Joe B Gilroy

List of Publications by Year
in descending order

98 papers	3,611 citations	136950 32 h-index	144013 57 g-index
103 all docs	103 docs citations	103 times ranked	3007 citing authors

#	Article	IF	Citations
1	Monodisperse cylindrical micelles by crystallization-driven living self-assembly. Nature Chemistry, 2010, 2, 566-570.	13.6	537
2	High-temperature metalâ€“organic magnets. Nature, 2007, 445, 291-294.	27.8	138
3	Nearâ€Infrared Photoluminescence and Electrochemiluminescence from a Remarkably Simple Boron Difluoride Formazanate Dye. Angewandte Chemie - International Edition, 2019, 58, 1052-1056.	13.8	116
4	Electrochemical Studies of Verdazyl Radicals. Organic Letters, 2007, 9, 4837-4840.	4.6	113
5	Mainâ€Chain Heterobimetallic Block Copolymers: Synthesis and Selfâ€Assembly of Polyferrocenylsilaneâ€bâ€Poly(cobaltoceniumethylene). Angewandte Chemie - International Edition, 2011, 50, 5851-5855.	13.8	103
6	Fiber-like Micelles via the Crystallization-Driven Solution Self-Assembly of Poly(3-hexylthiophene)-block-Poly(methyl methacrylate) Copolymers. Macromolecules, 2012, 45, 5806-5815.	4.8	95
7	Probing the Structure of the Crystalline Core of Field-Aligned, Monodisperse, Cylindrical Polyisoprene-block-Polyferrocenylsilane Micelles in Solution Using Synchrotron Small- and Wide-Angle X-ray Scattering. Journal of the American Chemical Society, 2011, 133, 17056-17062.	13.7	91
8	Dimensional Control of Block Copolymer Nanofibers with a Ï€â€Conjugated Core: Crystallizationâ€Driven Solution Selfâ€Assembly of Amphiphilic Poly(3â€hexylthiophene)â€bâ€poly(2â€vinylpyridine). Chemistry - A European Journal, 2013, 19, 9186-9197.	3.3	91
9	Redox-Active Metallomacrocycles and Cyclic Metallopolymers: Photocontrolled Ring-Opening Oligomerization and Polymerization of Silicon-Bridged [1]Ferrocenophanes Using Substitutionally-Labile Lewis Bases as Initiators. Journal of the American Chemical Society, 2009, 131, 14958-14968.	13.7	89
10	Ring-Opening Polymerization of 19-Electron [2]Cobaltocenophanes: A Route to High-Molecular-Weight, Water-Soluble Polycobaltocenium Polyelectrolytes. Journal of the American Chemical Society, 2009, 131, 10382-10383.	13.7	88
11	Effect of Extended Ï€ Conjugation on the Spectroscopic and Electrochemical Properties of Boron Difluoride Formazanate Complexes. Journal of Organic Chemistry, 2015, 80, 5226-5235.	3.2	83
12	Formazans as Î²-diketiminate analogues. Structural characterization of boratatetrazines and their reduction to borataverdazyl radical anions. Chemical Communications, 2007, , 126-128.	4.1	79
13	Substituent-Dependent Optical and Electrochemical Properties of Triarylformazanate Boron Difluoride Complexes. Inorganic Chemistry, 2014, 53, 10585-10593.	4.0	79
14	Probing Electronic Communication in Stable Benzene-Bridged Verdazyl Diradicals. Journal of Organic Chemistry, 2007, 72, 8062-8069.	3.2	77
15	Efficient electrochemiluminescence of a readily accessible boron difluoride formazanate dye. Chemical Communications, 2015, 51, 3766-3769.	4.1	75
16	Effects of Electron-Deficient Î²-Diketiminate and Formazan Supporting Ligands on Copper(I)-Mediated Dioxygen Activation. Inorganic Chemistry, 2009, 48, 4514-4523.	4.0	69
17	Evaluation of Anisoleâ€Substituted Boron Difluoride Formazanate Complexes for Fluorescence Cell Imaging. Chemistry - A European Journal, 2015, 21, 15589-15599.	3.3	65
18	Ring-Opening Polymerization of a Galla[1]ferrocenophane: A Gallium-Bridged Polyferrocene with Observable Tacticity. Journal of the American Chemical Society, 2010, 132, 1794-1795.	13.7	64

#	Article	IF	Citations
19	Formazanate coordination compounds: synthesis, reactivity, and applications. Chemical Society Reviews, 2020, 49, 85-113.	38.1	62
20	Structurally Tunable 3â€€Cyanoformazanate Boron Difluoride Dyes. Chemistry - A European Journal, 2014, 20, 11340-11344.	3.3	61
21	A bipolar verdazyl radical for a symmetric all-organic redox flow-type battery. Journal of Energy Chemistry, 2019, 34, 52-56.	12.9	55
22	Magnetostructural studies of copper(ii)â€“verdazyl radical complexes. Journal of Materials Chemistry, 2006, 16, 2618-2624.	6.7	53
23	End-to-End Coupling and Network Formation Behavior of Cylindrical Block Copolymer Micelles with a Crystalline Polyferrocenylsilane Core. Journal of the American Chemical Society, 2011, 133, 11220-11230.	13.7	53
24	Transition Metal Complexes of 3-Cyano- and 3-Nitroformazans. Inorganic Chemistry, 2008, 47, 1287-1294.	4.0	52
25	Polymer Network Formation Using the Phosphaneâ€“ene Reaction: A Thiolâ€“ene Analogue with Diverse Postpolymerization Chemistry. Chemistry of Materials, 2015, 27, 1412-1419.	6.7	43
26	Boron difluoride formazanate copolymers with 9,9-di-n-hexylfluorene prepared by copper-catalyzed alkyneâ€“azide cycloaddition chemistry. Polymer Chemistry, 2016, 7, 3589-3598.	3.9	40
27	Nearâ€Infrared Photoluminescence and Electrochemiluminescence from a Remarkably Simple Boron Difluoride Formazanate Dye. Angewandte Chemie, 2019, 131, 1064-1068.	2.0	39
28	Structurally Diverse Boronâ€“Nitrogen Heterocycles from an N₂O₂^{3â^’} Formazanate Ligand. Angewandte Chemie - International Edition, 2017, 56, 8173-8177.	13.8	36
29	A Ï€-conjugated inorganic polymer constructed from boron difluoride formazanates and platinum(<scp>ii</scp>) diynes. Chemical Communications, 2018, 54, 6899-6902.	4.1	36
30	Aggregation-induced emission enhancement in boron difluoride complexes of 3-cyanoformazanates. Journal of Materials Chemistry C, 2016, 4, 6478-6482.	5.5	34
31	Synthesis and Characterization of 3-Cyano- and 3-Nitroformazans, Nitrogen-Rich Analogues of Î²-Diketimine Ligands. Inorganic Chemistry, 2008, 47, 1279-1286.	4.0	33
32	Strain-Induced Cleavage of Carbonâ^’Carbon Bonds: Bridge Rupture Reactions of Group 8 Dicarba[2]metallocenophanes. Journal of the American Chemical Society, 2010, 132, 1988-1998.	13.7	33
33	6-Oxoverdazyl radical polymers with tunable electrochemical properties. Polymer Chemistry, 2014, 5, 5223-5226.	3.9	32
34	Photocontrolled Ringâ€Opening Polymerization of Strained Dicarba[2]Ferrocenophanes: A Route to Wellâ€Defined Polyferrocenylethylene Homopolymers and Block Copolymers. Chemistry - A European Journal, 2009, 15, 12234-12246.	3.3	31
35	Copper-assisted azideâ€“alkyne cycloaddition chemistry as a tool for the production of emissive boron difluoride 3-cyanoformazanates. Organic Chemistry Frontiers, 2017, 4, 178-190.	4.5	29
36	Linear and branched electroactive polymers based on ethylenedioxythiopheneâ€“triarylamine conjugates. Journal of Materials Chemistry, 2007, 17, 4768.	6.7	28

#	Article	IF	Citations
37	Side-chain boron difluoride formazanate polymers via ring-opening metathesis polymerization. Journal of Materials Chemistry C, 2016, 4, 3987-3994.	5.5	28
38	Optoelectronic, Aggregation, and Redox Properties of Doubleâ€Rotor Boron Difluoride Hydrazone Dyes. Chemistry - A European Journal, 2019, 25, 5994-6006.	3.3	28
39	Hydrogen-bond-supported dimeric boron complexes of potentially tetradentate Î²-diketiminate ligands. Dalton Transactions, 2014, 43, 240-250.	3.3	27
40	Liquid Crystalline Phase Behavior of Well-Defined Cylindrical Block Copolymer Micelles Using Synchrotron Small-Angle X-ray Scattering. Macromolecules, 2015, 48, 1579-1591.	4.8	27
41	Synthesis and characterization of conjugated/cross-conjugated benzene-bridged boron difluoride formazanate dimers. RSC Advances, 2015, 5, 56316-56324.	3.6	27
42	Structural Tuning of Boron Difluoride Formazanate Electrochemiluminescence Mediated by Tri-n-propylamine. Journal of Physical Chemistry C, 2018, 122, 1258-1266.	3.1	27
43	Redox properties of zinc complexes of verdazyl radicals and diradicals. Inorganica Chimica Acta, 2011, 374, 480-488.	2.4	26
44	Formazanate Complexes of Hypervalent Group 14 Elements as Precursors to Electronically Stabilized Radicals. Angewandte Chemie - International Edition, 2018, 57, 9870-9874.	13.8	26
45	Synthesis and characterization of palladium complexes of 3-nitroformazans. Inorganica Chimica Acta, 2008, 361, 3388-3393.	2.4	25
46	Highly-metallized phosphonium polyelectrolytes. Chemical Communications, 2014, 50, 10714-10717.	4.1	25
47	Aluminum Complexes of N₂O₂^{3â€“} Formazanate Ligands Supported by Phosphine Oxide Donors. Inorganic Chemistry, 2017, 56, 12436-12447.	4.0	25
48	Boron Difluoride Adducts of a Flexidentate Pyridine-Substituted Formazanate Ligand: Property Modulation via Protonation and Coordination Chemistry. Inorganic Chemistry, 2017, 56, 12003-12011.	4.0	23
49	Magnetostructural studies of palladium(<scp>ii</scp>) and platinum(<scp>ii</scp>) complexes of verdazyl radicals. Journal of Materials Chemistry, 2011, 21, 1523-1530.	6.7	19
50	An iron-cyclopentadienyl bond cleavage mechanism for the thermal ring-opening polymerization of dicarba[2]ferrocenophanes. Chemical Science, 2012, 3, 830-841.	7.4	19
51	Synthesis, characterization, and thinâ€film properties of 6â€oxoverdazyl polymers prepared by ringâ€opening metathesis polymerization. Journal of Polymer Science Part A, 2016, 54, 1803-1813.	2.3	19
52	(Co)polymers containing boron difluoride 3-cyanoformazanate complexes: emission enhancement via random copolymerization. Polymer Chemistry, 2017, 8, 5388-5395.	3.9	19
53	Oxoborane Formation Turns on Formazanateâ€Based Photoluminescence. Chemistry - A European Journal, 2019, 25, 11015-11019.	3.3	19
54	The Chemistry of Formazan Dyes. Synthesis and Characterization of a Stable Verdazyl Radical and a Related Boron-Containing Heterocycle. Journal of Chemical Education, 2009, 86, 76.	2.3	16

#	Article	IF	Citations
55	Synthesis, characterization, and preceramic properties of Ï€-conjugated polymers based on Ni(II) complexes of goedken's macrocycle. Journal of Polymer Science Part A, 2016, 54, 3257-3266.	2.3	16
56	Near-IR absorption and photocurrent generation using a first-of-its-kind boron difluoride formazanate non-fullerene acceptor. Materials Chemistry Frontiers, 2020, 4, 1643-1647.	5.9	16
57	Design Criteria for Ultrathin Singleâ€Layer Flash Memristors from an Organic Polyradical. Advanced Electronic Materials, 2016, 2, 1600253.	5.1	15
58	A divergent strategy for the synthesis of redox-active verdazyl radical polymers. Polymer Chemistry, 0, , .	3.9	15
59	Cationic Boron Formazanate Dyes**. Angewandte Chemie - International Edition, 2021, 60, 5152-5156.	13.8	14
60	Cyclic and Linear Polyferrocenes with Silicon and Tin as Alternating Bridges. Chemistry - A European Journal, 2012, 18, 9722-9733.	3.3	13
61	Metalï¿¿Metal Bond Formation Between [n]Metallocenophanes: Synthesis and Characterisation of a Dicarba[2]ruthenocenophanium Dimer. Chemistry - A European Journal, 2012, 18, 8000-8003.	3.3	13
62	Synthesis and Characterization of a Family of Air-Stable Ferrocene- and Ruthenocene-Containing Primary, Secondary, and Tertiary Phosphines. Organometallics, 2015, 34, 4272-4280.	2.3	13
63	Synthesis and characterization of metalâ€“rich phosphonium polyelectrolytes and their use as precursors to nanomaterials. Dalton Transactions, 2016, 45, 18229-18240.	3.3	13
64	Dialkynylborane Complexes of Formazanate Ligands: Synthesis, Electronic Properties, and Reactivity. Inorganic Chemistry, 2019, 58, 834-843.	4.0	13
65	Band Gap Engineering in Acceptor-Donor-Acceptor Boron Difluoride Formazanates. Journal of Organic Chemistry, 2021, 86, 12064-12074.	3.2	12
66	Structurally Diverse Boronâ€“Nitrogen Heterocycles from an N₂O₂^{3â^’} Formazanate Ligand. Angewandte Chemie, 2017, 129, 8285-8289.	2.0	11
67	Redox polymers incorporating pendant 6â€oxoverdazyl and nitronyl nitroxide radicals. Journal of Polymer Science, 2020, 58, 309-319.	3.8	11
68	Nearâ€Infrared Boron Difluoride Formazanate Dyes. Chemistry - A European Journal, 2021, 27, 2854-2860.	3.3	11
69	A Phosphine-Based Heterotrimetallic (M = Fe, Ru, W) Homopolymer. Organometallics, 2017, 36, 2483-2486.	2.3	10
70	Optoelectronic Properties of Carbonâ€Bound Boron Difluoride Hydrazone Dimers. Chemistry - A European Journal, 2020, 26, 5522-5529.	3.3	10
71	A Boron Difluoride Hydrazone (BODIHY) Polymer Exhibits Aggregationâ€Induced Emission. Macromolecular Rapid Communications, 2021, 42, e2000553.	3.9	10
72	Synthesis and redox properties of a phosphine-subsituted para-dioxolene and its bimetallic palladium complex. Canadian Journal of Chemistry, 2008, 86, 976-981.	1.1	9

#	Article	IF	Citations
73	Polymers Containing Nickel(II) Complexes of Goedken's Macrocycle: Optimized Synthesis and Electrochemical Characterization. Macromolecular Rapid Communications, 2015, 36, 621-626.	3.9	9
74	X-ray Absorption Near-Edge Structure Spectroscopy of a Stable 6-Oxoverdazyl Radical and Its Diamagnetic Precursor. Journal of Physical Chemistry A, 2019, 123, 323-328.	2.5	9
75	Altering the optoelectronic properties of boron difluoride formazanate dyesviaconjugation with platinum(<scp>ii</scp>)-acetylides. Dalton Transactions, 2020, 49, 16133-16142.	3.3	9
76	Structure and magnetism of a verdazyl radical clathrate hydrate. Strong intermolecular magnetic interactions derived from Ï€-stacking within ice-like channels. CrystEngComm, 2009, 11, 2180.	2.6	8
77	Metal-containing polymers bearing pendant nickel(<scp>ii</scp>) complexes of Goedken's macrocycle. Polymer Chemistry, 2017, 8, 2164-2172.	3.9	8
78	Unveiling the Hidden, Dark, and Short Life of a Vibronic State in a Boron Difluoride Formazanate Dye. Angewandte Chemie - International Edition, 2019, 58, 15339-15343.	13.8	8
79	The development of peptideâ€“boron difluoride formazanate conjugates as fluorescence imaging agents. RSC Advances, 2020, 10, 18970-18977.	3.6	8
80	Comparative Studies of Thermally Induced Homolytic Carboníž¿Carbon Bond Cleavage Reactions of Strained Dicarba[2]ferrocenophanes and Their Ring-Opened Oligomers and Polymers. Chemistry - A European Journal, 2014, 20, 4077-4085.	3.3	7
81	Group 6 metal pentacarbonyl complexes of air-stable primary, secondary, and tertiary ferrocenylethylphosphines. Dalton Transactions, 2016, 45, 2859-2867.	3.3	7
82	Group 13 Complexes of Chelating N₂O₂^{nâ^'} Ligands as Hybrid Molecular Materials. Chemistry - A European Journal, 2018, 24, 12449-12457.	3.3	7
83	Formazanate Complexes of Hypervalent Group 14 Elements as Precursors to Electronically Stabilized Radicals. Angewandte Chemie, 2018, 130, 10018-10022.	2.0	6
84	Influence of Cyclopentadienyl Ringâ€Tilt on Electronâ€Transfer Reactions: Redoxâ€Induced Reactivity of Strained [2] and [3]Ruthenocenophanes. Chemistry - A European Journal, 2014, 20, 16216-16227.	3.3	5
85	A strongly Lewis-acidic and fluorescent borenium cation supported by a tridentate formazanate ligand. Chemical Communications, 2021, 57, 9530-9533.	4.1	5
86	The solution phase characterization of poly(ferrocenyldimethylsilane)s by small-angle neutron scattering. Journal of Polymer Science Part A, 2013, 51, 4011-4020.	2.3	4
87	Dye rejection membranes prepared from oxidized graphite particles. Canadian Journal of Chemistry, 2017, 95, 1103-1109.	1.1	4
88	Unveiling the Hidden, Dark, and Short Life of a Vibronic State in a Boron Difluoride Formazanate Dye. Angewandte Chemie, 2019, 131, 15483-15487.	2.0	4
89	On the primary structure of polysilenes and polygermenes. Polymer Chemistry, 2019, 10, 4887-4894.	3.9	4
90	OMCVD Gold Nanoparticles Covalently Attached to Polystyrene for Biosensing Applications. Chemical Vapor Deposition, 2015, 21, 275-280.	1.3	3

#	Article	IF	Citations
91	Benzothiazole-substituted boron difluoride formazanate dyes. Dyes and Pigments, 2022, 198, 110002.	3.7	3
92	Dual Emission, Aggregation, and Redox Properties of Boron Difluoride Hydrazones Functionalized with Triphenylamines. ChemPhotoChem, 2022, 6, .	3.0	3
93	Cationic Boron Formazanate Dyes**. Angewandte Chemie, 2021, 133, 5212-5216.	2.0	2
94	Electrotuneable Radical Polymers for Thin-Film Electronic Device Applications. ECS Transactions, 2022, 108, 17-27.	0.5	2
95	An Azide-Functionalized Nitronyl Nitroxide Radical: Synthesis, Characterization and Staudingerâ€“Bertozzi Ligation Reactivity. Synlett, 2016, 27, 304-308.	1.8	1
96	All-in-One Step from a Radical Monomer: Vacuum Synthesis of Electroswitchable Radical Polymer Thin Films by Solvent-Free Surface Polymerization. Chemistry of Materials, 2022, 34, 4876-4883.	6.7	1
97	Frontispiece: Group 13 Complexes of Chelating N2 O2 n â^' Ligands as Hybrid Molecular Materials. Chemistry - A European Journal, 2018, 24, .	3.3	0
98	Strained alkyne polymers capable of SPAAC via ring-opening metathesis polymerization. Polymer Chemistry, 2021, 12, 5542-5547.	3.9	0