic light-emitting diodes containing quantum dots. Proceedings of SPIE, 2014, , .	0.8	7
30	Hybrid heterostructures based on aromatic polyimide and semiconductor CdSe quantum dots for photovoltaic applications. Applied Physics Letters, 2013, 103, .	1.5	27
31	Engineering of hybrid heterostructures from organic semiconductors and quantum dots for advanced photovoltaic applications. , 2012, , .		1
32	Laser-induced luminescence of multilayer structures based on polyimides and CdSe and CdSe/ZnS nanocrystals. Laser Physics Letters, 2009, 6, 718-722.	0.6	10
33	Laser induced photoprocesses in solid thin films of CdSe/ZnS nanoparticles. , 2007, , .		0
34	<title>Anti-Stokes photoluminescence of CdSe/ZnS nanoparticles in solution and condensed phase</title>. , 2007, , .		0
35	<title>Laser induced luminescence of dense films of CdSe/ZnS nanoparticles</title>. , 2007, , .		1
36	A triazatruxene-based molecular dyad for single-component organic solar cells. Chemistry Squared, 0, 2, 3.	0.0	4