James W Canary

List of Publications by Year
in descending order

76	3,500	136950	144013
papers	citations	32 h-index	57 g-index

130	130	130	3476
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electron-Induced Inversion of Helical Chirality in Copper Complexes of N,N-Dialkylmethionines. Science, 2000, 288, 1404-1407.	12.6	213
2	Redox-triggered chiroptical molecular switches. Chemical Society Reviews, 2009, 38, 747.	38.1	198
3	pKa Values and Geometries of Secondary and Tertiary Amines Complexed to Boronic AcidsImplications for Sensor Design. Organic Letters, 2001, 3, 1311-1314.	4.6	181
4	Chiral nanotechnology. Chirality, 2005, 17, 404-420.	2.6	171
5	Tailoring tripodal ligands for zinc sensing. New Journal of Chemistry, 2007, 31, 1708.	2.8	158
6	A Simple Method for the Determination of Enantiomeric Excess and Identity of Chiral Carboxylic Acids. Journal of the American Chemical Society, 2011, 133, 13746-13752.	13.7	148
7	Transition metal-based chiroptical switches for nanoscale electronics and sensors. Coordination Chemistry Reviews, 2010, 254, 2249-2266.	18.8	126
8	Conformationally Driven, Propeller-like Chirality in Labile Coordination Complexes. Journal of the American Chemical Society, 1995, 117, 8484-8485.	13.7	106
9	Redox-Switched Exciton-Coupled Circular Dichroism: A Novel Strategy for Binary Molecular Switching. Angewandte Chemie - International Edition, 1998, 37, 305-307.	13.8	96
10	A Redox-Reconfigurable, Ambidextrous Asymmetric Catalyst. Journal of the American Chemical Society, 2012, 134, 8054-8057.	13.7	91
11	Electrospray mass spectrometry and X-ray crystallography studies of divalent metal ion complexes of tris (2-pyridylmethyl) amine. Inorganica Chimica Acta, 1995, 239, 29-37.	2.4	89
12	Chelation-Enhanced Circular Dichroism of Tripodal Bisporphyrin Ligands. Journal of the American Chemical Society, 2007, 129, 1506-1507.	13.7	87
13	Amyloid fibrils nucleated and organized by DNA origami constructions. Nature Nanotechnology, 2014, 9, 537-541.	31.5	78
14	Synthesis, Cyclic Voltammetry, and x-ray Crystal Structures of Copper(I) and Copper(II) Complexes of Tris((6-phenyl-2-pyridyl)methyl)amine (TPPA). Inorganic Chemistry, 1995, 34, 2562-2568.	4.0	76
15	Cu(I/II) Redox Control of Molecular Conformation and Shape in Chiral Tripodal Ligands:Â Binary Exciton-Coupled Circular Dichroic States. Journal of the American Chemical Society, 2002, 124, 9204-9211.	13.7	72
16	Solid State and Solution Characterization of Chiral, Conformationally Mobile Tripodal Ligands. Inorganic Chemistry, 1998, 37, 6255-6262.	4.0	65
17	Absolute Configurations of N,N-Dialkyl Î±-Amino Acids and Î²-Amino Alcohols from Exciton-Coupled Circular Dichroism Spectra of Cu(II) Complexes. Organic Letters, 1999, 1, 861-864.	4.6	64
18	Coupling Across a DNA Helical Turn Yields a Hybrid DNA/Organic Catenane Doubly Tailed with Functional Termini. Journal of the American Chemical Society, 2008, 130, 10882-10883.	13.7	56

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19	Nylon/DNA:Â Single-Stranded DNA with a Covalently Stitched Nylon Lining. Journal of the American Chemical Society, 2003, 125, 10178-10179.	13.7	55
20	Derivatization, complexation, and absolute configurational assignment of chiral primary amines: Application of exciton-coupled circular dichroism. Chirality, 2003, 15, 180-189.	2.6	53
21	Longâ€Lived ¹H Nuclear Spin Singlet in Dimethyl Maleate Revealed by Addition of Thiols. Angewandte Chemie - International Edition, 2014, 53, 3396-3399.	13.8	52
22	Synthesis and circular dichroism studies of N,N-bis(2-quinolylmethyl)amino acid Cu(II) complexes: Determination of absolute configuration and enantiomeric excess by the exciton coupling method. Chirality, 2002, 14, 471-477.	2.6	49
23	A chiroptically enhanced fluorescent chemosensor. Chemical Communications, 1998, , 203-204.	4.1	48
24	Enantioâ€•and Chemoselective Differentiation of Protected Î±â€Amino Acids and Î²â€Homoamino Acids with a Single Copper(II) Host. Chemistry - A European Journal, 2012, 18, 8064-8069.	3.3	47
25	An Organic Semiconductor Organized into 3D DNA Arrays by â€œBottomâ€upâ€•Rational Design. Angewandte Chemie - International Edition, 2017, 56, 6445-6448.	13.8	47
26	Organizing End-Site-Specific SWCNTs in Specific Loci Using DNA. Journal of the American Chemical Society, 2019, 141, 11923-11928.	13.7	45
27	Stereochemical control of Zn(ii)/Cu(ii) selectivity in piperidine tripod ligands. Chemical Communications, 2002, , 1414-1415.	4.1	43
28	Redox Inversion of Helicity in Propeller-Shaped Molecules Derived fromS-Methyl Cysteine and Methioninol. Organic Letters, 2003, 5, 709-711.	4.6	42
29	Absolute configurational assignment of self-organizing asymmetric tripodal ligand-metal complexes. , 1997, 9, 616-622.		41
30	Detection of Zinc Ions by Differential Circularly Polarized Fluorescence Excitation. Journal of the American Chemical Society, 2004, 126, 11760-11761.	13.7	38
31	Redox-reconfigurable tripodal coordination complexes: stereodynamic molecular switches. Chemical Communications, 2010, 46, 5850.	4.1	38
32	Limits in Proton Nuclear Singletâ€State Lifetimes Measured with paraâ€Hydrogenâ€Induced Polarization. ChemPhysChem, 2016, 17, 2967-2971.	2.1	38
33	Redox-Induced Ligand Reorganization and Helicity Inversion in Copper Complexes ofN,N-Dialkylmethionine Derivatives. Inorganic Chemistry, 2006, 45, 6056-6063.	4.0	36
34	Two-Photon, Ratiometric, Quantitative Fluorescent Probe Reveals Fluctuation of Peroxynitrite Regulated by Arginase 1. Analytical Chemistry, 2021, 93, 10090-10098.	6.5	36
35	Supramolecular Detection of Metal Ion Binding: Ligand Conformational Control of Cholesteric Induction in Nematic Liquid Crystalline Phases. Chemistry - A European Journal, 2001, 7, 88-93.	3.3	30
36	Selective Recognition of Organic Molecules by Metallohosts. Progress in Inorganic Chemistry, 0, , 1-81.	3.0	30

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37	Peptide Hydrogenation and Labeling with Parahydrogen. Angewandte Chemie - International Edition, 2012, 51, 11787-11790.	13.8	28
38	Rigidified tripodal chiral ligands in the asymmetric recognition of amino compounds. Chirality, 2005, 17, S227-S233.	2.6	27
39	An Electrochiroptical Molecular Switch:Â Mechanistic and Kinetic Studies. Inorganic Chemistry, 2005, 44, 7652-7660.	4.0	27
40	Exploring the scope of redoxâ€triggered chiroptical switches: Syntheses, Xâ€ray structures, and circular dichroism of cobalt and nickel complexes of N,Nâ€Bis(arylmethyl)methionine derivatives. Chirality, 2008, 20, 585-591.	2.6	27
41	Hyperpolarization of amino acid precursors to neurotransmitters with parahydrogen induced polarization. Chemical Communications, 2013, 49, 5304.	4.1	27
42	Conformational control of propeller-like chirality in Zn(II) complexes: Tightly balanced steric bias. Tetrahedron, 1999, 55, 12069-12078.	1.9	26
43	Reversible Redox Reconfiguration of Secondary Structures in a Designed Peptide. Angewandte Chemie - International Edition, 2012, 51, 12099-12101.	13.8	26
44	Prospects for circular dichroism detection of nonracemic extraterrestrial organic molecules. Enantiomer, 2001, 6, 181-8.	0.5	26
45	The influence of phenyl substituents on the redox potentials of sterically hindered tripodal ligand/copper complexes. Supramolecular Chemistry, 1995, 5, 39-43.	1.2	24
46	Tris[(2-Pyridyl)Methyl] Amine (TPA) and (+)-Bis[(2-Pyridyl)methyl]-1-(2-Pyridyl)-Ethylamine (Î±-Metpa). Inorganic Syntheses, 2007, , 70-75.	0.3	24
47	Visible colour displacement sensing system for manganese(II). Supramolecular Chemistry, 2009, 21, 296-300.	1.2	23
48	Stereodynamic Coordination Complexes. Dependence of Exciton Coupled Circular Dichroism Spectra on Molecular Conformation and Shape. Monatshefte FÃ¼r Chemie, 2005, 136, 461-475.	1.8	22
49	Redox-Triggered Interconversion between Piperidine Chair Conformations in a Cu(I/II) Complex. Organic Letters, 2006, 8, 3907-3910.	4.6	22
50	Electronic control of helical chirality. Trends in Biotechnology, 2001, 19, 251-255.	9.3	20
51	Conformational dynamics of Cu(i) complexes of tripodal ligands: steric control of molecular motion. New Journal of Chemistry, 2005, 29, 1147.	2.8	20
52	Construction of a DNA Origami Based Molecular Electro-optical Modulator. Nano Letters, 2018, 18, 2112-2115.	9.1	19
53	Thermodynamic Analysis of Nylon Nucleic Acids. ChemBioChem, 2008, 9, 1641-1648.	2.6	16
54	Structures, Metal Ion Affinities, and Fluorescence Properties of Soluble Derivatives of Tris((6-phenyl-2-pyridyl)methyl)amine. Inorganic Chemistry, 2009, 48, 11196-11208.	4.0	16

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55	Extended para-hydrogenation monitored by NMR spectroscopy. Chemical Communications, 2011, 47, 958-960.	4.1	16
56	Structural parameters of Zn(II) complexes of 8-hydroxyquinoline-based tripodal ligands affect fluorescence quantum yield. Polyhedron, 2013, 58, 85-91.	2.2	16
57	Crystal-Driven Distortion of Ligands in Copper Coordination Complexes: Conformational Pseudo-Enantiomers. Chemistry - A European Journal, 2002, 8, 5679-5683.	3.3	15
58	Synthesis and Characterization of Aldol Condensation Products from Unknown Aldehydes and Ketones. Journal of Chemical Education, 2007, 84, 1816.	2.3	15
59	Exciton Delocalization in a DNA-Templated Organic Semiconductor Dimer Assembly. ACS Nano, 2022, 16, 1301-1307.	14.6	15
60	2â€²,2â€²-Ligation demonstrates the thermal dependence of DNA-directed positional control. Tetrahedron, 2008, 64, 8417-8422.	1.9	14
61	Site-specific inter-strand cross-links of DNA duplexes. Chemical Science, 2013, 4, 1319.	7.4	14
62	A stereodynamic tripodal ligand with three different coordinating arms: Synthesis and zinc(II), copper(I) complexation study. Chirality, 2011, 23, 24-33.	2.6	12
63	Templated synthesis of nylon nucleic acids and characterization by nuclease digestion. Chemical Science, 2012, 3, 1930.	7.4	12
64	Singlet excitation in the intermediate magnetic equivalence regime and field-dependent study of singletâ€“triplet leakage. Physical Chemistry Chemical Physics, 2019, 21, 2595-2600.	2.8	12
65	Redox-configurable ambidextrous catalysis: structural and mechanistic insight. Chemical Science, 2015, 6, 5904-5912.	7.4	11
66	An Organic Semiconductor Organized into 3D DNA Arrays by â€œBottomâ€upâ€•Rational Design. Angewandte Chemie, 2017, 129, 6545-6548.	2.0	10
67	REACTION OF N3-BENZOYL-3â€²,5â€²-O-(DI-TERT-BUTYLSILANEDIYL)URIDINE WITH HINDERED ELECTROPHILES: INTERMOLECULAR N3To 2â€²-OPROTECTING GROUP TRANSFER. Nucleosides, Nucleotides and Nucleic Acids, 2002, 21, 723-735.	1.1	9
68	Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. Angewandte Chemie - International Edition, 2022, 61, .	13.8	8
69	Chiroptical switches and sensors based on ligand conformational changes in labile coordination complexes. Enantiomer, 2000, 5, 397-403.	0.5	8
70	Weak nuclear spin singlet relaxation mechanisms revealed by experiment and computation. Physical Chemistry Chemical Physics, 2022, 24, 7531-7538.	2.8	7
71	The unusual and dynamic character of PX-DNA. Nucleic Acids Research, 2015, 43, 7201-7206.	14.5	5
72	Targeted amplification of delivery to cell surface receptors by dendrimer self-assembly. Bioorganic and Medicinal Chemistry Letters, 2014, 24, 1290-1293.	2.2	2

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73	Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. Angewandte Chemie, 2022, 134, .	2.0	2
74	Redox Control of Stilbylvinylpyridine Chormophore Pairwise Orientations: Towards Solid State Materials for Molecular Electronics. Materials Research Society Symposia Proceedings, 1999, 598, 189.	0.1	0
75	Special Issue Honoring Professor Nina Berova. Chirality, 2008, 20, 249-250.	2.6	0
76	Inside Cover: Combining Aminocyanine Dyes with Polyamide Dendrons: A Promising Strategy for Imaging in the Nearâ€Infrared Region (Chem. Eur. J. 13/2011). Chemistry - A European Journal, 2011, 17, 3526-3526.	3.3	0