Danielle L Gray

List of Publications by Year
in descending order

74 papers	1,829 citations	304743 22 h-index	276875 41 g-index
83 all docs	83 docs citations	83 times ranked	2554 citing authors

#	Article	IF	Citations
1	Trioxazolo[2³]metacyclophane: synthesis, structural analysis, and optical properties. Acta Crystallographica Section C, Structural Chemistry, 2022, 78, 81-87.	0.5	0
2	Automated iterative Csp3â€“C bond formation. Nature, 2022, 604, 92-97.	27.8	62
3	Radically Tunable n-Type Organic Semiconductor via Polymorph Control. Chemistry of Materials, 2021, 33, 2466-2477.	6.7	15
4	Near quantitative synthesis of urea macrocycles enabled by bulky N-substituent. Nature Communications, 2021, 12, 1572.	12.8	12
5	Intramolecular Hydrogen-Bond Interactions Tune Reactivity in Biomimetic Bis(Î¼-hydroxo)dicobalt Complexes. Inorganic Chemistry, 2021, 60, 15599-15609.	4.0	4
6	Varying the secondary coordination sphere: synthesis of cobalt and iron complexes of a tripodal ligand featuring two hydrogen-bond donors or acceptors. Journal of Coordination Chemistry, 2020, 73, 2195-2208.	2.2	3
7	Platinum Ï‰-Alkenyl Compounds as Chemical Vapor Deposition Precursors: Synthesis and Characterization of Pt[CH2CMe2CH2CHâ•CH2]2 and the Impact of Ligand Design on the Deposition Process. Chemistry of Materials, 2020, 32, 9316-9334.	6.7	6
8	Electrochemical Studies of Selected Lanthanide and Californium Cryptates. Inorganic Chemistry, 2019, 58, 9602-9612.	4.0	19
9	Lithiumâ€“Olefin Ï€-Complexes and the Mechanism of Carbolithiation: Synthesis, Solution Behavior, and Crystal Structure of (2,2-Dimethylpent-4-en-1-yl)lithium. Organometallics, 2019, 38, 2199-2210.	2.3	8
10	Radical Rebound Hydroxylation Versus H-Atom Transfer in Non-Heme Iron(III)-Hydroxo Complexes: Reactivity and Structural Differentiation. Journal of the American Chemical Society, 2019, 141, 6639-6650.	13.7	45
11	Fluorous-Soluble Metal Chelate for Sensitive Fluorine-19 Magnetic Resonance Imaging Nanoemulsion Probes. ACS Nano, 2019, 13, 143-151.	14.6	43
12	In-plane hexagonal antiferromagnet in the Cu-Mn-As system <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Cu</mml:mi><mml:mrow><mml:mn>0.82</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math>MnAs. Physical Review Materials, 2019, 3, .	2.4	4
13	Product Distribution from Precursor Bite Angle Variation in Multitopic Alkyne Metathesis: Evidence for a Putative Kinetic Bottleneck. Journal of the American Chemical Society, 2018, 140, 5825-5833.	13.7	34
14	Sterically Stabilized Terminal Hydride of a Diiron Dithiolate. Inorganic Chemistry, 2018, 57, 1988-2001.	4.0	21
15	Dish-like higher-ordered palladium nanostructures through metal ion-ligand complexation. Nano Research, 2018, 11, 3442-3452.	10.4	18
16	Unraveling the Wide Variation in the Thermal Behavior of Crystalline Sucrose Using an Enhanced Laboratory Recrystallization Method. Crystal Growth and Design, 2018, 18, 1070-1081.	3.0	4
17	Fe and Co Complexes of Rigidly Planar Phosphino-Quinoline-Pyridine Ligands for Catalytic Hydrosilylation and Dehydrogenative Silylation. Organometallics, 2018, 37, 2760-2768.	2.3	34
18	Impact of Shape Persistence on the Porosity of Molecular Cages. Journal of the American Chemical Society, 2017, 139, 3259-3264.	13.7	40

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19	Ligand Design for Isomer-Selective Oxorhenium(V) Complex Synthesis. Inorganic Chemistry, 2017, 56, 1757-1769.	4.0	12
20	Synthetic Models for Nickelâ€“Iron Hydrogenase Featuring Redox-Active Ligands. Australian Journal of Chemistry, 2017, 70, 505.	0.9	3
21	Impact of sucrose crystal composition and chemistry on its thermal behavior. Journal of Food Engineering, 2017, 214, 193-208.	5.2	12
22	Interplay between Terminal and Bridging Diiron Hydrides in Neutral and Oxidized States. Organometallics, 2017, 36, 2245-2253.	2.3	26
23	Quantitative Analysis of Different Formation Modes of Platinum Nanocrystals Controlled by Ligand Chemistry. Nano Letters, 2017, 17, 6146-6150.	9.1	59
24	Synthesis and Characterization of Bidentate NHC-C_{Aryl} Nickel(II) Complexes: Isocyanide Insertion To Form NHC-Î·²-iminoacyl Complexes. Organometallics, 2017, 36, 2987-2995.	2.3	9
25	Rational Synthesis of the Carbonyl(perthiolato)diiron [Fe2(S3CPh2)(CO)6] and Related Complexes. European Journal of Inorganic Chemistry, 2016, 2016, 2681-2683.	2.0	10
26	Synthesis and structures of 11,11,12,12-tetracyano-2,6-diiodo-9,10-anthraquinodimethane and its 2:1 cocrystals with anthracene, pyrene and tetrathiafulvalene. Acta Crystallographica Section C, Structural Chemistry, 2016, 72, 923-931.	0.5	2
27	Synthesis of Pyridineâ€“ and Pyrazineâ€“BF₃ Complexes and Their Characterization in Solution and Solid State. Journal of Physical Chemistry C, 2016, 120, 8461-8471.	3.1	21
28	Monomers, Dimers, and Helices: Complexities of Cerium and Plutonium Phenanthrolinecarboxylates. Inorganic Chemistry, 2016, 55, 4373-4380.	4.0	17
29	Synthesis of Cycloparaphenyleneacetylene via Alkyne Metathesis: C₇₀ Complexation and Copper-Free Triple Click Reaction. Journal of the American Chemical Society, 2016, 138, 13814-13817.	13.7	71
30	Crystal structures of three complexes of zinc chloride with tri-tert-butylphosphane. Acta Crystallographica Section E: Crystallographic Communications, 2016, 72, 35-39.	0.5	4
31	Configuration Control in the Synthesis of Homo- and Heteroleptic Bis(oxazolinylphenolato/thiazolinylphenolato) Chelate Ligand Complexes of Oxorhenium(V): Isomer Effect on Ancillary Ligand Exchange Dynamics and Implications for Perchlorate Reduction Catalysis. Inorganic Chemistry, 2016, 55, 2597-2611.	4.0	26
32	Nickelâ€Molybdenum and Nickelâ€Tungsten Dithiolates: Hybrid Models for Hydrogenases and Hydrodesulfurization. European Journal of Inorganic Chemistry, 2015, 2015, 4638-4642.	2.0	14
33	N-Substituted Derivatives of the Azadithiolate Cofactor from the [FeFe] Hydrogenases: Stability and Complexation. Inorganic Chemistry, 2015, 54, 5717-5724.	4.0	17
34	Crystal structure of orthorhombic {bis[(pyridin-2-yl)methyl](3,5,5,5-tetrachloropentyl)amine-Îº³N,Nâ€²,Nâ€²â€²}chloridocopper(II) perchlorate. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 847-851.	0.5	1
35	Facile Câ€“H, Câ€“F, Câ€“Cl, and Câ€“C Activation by Oxatitanacyclobutene Complexes. Organometallics, 2015, 34, 4190-4193.	2.3	6
36	Crystal structure of tetrakis(acetylacetonato)dichloridodi-Î¼₃-methanolato-tetra-Î¼₂-methanolato-tetrairon(III). Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 976-979.	0.5	3

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37	Crystal structure and absolute configuration of (3S,4aS,8aS)-N-tert-butyl-2-[(S)-3-(2-chloro-4-nitrobenzamido)-2-hydroxypropyl]decahydroisoquinoline-3-carboxamide and (3S,4aS,8aS)-N-tert-butyl-2-{(S)-2-[(S)-1-(2-chloro-4-nitrobenzoyl)pyrrolidin-2-yl]-2-hydroxyethyl}decahydroisoquinoline-3-carboxamide. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 1401-1407.	0.5	0
38	Crystal structure of 1,3-bis(2,3-dimethylquinoxalin-6-yl)benzene. Acta Crystallographica Section E: Crystallographic Communications, 2015, 71, 1429-1432.	0.5	0
39	Diiron Azamonothiolates by the Scission of Dithiadiazacyclooctanes by Iron Carbonyls. European Journal of Inorganic Chemistry, 2014, 2014, 4109-4114.	2.0	2
40	A Motif for Infinite Metal Atom Wires. Angewandte Chemie - International Edition, 2014, 53, 14087-14091.	13.8	25
41	Synthesis and Structural Data of Tetrabenzo[8]circulene. Chemistry - A European Journal, 2014, 20, 3705-3711.	3.3	121
42	Multicopper Models for the Laccase Active Site: Effect of Nuclearity on Electrocatalytic Oxygen Reduction. Inorganic Chemistry, 2014, 53, 8505-8516.	4.0	85
43	Biotransformation and recovery of the isoflavones genistein and daidzein from industrial antibiotic fermentations. Applied Microbiology and Biotechnology, 2013, 97, 6427-6437.	3.6	6
44	Organo Rutheniumâ€“Nickel Dithiolates with Redox-Responsive Nickel Sites. Organometallics, 2013, 32, 6324-6329.	2.3	25
45	Di-Î¼-bromido-bis[benzyl(diethyl ether)magnesium]. Acta Crystallographica Section E: Structure Reports Online, 2012, 68, m942-m942.	0.2	2
46	C₂-Symmetric Iron(II) Diphosphineâ€“Dialkoxide Dicarbonyl and Related Complexes. Organometallics, 2012, 31, 6408-6414.	2.3	12
47	Terminal vs Bridging Hydrides of Diiron Dithiolates: Protonation of Fe₂(dithiolate)(CO)₂(PMe₃)₄. Journal of the American Chemical Society, 2012, 134, 19260-19269.	13.7	117
48	Influence of Second Coordination Sphere Hydroxyl Groups on the Reactivity of Copper(I) Complexes. Inorganic Chemistry, 2012, 51, 4511-4520.	4.0	19
49	Synthesis and characterization of a zinc metalâ€“organic framework with chiral nano-pores. CrystEngComm, 2012, 14, 5145.	2.6	18
50	Oxidative Addition of a Diphosphine Anhydride to Iron(0) and Nickel(0): A Simple Approach to Installing Four Ligands. Organometallics, 2011, 30, 2885-2888.	2.3	8
51	Active-Site Models for the Nickelâ€“Iron Hydrogenases: Effects of Ligands on Reactivity and Catalytic Properties. Inorganic Chemistry, 2011, 50, 9554-9563.	4.0	85
52	Stereochemistry of electrophilic attack at 34eâ^' dimetallic complexes: the case of diiron dithiolato carbonyls + MeS+. Chemical Communications, 2011, 47, 6554.	4.1	8
53	Organoiridium Pyridonates and Their Role in the Dehydrogenation of Alcohols. Organometallics, 2010, 29, 6763-6768.	2.3	88
54	1-Bromomethyl-4-aza-1-azoniabicyclo[2.2.2]octane bromide. Acta Crystallographica Section E: Structure Reports Online, 2010, 66, o377-o377.	0.2	1

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55	Oxidative Addition of Thioesters to Iron(0): Active-Site Models for Hmd, Natureâ€™s Third Hydrogenase. Organometallics, 2009, 28, 3618-3620.	2.3	85
56	Nickelâ^'Iron Dithiolato Hydrides Relevant to the [NiFe]-Hydrogenase Active Site. Journal of the American Chemical Society, 2009, 131, 6942-6943.	13.7	185
57	Dichlorido{[(diphenylphosphino)methyl]bis(2-methylphenyl)phosphine-Îº²P,Pâ€²}palladium(II). Acta Crystallographica Section E: Structure Reports Online, 2009, 65, m1233-m1234.	0.2	1
58	1,1,2,2-Tetrakis(di-o-tolylphosphino)ethane. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2231-o2231.	0.2	0
59	[(Di-o-tolylphosphino)methyl]diphenylphosphine sulfide. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o2307-o2307.	0.2	0
60	Syntheses, Structure, and a MÃ¶ssbauer and Magnetic Study of Ba₄Fe₂I₅S₄. Inorganic Chemistry, 2008, 47, 94-100.	4.0	11
61	Al Flux Synthesis of the Oxidation-Resistant Quaternary Phase REFe4Al9Si6 (RE = Tb, Er). Chemistry of Materials, 2008, 20, 6107-6115.	6.7	16
62	Distortion and Charge Density Wave in the Ga Square Net Coupled to the Site Occupancy Wave in YCo0.88Ga3Ge. Inorganic Chemistry, 2008, 47, 7243-7248.	4.0	14
63	Synthesis and structure of CsTi5Te8: Relation to the TlV5S8, TlCr3S5, and similar channel structures. Journal of Alloys and Compounds, 2007, 440, 74-77.	5.5	11
64	Syntheses and characterization of Ln4Yb11Se22 (Ln=Ce, Sm, Gd). Journal of Alloys and Compounds, 2007, 441, 57-61.	5.5	3
65	A U(V) Chalcogenide:â€‰ Synthesis, Structure, and Characterization of K₂Cu₃US₅. Inorganic Chemistry, 2007, 46, 6992-6996.	4.0	36
66	Synthesis and characterization of Er3SmQ6 (Q=S, Se) and Er1.12Sm0.88Se3. Journal of Solid State Chemistry, 2007, 180, 1527-1532.	2.9	7
67	Synthesis, structure, optical properties, and electronic structure of NaLiCdS2. Journal of Solid State Chemistry, 2007, 180, 759-764.	2.9	17
68	Structures and Bonding in K0.91U1.79S6 and KU2Se6. Inorganic Chemistry, 2006, 45, 3307-3311.	4.0	24
69	Uranium trisulfide, US3. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, i86-i87.	0.2	18
70	Caesium zirconium uranium pentatelluride, CsZrUTe5. Acta Crystallographica Section E: Structure Reports Online, 2006, 62, i124-i125.	0.2	14
71	Stereoselective Synthesis of Î±-Silylamines by the Direct Addition of Silyl Anions to Activated Imines.. ChemInform, 2005, 36, no.	0.0	0
72	Stereoselective Synthesis of Î±-Silylamines by the Direct Addition of Silyl Anions to Activated Imines. Organic Letters, 2005, 7, 1403-1406.	4.6	56

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73	Synthesis, structure and dielectric characterization of Ln2Ti2â^'2xM2xO7(Ln=Gd, Er; M=Zr, Sn, Si). Materials Research Bulletin, 2002, 37, 2077-2083.	5.2	15
74	Challenges in the Synthesis of Active Site Mimics for [NiFe]-Hydrogenases. Organometallics, 0, , .	2.3	0