

James D Wuest

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

66

papers

4,317

citations

27

h-index

65

g-index

74

ext. papers

4,634

ext. citations

9.6

avg, IF

5.82

L-index

#	Paper	IF	Citations
66	Use of hydrogen bonds to control molecular aggregation. Self-assembly of three-dimensional networks with large chambers. <i>Journal of the American Chemical Society</i> , 1991 , 113, 4696-4698	16.4	637
65	Controlling the morphology and performance of bulk heterojunctions in solar cells. Lessons learned from the benchmark poly(3-hexylthiophene):[6,6]-phenyl-C61-butyric acid methyl ester system. <i>Chemical Reviews</i> , 2013 , 113, 3734-65	68.1	516
64	Molecular Tectonics. Porous Hydrogen-Bonded Networks with Unprecedented Structural Integrity. <i>Journal of the American Chemical Society</i> , 1997 , 119, 2737-2738	16.4	400
63	Engineering crystals by the strategy of molecular tectonics. <i>Chemical Communications</i> , 2005 , 5830-7	5.8	349
62	Constructing monocrystalline covalent organic networks by polymerization. <i>Nature Chemistry</i> , 2013 , 5, 830-4	17.6	272
61	Interaction of substituted aromatic compounds with graphene. <i>Langmuir</i> , 2009 , 25, 210-5	4	233
60	Engineering hydrogen-bonded molecular crystals built from derivatives of hexaphenylbenzene and related compounds. <i>Journal of the American Chemical Society</i> , 2007 , 129, 4306-22	16.4	170
59	Frustrated 2D molecular crystallization. <i>Journal of the American Chemical Society</i> , 2007 , 129, 13774-5	16.4	163
58	Use of hydrogen bonds to control molecular aggregation. Extensive, self-complementary arrays of donors and acceptors. <i>Journal of Organic Chemistry</i> , 1988 , 53, 5787-5789	4.2	141
57	Molecular tectonics. Porous hydrogen-bonded networks built from derivatives of 9,9'-spirobifluorene. <i>Journal of Organic Chemistry</i> , 2004 , 69, 1762-75	4.2	114
56	Strong adsorption of aminotriazines on graphene. <i>Chemical Communications</i> , 2010 , 46, 2923-5	5.8	111
55	Dimerization of Aromatic C-Nitroso Compounds. <i>Chemical Reviews</i> , 2016 , 116, 258-86	68.1	70
54	A New Class of Selective Low-Molecular-Weight Gelators Based on Salts of Diaminotriazinecarboxylic Acids. <i>Chemistry of Materials</i> , 2006 , 18, 3616-3626	9.6	70
53	Deformation of porous molecular networks induced by the exchange of guests in single crystals. <i>Journal of the American Chemical Society</i> , 2003 , 125, 14956-7	16.4	69
52	Molecular tectonics: porous cleavable networks constructed by dipole-directed stacking of hydrogen-bonded sheets. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 4021-5	16.4	69
51	Using volatile additives to alter the morphology and performance of active layers in thin-film molecular photovoltaic devices incorporating bulk heterojunctions. <i>Chemical Society Reviews</i> , 2013 , 42, 9105-26	58.5	65
50	Use of Hydrogen Bonds to Control Molecular Aggregation. Behavior of Dipyridones and Pyridone-Pyrimidones Designed To Form Cyclic Triplexes. <i>Journal of Organic Chemistry</i> , 1995 , 60, 1408-1412	4.2	58

49	The dark side of crystal engineering: creating glasses from small symmetric molecules that form multiple hydrogen bonds. <i>Journal of the American Chemical Society</i> , 2006 , 128, 10372-3	16.4	57
48	Designing permeable molecular crystals that react with external agents to give crystalline products. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 5303-6	16.4	55
47	Metallotectons: Comparison of Molecular Networks Built from Racemic and Enantiomerically Pure Tris(dipyrrinato)cobalt(III) Complexes. <i>Crystal Growth and Design</i> , 2009 , 9, 1923-1931	3.5	47
46	ROY Reclaims Its Crown: New Ways To Increase Polymorphic Diversity. <i>Journal of the American Chemical Society</i> , 2020 , 142, 11873-11883	16.4	42
45	Molecular Tectonics. Porous Hydrogen-Bonded Networks Built from Derivatives of 2,2',7,7'-Tetraphenyl-9,9'-Spirobi[9H-fluorene]. <i>Crystal Growth and Design</i> , 2005 , 5, 1227-1235	3.5	40
44	Using pyridinyl-substituted diaminotriazines to bind Pd(II) and create metallotectons for engineering hydrogen-bonded crystals. <i>Inorganic Chemistry</i> , 2011 , 50, 5605-18	5.1	36
43	Molecular Organization of 2,1,3-Benzothiadiazoles in the Solid State. <i>Journal of Organic Chemistry</i> , 2017 , 82, 5034-5045	4.2	33
42	The potential of intermolecular N \cdots O interactions of nitro groups in crystal engineering, as revealed by structures of hexakis(4-nitrophenyl)benzene. <i>Tetrahedron</i> , 2007 , 63, 6603-6613	2.4	32
41	Tampering with molecular cohesion in crystals of hexaphenylbenzenes. <i>Journal of Organic Chemistry</i> , 2010 , 75, 399-406	4.2	31
40	Recycling Indium Tin Oxide (ITO) Electrodes Used in Thin-Film Devices with Adjacent Hole-Transport Layers of Metal Oxides. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 3373-3381	8.3	30
39	A theoretical study of cohesion, structural deformation, inclusion, and dynamics in porous hydrogen-bonded molecular networks. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3621-6	16.4	27
38	Engineering Hydrogen-Bonded Molecular Crystals Built from 1,3,5-Substituted Derivatives of Benzene: 6,6',6''-(1,3,5-Phenylene)tris-1,3,5-triazine-2,4-diamines. <i>Crystal Growth and Design</i> , 2008 , 8, 1547-1553	3.5	24
37	Inclusion Compounds of Hexakis(4-cyanophenyl)benzene: Open Networks Maintained by C \cdots H \cdots N Interactions. <i>Crystal Growth and Design</i> , 2006 , 6, 461-466	3.5	24
36	Surrogates of 2,2'-Bipyridine Designed to Chelate Ag(I) and Create Metallotectons for Engineering Hydrogen-Bonded Crystals. <i>Crystal Growth and Design</i> , 2011 , 11, 2026-2034	3.5	23
35	Building Giant Carbocycles by Reversible C-C Bond Formation. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 894-8	16.4	23
34	Excavations in molecular crystals. <i>Chemical Communications</i> , 2003 , 2966-7	5.8	20
33	Crystal Structures of Spiroborates Derived from [1,1'-Binaphthalene]-2,2'-diol (BINOL). <i>Crystal Growth and Design</i> , 2008 , 8, 1541-1546	3.5	16
32	Syntheses and structures of isomeric diaminotriazinyl-substituted 2,2'-bipyridines and 1,10-phenanthrolines. <i>Journal of Organic Chemistry</i> , 2011 , 76, 1333-41	4.2	15

31	Structural Similarity of Hydrogen-Bonded Networks in Crystals of Isomeric Pyridyl-Substituted Diaminotriazines. <i>Crystal Growth and Design</i> , 2011 , 11, 287-294	3.5	15
30	A Green Approach to Organic Thin-Film Electronic Devices: Recycling Electrodes Composed of Indium Tin Oxide (ITO). <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 2715-2721	8.3	14
29	Crystal Structures of Spiroborates Derived from 2,2'-Dihydroxybiphenyl. <i>Crystal Growth and Design</i> , 2008 , 8, 308-318	3.5	14
28	Engineering Hydrogen-Bonded Hexagonal Networks Built from Flexible 1,3,5-Trisubstituted Derivatives of Benzene. <i>Journal of Organic Chemistry</i> , 2016 , 81, 3076-86	4.2	13
27	Predictably Ordered Open Hydrogen-Bonded Networks Built from Indeno[1,2-b]fluorenes. <i>Journal of Organic Chemistry</i> , 2017 , 82, 8536-8547	4.2	13
26	Using Systematic Comparisons of 2D and 3D Structures To Reveal Principles of Molecular Organization. Tetraesters of Linear Bisophthalic Acids. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 13052-13062	3.8	13
25	Engineering Homologous Molecular Organization in 2D and 3D. Cocrystallization of Pyridyl-Substituted Diaminotriazines with Alkanecarboxylic Acids. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 12908-12919	3.8	13
24	Building Giant Carbocycles by Reversible C-C Bond Formation. <i>Angewandte Chemie</i> , 2016 , 128, 906-910	3.6	12
23	Engineering molecular crystals with abnormally weak cohesion. <i>Chemical Communications</i> , 2011 , 47, 5163-5	3.5	11
22	Foiling Normal Patterns of Crystallization by Design. Polymorphism of Phosphangulene Chalcogenides. <i>Crystal Growth and Design</i> , 2019 , 19, 5390-5406	3.5	10
21	Synthesis and structure of spirocyclic tetraethers derived from [1,1'-binaphthalene]-2,2'-diol and pentaerythritol. <i>Journal of Organic Chemistry</i> , 2008 , 73, 5255-63	4.2	10
20	Engineering homologous molecular organization in 2D and 3D. Cocrystallization of aminoazines and alkanecarboxylic acids. <i>CrystEngComm</i> , 2011 , 13, 5571	3.3	9
19	Molecular Tectonics: Porous Cleavable Networks Constructed by Dipole-Directed Stacking of Hydrogen-Bonded Sheets. <i>Angewandte Chemie</i> , 2005 , 117, 4089-4093	3.6	9
18	Limonene as a Green Solvent for Depositing Thin Layers of Molecular Electronic Materials with Controlled Interdiffusion. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 5994-5998	8.3	8
17	Long-lived, red-emitting excited state of a Ru(II) complex of a diaminotriazine ligand. <i>Polyhedron</i> , 2016 , 108, 100-103	2.7	8
16	Putting Fullerenes in Their Place: Cocrystallizing C60 and C70 with Phosphangulene Chalcogenides. <i>Crystal Growth and Design</i> , 2019 , 19, 5418-5428	3.5	8
15	Building Large Structures with Curved Aromatic Surfaces by Complexing Metals with Phosphangulene. <i>Journal of the American Chemical Society</i> , 2019 , 141, 18740-18753	16.4	7
14	Comparing Crystallizations in Three Dimensions and Two Dimensions: Behavior of Isomers of [2,2'-Bipyridine]dicarbonitrile and [1,10-Phenanthroline]dicarbonitrile. <i>Crystal Growth and Design</i> , 2017 , 17, 5242-5248	3.5	7

13	Phosphangulene: A Molecule for All Chemists. <i>Accounts of Chemical Research</i> , 2020 , 53, 2472-2482	24.3	6
12	Molecular Organization in Crystals of Bis(diaminotriazinyl)-Substituted Derivatives of Benzene, Pyridine, and Pyrazine. <i>Crystal Growth and Design</i> , 2019 , 19, 1299-1307	3.5	6
11	Controlling Molecular Organization by Using Phenyl Embraces of Multiple Trityl Groups. <i>Journal of Organic Chemistry</i> , 2020 , 85, 4026-4035	4.2	4
10	Modular Construction of Porous Hydrogen-Bonded Molecular Materials from Melams. <i>Chemistry - A European Journal</i> , 2020 , 26, 7026-7040	4.8	4
9	Atoms and the void: modular construction of ordered porous solids. <i>Nature Communications</i> , 2020 , 11, 4652	17.4	4
8	Triptycene 1,2-Quinones and Quinols: Permeable Crystalline Redox-Active Molecular Solids. <i>Journal of Organic Chemistry</i> , 2018 , 83, 15426-15437	4.2	4
7	Bis(phosphangulene)iminium Salts. Holding on to Fullerenes with Phangs. <i>Crystal Growth and Design</i> , 2020 , 20, 1319-1327	3.5	3
6	Thin-film photovoltaic devices incorporating low-bandgap push-pull molecules dispersed in passive polymeric matrices. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2017 , 55, 1479-1493	2.6	2
5	Imaging layers in thin-film molecular devices by transmission electron microscopy, using milling by focused ion beams and deposition on NaCl and Si. <i>Canadian Journal of Chemistry</i> , 2020 , 98, 582-588	0.9	2
4	Designing Tetraoxa[8]circulenes To Serve as Hosts and Sensors.. <i>Journal of the American Chemical Society</i> , 2021 ,	16.4	2
3	Surprising Chemistry of 6-Azidotetrazolo[5,1-]phthalazine: What a Purported Natural Product Reveals about the Polymorphism of Explosives.. <i>Journal of Organic Chemistry</i> , 2022 , 87, 6680-6694	4.2	2
2	Synthesis of Salts of 1,2,5,6- and 1,4,5,8-Naphthalenetetramine. <i>ACS Omega</i> , 2017 , 2, 6023-6030	3.9	1
1	Predicting p Values of Quinols and Related Aromatic Compounds with Multiple OH Groups. <i>Journal of Organic Chemistry</i> , 2021 , 86, 14444-14460	4.2	0