

# James W Canary

## List of Publications by Year in descending order

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76  
papers

3,500  
citations

136950

32  
h-index

144013

57  
g-index

130  
all docs

130  
docs citations

130  
times ranked

3476  
citing authors

#	ARTICLE	IF	CITATIONS
1	Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	2
2	Orienting an Organic Semiconductor into DNA 3D Arrays by Covalent Bonds. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	8
3	Exciton Delocalization in a DNA-Templated Organic Semiconductor Dimer Assembly. <i>ACS Nano</i> , 2022, 16, 1301-1307.	14.6	15
4	Weak nuclear spin singlet relaxation mechanisms revealed by experiment and computation. <i>Physical Chemistry Chemical Physics</i> , 2022, 24, 7531-7538.	2.8	7
5	Two-Photon, Ratiometric, Quantitative Fluorescent Probe Reveals Fluctuation of Peroxynitrite Regulated by Arginase 1. <i>Analytical Chemistry</i> , 2021, 93, 10090-10098.	6.5	36
6	Organizing End-Site-Specific SWCNTs in Specific Loci Using DNA. <i>Journal of the American Chemical Society</i> , 2019, 141, 11923-11928.	13.7	45
7	Singlet excitation in the intermediate magnetic equivalence regime and field-dependent study of singlet $\rightarrow$ triplet leakage. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 2595-2600.	2.8	12
8	Construction of a DNA Origami Based Molecular Electro-optical Modulator. <i>Nano Letters</i> , 2018, 18, 2112-2115.	9.1	19
9	An Organic Semiconductor Organized into 3D DNA Arrays by $\alpha$ -Bottom $\rightarrow$ -Rational Design. <i>Angewandte Chemie</i> , 2017, 129, 6545-6548.	2.0	10
10	An Organic Semiconductor Organized into 3D DNA Arrays by $\alpha$ -Bottom $\rightarrow$ -Rational Design. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6445-6448.	13.8	47
11	Limits in Proton Nuclear Singlet $\rightarrow$ State Lifetimes Measured with $\langle i \rangle$ para $\langle /i \rangle$ $\rightarrow$ Hydrogen $\rightarrow$ Induced Polarization. <i>ChemPhysChem</i> , 2016, 17, 2967-2971.	2.1	38
12	Redox-configurable ambidextrous catalysis: structural and mechanistic insight. <i>Chemical Science</i> , 2015, 6, 5904-5912.	7.4	11
13	The unusual and dynamic character of PX-DNA. <i>Nucleic Acids Research</i> , 2015, 43, 7201-7206.	14.5	5
14	Long $\rightarrow$ Lived $\langle \sup \rangle 1 \langle /sup \rangle$ H Nuclear Spin Singlet in Dimethyl Maleate Revealed by Addition of Thiols. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 3396-3399.	13.8	52
15	Targeted amplification of delivery to cell surface receptors by dendrimer self-assembly. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2014, 24, 1290-1293.	2.2	2
16	Amyloid fibrils nucleated and organized by DNA origami constructions. <i>Nature Nanotechnology</i> , 2014, 9, 537-541.	31.5	78
17	Hyperpolarization of amino acid precursors to neurotransmitters with parahydrogen induced polarization. <i>Chemical Communications</i> , 2013, 49, 5304.	4.1	27
18	Structural parameters of Zn(II) complexes of 8-hydroxyquinoline-based tripodal ligands affect fluorescence quantum yield. <i>Polyhedron</i> , 2013, 58, 85-91.	2.2	16

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19	Site-specific inter-strand cross-links of DNA duplexes. <i>Chemical Science</i> , 2013, 4, 1319.	7.4	14
20	Peptide Hydrogenation and Labeling with Parahydrogen. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 11787-11790.	13.8	28
21	Reversible Redox Reconfiguration of Secondary Structures in a Designed Peptide. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12099-12101.	13.8	26
22	Templated synthesis of nylon nucleic acids and characterization by nuclease digestion. <i>Chemical Science</i> , 2012, 3, 1930.	7.4	12
23	A Redox-Reconfigurable, Ambidextrous Asymmetric Catalyst. <i>Journal of the American Chemical Society</i> , 2012, 134, 8054-8057.	13.7	91
24	Enantioselective and Chemoselective Differentiation of Protected $\alpha$ -Amino Acids and $\beta$ -Homoamino Acids with a Single Copper(II) Host. <i>Chemistry - A European Journal</i> , 2012, 18, 8064-8069.	3.3	47
25	Extended para-hydrogenation monitored by NMR spectroscopy. <i>Chemical Communications</i> , 2011, 47, 958-960.	4.1	16
26	A Simple Method for the Determination of Enantiomeric Excess and Identity of Chiral Carboxylic Acids. <i>Journal of the American Chemical Society</i> , 2011, 133, 13746-13752.	13.7	148
27	Inside Cover: Combining Aminocyanine Dyes with Polyamide Dendrons: A Promising Strategy for Imaging in the Near-Infrared Region ( <i>Chem. Eur. J.</i> 13/2011). <i>Chemistry - A European Journal</i> , 2011, 17, 3526-3526.	3.3	0
28	A stereodynamic tripodal ligand with three different coordinating arms: Synthesis and zinc(II), copper(I) complexation study. <i>Chirality</i> , 2011, 23, 24-33.	2.6	12
29	Transition metal-based chiroptical switches for nanoscale electronics and sensors. <i>Coordination Chemistry Reviews</i> , 2010, 254, 2249-2266.	18.8	126
30	Redox-reconfigurable tripodal coordination complexes: stereodynamic molecular switches. <i>Chemical Communications</i> , 2010, 46, 5850.	4.1	38
31	Structures, Metal Ion Affinities, and Fluorescence Properties of Soluble Derivatives of Tris((6-phenyl-2-pyridyl)methyl)amine. <i>Inorganic Chemistry</i> , 2009, 48, 11196-11208.	4.0	16
32	Redox-triggered chiroptical molecular switches. <i>Chemical Society Reviews</i> , 2009, 38, 747.	38.1	198
33	Visible colour displacement sensing system for manganese(II). <i>Supramolecular Chemistry</i> , 2009, 21, 296-300.	1.2	23
34	Thermodynamic Analysis of Nylon Nucleic Acids. <i>ChemBioChem</i> , 2008, 9, 1641-1648.	2.6	16
35	Special Issue Honoring Professor Nina Berova. <i>Chirality</i> , 2008, 20, 249-250.	2.6	0
36	Exploring the scope of redox-triggered chiroptical switches: Syntheses, X-ray structures, and circular dichroism of cobalt and nickel complexes of <i>N,N</i> -bis(arylmethyl)methionine derivatives. <i>Chirality</i> , 2008, 20, 585-591.	2.6	27

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37	2â€²,2â€²-Ligation demonstrates the thermal dependence of DNA-directed positional control. <i>Tetrahedron</i> , 2008, 64, 8417-8422.	1.9	14
38	Coupling Across a DNA Helical Turn Yields a Hybrid DNA/Organic Catenane Doubly Tailed with Functional Termini. <i>Journal of the American Chemical Society</i> , 2008, 130, 10882-10883.	13.7	56
39	Tailoring tripodal ligands for zinc sensing. <i>New Journal of Chemistry</i> , 2007, 31, 1708.	2.8	158
40	Chelation-Enhanced Circular Dichroism of Tripodal Bisporphyrin Ligands. <i>Journal of the American Chemical Society</i> , 2007, 129, 1506-1507.	13.7	87
41	Synthesis and Characterization of Aldol Condensation Products from Unknown Aldehydes and Ketones. <i>Journal of Chemical Education</i> , 2007, 84, 1816.	2.3	15
42	Tris[(2-Pyridyl)methyl] Amine (TPA) and (+)-Bis[(2-Pyridyl)methyl]-1-(2-Pyridyl)-Ethylamine (Î±-Metpa). <i>Inorganic Syntheses</i> , 2007, , 70-75.	0.3	24
43	Redox-Induced Ligand Reorganization and Helicity Inversion in Copper Complexes of N,N-Dialkylmethionine Derivatives. <i>Inorganic Chemistry</i> , 2006, 45, 6056-6063.	4.0	36
44	Redox-Triggered Interconversion between Piperidine Chair Conformations in a Cu(I/II) Complex. <i>Organic Letters</i> , 2006, 8, 3907-3910.	4.6	22
45	Rigidified tripodal chiral ligands in the asymmetric recognition of amino compounds. <i>Chirality</i> , 2005, 17, S227-S233.	2.6	27
46	Chiral nanotechnology. <i>Chirality</i> , 2005, 17, 404-420.	2.6	171
47	Stereodynamic Coordination Complexes. Dependence of Exciton Coupled Circular Dichroism Spectra on Molecular Conformation and Shape. <i>Monatshefte für Chemie</i> , 2005, 136, 461-475.	1.8	22
48	An Electrochiroptical Molecular Switch: Mechanistic and Kinetic Studies. <i>Inorganic Chemistry</i> , 2005, 44, 7652-7660.	4.0	27
49	Conformational dynamics of Cu(I) complexes of tripodal ligands: steric control of molecular motion. <i>New Journal of Chemistry</i> , 2005, 29, 1147.	2.8	20
50	Detection of Zinc Ions by Differential Circularly Polarized Fluorescence Excitation. <i>Journal of the American Chemical Society</i> , 2004, 126, 11760-11761.	13.7	38
51	Derivatization, complexation, and absolute configurational assignment of chiral primary amines: Application of exciton-coupled circular dichroism. <i>Chirality</i> , 2003, 15, 180-189.	2.6	53
52	Redox Inversion of Helicity in Propeller-Shaped Molecules Derived from S-Methyl Cysteine and Methioninol. <i>Organic Letters</i> , 2003, 5, 709-711.	4.6	42
53	Nylon/DNA: Single-Stranded DNA with a Covalently Stitched Nylon Lining. <i>Journal of the American Chemical Society</i> , 2003, 125, 10178-10179.	13.7	55
54	Cu(I/II) Redox Control of Molecular Conformation and Shape in Chiral Tripodal Ligands: Binary Exciton-Coupled Circular Dichroic States. <i>Journal of the American Chemical Society</i> , 2002, 124, 9204-9211.	13.7	72

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55	Stereochemical control of Zn(ii)/Cu(ii) selectivity in piperidine tripod ligands. <i>Chemical Communications</i> , 2002, , 1414-1415.	4.1	43
56	REACTION OF N3-BENZOYL-3 $\beta$ -O-(DI-TERT-BUTYLSILANEDIYL)URIDINE WITH HINDERED ELECTROPHILES: INTERMOLECULAR N3To 2 $\beta$ -OPROTECTING GROUP TRANSFER. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2002, 21, 723-735.	1.1	9
57	Crystal-Driven Distortion of Ligands in Copper Coordination Complexes: Conformational Pseudo-Enantiomers. <i>Chemistry - A European Journal</i> , 2002, 8, 5679-5683.	3.3	15
58	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. <i>Chirality</i> , 2002, 14, 471-477.	2.6	49
59	pKa Values and Geometries of Secondary and Tertiary Amines Complexed to Boronic Acids Implications for Sensor Design. <i>Organic Letters</i> , 2001, 3, 1311-1314.	4.6	181
60	Supramolecular Detection of Metal Ion Binding: Ligand Conformational Control of Cholesteric Induction in Nematic Liquid Crystalline Phases. <i>Chemistry - A European Journal</i> , 2001, 7, 88-93.	3.3	30
61	Electronic control of helical chirality. <i>Trends in Biotechnology</i> , 2001, 19, 251-255.	9.3	20
62	Prospects for circular dichroism detection of nonracemic extraterrestrial organic molecules. <i>Enantiomer</i> , 2001, 6, 181-8.	0.5	26
63	Electron-Induced Inversion of Helical Chirality in Copper Complexes of N,N-Dialkylmethionines. <i>Science</i> , 2000, 288, 1404-1407.	12.6	213
64	Chiroptical switches and sensors based on ligand conformational changes in labile coordination complexes. <i>Enantiomer</i> , 2000, 5, 397-403.	0.5	8
65	Conformational control of propeller-like chirality in Zn(II) complexes: Tightly balanced steric bias. <i>Tetrahedron</i> , 1999, 55, 12069-12078.	1.9	26
66	Absolute Configurations of N,N-Dialkyl $\hat{1}$ -Amino Acids and $\hat{1}$ -Amino Alcohols from Exciton-Coupled Circular Dichroism Spectra of Cu(II) Complexes. <i>Organic Letters</i> , 1999, 1, 861-864.	4.6	64
67	Redox Control of Stilbylvinylpyridine Chromophore Pairwise Orientations: Towards Solid State Materials for Molecular Electronics. <i>Materials Research Society Symposia Proceedings</i> , 1999, 598, 189.	0.1	0
68	Redox-Switched Exciton-Coupled Circular Dichroism: A Novel Strategy for Binary Molecular Switching. <i>Angewandte Chemie - International Edition</i> , 1998, 37, 305-307.	13.8	96
69	A chiroptically enhanced fluorescent chemosensor. <i>Chemical Communications</i> , 1998, , 203-204.	4.1	48
70	Solid State and Solution Characterization of Chiral, Conformationally Mobile Tripodal Ligands. <i>Inorganic Chemistry</i> , 1998, 37, 6255-6262.	4.0	65
71	Absolute configurational assignment of self-organizing asymmetric tripodal ligand-metal complexes. , 1997, 9, 616-622.		41
72	Electrospray mass spectrometry and X-ray crystallography studies of divalent metal ion complexes of tris (2-pyridylmethyl) amine. <i>Inorganica Chimica Acta</i> , 1995, 239, 29-37.	2.4	89

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73	Conformationally Driven, Propeller-like Chirality in Labile Coordination Complexes. <i>Journal of the American Chemical Society</i> , 1995, 117, 8484-8485.	13.7	106
74	Synthesis, Cyclic Voltammetry, and x-ray Crystal Structures of Copper(I) and Copper(II) Complexes of Tris((6-phenyl-2-pyridyl)methyl)amine (TPPA). <i>Inorganic Chemistry</i> , 1995, 34, 2562-2568.	4.0	76
75	The influence of phenyl substituents on the redox potentials of sterically hindered tripodal ligand/copper complexes. <i>Supramolecular Chemistry</i> , 1995, 5, 39-43.	1.2	24
76	Selective Recognition of Organic Molecules by Metallohosts. <i>Progress in Inorganic Chemistry</i> , 0, , 1-81.	3.0	30