

# James D Wuest

## List of Publications by Year in Descending Order

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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 | 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> , <b>2022</b> , 87, 6680-6694          | 4.2  | 2         |
| 65 | Predicting p Values of Quinols and Related Aromatic Compounds with Multiple OH Groups. <i>Journal of Organic Chemistry</i> , <b>2021</b> , 86, 14444-14460  | 4.2  | 0         |
| 64 | Designing Tetraoxa[8]circulenes To Serve as Hosts and Sensors.. <i>Journal of the American Chemical Society</i> , <b>2021</b> ,   | 16.4 | 2         |
| 63 | ROY Reclaims Its Crown: New Ways To Increase Polymorphic Diversity. <i>Journal of the American Chemical Society</i> , <b>2020</b> , 142, 11873-11883  | 16.4 | 42        |
| 62 | Controlling Molecular Organization by Using Phenyl Embraces of Multiple Trityl Groups. <i>Journal of Organic Chemistry</i> , <b>2020</b> , 85, 4026-4035  | 4.2  | 4         |
| 61 | Modular Construction of Porous Hydrogen-Bonded Molecular Materials from Melams. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 7026-7040   | 4.8  | 4         |
| 60 | 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> , <b>2020</b> , 98, 582-588 | 0.9  | 2         |
| 59 | Bis(phosphangulene)iminium Salts. Holding on to Fullerenes with Phangs. <i>Crystal Growth and Design</i> , <b>2020</b> , 20, 1319-1327  | 3.5  | 3         |
| 58 | Phosphangulene: A Molecule for All Chemists. <i>Accounts of Chemical Research</i> , <b>2020</b> , 53, 2472-2482   | 24.3 | 6         |
| 57 | Atoms and the void: modular construction of ordered porous solids. <i>Nature Communications</i> , <b>2020</b> , 11, 4652  | 17.4 | 4         |
| 56 | Building Large Structures with Curved Aromatic Surfaces by Complexing Metals with Phosphangulene. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 18740-18753                                    | 16.4 | 7         |
| 55 | Foiling Normal Patterns of Crystallization by Design. Polymorphism of Phosphangulene Chalcogenides. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 5390-5406  | 3.5  | 10        |
| 54 | Putting Fullerenes in Their Place: Cocrystallizing C60 and C70 with Phosphangulene Chalcogenides. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 5418-5428  | 3.5  | 8         |
| 53 | Molecular Organization in Crystals of Bis(diaminotriazinyl)-Substituted Derivatives of Benzene, Pyridine, and Pyrazine. <i>Crystal Growth and Design</i> , <b>2019</b> , 19, 1299-1307                                | 3.5  | 6         |
| 52 | Triptycene 1,2-Quinones and Quinols: Permeable Crystalline Redox-Active Molecular Solids. <i>Journal of Organic Chemistry</i> , <b>2018</b> , 83, 15426-15437   | 4.2  | 4         |
| 51 | Molecular Organization of 2,1,3-Benzothiadiazoles in the Solid State. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 5034-5045   | 4.2  | 33        |
| 50 | Limonene as a Green Solvent for Depositing Thin Layers of Molecular Electronic Materials with Controlled Interdiffusion. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2017</b> , 5, 5994-5998                | 8.3  | 8         |

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|----|--|------|-----|
| 49 | Synthesis of Salts of 1,2,5,6- and 1,4,5,8-Naphthalenetetramine. <i>ACS Omega</i> , <b>2017</b> , 2, 6023-6030   | 3.9  | 1   |
| 48 | 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> , <b>2017</b> , 55, 1479-1493                                       | 2.6  | 2   |
| 47 | Comparing Crystallizations in Three Dimensions and Two Dimensions: Behavior of Isomers of [2,2'-Bipyridine]dicyanide and [1,10-Phenanthroline]dicyanide. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 5242-5248                              | 3.5  | 7   |
| 46 | Predictably Ordered Open Hydrogen-Bonded Networks Built from Indeno[1,2-b]fluorenes. <i>Journal of Organic Chemistry</i> , <b>2017</b> , 82, 8536-8547   | 4.2  | 13  |
| 45 | Long-lived, red-emitting excited state of a Ru(II) complex of a diaminotriazine ligand. <i>Polyhedron</i> , <b>2016</b> , 108, 100-103   | 2.7  | 8   |
| 44 | Engineering Hydrogen-Bonded Hexagonal Networks Built from Flexible 1,3,5-Trisubstituted Derivatives of Benzene. <i>Journal of Organic Chemistry</i> , <b>2016</b> , 81, 3076-86  | 4.2  | 13  |
| 43 | Dimerization of Aromatic C-Nitroso Compounds. <i>Chemical Reviews</i> , <b>2016</b> , 116, 258-86  | 68.1 | 70  |
| 42 | Building Giant Carbocycles by Reversible C-C Bond Formation. <i>Angewandte Chemie - International Edition</i> , <b>2016</b> , 55, 894-8  | 16.4 | 23  |
| 41 | Building Giant Carbocycles by Reversible C-C Bond Formation. <i>Angewandte Chemie</i> , <b>2016</b> , 128, 906-910   | 3.6  | 12  |
| 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> , <b>2015</b> , 3, 3373-3381   | 8.3  | 30  |
| 39 | A Green Approach to Organic Thin-Film Electronic Devices: Recycling Electrodes Composed of Indium Tin Oxide (ITO). <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 2715-2721   | 8.3  | 14  |
| 38 | Constructing monocrystalline covalent organic networks by polymerization. <i>Nature Chemistry</i> , <b>2013</b> , 5, 830-4   | 17.6 | 272 |
| 37 | 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> , <b>2013</b> , 42, 9105-26                        | 58.5 | 65  |
| 36 | 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> , <b>2013</b> , 113, 3734-65 | 68.1 | 516 |
| 35 | 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> , <b>2012</b> , 116, 13052-13062                               | 3.8  | 13  |
| 34 | Syntheses and structures of isomeric diaminotriazinyl-substituted 2,2'-bipyridines and 1,10-phenanthrolines. <i>Journal of Organic Chemistry</i> , <b>2011</b> , 76, 1333-41   | 4.2  | 15  |
| 33 | Engineering Homologous Molecular Organization in 2D and 3D. Cocrystallization of Pyridyl-Substituted Diaminotriazines with Alkanecarboxylic Acids. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 12908-12919                           | 3.8  | 13  |
| 32 | Engineering molecular crystals with abnormally weak cohesion. <i>Chemical Communications</i> , <b>2011</b> , 47, 5163-5  | 3.5  | 11  |

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|----|---|------|-----|
| 31 | Structural Similarity of Hydrogen-Bonded Networks in Crystals of Isomeric Pyridyl-Substituted Diaminotriazines. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 287-294  | 3.5  | 15  |
| 30 | Engineering homologous molecular organization in 2D and 3D. Cocrystallization of aminoazines and alkanecarboxylic acids. <i>CrystEngComm</i> , <b>2011</b> , 13, 5571   | 3.3  | 9   |
| 29 | Surrogates of 2,2'-Bipyridine Designed to Chelate Ag(I) and Create Metallotectons for Engineering Hydrogen-Bonded Crystals. <i>Crystal Growth and Design</i> , <b>2011</b> , 11, 2026-2034                                    | 3.5  | 23  |
| 28 | Using pyridinyl-substituted diaminotriazines to bind Pd(II) and create metallotectons for engineering hydrogen-bonded crystals. <i>Inorganic Chemistry</i> , <b>2011</b> , 50, 5605-18  | 5.1  | 36  |
| 27 | Tampering with molecular cohesion in crystals of hexaphenylbenzenes. <i>Journal of Organic Chemistry</i> , <b>2010</b> , 75, 399-406  | 4.2  | 31  |
| 26 | Strong adsorption of aminotriazines on graphene. <i>Chemical Communications</i> , <b>2010</b> , 46, 2923-5  | 5.8  | 111 |
| 25 | Metallotectons: Comparison of Molecular Networks Built from Racemic and Enantiomerically Pure Tris(dipyrrinato)cobalt(III) Complexes. <i>Crystal Growth and Design</i> , <b>2009</b> , 9, 1923-1931                           | 3.5  | 47  |
| 24 | Interaction of substituted aromatic compounds with graphene. <i>Langmuir</i> , <b>2009</b> , 25, 210-5  | 4    | 233 |
| 23 | Crystal Structures of Spiroborates Derived from 2,2'-Dihydroxybiphenyl. <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 308-318   | 3.5  | 14  |
| 22 | Crystal Structures of Spiroborates Derived from [1,1'-Binaphthalene]-2,2'-diol (BINOL). <i>Crystal Growth and Design</i> , <b>2008</b> , 8, 1541-1546   | 3.5  | 16  |
| 21 | 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> , <b>2008</b> , 8, 1547-1553 | 3.5  | 24  |
| 20 | Synthesis and structure of spirocyclic tetraethers derived from [1,1'-binaphthalene]-2,2'-diol and pentaerythritol. <i>Journal of Organic Chemistry</i> , <b>2008</b> , 73, 5255-63   | 4.2  | 10  |
| 19 | A theoretical study of cohesion, structural deformation, inclusion, and dynamics in porous hydrogen-bonded molecular networks. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 3621-6                    | 16.4 | 27  |
| 18 | Engineering hydrogen-bonded molecular crystals built from derivatives of hexaphenylbenzene and related compounds. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 4306-22                                | 16.4 | 170 |
| 17 | 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> , <b>2007</b> , 63, 6603-6613                | 2.4  | 32  |
| 16 | Frustrated 2D molecular crystallization. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 13774-5   | 16.4 | 163 |
| 15 | 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> , <b>2006</b> , 128, 10372-3                         | 16.4 | 57  |
| 14 | A New Class of Selective Low-Molecular-Weight Gelators Based on Salts of Diaminotriazinecarboxylic Acids. <i>Chemistry of Materials</i> , <b>2006</b> , 18, 3616-3626   | 9.6  | 70  |

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|----|---|------|-----|
| 13 | Inclusion Compounds of Hexakis(4-cyanophenyl)benzene: Open Networks Maintained by C <sub>6</sub> H <sub>4</sub> N <sub>2</sub> Interactions. <i>Crystal Growth and Design</i> , <b>2006</b> , 6, 461-466      | 3.5  | 24  |
| 12 | Engineering crystals by the strategy of molecular tectonics. <i>Chemical Communications</i> , <b>2005</b> , 5830-7  | 5.8  | 349 |
| 11 | Molecular Tectonics. Porous Hydrogen-Bonded Networks Built from Derivatives of 2,2',7,7'-Tetraphenyl-9,9'-Spiro[9H-fluorene]. <i>Crystal Growth and Design</i> , <b>2005</b> , 5, 1227-1235                   | 3.5  | 40  |
| 10 | Molecular tectonics: porous cleavable networks constructed by dipole-directed stacking of hydrogen-bonded sheets. <i>Angewandte Chemie - International Edition</i> , <b>2005</b> , 44, 4021-5                 | 16.4 | 69  |
| 9  | Molecular Tectonics: Porous Cleavable Networks Constructed by Dipole-Directed Stacking of Hydrogen-Bonded Sheets. <i>Angewandte Chemie</i> , <b>2005</b> , 117, 4089-4093                                     | 3.6  | 9   |
| 8  | Molecular tectonics. Porous hydrogen-bonded networks built from derivatives of 9,9'-spirobifluorene. <i>Journal of Organic Chemistry</i> , <b>2004</b> , 69, 1762-75  | 4.2  | 114 |
| 7  | Excavations in molecular crystals. <i>Chemical Communications</i> , <b>2003</b> , 2966-7  | 5.8  | 20  |
| 6  | Designing permeable molecular crystals that react with external agents to give crystalline products. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 5303-6                              | 16.4 | 55  |
| 5  | Deformation of porous molecular networks induced by the exchange of guests in single crystals. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 14956-7                                   | 16.4 | 69  |
| 4  | Molecular Tectonics. Porous Hydrogen-Bonded Networks with Unprecedented Structural Integrity. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 2737-2738                                  | 16.4 | 400 |
| 3  | 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> , <b>1995</b> , 60, 1408-1412 | 4.2  | 58  |
| 2  | 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> , <b>1991</b> , 113, 4696-4698       | 16.4 | 637 |
| 1  | Use of hydrogen bonds to control molecular aggregation. Extensive, self-complementary arrays of donors and acceptors. <i>Journal of Organic Chemistry</i> , <b>1988</b> , 53, 5787-5789                       | 4.2  | 141 |