

Alexander S Dudnik

List of Publications by Year in descending order

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28
papers

4,385
citations

236925

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477307

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46
docs citations

46
times ranked

4739
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and Optoelectronic Properties of New Methoxy-Substituted Diketopyrrolopyrrole Polymers. ACS Omega, 2019, 4, 9427-9433.	3.5	10
2	A Freely Soluble, High Electron Affinity Molecular Dopant for Solution Processing of Organic Semiconductors. Chemistry of Materials, 2019, 31, 1500-1506.	6.7	33
3	Suppressing Defect Formation Pathways in the Direct C-H Arylation Polymerization of Photovoltaic Copolymers. Macromolecules, 2018, 51, 9140-9155.	4.8	46
4	Small Molecule Acceptor and Polymer Donor Crystallinity and Aggregation Effects on Microstructure Templating: Understanding Photovoltaic Response in Fullerene-Free Solar Cells. Chemistry of Materials, 2017, 29, 4432-4444.	6.7	67
5	Enhanced Fill Factor through Chalcogen Side-Chain Manipulation in Small-Molecule Photovoltaics. ACS Energy Letters, 2017, 2, 2415-2421.	17.4	18
6	Enhanced Light Absorption in Fluorinated Ternary Small-Molecule Photovoltaics. ACS Energy Letters, 2017, 2, 1690-1697.	17.4	33
7	Tin-Free Direct C-H Arylation Polymerization for High Photovoltaic Efficiency Conjugated Copolymers. Journal of the American Chemical Society, 2016, 138, 15699-15709.	13.7	156
8	All-Polymer Solar Cell Performance Optimized via Systematic Molecular Weight Tuning of Both Donor and Acceptor Polymers. Journal of the American Chemical Society, 2016, 138, 1240-1251.	13.7	276
9	Synthesis of furans and pyrroles via migratory and double migratory cycloisomerization reactions of homopropargylic aldehydes and imines. Tetrahedron Letters, 2015, 56, 3251-3254.	1.4	27
10	Atom-efficient regioselective 1,2-dearomatization of functionalized pyridines by an earth-abundant organolanthanide catalyst. Nature Chemistry, 2014, 6, 1100-1107.	13.6	184
11	Transition Metal-Mediated Synthesis of Monocyclic Aromatic Heterocycles. Chemical Reviews, 2013, 113, 3084-3213.	47.7	886
12	Novel planar and sandwich-type complexes of substituted tetrathieno[2,3-b] porphyrazine: Synthesis and investigation of properties. Dyes and Pigments, 2013, 96, 699-704.	3.7	18
13	Stereocontrolled 1,3-Phosphatylxy and 1,3-Halogen Migration Relay toward Highly Functionalized 1,3-Dienes. Journal of the American Chemical Society, 2012, 134, 6928-6931.	13.7	61
14	Nickel-Catalyzed Coupling Reactions of Alkyl Electrophiles, Including Unactivated Tertiary Halides, To Generate Carbon-Boron Bonds. Journal of the American Chemical Society, 2012, 134, 10693-10697.	13.7	299
15	The Pyridyldiisopropylsilyl Group: A Masked Functionality and Directing Group for Monoselective <i>ortho</i> -Acyloxylation and <i>ortho</i> -Halogenation Reactions of Arenes. Advanced Synthesis and Catalysis, 2011, 353, 1285-1305.	4.3	69
16	Formal Inverse Sonogashira Reaction: Direct Alkynylation of Arenes and Heterocycles with Alkynyl Halides. Angewandte Chemie - International Edition, 2010, 49, 2096-2098.	13.8	324
17	A General Strategy Toward Aromatic 1,2-Ambiphilic Synthons: Palladium-Catalyzed <i>ortho</i> -Halogenation of PyDipSi-Arenes. Angewandte Chemie - International Edition, 2010, 49, 8729-8732.	13.8	96
18	Computation-Guided Development of Au-Catalyzed Cycloisomerizations Proceeding via 1,2-Si or 1,2-H Migrations: Regiodivergent Synthesis of Silylfurans. Journal of the American Chemical Society, 2010, 132, 7645-7655.	13.7	222

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19	On the Validity of Au-vinylidenes in the Gold-Catalyzed 1,2-Migratory Cycloisomerization of Skipped Propargylpyridines. <i>Organic Letters</i> , 2010, 12, 5538-5541.	4.6	94
20	PyDipSi: A General and Easily Modifiable/Traceless Si-Tethered Directing Group for C ^α H Acyloxylation of Arenes. <i>Journal of the American Chemical Society</i> , 2010, 132, 8270-8272.	13.7	187
21	Copper-, Silver-, and Gold-Catalyzed Migratory Cycloisomerizations Leading to Heterocyclic Five-Membered Rings. <i>Aldrichimica Acta</i> , 2010, 43, 37-46.	4.0	60
22	Gold(I)-catalyzed double migration cascades toward (1E,3E)-dienes and naphthalenes. <i>Tetrahedron</i> , 2009, 65, 1859-1870.	1.9	72
23	Gold(I)-catalyzed synthesis of (1E,3E)-dienes from propargylic esters. <i>Journal of Organometallic Chemistry</i> , 2009, 694, 482-485.	1.8	26
24	Metal-Catalyzed 1,2-Shift of Diverse Migrating Groups in Allenyl Systems as a New Paradigm toward Densely Functionalized Heterocycles. <i>Journal of the American Chemical Society</i> , 2008, 130, 1440-1452.	13.7	292
25	Mechanistic Insights into the Gold-Catalyzed Cycloisomerization of Bromoallenyl Ketones: Ligand-Controlled Regioselectivity. <i>Journal of the American Chemical Society</i> , 2008, 130, 6940-6941.	13.7	238
26	Gold-Catalyzed Double Migration-Benzannulation Cascade toward Naphthalenes. <i>Organic Letters</i> , 2008, 10, 1465-1468.	4.6	106
27	Direct Pd-Catalyzed Arylation of 1,2,3-Triazoles. <i>Organic Letters</i> , 2007, 9, 2333-2336.	4.6	221
28	Metal-Catalyzed [1,2]-Alkyl Shift in Allenyl Ketones: Synthesis of Multisubstituted Furans. <i>Angewandte Chemie - International Edition</i> , 2007, 46, 5195-5197.	13.8	219