

Charles L Barnes

List of Publications by Year in descending order

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84
papers

1,769
citations

304743

22
h-index

315739

38
g-index

86
all docs

86
docs citations

86
times ranked

2245
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Recovery, recycling and re-irradiation of enriched ^{104}Ru metal targets for cost effective production of ^{105}Rh . <i>Applied Radiation and Isotopes</i> , 2021, 176, 109847. | 1.5 | 0 |
| 2 | Steric influence of salicylaldehyde-based Schiff base ligands on the formation of $\text{trans}[\text{Re}(\text{PR}_3)_2(\text{Schiff base})]^+$ complexes. <i>Dalton Transactions</i> , 2019, 48, 12943-12955. | 3.3 | 5 |
| 3 | 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 |
| 4 | 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 |
| 5 | A trithiol bifunctional chelate for $^{72,77}\text{As}$: A matched pair theranostic complex with high in vivo stability. <i>Nuclear Medicine and Biology</i> , 2018, 61, 1-10. | 0.6 | 17 |
| 6 | Site-Specific Metal Chelation Facilitates the Unveiling of Hidden Coordination Sites in an $\text{Fe}^{\text{II}}/\text{Fe}^{\text{III}}$ -Seamed Pyrogallol[4]arene Nanocapsule. <i>Journal of the American Chemical Society</i> , 2018, 140, 15611-15615. | 13.7 | 17 |
| 7 | Technetium and Rhenium Schiff Base Compounds for Nuclear Medicine: Syntheses of Rhenium Analogues to $^{99\text{m}}\text{Tc}$ -Furifosmin. <i>Inorganic Chemistry</i> , 2018, 57, 12920-12933. | 4.0 | 40 |
| 8 | Oxidation State Distributions Provide Insight into Parameters Directing the Assembly of Metal-Organic Nanocapsules. <i>Journal of the American Chemical Society</i> , 2018, 140, 13022-13027. | 13.7 | 10 |
| 9 | In situ redox reactions facilitate the assembly of a mixed-valence metal-organic nanocapsule. <i>Nature Communications</i> , 2018, 9, 2119. | 12.8 | 19 |
| 10 | Influence of Substituents on the Electronic Structure of Mono- and Bis(phosphido) Thorium(IV) Complexes. <i>Inorganic Chemistry</i> , 2018, 57, 7270-7278. | 4.0 | 13 |
| 11 | Synthesis and structural studies of 1-amino-1-deoxy- β -L-xylo-hexulopyranose: L-Sorbosamine. <i>Journal of Carbohydrate Chemistry</i> , 2018, 37, 153-162. | 1.1 | 1 |
| 12 | 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 |
| 13 | Crystal structure of the acyclic form of 1-deoxy-1-[(4-methoxyphenyl)(methyl)amino]-D-fructose. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 127-132. | 0.5 | 3 |
| 14 | Crystal structure and hydrogen bonding in $\text{N}-(1\text{-deoxy-}\beta\text{-D-fructopyranos-1-yl})\text{-2-aminoisobutyric acid}$. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2018, 74, 72-77. | 0.5 | 2 |
| 15 | 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 |
| 16 | Influence of bidentate ligand donor types on the formation and stability in 2 + 1 $\text{fac}[\text{M}^{\text{I}}(\text{CO})_3]^+$ ($\text{M} = \text{Re}, ^{99\text{m}}\text{Tc}$) complexes. <i>Dalton Transactions</i> , 2017, 46, 1134-1144. | 3.3 | 10 |
| 17 | A Two-Input Fluorescent Logic Gate for Glutamate and Zinc. <i>ACS Chemical Neuroscience</i> , 2017, 8, 1159-1162. | 3.5 | 31 |
| 18 | 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 |

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|----|---|------|-----------|
| 19 | 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 $\hat{=}$ Carbene or Thorium $\hat{=}$ Ylide Complexes. <i>Angewandte Chemie</i> , 2017, 129, 13105-13109. | 2.0 | 5 |
| 20 | 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 $\hat{=}$ Carbene or Thorium $\hat{=}$ Ylide Complexes. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12925-12929. | 13.8 | 30 |
| 21 | 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 |
| 22 | 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 |
| 23 | Effective Pincer Cobalt Precatalysts for Lewis Acid Assisted CO ₂ Hydrogenation. <i>Inorganic Chemistry</i> , 2016, 55, 8225-8233. | 4.0 | 124 |
| 24 | Dithiol Aryl Arsenic Compounds as Potential Diagnostic and Therapeutic Radiopharmaceuticals. <i>Inorganic Chemistry</i> , 2016, 55, 8091-8098. | 4.0 | 24 |
| 25 | Uranium(III) and thorium(IV) alkyl complexes as potential starting materials. <i>Chemical Communications</i> , 2016, 52, 14373-14375. | 4.1 | 16 |
| 26 | Pseudo-halide uranyl salicylaldimate complexes including the isolation of a rare uranyl azide. <i>Journal of Coordination Chemistry</i> , 2016, 69, 1904-1913. | 2.2 | 4 |
| 27 | 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 |
| 28 | 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 |
| 29 | Crystal structure of methyl (<i>S</i>)-2-[(<i>R</i>)-4-[(<i>tert</i> -butoxycarbonyl)amino]-3-oxo-1,2-thiazolidin-2-yl]-3-methylbutanoate: a chemical model for oxidized protein tyrosine phosphatase 1B (PTP1B). <i>Acta Crystallographica Section E: Crystallographic Communications</i> . 2015, 71, 741-743. | 0.5 | 2 |
| 30 | Synthesis of Thorium(IV) and Uranium(IV) Salicylaldimate Pseudo $\hat{=}$ Halide Complexes. <i>European Journal of Inorganic Chemistry</i> , 2015, 2015, 2996-3005. | 2.0 | 14 |
| 31 | Structure and spectroscopy of uranyl and thorium complexes with substituted phosphine oxide ligands. <i>Radiochimica Acta</i> , 2015, 103, 49-56. | 1.2 | 4 |
| 32 | Even and odd: uranium(IV) complexes with two, four, and six salicylaldimate ligands with an unusual f^1 -coordination mode. <i>Journal of Coordination Chemistry</i> , 2015, 68, 3718-3726. | 2.2 | 2 |
| 33 | Di- and Trinuclear Mixed-Valence Copper Amidinate Complexes from Reduction of Iodine. <i>Inorganic Chemistry</i> , 2015, 54, 8509-8517. | 4.0 | 13 |
| 34 | Novel Synthetic Approach to Charge-Compensated Phosphonio- <i>nido</i> -Carboranes. Synthesis and Structural Characterization of Neutral Mono and Bis(Phosphonio) <i>nido</i> - <i>ortho</i> -Carboranes. <i>Inorganic Chemistry</i> , 2015, 54, 4143-4150. | 4.0 | 21 |
| 35 | Crystal structure of 5-{4-[(2-{2-[2-(2-ammonioethoxy)ethoxy]ethoxy}ethyl)carbonyl]-4-methoxy-[1,1'-biphenyl]-3-yl]-3-oxo-1,2,5-thiadiazolidin-2-ylidene}-1,1-dioxide: a potential inhibitor of the enzyme protein tyrosine phosphatase 1B (PTP1B). <i>Acta Crystallographica Section E: Crystallographic Communications</i> . 2015, 71, 336-338. | 0.5 | 0 |
| 36 | Synthesis and stability of 2+1 complexes of N,N-diethylbenzoylthiourea with [M ^I](CO) ₃ ⁺ (M = Re, ^{99m} Tc). <i>Journal of Coordination Chemistry</i> , 2015, 68, 3432-3448. | 2.2 | 7 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Crystal structure of N-(quinolin-6-yl)hydroxylamine. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2014, 70, 322-324. | 0.2 | 1 |
| 39 | Bringing Redox Reactivity to a Redox Inactive Metal Center – E–I (E = C, Si) Bond Cleavage with a Thorium Bis(Imine) Complex. <i>European Journal of Inorganic Chemistry</i> , 2013, 2013, 4050-4055. | 2.0 | 35 |
| 40 | Synthesis of 1,2-Bis(2-quinolinyl)ethyne and X-ray Characterization of Its Rearranged Oxidation Product 2-Quinoline-8-yl-pyrrolo[3,2,1-ij]quinoline-4-one. <i>Journal of Chemical Crystallography</i> , 2012, 42, 1080-1084. | 1.1 | 1 |
| 41 | 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 |
| 42 | Tetradentate bis-phosphine ligands (P ₂ N ₂ and P ₂ S ₂) and their Rh(III), Ni(II) and 105Rh Complexes: X-ray crystal structures of trans-[RhCl ₂ (L ₂)]PF ₆ , [Ni(L ₂)](PF ₆) ₂ and 1/4-O ₂ SO ₂ -[Ni(L ₅)] ₂ (PF ₆) ₂ . <i>Nuclear Medicine and Biology</i> , 2011, 38, 63-76. | 0.6 | 13 |
| 43 | Ferrocene as a Hydrophobic Templating Agent with Pyrogallol[4]arenes. <i>Israel Journal of Chemistry</i> , 2011, 51, 840-842. | 2.3 | 32 |
| 44 | Preparation, spectroscopic, and structural characterization of the first Co(III) cyanoxime complex: two polymorphs of fac-, tris- (benzoylcyanoximate)cobalt(III), Co(BCO) ₃ . <i>Journal of Coordination Chemistry</i> , 2010, 63, 943-953. | 2.2 | 13 |
| 45 | Structure of D-Fructosamine Hydrochloride and D-Fructosamine Hydroacetate. <i>Journal of Carbohydrate Chemistry</i> , 2009, 28, 245-263. | 1.1 | 9 |
| 46 | Synthesis of 1,2-bis(2-ethynylpyrimidyl) benzene and characterization of the coordination complexes with palladium(II) chloride and silver(I) trifluoromethanesulfonate. <i>Journal of Coordination Chemistry</i> , 2008, 61, 322-327. | 2.2 | 2 |
| 47 | The Structure of N-(1-Deoxy-2-fructopyranosyl)-L-proline Monohydrate (α-D-Fructose-L-Proline) and N-(1,6-Deoxy-2-fructofuranosyl)-L-proline (α-L-Rhamnulose-L-Proline). <i>Journal of Carbohydrate Chemistry</i> , 2007, 26, 249-266. | | |
| 48 | Self-Assembly of C-Methyl Calix[4]resorcinarene with 1,2-Bis(5-pyrimidyl)ethene. <i>Crystal Growth and Design</i> , 2007, 7, 984-988. | 3.0 | 13 |
| 49 | Self-Assembly of C-Methyl Calix[4]resorcinarene with 5,5-Bipyrimidine. <i>Journal of Chemical Crystallography</i> , 2007, 37, 783-786. | 1.1 | 9 |
| 50 | Synthesis and X-ray crystal structure of a complex formed by reaction of 1,2-bis(2-pyridylethynyl)benzene and mercury(II) chloride. <i>Journal of Chemical Crystallography</i> , 2006, 36, 563-566. | 1.1 | 11 |
| 51 | Structures of nitroso- and nitroguanidine X-ray crystallography and computational analysis. <i>Journal of Chemical Crystallography</i> , 2005, 35, 317-325. | 1.1 | 23 |
| 52 | 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 |
| 53 | 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 |
| 54 | Synthesis of the monosubstituted arylcyanoxime and its Na, Tl(I) and Ag(I) compounds. <i>Journal of Coordination Chemistry</i> , 2004, 57, 1205-1216. | 2.2 | 12 |

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|----|--|------|-----------|
| 55 | Molecular structure of 3-mesityl-1,4-benzoquinonemonoxime. <i>Journal of Chemical Crystallography</i> , 2004, 34, 723-726. | 1.1 | 0 |
| 56 | Synthesis and structure of an unusual complex formed between 1,2-bis(3-pyridyl)ethyne and C-methyl calix[4]resorcinarene. <i>Journal of Chemical Crystallography</i> , 2004, 34, 859-864. | 1.1 | 10 |
| 57 | 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 |
| 58 | Synthesis and Characterization of 1,2-bis(2-pyrazineethynyl) Benzene Palladium(II) Dichloride and Its Catalysis of the Suzuki Coupling Reaction. <i>Synthetic Communications</i> , 2004, 34, 1499-1505. | 2.1 | 9 |
| 59 | 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 |
| 60 | From Molecular Design to Supramolecular Design: Synthesis and Size-Selective Coordination Chemistry of 1,2-Bis(2-pyrazineethynyl) Benzene. <i>Crystal Growth and Design</i> , 2003, 3, 573-580. | 3.0 | 31 |
| 61 | Triangular Halogen-Halogen-Halogen Interactions as a Cohesive Force in the Structures of Trihalomesitylenes. <i>Crystal Growth and Design</i> , 2002, 2, 299-302. | 3.0 | 160 |
| 62 | 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 |
| 63 | 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 |
| 64 | Donor-Acceptor Interactions in Crystal Engineering. <i>Organic Letters</i> , 2001, 3, 881-883. | 4.6 | 17 |
| 65 | 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 |
| 66 | Title is missing!. <i>Journal of Chemical Crystallography</i> , 2001, 31, 387-391. | 1.1 | 5 |
| 67 | Synthesis and X-ray structure of 5-methoxy-2,4,6-trimethyl-2-nitrosobiphenyl. <i>Journal of Chemical Crystallography</i> , 2001, 31, 105-108. | 1.1 | 4 |
| 68 | Synthesis and Crystallographic Characterization of a Novel Platinocycle. <i>Organometallics</i> , 2000, 19, 5522-5524. | 2.3 | 32 |
| 69 | Crystal structure of chloritopentamminecobalt(III) tetracyanopalladate(II). <i>Journal of Chemical Crystallography</i> , 1999, 29, 819-823. | 1.1 | 4 |
| 70 | Phosphinimine complexes of technetium(VII): X-ray crystal structure of [Ph ₃ P=NH ₂][TcO ₄]. <i>Journal of Chemical Crystallography</i> , 1999, 29, 39-43. | 1.1 | 11 |
| 71 | Unusual folded conformation of nicotinamide adenine dinucleotide bound to flavin reductase P. <i>Protein Science</i> , 1999, 8, 1725-1732. | 7.6 | 45 |
| 72 | Organometallchemie unter hydro(solvo)thermalen Bedingungen: Synthese und Strukturen von (Ph ₄ P) ₂ [Mn ₃ (CO) ₉ (S ₂) ₂ (SH)], (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 |

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|----|--|-----|-----------|
| 73 | 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 |
| 74 | Ethopropaziniumyl 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 |
| 75 | 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). <i>Chemische Berichte</i> , 1994, 127, 979-984. | 0.2 | 9 |
| 76 | Transition Metal Chemistry of Main Group Hydrazides, 9. Platinum Complexes of Diphosphanylhydrazides R ₂ PN(Me)N(Me)PR ₂ . PtCl ₂ (R = OPh,) <i>Journal of Chemical Crystallography</i> , 1994, 24, 127, 1355-1357. | 0.2 | 25 |
| 77 | Polymorphism and C ₂ N ₂ 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 |
| 78 | Polymorphie und C ₂ N ₂ C Konformationsisomerie in Azinen: Strukturen zweier Rotationsisomere von Methyl(<i>para</i> -tolyl)ketonazin im Kristall und mit ab-initio-Methoden berechnet. <i>Angewandte Chemie</i> , 1994, 106, 1150-1152. | 2.0 | 2 |
| 79 | Crystal Structure of the Explosive Parent Benzyne Precursor: 2-Diazoniobenzenecarboxylate Hydrate. <i>Chemische Berichte</i> , 1993, 126, 243-249. | 0.2 | 9 |
| 80 | 3-Methylcarboxy-1H-indazole. Theoretical study of its formation via intramolecular aliphatic diazonium coupling and x-ray crystal structure. <i>Journal of Physical Organic Chemistry</i> , 1993, 6, 201-214. | 1.9 | 12 |
| 81 | 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 |
| 82 | 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-Ulose (3-Deoxyglucosone) with Aminoguanidine. <i>Journal of Carbohydrate Chemistry</i> , 1992, 11, 891-901. | 1.1 | 19 |
| 83 | Origin of the Stabilization of Vinyl Diazonium Ions by ² -Substitution; First Crystal Structure of an Aliphatic Diazonium Ion: 1,2-Diethoxyethene-diazonium Hexachloroantimonate. <i>Angewandte Chemie International Edition in English</i> , 1992, 31, 740-743. | 4.4 | 26 |
| 84 | Structure and absolute configuration of pyrophen, a novel pryronone derivative of L-phenylalanine from <i>Aspergillus niger</i> . <i>International Journal of Peptide and Protein Research</i> , 1990, 36, 292-296. | 0.1 | 15 |