

Charles L Barnes

List of Publications by Year in descending order

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304743

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86
all docs

86
docs citations

86
times ranked

2245
citing authors

#	ARTICLE	IF	CITATIONS
1	An Efficient and Convenient Reaction Protocol to Organoimido Derivatives of Polyoxometalates. <i>Journal of the American Chemical Society</i> , 2001, 123, 4083-4084.	13.7	240
2	Triangular Halogen \cdots Halogen \cdots Halogen Interactions as a Cohesive Force in the Structures of Trihalomesitylenes. <i>Crystal Growth and Design</i> , 2002, 2, 299-302.	3.0	160
3	Effective Pincer Cobalt Precatalysts for Lewis Acid Assisted CO ₂ Hydrogenation. <i>Inorganic Chemistry</i> , 2016, 55, 8225-8233.	4.0	124
4	1,2-Bis(2-pyridylethynyl)benzene, a Novel Trans-Chelating Bipyridyl Ligand. Structural Characterization of the Complexes with Silver(I) Triflate and Palladium(II) Chloride. <i>Inorganic Chemistry</i> , 2001, 40, 3097-3100.	4.0	67
5	Unusual folded conformation of nicotinamide adenine dinucleotide bound to flavin reductase P. <i>Protein Science</i> , 1999, 8, 1725-1732.	7.6	45
6	Technetium and Rhenium Schiff Base Compounds for Nuclear Medicine: Syntheses of Rhenium Analogues to ^{99m} Tc-Furifosmin. <i>Inorganic Chemistry</i> , 2018, 57, 12920-12933.	4.0	40
7	Polymorphism and C \equiv N \cdots C Conformational Isomers of Azines: X-ray Crystal and Ab Initio Structures of Two Rotational Isomers of Methyl (para-Tolyl) Ketone Azine. <i>Angewandte Chemie International Edition in English</i> , 1994, 33, 1081-1084.	4.4	39
8	Cocrystallization of C-butyl pyrogallol[4]arene and C-propan-3-ol pyrogallol[4]arene with gabapentin. <i>CrystEngComm</i> , 2011, 13, 1446-1449.	2.6	35
9	Bringing Redox Reactivity to a Redox Inactive Metal Center $\hat{\sigma}$ E $\hat{\sigma}$ I (E = C, Si) Bond Cleavage with a Thorium Bis($\hat{\sigma}$ -diimine) Complex. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4050-4055.	2.0	35
10	Synthesis and Crystallographic Characterization of a Novel Platinocycle. <i>Organometallics</i> , 2000, 19, 5522-5524.	2.3	32
11	Ferrocene as a Hydrophobic Templating Agent with Pyrogallol[4]arenes. <i>Israel Journal of Chemistry</i> , 2011, 51, 840-842.	2.3	32
12	From Molecular Design to Supramolecular Design: $\hat{\sigma}$ Synthesis and Size-Selective Coordination Chemistry of 1,2-Bis($\hat{\sigma}$ -pyrazineethynyl) Benzene. <i>Crystal Growth and Design</i> , 2003, 3, 573-580.	3.0	31
13	Trithiols and their arsenic compounds for potential use in diagnostic and therapeutic radiopharmaceuticals. <i>Nuclear Medicine and Biology</i> , 2016, 43, 288-295.	0.6	31
14	A Two-Input Fluorescent Logic Gate for Glutamate and Zinc. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1159-1162.	3.5	31
15	Influences of Bifunctional PNP-Pincer Ligands on Low Valent Cobalt Complexes Relevant to CO ₂ Hydrogenation. <i>Inorganic Chemistry</i> , 2018, 57, 1590-1597.	4.0	31
16	Formation of Methane versus Benzene in the Reactions of (C ₅ Me ₅) ₂ Th(CH ₃) ₂ with [CH ₃ PPH ₃] ₃ X (X=Cl, Br, I) Yielding Thorium $\hat{\sigma}$ Carbene or Thorium $\hat{\sigma}$ lide Complexes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12925-12929.	13.8	30
17	Rhodium(III) Complexes with Acyclic Tetrathioether Ligands. Effects of Backbone Chain Length on the Conformation of the Rh(III) Complex. <i>Inorganic Chemistry</i> , 1996, 35, 7546-7555.	4.0	29
18	Origin of the Stabilization of Vinyldiazonium Ions by $\hat{\sigma}$ -Substitution; First Crystal Structure of an Aliphatic Diazonium Ion: $\hat{\sigma}$ -Diethoxyethene-diazonium Hexachloroantimonate. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 740-743.	4.4	26

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19	Transition Metal Chemistry of Main Group Hydrazides, 9. Platinum Complexes of Diphosphanylhydrazides $R_2PN(Me)N(Me)PR_2$ ($R = OPh$). <i>Inorganic Chemistry</i> , 2001, 40, 3234-3236.	10.2	25
20	Design and Synthesis of a Sterically Hindered Pyridine and Its Encapsulation of Silver(I) Cation. <i>Inorganic Chemistry</i> , 2001, 40, 3234-3236.	4.0	24
21	The Quest for Chain-Link Hydrogen-Bonded Capsules: Self-Assembly of C-Methyl Calix[4]resorcinarene with 1,2-Bis(5-pyrimidyl)ethyne. <i>Crystal Growth and Design</i> , 2004, 4, 235-239.	3.0	24
22	Dithiol Aryl Arsenic Compounds as Potential Diagnostic and Therapeutic Radiopharmaceuticals. <i>Inorganic Chemistry</i> , 2016, 55, 8091-8098.	4.0	24
23	Structures of nitroso- and nitroguanidine X-ray crystallography and computational analysis. <i>Journal of Chemical Crystallography</i> , 2005, 35, 317-325.	1.1	23
24	Diels-Alder reactions of 3-(2-nitrovinyl)indoles: Formation of carbazoles and bridged carbazoles. <i>Journal of Heterocyclic Chemistry</i> , 1993, 30, 183-192.	2.6	22
25	Ligand Flexibility and Dual Complexation Modes on Reaction of 1,2-bis(2-pyridylethynyl)Benzene with Copper(I) Halides. <i>Journal of Coordination Chemistry</i> , 2003, 56, 329-336.	2.2	22
26	Novel Synthetic Approach to Charge-Compensated Phosphonio-nido-Carboranes. Synthesis and Structural Characterization of Neutral Mono and Bis(Phosphonio)ortho-Carboranes. <i>Inorganic Chemistry</i> , 2015, 54, 4143-4150.	4.0	21
27	Hierarchical Self-Assembly of Supramolecular Coordination Polymers Using Giant Metal-Organic Nanocapsules as Building Blocks. <i>Chemistry - A European Journal</i> , 2018, 24, 14335-14340.	3.3	21
28	The Quest for Chain-Link Hydrogen-Bonded Capsules: Self-Assembly of C-Methyl Calix[4]resorcinarene with 5,5-Bipyrimidine. <i>Crystal Growth and Design</i> , 2005, 5, 1049-1053.	3.0	20
29	X-Ray Structures of a 3-Amino-5- and a 3-Amino-6-Substituted Triazine, Produced as a Result of a Reaction of 3-Deoxy-D-Erythro-Hexos-2-Ullose (3-Deoxyglucosone) with Aminoguanidine. <i>Journal of Carbohydrate Chemistry</i> , 1992, 11, 891-901.	1.1	19
30	In situ redox reactions facilitate the assembly of a mixed-valence metal-organic nanocapsule. <i>Nature Communications</i> , 2018, 9, 2119.	12.8	19
31	Donor-Acceptor Interactions in Crystal Engineering. <i>Organic Letters</i> , 2001, 3, 881-883.	4.6	17
32	Synthesis of enantiopure 1,2-azido and 1,2-amino alcohols via regio- and stereoselective ring-opening of enantiopure epoxides by sodium azide in hot water. <i>Tetrahedron: Asymmetry</i> , 2016, 27, 91-100.	1.8	17
33	Chemistry and radiochemistry of As, Re and Rh isotopes relevant to radiopharmaceutical applications: high specific activity radionuclides for imaging and treatment. <i>Dalton Transactions</i> , 2017, 46, 14677-14690.	3.3	17
34	A trithiol bifunctional chelate for $^{72,77}As$: A matched pair theranostic complex with high in vivo stability. <i>Nuclear Medicine and Biology</i> , 2018, 61, 1-10.	0.6	17
35	Site-Specific Metal Chelation Facilitates the Unveiling of Hidden Coordination Sites in an Fe^{II}/Fe^{III} -Seamed Pyrogallol[4]arene Nanocapsule. <i>Journal of the American Chemical Society</i> , 2018, 140, 15611-15615.	13.7	17
36	Uranium(III) and thorium(IV) alkyl complexes as potential starting materials. <i>Chemical Communications</i> , 2016, 52, 14373-14375.	4.1	16

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37	Structure and absolute configuration of pyrophen, a novel pyrone derivative of L-phenylalanine from <i>Aspergillus niger</i> . International Journal of Peptide and Protein Research, 1990, 36, 292-296.	0.1	15
38	The Structure of N-(1-Deoxy-2,6-Difructopyranosyl)-L-Proline Monohydrate (α-D-Fructose-α-L-Proline) and N-(1,6-Dideoxy-1,4-β-D-Fructofuranosyl)-L-Proline (α-L-Rhamnulose-α-L-Proline). Journal of Carbohydrate Chemistry, 2007, 26, 249-266.	0.1	15
39	Synthesis of Thorium(IV) and Uranium(IV) Salicylaldiminate Pseudo-Halide Complexes. European Journal of Inorganic Chemistry, 2015, 2015, 2996-3005.	2.0	14
40	Self-Assembly of C-Methyl Calix[4]resorcinarene with 1,2-Bis(5-pyrimidyl)ethene. Crystal Growth and Design, 2007, 7, 984-988.	3.0	13
41	Preparation, spectroscopic, and structural characterization of the first Co(III) cyanoxime complex: two polymorphs of fac-, tris-(benzoylcyanoximato)cobalt(III), Co(BCO) ₃ . Journal of Coordination Chemistry, 2010, 63, 943-953.	2.2	13
42	Tetradentate bis-phosphine ligands (P2N2 and P2S2) and their Rh(III), Ni(II) and 105Rh Complexes: X-ray crystal structures of trans-[RhCl2(L2)]PF6, [Ni(L2)](PF6)2 and 1/4-O2SO2-[Ni(L5)]2(PF6)2. Nuclear Medicine and Biology, 2011, 38, 63-76.	0.6	13
43	Di- and Trinuclear Mixed-Valence Copper Amidinate Complexes from Reduction of Iodine. Inorganic Chemistry, 2015, 54, 8509-8517.	4.0	13
44	Influence of Substituents on the Electronic Structure of Mono- and Bis(phosphido) Thorium(IV) Complexes. Inorganic Chemistry, 2018, 57, 7270-7278.	4.0	13
45	3-Methylcarboxy-1H-indazole. Theoretical study of its formation via intramolecular aliphatic diazonium coupling and x-ray crystal structure. Journal of Physical Organic Chemistry, 1993, 6, 201-214.	1.9	12
46	Synthesis of the monosubstituted arylcyanoxime and its Na, Tl(I) and Ag(I) compounds. Journal of Coordination Chemistry, 2004, 57, 1205-1216.	2.2	12
47	Phosphinimine complexes of technetium(VII): X-ray crystal structure of [Ph3P=NH+2][TcO ⁴⁻]. Journal of Chemical Crystallography, 1999, 29, 39-43.	1.1	11
48	Synthesis and X-ray crystal structure of a complex formed by reaction of 1,2-bis(2-pyridylethynyl)benzene and mercury(II) chloride. Journal of Chemical Crystallography, 2006, 36, 563-566.	1.1	11
49	Synthesis and structure of an unusual complex formed between 1,2-bis(3-pyridyl)ethyne and C-methyl calix[4]resorcinarene. Journal of Chemical Crystallography, 2004, 34, 859-864.	1.1	10
50	Influence of bidentate ligand donor types on the formation and stability in 2 + 1 fac-[M ³⁺ (CO) ₃] ⁺ (M = Re, ^{99m} Tc) complexes. Dalton Transactions, 2017, 46, 1134-1144.	3.3	10
51	Oxidation State Distributions Provide Insight into Parameters Directing the Assembly of Metal-Organic Nanocapsules. Journal of the American Chemical Society, 2018, 140, 13022-13027.	13.7	10
52	Crystal Structure of the Explosive Parent Benzyne Precursor: 2-Diaziobenzene-carboxylate Hydrate. Chemische Berichte, 1993, 126, 243-249.	0.2	9
53	Transition Metal Chemistry of Main Group Hydrazides, VI. New Directed Synthetic Strategies to Functionalized Heterocyclic Phosphorus(III) Hydrazides. First Examples of Crystal and Molecular Structures of [RPN(Me)N(H)] ₂ (R = Et, Ph, and <i>t</i> -Bu). Chemische Berichte, 1994, 127, 979-984.	0.2	9
54	Synthesis and Characterization of 1,2-Bis(2-Pyrazineethynyl) Benzene Palladium(II) Dichloride and Its Catalysis of the Suzuki Coupling Reaction. Synthetic Communications, 2004, 34, 1499-1505.	2.1	9

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55	Self-Assembly of C-Methyl Calix[4]resorcinarene with 5,5- π^2 -Bipyrimidine. <i>Journal of Chemical Crystallography</i> , 2007, 37, 783-786.	1.1	9
56	Structure of D-Fructosamine Hydrochloride and D-Fructosamine Hydroacetate. <i>Journal of Carbohydrate Chemistry</i> , 2009, 28, 245-263.	1.1	9
57	Application of Suzuki-Miyaura and Buchwald-Hartwig Cross-coupling Reactions to the Preparation of Substituted 1,2,4-Benzotriazine 1-Oxides Related to the Antitumor Agent Tirapazamine. <i>Journal of Heterocyclic Chemistry</i> , 2017, 54, 155-160.	2.6	9
58	Substitution and Intramolecular Rearrangement of trans-[ReO(X)(acac ₂ en/pn)] ^{0/+} (X = OH ₂ or Cl ⁻) to Yield Asymmetric cis-[ReO(Y)(acac ₂ en/pn)] Complexes with Cyanide and Thiocyanate. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2005, 35, 53-59.	0.6	7
59	Reactivity of Mononuclear and Dinuclear Gold(I) Amidinate Complexes with CS ₂ and CsBr ₃ . <i>Inorganics</i> , 2014, 2, 540-551.	2.7	7
60	Synthesis and stability of 2+1 complexes of N,N-diethylbenzoylthiourea with [M ¹](CO) ₃ ⁺ (M = Re, ^{99m} Tc). <i>Journal of Coordination Chemistry</i> , 2015, 68, 3432-3448.	2.2	7
61	Recovery of rhodium with a novel soft donor ligand using solvent extraction techniques in chloride media. <i>Dalton Transactions</i> , 2016, 45, 3264-3267.	3.3	7
62	Organometalchemie unter hydro(solvo)thermalen Bedingungen: Synthese und Strukturen von (Ph) ₄ P ₂ [Mn] ₃ (CO) ₉ (S) ₂ (SH) ₂ , (Ph) ₄ P[Mn] ₂ (CO) ₆ (SH) ₃ und (Ph) ₄ P ₂ [Mn] ₄ (CO) ₁₃ (Te) ₂ ₃ . <i>Angewandte Chemie</i> , 1997, 109, 1961-1964.	2.0	6
63	Ethiopropaziniumyl cation perrhenate salt, (C ₁₉ H ₂₅ N ₂ S) ⁺ [ReO ₄] ⁻ : synthesis and crystal structure. <i>Journal of Chemical Crystallography</i> , 1994, 24, 89-93.	1.1	5
64	Title is missing!. <i>Journal of Chemical Crystallography</i> , 2001, 31, 387-391.	1.1	5
65	Formation of Methane versus Benzene in the Reactions of (C ₅ Me ₅) ₂ Th(CH ₃) ₂ with [CH ₃ PPh ₃] ⁺ X ⁻ (X=Cl, Br, I) Yielding Thorium-Carbene or Thorium-ylide Complexes. <i>Angewandte Chemie</i> , 2017, 129, 13105-13109.	2.0	5
66	Steric influence of salicylaldehyde-based Schiff base ligands on the formation of trans-[Re(PR ₃) ₂ (Schiff base)] ⁺ complexes. <i>Dalton Transactions</i> , 2019, 48, 12943-12955.	3.3	5
67	Multicentered hydrogen bonding in 1-[(1-deoxy- β -D-fructopyranos-1-yl)azaniumyl]cyclopentanecarboxylate (β -D-fructose-cycloleucine'). <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2019, 75, 1096-1101.	0.5	5
68	Crystal structure of chloritopentamminecobalt(III) tetracyanopalladate(II). <i>Journal of Chemical Crystallography</i> , 1999, 29, 819-823.	1.1	4
69	Synthesis and X-ray structure of π^2 -methoxy-2,4,6-trimethyl- π^2 -nitrosobiphenyl. <i>Journal of Chemical Crystallography</i> , 2001, 31, 105-108.	1.1	4
70	Structure and spectroscopy of uranyl and thorium complexes with substituted phosphine oxide ligands. <i>Radiochimica Acta</i> , 2015, 103, 49-56.	1.2	4
71	Pseudo-halide uranyl salicylaldiminate complexes including the isolation of a rare uranyl azide. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1904-1913.	2.2	4
72	Application of Cocrystallization for the Separation of <i>cis</i> -Ethylresorcin[6]arene from <i>cis</i> -Ethylresorcin[4]arene. <i>Crystal Growth and Design</i> , 2017, 17, 4060-4063.	3.0	3

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73	Crystal structure of the acyclic form of 1-deoxy-1-[(4-methoxyphenyl)(methyl)amino]-D-fructose. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 127-132.	0.5	3
74	Polymorphie und C ₁₂ H ₁₄ N ₂ O ₂ -Konformationsisomerie in Azinen: Strukturen zweier Rotationsisomere von Methyl(4-tolyl)ketonazin im Kristall und mit ab-initio-Methoden berechnet. Angewandte Chemie, 1994, 106, 1150-1152.	2.0	2
75	Synthesis of 1,2-bis(2-ethynylpyrimidyl) benzene and characterization of the coordination complexes with palladium(II) chloride and silver(I) trifluoromethanesulfonate. Journal of Coordination Chemistry, 2008, 61, 322-327.	2.2	2
76	Crystal structure of methyl (S)-2-[(R)-4-[(tert-butoxycarbonyl)amino]-3-oxo-1,2-thiazolidin-2-yl]-3-methylbutanoate: a chemical model for oxidized protein tyrosine phosphatase 1B (PTP1B). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 741-743.	0.5	2
77	Even and odd: uranium(IV) complexes with two, four, and six salicylaldiminate ligands with an unusual η^1 -coordination mode. Journal of Coordination Chemistry, 2015, 68, 3718-3726.	2.2	2
78	Crystal structure and hydrogen bonding in N-(1-deoxy- β -D-fructopyranos-1-yl)-2-aminoisobutyric acid. Acta Crystallographica Section E: Crystallographic Communications, 2018, 74, 72-77.	0.5	2
79	Synthesis of 1,2-Bis(8-quinolinyl)ethyne and X-ray Characterization of Its Rearranged Oxidation Product 2-Quinoline-8-yl-pyrrolo[3,2,1-ij]quinoline-4-one. Journal of Chemical Crystallography, 2012, 42, 1080-1084.	1.1	1
80	Crystal structure of N-(quinolin-6-yl)hydroxylamine. Acta Crystallographica Section E: Structure Reports Online, 2014, 70, 322-324.	0.2	1
81	Synthesis and structural studies of 1-amino-1-deoxy- β -L-xyllo-hexulopyranose: L-Sorbosamine. Journal of Carbohydrate Chemistry, 2018, 37, 153-162.	1.1	1
82	Molecular structure of 3-mesityl-1,4-benzoquinonemonoxime. Journal of Chemical Crystallography, 2004, 34, 723-726.	1.1	0
83	Crystal structure of 5-(4-[(2-[2-(2-ammonioethoxy)ethoxy]ethyl)carbamoyl]-4-methoxy-[1,1'-biphenyl]-3-yl]-3-oxo-1,2,5-thiadiazolidin-2-yl)-1,1-dioxide: a potential inhibitor of the enzyme protein tyrosine phosphatase 1B (PTP1B). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 336-338.	0.5	0
84	Recovery, recycling and re-irradiation of enriched ¹⁰⁴ Ru metal targets for cost effective production of ¹⁰⁵ Rh. Applied Radiation and Isotopes, 2021, 176, 109847.	1.5	0