

# Afshin Dadvand

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

1,446  
citations

516561

16  
h-index

610775

24  
g-index

27  
all docs

27  
docs citations

27  
times ranked

2597  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards "green" electronic materials. $\pi$ -Oligofurans as semiconductors. <i>Chemical Communications</i> , 2011, 47, 1976-1978.	2.2	196
2	Near-IR Photoresponse in New Up-Converting CdSe/NaYF <sub>4</sub> :Yb,Er Nanoheterostructures. <i>Journal of the American Chemical Society</i> , 2010, 132, 8868-8869.	6.6	183
3	Two-Dimensional Structural Motif in Thienoacene Semiconductors: Synthesis, Structure, and Properties of Tetrathienoanthracene Isomers. <i>Chemistry of Materials</i> , 2008, 20, 2484-2494.	3.2	144
4	Maximizing Field-Effect Mobility and Solid-State Luminescence in Organic Semiconductors. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 3837-3841.	7.2	135
5	Halogen bonds in 2D supramolecular self-assembly of organic semiconductors. <i>Nanoscale</i> , 2012, 4, 5965.	2.8	120
6	Multiple NaNbO <sub>3</sub> /Nb <sub>2</sub> O <sub>5</sub> Heterostructure Nanotubes: A New Class of Ferroelectric/Semiconductor Nanomaterials. <i>Advanced Materials</i> , 2010, 22, 1741-1745.	11.1	104
7	Transformation between 2D and 3D Covalent Organic Frameworks via Reversible [2 + 2] Cycloaddition. <i>Journal of the American Chemical Society</i> , 2020, 142, 8862-8870.	6.6	101
8	Oligofuran-containing molecules for organic electronics. <i>Journal of Materials Chemistry C</i> , 2013, 1, 4358.	2.7	77
9	A Two-Dimensional Poly(azatriangulene) Covalent Organic Framework with Semiconducting and Paramagnetic States. <i>Journal of the American Chemical Society</i> , 2020, 142, 2155-2160.	6.6	72
10	Inkjet printed thin and uniform dielectrics for capacitors and organic thin film transistors enabled by the coffee ring effect. <i>Organic Electronics</i> , 2016, 29, 114-119.	1.4	50
11	Environmentally stable light emitting field effect transistors based on 2-(4-pentylstyryl)tetracene. <i>Journal of Materials Chemistry</i> , 2008, 18, 158-161.	6.7	49
12	1,5-, 2,6- and 9,10-distyrylanthracenes as luminescent organic semiconductors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2817.	2.7	48
13	Tuning the Electronic Properties of Poly(thienothiophene vinylene)s via Alkylsulfanyl and Alkylsulfonyl Substituents. <i>Macromolecules</i> , 2013, 46, 9231-9239.	2.2	37
14	Highly Emissive and Electrochemically Stable Thienylene Vinylene Oligomers and Copolymers: An Unusual Effect of Alkylsulfanyl Substituents. <i>Advanced Functional Materials</i> , 2010, 20, 1661-1669.	7.8	22
15	Direct writing of inkjet-printed short channel organic thin film transistors. <i>Organic Electronics</i> , 2017, 51, 485-489.	1.4	16
16	Band gap engineering of donor-acceptor co-crystals by complementary two-point hydrogen bonding. <i>Materials Chemistry Frontiers</i> , 2020, 4, 3669-3677.	3.2	14
17	Hydrogen Bonding Versus $\pi$ -Stacking in Charge-Transfer Co-crystals. <i>Crystal Growth and Design</i> , 2021, 21, 2609-2613.	1.4	13
18	Inkjet printable and low annealing temperature gate-dielectric based on polymethylsilsesquioxane for flexible n-channel OFETs. <i>Organic Electronics</i> , 2016, 30, 213-218.	1.4	12

#	ARTICLE	IF	CITATIONS
19	Perfluoroalkyl-substitution versus electron-deficient building blocks in design of oligothiophene semiconductors. <i>Journal of Materials Chemistry C</i> , 2013, 1, 260-267.	2.7	9
20	Inkjet-printed unipolar n-type transistors on polymer substrates based on dicyanomethylene-substituted diketopyrrolopyrrole quinoidal compounds. <i>Organic Electronics</i> , 2018, 63, 267-275.	1.4	6
21	Improved Circuit Model Fitting of Inkjet-Printed OTFTs and a Proposal for Standardized Parameter Reporting. <i>IEEE Transactions on Electron Devices</i> , 2018, 65, 2485-2491.	1.6	5
22	Serendipitous Formation of Semiconducting Semi-Indigo Indigoid by the Degradation of Diindolopyrrole. <i>Journal of Organic Chemistry</i> , 2020, 85, 5073-5077.	1.7	5
23	3,7-Bis(2-oxoindolin-3-ylidene)benzo[1,2-b:4,5-b']difuran-2,6-dione Dicyanides with Engineered Side Chains for Unipolar n-Type Transistors. <i>ACS Applied Electronic Materials</i> , 2020, 2, 103-110.	2.0	1
24	Halogen bonding vs. $\pi$ -stacking interactions in new bis(acenaphthylene)dione semiconductors. <i>CrystEngComm</i> , 0, , .	1.3	1
25	Generic Parameter Extraction of Inkjet-Printed OTFTs via Optimisation Using LTspice and MATLAB. , 2018, , .		0
26	Artificial Neural Network Modelling and Simulation of Organic Field Effect Transistors and Circuits. , 2019, , .		0