

# Daniel A Foucher

## List of Publications by Year in descending order

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60  
papers

2,673  
citations

279798

23  
h-index

182427

51  
g-index

66  
all docs

66  
docs citations

66  
times ranked

1298  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ring-opening polymerization of strained, ring-tilted ferrocenophanes: a route to high-molecular-weight poly(ferrocenylsilanes). <i>Journal of the American Chemical Society</i> , 1992, 114, 6246-6248.	13.7	584
2	Organometallic Ferrocenyl Polymers Displaying Tunable Cooperative Interactions between Transition Metal Centers. <i>Angewandte Chemie International Edition in English</i> , 1993, 32, 1709-1711.	4.4	167
3	The polymerization behavior of [1]- and [2]ferrocenophanes containing silicon atoms in the bridge: comparison of the molecular structure of the strained, polymerizable cyclic ferrocenylsilane Fe( $\eta$ -C <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> (SiMe <sub>2</sub> ) with that of the cyclic ferrocenyldisilane Fe( $\eta$ -C <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> (SiMe <sub>2</sub> ) <sub>2</sub> . <i>Organometallics</i> , 1993, 12, 823-829.	2.3	153
4	Synthesis, characterization, glass transition behavior, and the electronic structure of high-molecular-weight, symmetrically substituted poly(ferrocenylsilanes) with alkyl or aryl side groups. <i>Macromolecules</i> , 1993, 26, 2878-2884.	4.8	147
5	Synthesis, Characterization, and Properties of High Molecular Weight Unsymmetrically Substituted Poly(ferrocenylsilanes). <i>Macromolecules</i> , 1994, 27, 3992-3999.	4.8	131
6	Synthesis, Reactivity, and Ring-Opening Polymerization (ROP) of Tin-Bridged [1]Ferrocenophanes. <i>Chemistry - A European Journal</i> , 1998, 4, 2117-2128.	3.3	122
7	Pyrolysis of Poly(ferrocenylsilanes): Synthesis and Characterization of Ferromagnetic Transition-Metal-Containing Ceramics and Molecular Depolymerization Products. <i>Chemistry of Materials</i> , 1995, 7, 2045-2053.	6.7	116
8	Thermal Ring-Opening Polymerization (ROP) of Strained, Ring-Tilted Phosphorus-Bridged [1]Ferrocenophanes: Synthesis of Poly(ferrocenylphosphines) and Poly(ferrocenylphosphine sulfides). <i>Organometallics</i> , 1995, 14, 5503-5512.	2.3	105
9	Ring-Opening Polymerization of Strained, Ring-Tilted [1]Ferrocenophanes with Germanium in the Bridge: Structures of the [1]Germaferrocenophane Fe( $\eta$ -C <sub>5</sub> H <sub>4</sub> ) <sub>2</sub> GeMe <sub>2</sub> and the Ferrocenylgermane Fe( $\eta$ -C <sub>5</sub> H <sub>4</sub> GeEt <sub>2</sub> Cl)( $\eta$ -C <sub>5</sub> H <sub>5</sub> ). <i>Organometallics</i> , 1994, 13, 4959-4966.	2.3	98
10	Thermal and Transition-Metal-Catalyzed Ring-Opening Polymerization (ROP) of [1]Silaferrocenophanes with Chlorine Substituents at Silicon: A Route to Tunable Poly(ferrocenylsilanes). <i>Organometallics</i> , 1996, 15, 1972-1978.	2.3	97
11	Synthesis, properties, and the ring-ring transformation reactions of cyclic siloxanes incorporating skeletal boron atoms: x-ray crystal structures of the strained boracyclotrisiloxane (PhBO)(Ph <sub>2</sub> SiO) <sub>2</sub> and the boracyclotetrasiloxane (PhBO)(Ph <sub>2</sub> SiO) <sub>3</sub> . <i>Inorganic Chemistry</i> , 1992, 31, 3034-3043.	4.0	74
12	Synthesis, Characterization, and Properties of High Molecular Weight Poly(methylated) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 307 Td (ferrocenylsilanes). <i>Macromolecules</i> , 1996, 29, 1894-1903.	4.8	72
13	Synthesis, Structures, and Properties of Strained, Silicon-Bridged [1]Ferrocenophanes with Methylated Cyclopentadienyl Rings. <i>Organometallics</i> , 1995, 14, 2470-2479.	2.3	71
14	Synthesis and Properties of Poly(ferrocenyldihydrosilane) Homopolymer and Random Copolymers. <i>Macromolecules</i> , 1995, 28, 7301-7308.	4.8	57
15	Synthesis, Characterization, and Properties of High Molecular Weight Poly(ferrocenylgermanes) and Poly(ferrocenylsilane)-Poly(ferrocenylgermane) Random Copolymers. <i>Macromolecules</i> , 1996, 29, 2396-2403.	4.8	56
16	Title is missing!. <i>Die Makromolekulare Chemie Rapid Communications</i> , 1993, 14, 63-66.	1.1	53
17	A new technique to improve the mechanical and biological performance of ultra high molecular weight polyethylene using a nylon coating. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2014, 32, 198-209.	3.1	43
18	Synthesis, Structures, and the Redistribution and Skeletal Cleavage Reactions of Siloxane-Bridged Ferrocenophanes. <i>Inorganic Chemistry</i> , 1994, 33, 1709-1718.	4.0	37

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19	Polyferrocenyldisiloxane from the Platinum-Catalyzed Reactions of Tertiary Bis(dimethylsilyl)ferrocene in a Polar Aprotic Solvent. <i>Macromolecules</i> , 2009, 42, 9199-9203.	4.8	31
20	Nylon-coated ultra high molecular weight polyethylene fabric for enhanced penetration resistance. <i>Journal of Applied Polymer Science</i> , 2014, 131, .	2.6	31
21	The synthesis and polymerization behaviour of silicon-bridged [1]- and [2]ferrocenophanes with sterically demanding trimethylsilyl substituents attached to the cyclopentadienyl rings. <i>Canadian Journal of Chemistry</i> , 1995, 73, 2069-2078.	1.1	25
22	Site- and Stereoselective C-H Alkylations of Carbohydrates Enabled by Cooperative Photoredox, Hydrogen Atom Transfer, and Organotin Catalysis. <i>Organic Letters</i> , 2021, 23, 5180-5185.	4.6	24
23	A convenient route to distannanes, oligostannanes, and polystannanes. <i>Canadian Journal of Chemistry</i> , 2010, 88, 1046-1052.	1.1	23
24	Alternating polystannanes: syntheses and properties. <i>Chemical Communications</i> , 2015, 51, 7120-7123.	4.1	21
25	Hypercoordinate compounds of the group 14 elements containing $\hat{n}$ -C, N-, C, O-, C, S- and C, P-ligands. <i>Coordination Chemistry Reviews</i> , 2016, 312, 41-66.	18.8	21
26	Kinetics and mechanism of ligand substitution reactions of pentacyanoferrate(II) complexes with bridging N-heterocyclic dications in aqueous media. <i>Inorganic Chemistry</i> , 1993, 32, 3425-3432.	4.0	20
27	Copper-Mediated Polycondensations of Substituted Diiodoferrocenes and Bis(stannyl)ferrocenes: A Synthesis and Properties of Soluble Polyferrocenylenes Containing Trimethylsilyl or Methyl Groups. <i>Macromolecules</i> , 2002, 35, 3810-3818.	4.8	20
28	Wurtz Coupling of Perfluorinated Dichlorostannanes. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2010, 20, 544-553.	3.7	20
29	UV-Curable Contact Active Benzophenone Terminated Quaternary Ammonium Antimicrobials for Applications in Polymer Plastics and Related Devices. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 27491-27503.	8.0	20
30	A highly strained heterocyclosiloxane: synthesis and X-ray crystal structure of pentaphenylboracyclotrisiloxane BSi <sub>2</sub> O <sub>3</sub> Ph <sub>5</sub> . <i>Journal of Organometallic Chemistry</i> , 1991, 414, C1-C4.	1.8	18
31	Reduction of C,O-chelated organotin(IV) dichlorides and dihydrides leading to protected polystannanes. <i>Journal of Organometallic Chemistry</i> , 2015, 776, 180-191.	1.8	17
32	Assessment of the working range and effect of sodium dichloroisocyanurate on <i>Pseudomonas aeruginosa</i> biofilms and planktonic cells. <i>Biofouling</i> , 2012, 28, 111-120.	2.2	15
33	Proof of Concept Studies Directed Towards Designed Molecular Wires: Property-Driven Synthesis of Air and Moisture-Stable Polystannanes. <i>Chemistry - A European Journal</i> , 2017, 23, 14367-14374.	3.3	14
34	Synthesis, structures and properties of self-assembling quaternary ammonium dansyl fluorescent tags for porous and non-porous surfaces. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1509-1520.	5.8	12
35	UV-Curable Surface-Attached Antimicrobial Polymeric Onium Coatings: Designing Effective, Solvent-Resistant Coatings for Plastic Surfaces. <i>ACS Applied Bio Materials</i> , 2020, 3, 4302-4315.	4.6	12
36	Recent advances in the homogeneous polymerisation of olefins mediated by nickel complexes. <i>Comptes Rendus Chimie</i> , 2013, 16, 573-579.	0.5	11

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37	Evaluation of virucidal activity of residual quaternary ammonium-treated surfaces on SARS-CoV-2. <i>American Journal of Infection Control</i> , 2022, 50, 325-329.	2.3	11
38	Hypercoordinated organotin(IV) compounds containing C,O- and C,N- chelating ligands: Synthesis, characterisation, DFT studies and polymerization behaviour. <i>Journal of Organometallic Chemistry</i> , 2019, 900, 120910.	1.8	10
39	Unusual Cationic Trinuclear Nickel Clusters Incorporating Oxazolines or $\beta$ -Tetramethylethylene-1,2-diamine: Applications in Olefin Polymerization. <i>Inorganic Chemistry</i> , 2011, 50, 9930-9932.	4.0	9
40	Linear Oligostannanes: A Synthetic and TD-DFT Study. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2015, 25, 515-528.	3.7	9
41	Pd-catalysed reactions of alkynes with model distannanes and poly[di-(n-butyl)]stannane. <i>Dalton Transactions</i> , 2013, 42, 2469-2476.	3.3	8
42	Synthesis and Spectral Electrochemical Properties of a Symmetrical Tin-Bridged [3.3]Ferrocenophane. <i>Organometallics</i> , 2013, 32, 2893-2901.	2.3	8
43	Synthesis and Characterization of Readily Modified Poly(aryl)(alkoxy)stannanes by use of Hypercoordinated Sn Monomers. <i>Chemistry - A European Journal</i> , 2018, 24, 18762-18771.	3.3	8
44	"Push" and "pull" polystannanes. <i>Dalton Transactions</i> , 2018, 47, 14094-14100.	3.3	8
45	Surface-attached sulfonamide containing quaternary ammonium antimicrobials for textiles and plastics. <i>RSC Advances</i> , 2019, 9, 3140-3150.	3.6	8
46	Access to thermally robust and abrasion resistant antimicrobial plastics: synthesis of UV-curable phosphonium small molecule coatings and extrudable additives. <i>RSC Advances</i> , 2021, 11, 5548-5555.	3.6	6
47	The Pyrolysis of Poly(Ferrocenylsilanes): Metal Containing Ceramics and Small Molecules. Phosphorus, Sulfur and Silicon and the Related Elements, 1994, 93, 359-360.	1.6	5
48	Unexpected Synthesis of Oligomeric (Dimethylsilyl)-Bridged Ferrocenes from the Desilylative Coupling of Tertiary 1,1-Bis(dimethylsilyl)ferrocene. <i>Organometallics</i> , 2010, 29, 1057-1060.	2.3	5
49	Synthesis, Characterization, and Theoretical Analysis of Soluble Poly(oxothiazenes): The Ambient Temperature Lewis Acid Catalyzed <i>In Situ</i> Polymerization of $N$ -Silylsulfonimidoyl Chlorides. <i>Macromolecules</i> , 2013, 46, 2562-2568.	4.8	5
50	Synthesis and characterization of a polyferrocenyldistannane. <i>Canadian Journal of Chemistry</i> , 2014, 92, 525-532.	1.1	5
51	Electron-exchange and electron-transfer reactions involving the tetrakis(acetato)bis(acetonitrile)dirhodium(0)/(1+) couple in acetonitrile. <i>Inorganic Chemistry</i> , 1989, 28, 3357-3361.	4.0	4
52	A structural, DFT and experimental investigation of the ring stability and ring-opening polymerization behaviour of cyclic thionylphosphazenes in the presence of Lewis acid catalysts. <i>Polymer</i> , 2021, 233, 124196.	3.8	4
53	1,1'-Diiodo-3,3'-bis(trimethylsilyl)ferrocene. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 1999, 55, 33-35.	0.4	2
54	Rapid Microwave-Assisted Synthesis of $\gamma$ -Phosphonic Acid Quaternary Ammonium Antimicrobials for Biomedical Applications. <i>Current Microwave Chemistry</i> , 2015, 2, 69-82.	0.8	2

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55	Biomass Utilisation Strategies for Applications in Novel Polymer and Polymer Resin Production. <i>Polymers From Renewable Resources</i> , 2017, 8, 1-10.	1.3	2
56	Preparation and DFT Studies of $\text{f}^{2}\text{C,N}$ -Hypercoordinated Oxazoline Organotin: Monomer Constructs for Stable Polystannanes. <i>Inorganics</i> , 2020, 8, 35.	2.7	2
57	Tetrakis[3,5-bis(trifluoromethyl)phenyl]tin(IV). <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009, 65, m704-m704.	0.2	1
58	A C18Quaternary Ammonium Library. <i>ChemistrySelect</i> , 2016, 1, 6914-6919.	1.5	1
59	Crystal structure of (E)-(benzylidene)(pyridin-2-ylmethyl)amine. <i>Acta Crystallographica Section E: Crystallographic Communications</i> , 2015, 71, o1040-o1040.	0.5	0
60	New Hypercoordinating Organostannanes for the Modular Functionalization of Mono- and Polystannanes: Synthetic and Computational Studies**. <i>European Journal of Inorganic Chemistry</i> , 2022, 2022, .	2.0	0