

Jason B Benedict

List of Publications by Year in descending order

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84
papers

2,940
citations

147801

31
h-index

168389

53
g-index

92
all docs

92
docs citations

92
times ranked

3247
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralarge and Thermally Stable Electro-Optic Activities from Supramolecular Self-Assembled Molecular Glasses. <i>Journal of the American Chemical Society</i> , 2007, 129, 488-489.	13.7	300
2	Systematic Study of the Structure~Property Relationship of a Series of Ferrocenyl Nonlinear Optical Chromophores. <i>Journal of the American Chemical Society</i> , 2005, 127, 2758-2766.	13.7	168
3	The Crystalline Nanocluster Phase as a Medium for Structural and Spectroscopic Studies of Light Absorption of Photosensitizer Dyes on Semiconductor Surfaces. <i>Journal of the American Chemical Society</i> , 2010, 132, 2938-2944.	13.7	153
4	Binding Modes of Carboxylate- and Acetylacetonate-Linked Chromophores to Homodisperse Polyoxotitanate Nanoclusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 11695-11700.	13.7	129
5	Photo-responsive MOFs: light-induced switching of porous single crystals containing a photochromic diarylethene. <i>Chemical Communications</i> , 2013, 49, 8012.	4.1	123
6	Large Polyoxotitanate Clusters: Well-Defined Models for Pure-Phase TiO ₂ Structures and Surfaces. <i>Journal of the American Chemical Society</i> , 2010, 132, 13669-13671.	13.7	117
7	Pyrroline Chromophores for Electro-Optics. <i>Chemistry of Materials</i> , 2006, 18, 2982-2988.	6.7	114
8	Up-conversion Luminescence in Dye-Doped Crystals of Potassium Hydrogen Phthalate. <i>Advanced Materials</i> , 2003, 15, 1068-1070.	21.0	94
9	How Does Single Oxygen Atom Addition Affect the Properties of an Fe~Nitrile Hydratase Analogue? The Compensatory Role of the Unmodified Thiolate. <i>Journal of the American Chemical Society</i> , 2006, 128, 11211-11221.	13.7	93
10	Kinetics of the Single-Crystal to Single-Crystal Two-Photon Photodimerization of <i>trans</i> -Cinnamic Acid to <i>trans</i> -Truxillic Acid. <i>Journal of Physical Chemistry A</i> , 2009, 113, 3116-3120.	2.5	85
11	Photoresponsive porous materials: the design and synthesis of photochromic diarylethene-based linkers and a metal~organic framework. <i>Chemical Communications</i> , 2014, 50, 2653-2656.	4.1	84
12	The role of atropisomers on the photo-reactivity and fatigue of diarylethene-based metal~organic frameworks. <i>New Journal of Chemistry</i> , 2016, 40, 101-106.	2.8	78
13	Interfacial Electron Transfer into Functionalized Crystalline Polyoxotitanate Nanoclusters. <i>Journal of the American Chemical Society</i> , 2012, 134, 8911-8917.	13.7	72
14	Photoelectrochemical Hole Injection Revealed in Polyoxotitanate Nanocrystals Functionalized with Organic Adsorbates. <i>Journal of the American Chemical Society</i> , 2014, 136, 16420-16429.	13.7	67
15	A Functional Model for the Cysteinate-Ligated Non-Heme Iron Enzyme Superoxide Reductase (SOR). <i>Journal of the American Chemical Society</i> , 2006, 128, 14448-14449.	13.7	65
16	Six-coordinate Iron(II) and Cobalt(II) paraSHIFT Agents for Measuring Temperature by Magnetic Resonance Spectroscopy. <i>Inorganic Chemistry</i> , 2016, 55, 700-716.	4.0	61
17	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. <i>Journal of Physical Chemistry A</i> , 2012, 116, 3359-3365.	2.5	60
18	Mesoscale Chiroptics of Rhythmic Precipitates. <i>Journal of the American Chemical Society</i> , 2006, 128, 14234-14235.	13.7	54

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19	Extreme red shifted SERS nanotags. <i>Chemical Science</i> , 2015, 6, 2302-2306.	7.4	47
20	The RATIO method for time-resolved Laue crystallography. <i>Journal of Synchrotron Radiation</i> , 2009, 16, 226-230.	2.4	45
21	Seven-Coordinate Co ^{II} , Fe ^{II} and Six-Coordinate Ni ^{II} Amide-Appended Macrocyclic Complexes as ParaCEST Agents in Biological Media. <i>Inorganic Chemistry</i> , 2014, 53, 8311-8321.	4.0	43
22	Time-resolved synchrotron diffraction and theoretical studies of very short-lived photo-induced molecular species. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 179-188.	0.3	42
23	Six, Seven or Eight Coordinate Fe ^{II} , Co ^{II} or Ni ^{II} Complexes of Amide-Appended Tetraazamacrocycles for ParaCEST Thermometry. <i>Chemistry - A European Journal</i> , 2015, 21, 18290-18300.	3.3	42
24	Photochromism of a spirooxazine in the single crystalline phase. <i>Chemical Communications</i> , 2005, , 2208.	4.1	39
25	Molecular engineering of nanoscale order in organic electro-optic glasses. <i>Journal of Materials Chemistry</i> , 2012, 22, 6752.	6.7	39
26	Organotellurium Fluorescence Probes for Redox Reactions: 9-Aryl-3,6-diaminotelluroxanthylum Dyes and Their Telluroxides. <i>Organometallics</i> , 2013, 32, 4321-4333.	2.3	38
27	Influence of Thiolate Ligands on Reductive N ² O Bond Activation. Probing the O ₂ Binding Site of a Biomimetic Superoxide Reductase Analogue and Examining the Proton-Dependent Reduction of Nitrite. <i>Journal of the American Chemical Society</i> , 2011, 133, 1419-1427.	13.7	37
28	The development of Laue techniques for single-pulse diffraction of chemical complexes: time-resolved Laue diffraction on a binuclear rhodium metal-organic complex. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2011, 67, 319-326.	0.3	37
29	How does cyanide inhibit superoxide reductase? Insight from synthetic FeIII ₄ S model complexes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 3671-3676.	7.1	36
30	Luminescent Probes of Crystal Growth: Surface Charge and Polar Axis Sense in Dye-Doped Potassium Hydrogen Phthalate. <i>Angewandte Chemie - International Edition</i> , 2004, 43, 5328-5331.	13.8	34
31	Dyeing Polymorphs: The MALDI Host 2,5-Dihydroxybenzoic Acid. <i>Crystal Growth and Design</i> , 2007, 7, 492-495.	3.0	33
32	Novel 21,23-Ditelluraporphyrins and the First 26,28-Ditellurasapphyrin and 30,33-Ditellurarubyrin. <i>Organometallics</i> , 2010, 29, 3431-3441.	2.3	30
33	What is Syncrystallization? States of the pH Indicator Methyl Red in Crystals of Phthalic Acid. <i>Journal of the American Chemical Society</i> , 2006, 128, 5548-5559.	13.7	28
34	Data scaling and temperature calibration in time-resolved photocystallographic experiments. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2010, 66, 632-636.	0.3	28
35	Kinetics of Solid State Photodimerization of 1,4-Dimethyl-2-pyridinone in its Molecular Compound. <i>Journal of Physical Chemistry A</i> , 2010, 114, 7377-7381.	2.5	28
36	Fe(ii) and Co(ii)N-methylated CYCLEN complexes as paraSHIFT agents with large temperature dependent shifts. <i>Dalton Transactions</i> , 2018, 47, 916-924.	3.3	27

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37	Time-resolved Laue diffraction of excited species at atomic resolution: 100 ps single-pulse diffraction of the excited state of the organometallic complex Rh ₂ (μ -PNP) ₂ (PNP)2 \cdot BPh ₄ . <i>Chemical Communications</i> , 2011, 47, 1704.	4.1	26
38	Improved Mode Assignment for Molecular Crystals Through Anisotropic Terahertz Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10359-10364.	2.5	26
39	Structural response to desolvation in a pyridyl-phenanthrene diarylethene-based metal-organic framework. <i>CrystEngComm</i> , 2016, 18, 7972-7977.	2.6	23
40	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. <i>Inorganica Chimica Acta</i> , 2008, 361, 1070-1078.	2.4	21
41	Charge-density analysis of the ground state of a photochromic 1,10-phenanthroline zinc(II) bis(thiolate) complex. <i>Acta Crystallographica Section B: Structural Science</i> , 2010, 66, 366-372.	1.8	20
42	Nucleophilic Aromatic Substitution on Aryl-Amido Ligands Promoted by Oxidizing Osmium(IV) Centers. <i>Inorganic Chemistry</i> , 2004, 43, 5804-5815.	4.0	19
43	Metal Ion Scrambling in Hexanuclear M ₆ (Et ₂ NCO ₂) ₁₂ Complexes (M = Co, Mg). Synthesis, Solid State Structure, and Solution Dynamics of Heteronuclear ConMg _{6-n} (Et ₂ NCO ₂) ₁₂ Complexes. <i>Inorganic Chemistry</i> , 2002, 41, 3183-3190.	4.0	15
44	Polymorphism and the influence of crystal structure on the luminescence of the opto-electronic material 4,4'-bis(9-carbazolyl)biphenyl. <i>CrystEngComm</i> , 2014, 16, 7621-7625.	2.6	15
45	Orientalional Dependence of Linear Dichroism Exemplified by Dyed Spherulites. <i>Journal of the American Chemical Society</i> , 2008, 130, 10714-10719.	13.7	14
46	Hot Hole Hopping in a Polyoxotitanate Cluster Terminated with Catechol Electron Donors. <i>Journal of Physical Chemistry C</i> , 2016, 120, 20006-20015.	3.1	14
47	On the design of atropisomer-separable photochromic diarylethene-based metal-organic framework linkers. <i>Journal of Materials Chemistry C</i> , 2016, 4, 4028-4033.	5.5	14
48	Crystallography and luminescence of divalent osmium complexes green osmium emitters and possible evidence for d-orbital backbonding. <i>Inorganica Chimica Acta</i> , 2004, 357, 3967-3974.	2.4	13
49	Optimizing the accuracy and precision of the single-pulse Laue technique for synchrotron photo-crystallography. <i>Journal of Synchrotron Radiation</i> , 2010, 17, 479-485.	2.4	13
50	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. <i>Inorganica Chimica Acta</i> , 2006, 359, 1093-1102.	2.4	12
51	Excitons and Excess Electrons in Nanometer Size Molecular Polyoxotitanate Clusters: Electronic Spectra, Exciton Dynamics, and Surface States. <i>Journal of Physical Chemistry B</i> , 2013, 117, 4422-4430.	2.6	11
52	A versatile environmental control cell for <i>in situ</i> guest exchange single-crystal diffraction. <i>Journal of Applied Crystallography</i> , 2015, 48, 578-581.	4.5	11
53	The Temperature Dependent Photoswitching of a Classic Diarylethene Monitored by <i>in Situ</i> X-ray Diffraction. <i>Journal of Physical Chemistry A</i> , 2015, 119, 884-888.	2.5	9
54	Competing Singlet Fission and Excimer Formation in Solid Fluorinated 1,3-Diphenylisobenzofurans. <i>Journal of Physical Chemistry C</i> , 2021, 125, 27058-27071.	3.1	9

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55	Photoactive and Physical Properties of an Azobenzene-Containing Coordination Framework. <i>Australian Journal of Chemistry</i> , 2017, 70, 1171.	0.9	8
56	Polar alignment of dye molecules in sectors of host lattices revealed by phase sensitive second harmonic generation and scanning pyroelectric microscopy. <i>CrystEngComm</i> , 2012, 14, 4391.	2.6	7
57	Formation of different photodimers of isoquinolinone by irradiation of solid molecular compounds. <i>CrystEngComm</i> , 2011, 13, 3181-3188.	2.6	6
58	Cross-Linking and Charging Molecular Magnetolectronics. <i>Nano Letters</i> , 2021, 21, 4099-4105.	9.1	6
59	The competing roles of topology and spin density in the magnetic behavior of spin-delocalized radicals: Donor-acceptor annelated nitronyl nitroxides. <i>Polyhedron</i> , 2009, 28, 1704-1709.	2.2	5
60	Solvent exchange in a metal-organic framework single crystal monitored by dynamic <i>in situ</i> X-ray diffraction. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2017, 73, 669-674.	1.1	5
61	Emerged Metallicity in Molecular Ferromagnetic Wires. <i>Nano Letters</i> , 2021, 21, 9746-9753.	9.1	5
62	Nicotine Refined: Crystal Engineering of (S)-Nicotinium Malate Salts. <i>Crystal Growth and Design</i> , 0, , .	3.0	5
63	Potassium hydrogen diphthalate dihydrate: a new structure and correction to the literature. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2004, 60, m551-m553.	0.4	4
64	Time-resolved EPR spectra of the triplet excited states of diaminoacridine guests in polar potassium hydrogen phthalate single crystals. <i>Physical Chemistry Chemical Physics</i> , 2006, 8, 379-385.	2.8	4
65	Phosphorescent organoplatinum(II) D ₂ A ₂ metallacycles: synthesis, self-assembly, and photophysical properties. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1914-1923.	2.2	4
66	Determination of the dehydration pathway in a flexible metal-organic framework by dynamic <i>in situ</i> x-ray diffraction. <i>Structural Dynamics</i> , 2020, 7, 034305.	2.3	4
67	Partial charge transfer in the salt co-crystal of <i>L</i> -ascorbic acid and 4,4'-bipyridine. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 728-731.	0.5	4
68	3,3'-Didecyl-5,5'-bis(4-phenylquinolin-2-yl)-2,2'-bithienyl. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2004, 60, o530-o531.	0.2	3
69	The temperature dependent luminescent decay kinetics of an emissive copper complex in the single crystalline phase using time-gated luminescence microscopy. <i>Journal of Luminescence</i> , 2016, 173, 30-33.	3.1	3
70	Hydrogen-bonded co-crystal structure of benzoic acid and zwitterionic <i>L</i> -proline. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2017, 73, 369-371.	0.5	3
71	The Structure and Characterization of 3,4,5-Triiodo-2-Methylthiophene: An Unexpected Iodination Product of 2-Methylthiophene. <i>Journal of Chemical Crystallography</i> , 2019, 49, 206-212.	1.1	1
72	Phonon Kinetics of Fructose at the Melting Transition. <i>Journal of Physical Chemistry C</i> , 2021, 125, 12269-12276.	3.1	1

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73	Tautomerism in 10-(hydroxyimino)phenanthren-9-one. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, o2871-o2871.	0.2	0
74	Crystals in Materials Science. , 0, , .		0
75	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
76	Synthesis and Characterization of Photoactive Methyl 4-Bromo-3-((2,6-Difluorophenyl)diazenyl) Benzoate. Journal of Chemical Crystallography, 2021, 51, 582.	1.1	0
77	<i>N</i> -[6-(Dimethylamino)-9-phenyl-3 <i>H</i> -telluroxanthen-3-ylidene]- <i>N</i> -methylmethanaminium hexafluorophosphate monoclinic polymorph. IUCrData, 2021, 6, .	0.3	0
78	3,5-Dichloro- <i>N,N</i> -diphenyl-[1,1'-biphenyl]-4-amine. IUCrData, 2021, 6, .	0.3	0
79	Hybrid organic-inorganic crystal structure of 4-(dimethylamino)pyridinium dimethylammonium tetrachloridolead(II). Acta Crystallographica Section E: Crystallographic Communications, 2017, 73, 1670-1673.	0.5	0
80	1,2-Bis(pyridin-4-yl)ethene-4-hydroxy-3-methoxybenzoic acid (1/1). IUCrData, 2022, 7, .	0.3	0
81	The co-crystal structure of 4-hydroxy-3-methoxybenzoic acid - 4,4'-bipyridine, C ₈ H ₈ O ₄ ·C ₁₀ H ₈ N ₂ . Zeitschrift Fur Kristallographie - New Crystal Structures, 2022, .	0.3	0
82	The crystal structure of 4,4'-bipyridinium bis-(2-hydroxy-3-methoxybenzoate), 2(C ₈ H _{7.68} O ₄)·C ₁₀ H _{8.64} N ₂ . Zeitschrift Fur Kristallographie - New Crystal Structures, 2022, .	0.3	0
83	4,4'-(Ethene-1,2-diyl)dipyridinium bis(2-hydroxy-3-methoxybenzoate). IUCrData, 2022, 7, .	0.3	0
84	Switching charge states in quasi-2D molecular conductors. , 0, , .		0