

Cassandra L Fraser

List of Publications by Year in descending order

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81
papers

6,610
citations

66315

42
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62565

80
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86
all docs

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docs citations

86
times ranked

5046
citing authors

#	ARTICLE	IF	CITATIONS
1	Nitric oxide stimulates type IV MSHA pilus retraction in <i>Vibrio cholerae</i> via activation of the phosphodiesterase CdpA. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	13
2	Multi-Stimuli Responsive Luminescent β^2 -Diketones and Difluoroboron Complexes with Heterocyclic Substituents. Journal of Fluorescence, 2021, 31, 39-49.	1.3	5
3	Difluoroboron β^2 -diketonate polylactic acid oxygen nanosensors for intracellular neuronal imaging. Scientific Reports, 2021, 11, 1076.	1.6	11
4	Labelling primary immune cells using bright blue fluorescent nanoparticles. Biomaterials Science, 2020, 8, 1897-1909.	2.6	9
5	Biosurfactant-Mediated Membrane Depolarization Maintains Viability during Oxygen Depletion in <i>Bacillus subtilis</i> . Current Biology, 2020, 30, 1011-1022.e6.	1.8	41
6	Dual-emissive, oxygen-sensing boron nanoparticles quantify oxygen consumption rate in breast cancer cells. Journal of Biomedical Optics, 2020, 25, .	1.4	6
7	Amplified Heavy-Atom Free Phosphorescence from <i>meta</i> -Dimethoxy Difluoroboron β^2 -Diketonate Charge-Transfer Materials. Journal of Physical Chemistry C, 2019, 123, 20488-20496.	1.5	18
8	Supercooled Liquid β^2 -Diketones with Mechanoresponsive Emission. Journal of Physical Chemistry C, 2019, 123, 25788-25800.	1.5	15
9	Environment-Sensitive Azepane-Substituted β^2 -Diketones and Difluoroboron Complexes with Restricted C-C Bond Rotation. Journal of Physical Chemistry C, 2019, 123, 23124-23130.	1.5	5
10	Ring Size Effects on Multi-Stimuli Responsive Luminescent Properties of Cyclic Amine Substituted β^2 -Diketones and Difluoroboron Complexes. Chemistry - an Asian Journal, 2019, 14, 1849-1859.	1.7	15
11	Methoxy-Substituted Difluoroboron Benzoylacetate Complexes with Color-Tunable Phosphorescence. ChemPhotoChem, 2019, 3, 31-36.	1.5	13
12	Phosphorescence Tuning through Heavy Atom Placement in Unsymmetrical Difluoroboron β^2 -Diketonate Materials. Chemistry - A European Journal, 2018, 24, 1859-1869.	1.7	37
13	Modified VEGF-A mRNA induces sustained multifaceted microvascular response and accelerates diabetic wound healing. Scientific Reports, 2018, 8, 17509.	1.6	80
14	<i>Meta</i> -Dimethoxy-Substituted Difluoroboron Dibenzoylmethane Poly(Lactic Acid) Nanoparticles for Luminescence Anisotropy. Macromolecular Chemistry and Physics, 2018, 219, 1800240.	1.1	1
15	Color Tuning of Mechanochromic Luminescent β^2 -Diketones via Boron Coordination and Donor-Acceptor Effects. Journal of Physical Chemistry C, 2018, 122, 19090-19099.	1.5	36
16	Luminescent Difluoroboron β^2 -Diketonate PLA-PEG Nanoparticle. Biomacromolecules, 2017, 18, 551-561.	2.6	30
17	Controlling solid-state optical properties of stimuli responsive dimethylamino-substituted dibenzoylmethane materials. Materials Chemistry Frontiers, 2017, 1, 1804-1817.	3.2	23
18	Camera Method for Monitoring a Mechanochromic Luminescent β^2 -Diketone Dye with Rapid Recovery. ACS Applied Materials & Interfaces, 2017, 9, 17603-17612.	4.0	34

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19	Multi-stimuli responsive luminescent azepane-substituted $\hat{\text{I}}^2$ -diketones and difluoroboron complexes. <i>Materials Chemistry Frontiers</i> , 2017, 1, 1866-1874.	3.2	44
20	Oxygen-sensing Difluoroboron Thienyl Phenyl $\hat{\text{I}}^2$ -diketonate Poly lactides. <i>ChemPlusChem</i> , 2017, 82, 399-406.	1.3	22
21	Meta-Alkoxy-Substituted Difluoroboron Dibenzoylmethane Complexes as Environment-Sensitive Materials. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 32008-32017.	4.0	45
22	Stimuli responsive furan and thiophene substituted difluoroboron $\hat{\text{I}}^2$ -diketonate materials. <i>Materials Chemistry Frontiers</i> , 2017, 1, 158-166.	3.2	44
23	Difluoroboron $\hat{\text{I}}^2$ -diketonate materials with long-lived phosphorescence enable lifetime based oxygen imaging with a portable cost effective camera. <i>Analytical Methods</i> , 2016, 8, 3109-3114.	1.3	61
24	Thienyl Difluoroboron $\hat{\text{I}}^2$ -Diketonates in Solution and Poly lactide Media. <i>Australian Journal of Chemistry</i> , 2016, 69, 537.	0.5	19
25	Effects of $\hat{\text{I}}^{\pm}$ -Substitution on Mechanochromic Luminescence and Aggregation-Induced Emission of Difluoroboron $\hat{\text{I}}^2$ -Diketonate Dyes. <i>Journal of Physical Chemistry C</i> , 2016, 120, 22539-22548.	1.5	63
26	Blue thermally activated delayed fluorescence from a biphenyl difluoroboron $\hat{\text{I}}^2$ -diketonate. <i>RSC Advances</i> , 2016, 6, 81631-81635.	1.7	36
27	Oxygen Sensing Difluoroboron $\hat{\text{I}}^2$ -Diketonate Poly lactide Materials with Tunable Dynamic Ranges for Wound Imaging. <i>ACS Sensors</i> , 2016, 1, 1366-1373.	4.0	104
28	Modulating Mechanochromic Luminescence Quenching of Alkylated Iodo Difluoroboron Dibenzoylmethane Materials. <i>Journal of Physical Chemistry C</i> , 2016, 120, 14289-14300.	1.5	36
29	Mechanochromic Luminescence and Aggregation Induced Emission of Dinaphthoylmethane $\hat{\text{I}}^2$ -Diketones and Their Boronated Counterparts. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 1242-1251.	4.0	175
30	Mechanochromic luminescence and aggregation induced emission for a metal-free $\hat{\text{I}}^2$ -diketone. <i>Chemical Communications</i> , 2015, 51, 3359-3362.	2.2	65
31	Oxygen Sensing Difluoroboron Dinaphthoylmethane Poly lactide. <i>Macromolecules</i> , 2015, 48, 2967-2977.	2.2	117
32	Luminescent Difluoroboron $\hat{\text{I}}^2$ -diketonate PEG-PLA Oxygen Nanosensors for Tumor Imaging. <i>Macromolecular Rapid Communications</i> , 2015, 36, 694-699.	2.0	32
33	Tailoring Oxygen Sensitivity with Halide Substitution in Difluoroboron Dibenzoylmethane Poly lactide Materials. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 23633-23643.	4.0	72
34	Structure-mechanical property correlations in mechanochromic luminescent crystals of boron difluoride dibenzoylmethane derivatives. <i>IUCr</i> , 2015, 2, 611-619.	1.0	42
35	Mechanochromic luminescence of halide-substituted difluoroboron $\hat{\text{I}}^2$ -diketonate dyes. <i>Journal of Materials Chemistry C</i> , 2015, 3, 352-363.	2.7	119
36	Dual-Emissive Difluoroboron Naphthyl-Phenyl $\hat{\text{I}}^2$ -Diketonate Poly lactide Materials: Effects of Heavy Atom Placement and Polymer Molecular Weight. <i>Macromolecules</i> , 2014, 47, 3736-3746.	2.2	86

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37	The Relationship of Solid-State Plasticity to Mechanochromic Luminescence in Difluoroboron Avobenzene Polymorphs. <i>Advanced Functional Materials</i> , 2013, 23, 1422-1430.	7.8	158
38	Aromatic Difluoroboron \hat{I}^2 -Diketonate Complexes: Effects of \hat{I} -Conjugation and Media on Optical Properties. <i>Inorganic Chemistry</i> , 2013, 52, 3597-3610.	1.9	166
39	Crystal Engineering: The Relationship of Solid-State Plasticity to Mechanochromic Luminescence in Difluoroboron Avobenzene Polymorphs (Adv. Funct. Mater. 11/2013). <i>Advanced Functional Materials</i> , 2013, 23, 1476-1476.	7.8	1
40	In vivo optical molecular imaging and analysis in mice using dorsal window chamber models applied to hypoxia, vasculature and fluorescent reporters. <i>Nature Protocols</i> , 2011, 6, 1355-1366.	5.5	224
41	Alkyl chain length effects on solid-state difluoroboron \hat{I}^2 -diketonate mechanochromic luminescence. <i>Journal of Materials Chemistry</i> , 2011, 21, 8409.	6.7	161
42	Reversible solid-state mechanochromic fluorescence from a boron lipid dye. <i>Journal of Materials Chemistry</i> , 2011, 21, 8295.	6.7	121
43	Arene effects on difluoroboron \hat{I}^2 -diketonate mechanochromic luminescence. <i>Journal of Materials Chemistry</i> , 2011, 21, 8401.	6.7	110
44	Laser Phosphoroscope and Applications to Room-Temperature Phosphorescence. <i>Applied Spectroscopy</i> , 2011, 65, 1321-1324.	1.2	12
45	Fabrication and Degradation of Nanofibers Based on Luminescent Boron Dye-PLGA Blends. <i>ACS Symposium Series</i> , 2010, , 33-42.	0.5	2
46	Polymeric Platinum(II) Bipyridine Dithiolate Complexes: Exploring the Influence of Macromolecular Outer Spheres on Solvatochromism with UV-Vis Spectroscopy. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1246-1253.	1.1	1
47	Iron Tris(dibenzoylmethane) Centered PCL and PCL-PLA Stars from Dual Functional Catalyst-Initiators. <i>Macromolecular Chemistry and Physics</i> , 2010, 211, 1272-1279.	1.1	19
48	Optical imaging of tumor hypoxia dynamics. <i>Journal of Biomedical Optics</i> , 2010, 15, 1.	1.4	68
49	Intracellular Uptake and Trafficking of Difluoroboron Dibenzoylmethane-Polylactide Nanoparticles in HeLa Cells. <i>ACS Nano</i> , 2010, 4, 2735-2747.	7.3	59
50	An Easy Method To Monitor Lactide Polymerization with a Boron Fluorescent Probe. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 3069-3074.	4.0	16
51	Iron Tris(dibenzoylmethane-polylactide). <i>Macromolecules</i> , 2010, 43, 4909-4920.	2.2	51
52	Polymorphism and Reversible Mechanochromic Luminescence for Solid-State Difluoroboron Avobenzene. <i>Journal of the American Chemical Society</i> , 2010, 132, 2160-2162.	6.6	765
53	Mechanochromic Luminescence Quenching: Force-Enhanced Singlet-to-Triplet Intersystem Crossing for Iodide-Substituted Difluoroboron-Dibenzoylmethane-Dodecane in the Solid State. <i>Inorganic Chemistry</i> , 2010, 49, 10747-10749.	1.9	85
54	Stereocomplexed Poly(lactic acid)-Poly(ethylene glycol) Nanoparticles with Dual-Emissive Boron Dyes for Tumor Accumulation. <i>ACS Nano</i> , 2010, 4, 4989-4996.	7.3	72

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55	Luminescence Oxygen Sensor Based on a Ruthenium(II) Star Polymer Complex. <i>Analytical Chemistry</i> , 2010, 82, 917-921.	3.2	72
56	Luminescent Donor-Acceptor \hat{I}^2 -Diketones: Modulation of Emission by Solvent Polarity and Group II Metal Binding. <i>Journal of Fluorescence</i> , 2009, 19, 881-889.	1.3	16
57	A dual-emissive-materials design concept enables tumour hypoxia imaging. <i>Nature Materials</i> , 2009, 8, 747-751.	13.3	941
58	Difluoroboron Dibenzoylmethane PCL-PLA Block Copolymers: Matrix Effects on Room Temperature Phosphorescence. <i>Macromolecules</i> , 2009, 42, 3162-3169.	2.2	66
59	Synthesis and Fluorescent Properties of Difluoroboron Dibenzoylmethane Polycaprolactone. <i>Macromolecules</i> , 2009, 42, 3092-3097.	2.2	48
60	Role of Boron in the Polymer Chemistry and Photophysical Properties of Difluoroboron \hat{I}^2 -Dibenzoylmethane Poly lactide. <i>Macromolecules</i> , 2009, 42, 8627-8633.	2.2	76
61	Emission Color Tuning with Polymer Molecular Weight for Difluoroboron Dibenzoylmethane \hat{I}^2 -Poly lactide. <i>Advanced Materials</i> , 2008, 20, 2099-2104.	11.1	111
62	Boron Poly lactide Nanoparticles Exhibiting Fluorescence and Phosphorescence in Aqueous Medium. <i>ACS Nano</i> , 2008, 2, 1252-1258.	7.3	134
63	Adapting Polymeric Metal Complexes for Biomedical Applications. <i>ACS Symposium Series</i> , 2008, , 95-115.	0.5	2
64	Multi-Emissive Difluoroboron Dibenzoylmethane Poly lactide Exhibiting Intense Fluorescence and Oxygen-Sensitive Room-Temperature Phosphorescence. <i>Journal of the American Chemical Society</i> , 2007, 129, 8942-8943.	6.6	527
65	A Comparative Study of Polymer Composition, Molecular Weight, and Counterion Effects on the Chelation of Bipyridine Macroligands to Iron(II). <i>ACS Symposium Series</i> , 2006, , 17-29.	0.5	1
66	Iron Tris(bipyridine)-Centered Star Block Copolymers: \hat{I}^2 Chelation of Triblock Macroligands Generated by ROP and ATRP. <i>Macromolecules</i> , 2004, 37, 2718-2727.	2.2	69
67	Site-Isolated Luminescent Lanthanide Complexes with Polymeric Ligands. <i>ACS Symposium Series</i> , 2004, , 233-246.	0.5	1
68	Metal complexes with polymeric ligands: modular synthesis of multifunctional materials for applications in biomedicine and nanotechnology. <i>Macromolecular Symposia</i> , 2002, 186, 161-164.	0.4	1
69	Site-Isolated Luminescent Europium Complexes with Polyester Macroligands: \hat{I}^2 Metal-Centered Heteroarm Stars and Nanoscale Assemblies with Labile Block Junctions. <i>Journal of the American Chemical Society</i> , 2002, 124, 8526-8527.	6.6	127
70	Luminescent polymeric ruthenium complexes with polystyrene-b-poly(methyl methacrylate) macroligands: The sequential activation of initiator sites for blocks generated by parallel polymerization mechanisms. <i>Journal of Polymer Science Part A</i> , 2002, 40, 4250-4255.	2.5	20
71	Biocompatible Polyester Macroligands: \hat{I}^2 New Subunits for the Assembly of Star-Shaped Polymers with Luminescent and Cleavable Metal Cores. <i>Biomacromolecules</i> , 2001, 2, 223-232.	2.6	86
72	Metal complexes with polymeric ligands: Chelation and metalloinitiation approaches to metal tris(bipyridine)-containing materials. <i>Journal of Polymer Science Part A</i> , 2000, 38, 4704-4716.	2.5	71

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73	Copper ATRP Catalysts with Quadridentate Amine Ligands: The Effects of Steric and Electronic Tuning on the Polymerization of Methyl Methacrylate. <i>Macromolecules</i> , 2000, 33, 8618-8628.	2.2	42
74	Architectural Diversity via Metal Template-Assisted Polymer Synthesis: A Macroligand Chelation Approach to Linear and Star-Shaped Polymeric Ruthenium Tris(bipyridine) Complexes. <i>Macromolecules</i> , 2000, 33, 4053-4060.	2.2	90
75	Poly(methyl methacrylates) with Ruthenium Tris(bipyridine) Cores via NiBr ₂ (PR ₃) ₂ -Catalyzed Atom Transfer Radical Polymerization (ATRP). <i>Macromolecules</i> , 2000, 33, 7404-7412.	2.2	62
76	Polymerization of 2-Ethyl-2-oxazoline Using Di-, Tetra-, and Hexafunctional Ruthenium Tris(bipyridine) Metalloinitiators. <i>Macromolecules</i> , 1999, 32, 6925-6932.	2.2	54
77	Metal-Centered Star Block Copolymers: Amphiphilic Iron Tris(bipyridine)-Centered Polyoxazolines and Their Chemical Fragmentation to Bipyridine-Centered BAB Triblock Copolymers. <i>Macromolecules</i> , 1999, 32, 1341-1347.	2.2	70
78	Transition Metals as Templates for Multifunctional Initiators: Bulk Atom Transfer Radical Polymerization of Styrene Using Di-, Tetra- and Hexafunctional Ruthenium Tris(bipyridine) Reagents. <i>Macromolecules</i> , 1998, 31, 6715-6717.	2.2	85
79	Efficient Synthesis of 4-, 5-, and 6-Methyl-2,2'-bipyridine by a Negishi Cross-Coupling Strategy Followed by High-Yield Conversion to Bromo- and Chloromethyl-2,2'-bipyridines. <i>Journal of Organic Chemistry</i> , 1998, 63, 10048-10051.	1.7	108
80	Synthesis of Halomethyl and Other Bipyridine Derivatives by Reaction of 4,4'-Bis[(trimethylsilyl)methyl]-2,2'-bipyridine with Electrophiles in the Presence of Fluoride Ion. <i>Journal of Organic Chemistry</i> , 1997, 62, 9314-9317.	1.7	56
81	Quantifying the effects of anesthesia on intracellular oxygen via low-cost portable microscopy using dual-emissive nanoparticles. <i>Biomedical Optics Express</i> , 0, , .	1.5	1