Jason B Benedict

List of Publications by Year
in descending order

84	2,940	147801 31	168389 53
papers	citations	h-index	g-index

92	92	92	3247
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	1,2-Bis(pyridin-4-yl)etheneâ€“4-hydroxy-3-methoxybenzoic acid (1/1). IUCrData, 2022, 7, .	0.3	0
2	The co-crystal structure of 4-hydroxy-3-methoxybenzoic acid â€“ 4,4â€²-bipyridine, C₈H₈O₄Â·C₁₀H₈N₂. Zeitschrift Fur Kristallographie - New Crystal Structures, 2022, .	0.3	0
3	The crystal structure of 4,4â€²-bipyridinium bis-(2-hydroxy-3-methoxybenzoate), 2(C₈H_{7.68}O₄)Â·C₁₀H_{8.64}N₂. Zeitschrift Fur Kristallographie - New Crystal Structures, 2022, .	0.3	0
4	4,4'-(Ethene-1,2-diyl)dipyridinium bis(2-hydroxy-3-methoxybenzoate). IUCrData, 2022, 7, .	0.3	0
5	Synthesis and Characterization of Photoactive Methyl 4-Bromo-3-((2,6-Difluorophenyl)diazenyl) Benzoate. Journal of Chemical Crystallography, 2021, 51, 582.	1.1	0
6	Cross-Linking and Charging Molecular Magnetoelectronics. Nano Letters, 2021, 21, 4099-4105.	9.1	6
7	Phonon Kinetics of Fructose at the Melting Transition. Journal of Physical Chemistry C, 2021, 125, 12269-12276.	3.1	1
8	N-[6-(Dimethylamino)-9-phenyl-3H-telluroxanthen-3-ylidene]-N-methylmethanaminium hexafluorophosphate monoclinic polymorph. IUCrData, 2021, 6, .	0.3	0
9	3â€²,5â€²-Dichloro-N,N-diphenyl-[1,1â€²-biphenyl]-4-amine. IUCrData, 2021, 6, .	0.3	0
10	Emerged Metallicity in Molecular Ferromagnetic Wires. Nano Letters, 2021, 21, 9746-9753.	9.1	5
11	Competing Singlet Fission and Excimer Formation in Solid Fluorinated 1,3-Diphenylisobenzofurans. Journal of Physical Chemistry C, 2021, 125, 27058-27071.	3.1	9
12	Determination of the dehydration pathway in a flexible metalâ€“organic framework by dynamic in situ x-ray diffraction. Structural Dynamics, 2020, 7, 034305.	2.3	4
13	The Structure and Characterization of 3,4,5-Triiodo-2-Methylthiophene: An Unexpected Iodination Product of 2-Methylthiophene. Journal of Chemical Crystallography, 2019, 49, 206-212.	1.1	1
14	Partial charge transfer in the salt co-crystal of <scp>L</scp>-ascorbic acid and 4,4â€²-bipyridine. Acta Crystallographica Section E: Crystallographic Communications, 2019, 75, 728-731.	0.5	4
15	Fe(ii) and Co(ii)N-methylated CYCLEN complexes as paraSHIFT agents with large temperature dependent shifts. Dalton Transactions, 2018, 47, 916-924.	3.3	27
16	Photoactive and Physical Properties of an Azobenzene-Containing Coordination Framework. Australian Journal of Chemistry, 2017, 70, 1171.	0.9	8
17	Solvent exchange in a metalâ€“organic framework single crystal monitored by dynamicin situX-ray diffraction. Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials, 2017, 73, 669-674.	1.1	5
18	Hydrogen-bonded co-crystal structure of benzoic acid and zwitterionic<scp>L</scp>-proline. Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 369-371.	0.5	3

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19	Hybrid organicâ€“inorganic crystal structure of 4-(dimethylamino)pyridinium dimethylammonium tetrachloridolead(II). Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1670-1673.	0.5	0
20	Crystal structure of the co-crystal of 5-aminoisophthalic acid and 1,2-bis(pyridin-4-yl)ethene. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 639-642.	0.5	0
21	Phosphorescent organoplatinum(II) D₂A₂ metallacycles: synthesis, self-assembly, and photophysical properties. Journal of Coordination Chemistry, 2016, 69, 1914-1923.	2.2	4
22	Structural response to desolvation in a pyridyl-phenanthrene diarylethene-based metalâ€“organic framework. CrystEngComm, 2016, 18, 7972-7977.	2.6	23
23	Hot Hole Hopping in a Polyoxotitanate Cluster Terminated with Catechol Electron Donors. Journal of Physical Chemistry C, 2016, 120, 20006-20015.	3.1	14
24	The temperature dependent luminescent decay kinetics of an emissive copper complex in the single crystalline phase using time-gated luminescence microscopy. Journal of Luminescence, 2016, 173, 30-33.	3.1	3
25	On the design of atropisomer-separable photochromic diarylethene-based metalâ€“organic framework linkers. Journal of Materials Chemistry C, 2016, 4, 4028-4033.	5.5	14
26	Six-coordinate Iron(II) and Cobalt(II) paraSHIFT Agents for Measuring Temperature by Magnetic Resonance Spectroscopy. Inorganic Chemistry, 2016, 55, 700-716.	4.0	61
27	The role of atropisomers on the photo-reactivity and fatigue of diarylethene-based metalâ€“organic frameworks. New Journal of Chemistry, 2016, 40, 101-106.	2.8	78
28	Six, Seven or Eight Coordinate Fe^{II}, Co^{II} or Ni^{II} Complexes of Amideâ€Appended Tetraazamacrocycles for ParaCEST Thermometry. Chemistry - A European Journal, 2015, 21, 18290-18300.	3.3	42
29	Extreme red shifted SERS nanotags. Chemical Science, 2015, 6, 2302-2306.	7.4	47
30	The Temperature Dependent Photoswitching of a Classic Diarylethene Monitored by in Situ X-ray Diffraction. Journal of Physical Chemistry A, 2015, 119, 884-888.	2.5	9
31	A versatile environmental control cell forin situguest exchange single-crystal diffraction. Journal of Applied Crystallography, 2015, 48, 578-581.	4.5	11
32	Photoresponsive porous materials: the design and synthesis of photochromic diarylethene-based linkers and a metalâ€“organic framework. Chemical Communications, 2014, 50, 2653-2656.	4.1	84
33	Seven-Coordinate Co^{II}, Fe^{II} and Six-Coordinate Ni^{II} Amide-Appended Macrocyclic Complexes as ParaCEST Agents in Biological Media. Inorganic Chemistry, 2014, 53, 8311-8321.	4.0	43
34	Photoelectrochemical Hole Injection Revealed in Polyoxotitanate Nanocrystals Functionalized with Organic Adsorbates. Journal of the American Chemical Society, 2014, 136, 16420-16429.	13.7	67
35	Polymorphism and the influence of crystal structure on the luminescence of the opto-electronic material 4,4â€²-bis(9-carbazolyl)biphenyl. CrystEngComm, 2014, 16, 7621-7625.	2.6	15
36	Photo-responsive MOFs: light-induced switching of porous single crystals containing a photochromic diarylethene. Chemical Communications, 2013, 49, 8012.	4.1	123

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37	Organotellurium Fluorescence Probes for Redox Reactions: 9-Aryl-3,6-diaminotelluroxanthylium Dyes and Their Telluroxides. Organometallics, 2013, 32, 4321-4333.	2.3	38
38	Excitons and Excess Electrons in Nanometer Size Molecular Polyoxotitanate Clusters: Electronic Spectra, Exciton Dynamics, and Surface States. Journal of Physical Chemistry B, 2013, 117, 4422-4430.	2.6	11
39	Tautomerism in 10-(hydroxyimino)phenanthren-9-one. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2871-o2871.	0.2	0
40	Improved Mode Assignment for Molecular Crystals Through Anisotropic Terahertz Spectroscopy. Journal of Physical Chemistry A, 2012, 116, 10359-10364.	2.5	26
41	Molecular engineering of nanoscale order in organic electro-optic glasses. Journal of Materials Chemistry, 2012, 22, 6752.	6.7	39
42	Interfacial Electron Transfer into Functionalized Crystalline Polyoxotitanate Nanoclusters. Journal of the American Chemical Society, 2012, 134, 8911-8917.	13.7	72
43	Restricted Photochemistry in the Molecular Solid State: Structural Changes on Photoexcitation of Cu(I) Phenanthroline Metal-to-Ligand Charge Transfer (MLCT) Complexes by Time-Resolved Diffraction. Journal of Physical Chemistry A, 2012, 116, 3359-3365.	2.5	60
44	Binding Modes of Carboxylate- and Acetylacetonate-Linked Chromophores to Homodisperse Polyoxotitanate Nanoclusters. Journal of the American Chemical Society, 2012, 134, 11695-11700.	13.7	129
45	Polar alignment of dye molecules in sectors of host lattices revealed by phase sensitive second harmonic generation and scanning pyroelectric microscopy. CrystEngComm, 2012, 14, 4391.	2.6	7
46	Formation of different photodimers of isoquinolinone by irradiation of solid molecular compounds. CrystEngComm, 2011, 13, 3181-3188.	2.6	6
47	Time-resolved Laue diffraction of excited species at atomic resolution: 100 ps single-pulse diffraction of the excited state of the organometallic complex Rh2(Î¼-PNP)2(PNP)2Â·BPh4. Chemical Communications, 2011, 47, 1704.	4.1	26
48	Influence of Thiolate Ligands on Reductive Nâˆ’O Bond Activation. Probing the O₂^â Binding Site of a Biomimetic Superoxide Reductase Analogue and Examining the Proton-Dependent Reduction of Nitrite. Journal of the American Chemical Society, 2011, 133, 1419-1427.	13.7	37
49	The development of Laue techniques for single-pulse diffraction of chemical complexes: time-resolved Laue diffraction on a binuclear rhodium metal-organic complex. Acta Crystallographica Section A: Foundations and Advances, 2011, 67, 319-326.	0.3	37
50	Time-resolved synchrotron diffraction and theoretical studies of very short-lived photo-induced molecular species. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 179-188.	0.3	42
51	Data scaling and temperature calibration in time-resolved photocrystallographic experiments. Acta Crystallographica Section A: Foundations and Advances, 2010, 66, 632-636.	0.3	28
52	Charge-density analysis of the ground state of a photochromic 1,10-phenanthroline zinc(II) bis(thiolate) complex. Acta Crystallographica Section B: Structural Science, 2010, 66, 366-372.	1.8	20
53	Optimizing the accuracy and precision of the single-pulse Laue technique for synchrotron photo-crystallography. Journal of Synchrotron Radiation, 2010, 17, 479-485.	2.4	13
54	Novel 21,23-Ditelluraporphyrins and the First 26,28-Ditellurasapphyrin and 30,33-Ditellurarubyrin. Organometallics, 2010, 29, 3431-3441.	2.3	30

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55	The Crystalline Nanocluster Phase as a Medium for Structural and Spectroscopic Studies of Light Absorption of Photosensitizer Dyes on Semiconductor Surfaces. Journal of the American Chemical Society, 2010, 132, 2938-2944.	13.7	153
56	Kinetics of Solid State Photodimerization of 1,4-Dimethyl-2-pyridinone in its Molecular Compound. Journal of Physical Chemistry A, 2010, 114, 7377-7381.	2.5	28
57	Large Polyoxotitanate Clusters: Well-Defined Models for Pure-Phase TiO₂ Structures and Surfaces. Journal of the American Chemical Society, 2010, 132, 13669-13671.	13.7	117
58	The RATIO method for time-resolved Laue crystallography. Journal of Synchrotron Radiation, 2009, 16, 226-230.	2.4	45
59	The competing roles of topology and spin density in the magnetic behavior of spin-delocalized radicals: Donorâ€“acceptor annelated nitronyl nitroxides. Polyhedron, 2009, 28, 1704-1709.	2.2	5
60	Kinetics of the Single-Crystal to Single-Crystal Two-Photon Photodimerization of Î±-trans-Cinnamic Acid to Î±-Truxillic Acid. Journal of Physical Chemistry A, 2009, 113, 3116-3120.	2.5	85
61	Comparison of structurally-related alkoxide, amine, and thiolate-ligated MII (M=Fe, Co) complexes: The influence of thiolates on the properties of biologically relevant metal complexes. Inorganica Chimica Acta, 2008, 361, 1070-1078.	2.4	21
62	Orientational Dependence of Linear Dichroism Exemplified by Dyed Spherulites. Journal of the American Chemical Society, 2008, 130, 10714-10719.	13.7	14
63	Ultralarge and Thermally Stable Electro-Optic Activities from Supramolecular Self-Assembled Molecular Glasses. Journal of the American Chemical Society, 2007, 129, 488-489.	13.7	300
64	Dyeing Polymorphs:â€‰ The MALDI Host 2,5-Dihydroxybenzoic Acid. Crystal Growth and Design, 2007, 7, 492-495.	3.0	33
65	Pyrroline Chromophores for Electro-Optics. Chemistry of Materials, 2006, 18, 2982-2988.	6.7	114
66	A Functional Model for the Cysteinate-Ligated Non-Heme Iron Enzyme Superoxide Reductase (SOR). Journal of the American Chemical Society, 2006, 128, 14448-14449.	13.7	65
67	How Does Single Oxygen Atom Addition Affect the Properties of an Feâ˜Nitrile Hydratase Analogue? The Compensatory Role of the Unmodified Thiolate. Journal of the American Chemical Society, 2006, 128, 11211-11221.	13.7	93
68	Time-resolved EPR spectra of the triplet excited states of diaminoacridine guests in polar potassium hydrogen phthalate single crystals. Physical Chemistry Chemical Physics, 2006, 8, 379-385.	2.8	4
69	Mesoscale Chiroptics of Rhythmic Precipitates. Journal of the American Chemical Society, 2006, 128, 14234-14235.	13.7	54
70	What is Syncrystallization? States of the pH Indicator Methyl Red in Crystals of Phthalic Acid. Journal of the American Chemical Society, 2006, 128, 5548-5559.	13.7	28
71	Crystal structures and luminescence properties of osmium complexes of cis-1,2-vinylenebis(diphenylarsine) and pyridyl ligands: Possible evidence for metal d, ligand d backbonding. Inorganica Chimica Acta, 2006, 359, 1093-1102.	2.4	12
72	Photochromism of a spirooxazine in the single crystalline phase. Chemical Communications, 2005, , 2208.	4.1	39

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73	Systematic Study of the Structureâ^'Property Relationship of a Series of Ferrocenyl Nonlinear Optical Chromophores. Journal of the American Chemical Society, 2005, 127, 2758-2766.	13.7	168
74	Potassium hydrogen diphthalate dihydrate: a new structure and correction to the literature. Acta Crystallographica Section C: Crystal Structure Communications, 2004, 60, m551-m553.	0.4	4
75	3,3â€²-Didecyl-5,5â€²-bis(4-phenylquinolin-2-yl)-2,2â€²-bithienyl. Acta Crystallographica Section E: Structure Reports Online, 2004, 60, o530-o531.	0.2	3
76	Luminescent Probes of Crystal Growth: Surface Charge and Polar Axis Sense in Dye-Doped Potassium Hydrogen Phthalate. Angewandte Chemie - International Edition, 2004, 43, 5328-5331.	13.8	34
77	Crystallography and luminescence of divalent osmium complexes green osmium emitters and possible evidence for d-orbital backbonding. Inorganica Chimica Acta, 2004, 357, 3967-3974.	2.4	13
78	Nucleophilic Aromatic Substitution on Aryl-Amido Ligands Promoted by Oxidizing Osmium(IV) Centers. Inorganic Chemistry, 2004, 43, 5804-5815.	4.0	19
79	Up-conversion Luminescence in Dye-Doped Crystals of Potassium Hydrogen Phthalate. Advanced Materials, 2003, 15, 1068-1070.	21.0	94
80	How does cyanide inhibit superoxide reductase? Insight from synthetic FeIIIN4S model complexes. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 3671-3676.	7.1	36
81	Metal Ion Scrambling in Hexanuclear M6(Et2NCO2)12 Complexes (M = Co, Mg). Synthesis, Solid State Structure, and Solution Dynamics of Heteronuclear ConMg6-n(Et2NCO2)12 Complexes. Inorganic Chemistry, 2002, 41, 3183-3190.	4.0	15
82	Crystals in Materials Science. , 0, , .		0
83	Nicotine Refined: Crystal Engineering of (S)-Nicotinium Malate Salts. Crystal Growth and Design, 0, , .	3.0	5
84	Switching charge states in quasi-2D molecular conductors. , 0, , .		0