

# Joe B Gilroy

## List of Publications by Year in descending order

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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	Benzothiazole-substituted boron difluoride formazanate dyes. <i>Dyes and Pigments</i> , 2022, 198, 110002.	3.7	3
2	Dual Emission, Aggregation, and Redox Properties of Boron Difluoride Hydrazones Functionalized with Triphenylamines. <i>ChemPhotoChem</i> , 2022, 6, .	3.0	3
3	All-in-One Step from a Radical Monomer: Vacuum Synthesis of Electroswitchable Radical Polymer Thin Films by Solvent-Free Surface Polymerization. <i>Chemistry of Materials</i> , 2022, 34, 4876-4883.	6.7	1
4	Electrotuneable Radical Polymers for Thin-Film Electronic Device Applications. <i>ECS Transactions</i> , 2022, 108, 17-27.	0.5	2
5	Near-Infra-red Boron Difluoride Formazanate Dyes. <i>Chemistry - A European Journal</i> , 2021, 27, 2854-2860.	3.3	11
6	A Boron Difluoride Hydrazone (BODIHY) Polymer Exhibits Aggregation-Induced Emission. <i>Macromolecular Rapid Communications</i> , 2021, 42, e2000553.	3.9	10
7	Cationic Boron Formazanate Dyes**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 5152-5156.	13.8	14
8	Cationic Boron Formazanate Dyes**. <i>Angewandte Chemie</i> , 2021, 133, 5212-5216.	2.0	2
9	A strongly Lewis-acidic and fluorescent borenium cation supported by a tridentate formazanate ligand. <i>Chemical Communications</i> , 2021, 57, 9530-9533.	4.1	5
10	Band Gap Engineering in Acceptor-Donor-Acceptor Boron Difluoride Formazanates. <i>Journal of Organic Chemistry</i> , 2021, 86, 12064-12074.	3.2	12
11	Strained alkyne polymers capable of SPAAC <i>via</i> ring-opening metathesis polymerization. <i>Polymer Chemistry</i> , 2021, 12, 5542-5547.	3.9	0
12	Formazanate coordination compounds: synthesis, reactivity, and applications. <i>Chemical Society Reviews</i> , 2020, 49, 85-113.	38.1	62
13	Altering the optoelectronic properties of boron difluoride formazanate dyes <i>via</i> conjugation with platinum( <i>ii</i> )-acetylides. <i>Dalton Transactions</i> , 2020, 49, 16133-16142.	3.3	9
14	Optoelectronic Properties of Carbon-Bound Boron Difluoride Hydrazone Dimers. <i>Chemistry - A European Journal</i> , 2020, 26, 5522-5529.	3.3	10
15	Redox polymers incorporating pendant 6-oxoverdazyl and nitronyl nitroxide radicals. <i>Journal of Polymer Science</i> , 2020, 58, 309-319.	3.8	11
16	Near-IR absorption and photocurrent generation using a first-of-its-kind boron difluoride formazanate non-fullerene acceptor. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1643-1647.	5.9	16
17	The development of peptide-boron difluoride formazanate conjugates as fluorescence imaging agents. <i>RSC Advances</i> , 2020, 10, 18970-18977.	3.6	8
18	Unveiling the Hidden, Dark, and Short Life of a Vibronic State in a Boron Difluoride Formazanate Dye. <i>Angewandte Chemie</i> , 2019, 131, 15483-15487.	2.0	4

#	ARTICLE	IF	CITATIONS
19	Unveiling the Hidden, Dark, and Short Life of a Vibronic State in a Boron Difluoride Formazanate Dye. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 15339-15343.	13.8	8
20	On the primary structure of polysilenes and polygermenes. <i>Polymer Chemistry</i> , 2019, 10, 4887-4894.	3.9	4
21	Oxoborane Formation Turns on Formazanate-Based Photoluminescence. <i>Chemistry - A European Journal</i> , 2019, 25, 11015-11019.	3.3	19
22	Optoelectronic, Aggregation, and Redox Properties of Double-Rotor Boron Difluoride Hydrazone Dyes. <i>Chemistry - A European Journal</i> , 2019, 25, 5994-6006.	3.3	28
23	X-ray Absorption Near-Edge Structure Spectroscopy of a Stable 6-Oxoverdazyl Radical and Its Diamagnetic Precursor. <i>Journal of Physical Chemistry A</i> , 2019, 123, 323-328.	2.5	9
24	Dialkynylborane Complexes of Formazanate Ligands: Synthesis, Electronic Properties, and Reactivity. <i>Inorganic Chemistry</i> , 2019, 58, 834-843.	4.0	13
25	Near-Infrared Photoluminescence and Electrochemiluminescence from a Remarkably Simple Boron Difluoride Formazanate Dye. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 1052-1056.	13.8	116
26	A bipolar verdazyl radical for a symmetric all-organic redox flow-type battery. <i>Journal of Energy Chemistry</i> , 2019, 34, 52-56.	12.9	55
27	Near-Infrared Photoluminescence and Electrochemiluminescence from a Remarkably Simple Boron Difluoride Formazanate Dye. <i>Angewandte Chemie</i> , 2019, 131, 1064-1068.	2.0	39
28	Group 13 Complexes of Chelating $N_2O_2$ Ligands as Hybrid Molecular Materials. <i>Chemistry - A European Journal</i> , 2018, 24, 12449-12457.	3.3	7
29	Structural Tuning of Boron Difluoride Formazanate Electrochemiluminescence Mediated by Tri-propylamine. <i>Journal of Physical Chemistry C</i> , 2018, 122, 1258-1266.	3.1	27
30	Frontispiece: Group 13 Complexes of Chelating $N_2O_2$ Ligands as Hybrid Molecular Materials. <i>Chemistry - A European Journal</i> , 2018, 24, .	3.3	0
31	A $\pi$ -conjugated inorganic polymer constructed from boron difluoride formazanates and platinum diynes. <i>Chemical Communications</i> , 2018, 54, 6899-6902.	4.1	36
32	Formazanate Complexes of Hypervalent Group 14 Elements as Precursors to Electronically Stabilized Radicals. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 9870-9874.	13.8	26
33	Formazanate Complexes of Hypervalent Group 14 Elements as Precursors to Electronically Stabilized Radicals. <i>Angewandte Chemie</i> , 2018, 130, 10018-10022.	2.0	6
34	A Phosphine-Based Heterotrimetallic (M = Fe, Ru, W) Homopolymer. <i>Organometallics</i> , 2017, 36, 2483-2486.	2.3	10
35	Dye rejection membranes prepared from oxidized graphite particles. <i>Canadian Journal of Chemistry</i> , 2017, 95, 1103-1109.	1.1	4
36	Structurally Diverse Boron-Nitrogen Heterocycles from an $N_2O_2$ Formazanate Ligand. <i>Angewandte Chemie</i> , 2017, 129, 8285-8289.	2.0	11

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37	Structurally Diverse Boron <sup>3+</sup> Nitrogen Heterocycles from an N <sub>2</sub> O <sub>2</sub> <sup>3+</sup> Formazanate Ligand. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 8173-8177.	13.8	36
38	Metal-containing polymers bearing pendant nickel( <sup>ii</sup> ) complexes of Goedken's macrocycle. <i>Polymer Chemistry</i> , 2017, 8, 2164-2172.	3.9	8
39	Aluminum Complexes of N <sub>2</sub> O <sub>2</sub> <sup>3+</sup> Formazanate Ligands Supported by Phosphine Oxide Donors. <i>Inorganic Chemistry</i> , 2017, 56, 12436-12447.	4.0	25
40	Boron Difluoride Adducts of a Flexidentate Pyridine-Substituted Formazanate Ligand: Property Modulation via Protonation and Coordination Chemistry. <i>Inorganic Chemistry</i> , 2017, 56, 12003-12011.	4.0	23
41	(Co)polymers containing boron difluoride 3-cyanoformazanate complexes: emission enhancement via random copolymerization. <i>Polymer Chemistry</i> , 2017, 8, 5388-5395.	3.9	19
42	Copper-assisted azide <sup>alkyne</sup> cycloaddition chemistry as a tool for the production of emissive boron difluoride 3-cyanoformazanates. <i>Organic Chemistry Frontiers</i> , 2017, 4, 178-190.	4.5	29
43	Boron difluoride formazanate copolymers with 9,9-di-n-hexylfluorene prepared by copper-catalyzed alkyne <sup>azide</sup> cycloaddition chemistry. <i>Polymer Chemistry</i> , 2016, 7, 3589-3598.	3.9	40
44	Synthesis, characterization, and preceramic properties of $\pi$ -conjugated polymers based on Ni(II) complexes of goedken's macrocycle. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3257-3266.	2.3	16
45	Design Criteria for Ultrathin Single <sup>Layer</sup> Flash Memristors from an Organic Polyradical. <i>Advanced Electronic Materials</i> , 2016, 2, 1600253.	5.1	15
46	Synthesis and characterization of metal <sup>rich</sup> phosphonium polyelectrolytes and their use as precursors to nanomaterials. <i>Dalton Transactions</i> , 2016, 45, 18229-18240.	3.3	13
47	Synthesis, characterization, and thin <sup>film</sup> properties of $\alpha$ -oxoverdazyl polymers prepared by ring <sup>opening</sup> metathesis polymerization. <i>Journal of Polymer Science Part A</i> , 2016, 54, 1803-1813.	2.3	19
48	Aggregation-induced emission enhancement in boron difluoride complexes of 3-cyanoformazanates. <i>Journal of Materials Chemistry C</i> , 2016, 4, 6478-6482.	5.5	34
49	An Azide-Functionalized Nitronyl Nitroxide Radical: Synthesis, Characterization and Staudinger <sup>Bertozzi</sup> Ligation Reactivity. <i>Synlett</i> , 2016, 27, 304-308.	1.8	1
50	Group 6 metal pentacarbonyl complexes of air-stable primary, secondary, and tertiary ferrocenylethylphosphines. <i>Dalton Transactions</i> , 2016, 45, 2859-2867.	3.3	7
51	Side-chain boron difluoride formazanate polymers via ring-opening metathesis polymerization. <i>Journal of Materials Chemistry C</i> , 2016, 4, 3987-3994.	5.5	28
52	OMCVD Gold Nanoparticles Covalently Attached to Polystyrene for Biosensing Applications. <i>Chemical Vapor Deposition</i> , 2015, 21, 275-280.	1.3	3
53	Evaluation of Anisole <sup>Substituted</sup> Boron Difluoride Formazanate Complexes for Fluorescence Cell Imaging. <i>Chemistry - A European Journal</i> , 2015, 21, 15589-15599.	3.3	65
54	Polymer Network Formation Using the Phosphane <sup>ene</sup> Reaction: A Thiol <sup>ene</sup> Analogue with Diverse Postpolymerization Chemistry. <i>Chemistry of Materials</i> , 2015, 27, 1412-1419.	6.7	43

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55	Liquid Crystalline Phase Behavior of Well-Defined Cylindrical Block Copolymer Micelles Using Synchrotron Small-Angle X-ray Scattering. <i>Macromolecules</i> , 2015, 48, 1579-1591.	4.8	27
56	Efficient electrochemiluminescence of a readily accessible boron difluoride formazanate dye. <i>Chemical Communications</i> , 2015, 51, 3766-3769.	4.1	75
57	Synthesis and characterization of conjugated/cross-conjugated benzene-bridged boron difluoride formazanate dimers. <i>RSC Advances</i> , 2015, 5, 56316-56324.	3.6	27
58	Effect of Extended $\pi$ -Conjugation on the Spectroscopic and Electrochemical Properties of Boron Difluoride Formazanate Complexes. <i>Journal of Organic Chemistry</i> , 2015, 80, 5226-5235.	3.2	83
59	Synthesis and Characterization of a Family of Air-Stable Ferrocene- and Ruthenocene-Containing Primary, Secondary, and Tertiary Phosphines. <i>Organometallics</i> , 2015, 34, 4272-4280.	2.3	13
60	Polymers Containing Nickel(II) Complexes of Goedken's Macrocyclic: Optimized Synthesis and Electrochemical Characterization. <i>Macromolecular Rapid Communications</i> , 2015, 36, 621-626.	3.9	9
61	Hydrogen-bond-supported dimeric boron complexes of potentially tetradentate $\beta^2$ -diketiminato ligands. <i>Dalton Transactions</i> , 2014, 43, 240-250.	3.3	27
62	Highly-metallized phosphonium polyelectrolytes. <i>Chemical Communications</i> , 2014, 50, 10714-10717.	4.1	25
63	Structurally Tunable $\pi$ -Cyanoforazanate Boron Difluoride Dyes. <i>Chemistry - A European Journal</i> , 2014, 20, 11340-11344.	3.3	61
64	Substituent-Dependent Optical and Electrochemical Properties of Triarylformazanate Boron Difluoride Complexes. <i>Inorganic Chemistry</i> , 2014, 53, 10585-10593.	4.0	79
65	6-Oxoverdazyl radical polymers with tunable electrochemical properties. <i>Polymer Chemistry</i> , 2014, 5, 5223-5226.	3.9	32
66	Influence of Cyclopentadienyl Ring Tilt on Electron Transfer Reactions: Redox-Induced Reactivity of Strained [2] and [3]Ruthenocenophanes. <i>Chemistry - A European Journal</i> , 2014, 20, 16216-16227.	3.3	5
67	Comparative Studies of Thermally Induced Homolytic Carbon-Carbon Bond Cleavage Reactions of Strained Dicarba[2]ferrocenophanes and Their Ring-Opened Oligomers and Polymers. <i>Chemistry - A European Journal</i> , 2014, 20, 4077-4085.	3.3	7
68	Dimensional Control of Block Copolymer Nanofibers with a $\pi$ -Conjugated Core: Crystallization-Driven Solution Self-Assembly of Amphiphilic Poly(3-hexylthiophene)- <i>b</i> -poly(2-vinylpyridine). <i>Chemistry - A European Journal</i> , 2013, 19, 9186-9197.	3.3	91
69	The solution phase characterization of poly(ferrocenyldimethylsilane)s by small-angle neutron scattering. <i>Journal of Polymer Science Part A</i> , 2013, 51, 4011-4020.	2.3	4
70	An iron-cyclopentadienyl bond cleavage mechanism for the thermal ring-opening polymerization of dicarba[2]ferrocenophanes. <i>Chemical Science</i> , 2012, 3, 830-841.	7.4	19
71	Fiber-like Micelles via the Crystallization-Driven Solution Self-Assembly of Poly(3-hexylthiophene)- <i>b</i> -Poly(methyl methacrylate) Copolymers. <i>Macromolecules</i> , 2012, 45, 5806-5815.	4.8	95
72	Cyclic and Linear Polyferrocenes with Silicon and Tin as Alternating Bridges. <i>Chemistry - A European Journal</i> , 2012, 18, 9722-9733.	3.3	13

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73	Metal $\pi$ -Metal Bond Formation Between [n]Metallocenophanes: Synthesis and Characterisation of a Dicarba[2]ruthenocenophanium Dimer. <i>Chemistry - A European Journal</i> , 2012, 18, 8000-8003.	3.3	13
74	End-to-End Coupling and Network Formation Behavior of Cylindrical Block Copolymer Micelles with a Crystalline Polyferrocenylsilane Core. <i>Journal of the American Chemical Society</i> , 2011, 133, 11220-11230.	13.7	53
75	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. <i>Journal of the American Chemical Society</i> , 2011, 133, 17056-17062.	13.7	91
76	Magnetostructural studies of palladium(II) and platinum(II) complexes of verdazyl radicals. <i>Journal of Materials Chemistry</i> , 2011, 21, 1523-1530.	6.7	19
77	Redox properties of zinc complexes of verdazyl radicals and diradicals. <i>Inorganica Chimica Acta</i> , 2011, 374, 480-488.	2.4	26
78	Main-Chain Heterobimetallic Block Copolymers: Synthesis and Self-Assembly of Polyferrocenylsilane-block-Poly(cobaltoceniumethylene). <i>Angewandte Chemie - International Edition</i> , 2011, 50, 5851-5855.	13.8	103
79	Monodisperse cylindrical micelles by crystallization-driven living self-assembly. <i>Nature Chemistry</i> , 2010, 2, 566-570.	13.6	537
80	Ring-Opening Polymerization of a Gallia[1]ferrocenophane: A Gallium-Bridged Polyferrocene with Observable Tacticity. <i>Journal of the American Chemical Society</i> , 2010, 132, 1794-1795.	13.7	64
81	Strain-Induced Cleavage of Carbon-Carbon Bonds: Bridge Rupture Reactions of Group 8 Dicarba[2]metallocenophanes. <i>Journal of the American Chemical Society</i> , 2010, 132, 1988-1998.	13.7	33
82	Photocontrolled Ring-Opening Polymerization of Strained Dicarba[2]Ferrocenophanes: A Route to Well-Defined Polyferrocenylethylene Homopolymers and Block Copolymers. <i>Chemistry - A European Journal</i> , 2009, 15, 12234-12246.	3.3	31
83	Redox-Active Metallomacrocycles and Cyclic Metallopolymers: Photocontrolled Ring-Opening Oligomerization and Polymerization of Silicon-Bridged [1]Ferrocenophanes Using Substitutionally-Labile Lewis Bases as Initiators. <i>Journal of the American Chemical Society</i> , 2009, 131, 14958-14968.	13.7	89
84	Effects of Electron-Deficient $\beta^2$ -Diketiminate and Formazan Supporting Ligands on Copper(I)-Mediated Dioxygen Activation. <i>Inorganic Chemistry</i> , 2009, 48, 4514-4523.	4.0	69
85	The Chemistry of Formazan Dyes. Synthesis and Characterization of a Stable Verdazyl Radical and a Related Boron-Containing Heterocycle. <i>Journal of Chemical Education</i> , 2009, 86, 76.	2.3	16
86	Ring-Opening Polymerization of 19-Electron [2]Cobaltocenophanes: A Route to High-Molecular-Weight, Water-Soluble Polycobaltocenium Polyelectrolytes. <i>Journal of the American Chemical Society</i> , 2009, 131, 10382-10383.	13.7	88
87	Structure and magnetism of a verdazyl radical clathrate hydrate. Strong intermolecular magnetic interactions derived from $\pi$ -stacking within ice-like channels. <i>CrystEngComm</i> , 2009, 11, 2180.	2.6	8
88	Synthesis and characterization of palladium complexes of 3-nitroformazans. <i>Inorganica Chimica Acta</i> , 2008, 361, 3388-3393.	2.4	25
89	Synthesis and redox properties of a phosphine-substituted para-dioxolene and its bimetallic palladium complex. <i>Canadian Journal of Chemistry</i> , 2008, 86, 976-981.	1.1	9
90	Synthesis and Characterization of 3-Cyano- and 3-Nitroformazans, Nitrogen-Rich Analogues of $\beta^2$ -Diketimine Ligands. <i>Inorganic Chemistry</i> , 2008, 47, 1279-1286.	4.0	33

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91	Transition Metal Complexes of 3-Cyano- and 3-Nitroformazans. <i>Inorganic Chemistry</i> , 2008, 47, 1287-1294.	4.0	52
92	Formazans as Î²-diketiminato analogues. Structural characterization of boratetetrazines and their reduction to borataverdazyl radical anions. <i>Chemical Communications</i> , 2007, , 126-128.	4.1	79
93	Linear and branched electroactive polymers based on ethylenedioxythiopheneâ€“triarylamine conjugates. <i>Journal of Materials Chemistry</i> , 2007, 17, 4768.	6.7	28
94	Probing Electronic Communication in Stable Benzene-Bridged Verdazyl Diradicals. <i>Journal of Organic Chemistry</i> , 2007, 72, 8062-8069.	3.2	77
95	Electrochemical Studies of Verdazyl Radicals. <i>Organic Letters</i> , 2007, 9, 4837-4840.	4.6	113
96	High-temperature metalâ€“organic magnets. <i>Nature</i> , 2007, 445, 291-294.	27.8	138
97	Magnetostructural studies of copper(ii)â€“verdazyl radical complexes. <i>Journal of Materials Chemistry</i> , 2006, 16, 2618-2624.	6.7	53
98	A divergent strategy for the synthesis of redox-active verdazyl radical polymers. <i>Polymer Chemistry</i> , 0, , .	3.9	15