

Boron-based stimuli responsive materials

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Control of Multicolor and White Emission by Adjusting the Equilibrium between Fluorophores, Lewis Acids, and Their Complexes in Polymers. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 14457-14461.	7.2	31
2	Control of Multicolor and White Emission by Adjusting the Equilibrium between Fluorophores, Lewis Acids, and Their Complexes in Polymers. <i>Angewandte Chemie</i> , 2019, 131, 14599-14603.	1.6	11
3	Four-coordinate Organoboron Platforms for Efficient Red Phosphorescent Organic Light-emitting Diodes. <i>ChemPlusChem</i> , 2019, 84, 1587-1595.	1.3	3
4	Promoting water dissociation performance by borinic acid for the strong-acid/base-free hydrogen evolution reaction. <i>Chemical Communications</i> , 2019, 55, 9821-9824.	2.2	4
5	How π -Extension or Structural Bending Alters the Properties of Boron-Doped Phenylene-Containing Oligoacenes. <i>Organometallics</i> , 2019, 38, 2818-2823.	1.1	12
6	Temperature- and Mechanical-Force-Responsive Self-Assembled Rhomboidal Metallacycle. <i>Organometallics</i> , 2019, 38, 4244-4249.	1.1	33
7	Triarylborane-based [5]Helicenes with Full-Color Circularly Polarized Luminescence. <i>Organic Letters</i> , 2019, 21, 9569-9573.	2.4	51
8	Circularly Polarized Luminescence Switching in Small Organic Molecules. <i>Chemistry - A European Journal</i> , 2019, 25, 15441-15454.	1.7	157
9	1,8-Naphthalimide-Based Highly Emissive Luminophors with Various Mechanofluorochromism and Aggregation-Induced Characteristics. <i>ACS Omega</i> , 2019, 4, 14324-14332.	1.6	25
10	Lewis Pairs as Highly Tunable Dynamic Cross-Links in Transient Polymer Networks. <i>Journal of the American Chemical Society</i> , 2019, 141, 15963-15971.	6.6	60
11	Quadruply B π -N-Fused Dibenzo-azaacene with High Electron Affinity and High Electron Mobility. <i>Journal of the American Chemical Society</i> , 2019, 141, 17015-17021.	6.6	93
12	Photoluminescent manipulation of phenoxazine-based molecules via regulating conformational isomerization, and the corresponding electroluminescent properties. <i>Journal of Materials Chemistry C</i> , 2019, 7, 14255-14263.	2.7	18
13	Charge reversal and swelling in saccharide binding polyzwitterionic phenylboronic acid-modified poly(4-vinylpyridine) nanoparticles. <i>Polymer Chemistry</i> , 2019, 10, 5522-5533.	1.9	12
14	Donor-acceptor π -conjugated quinoxaline derivatives exhibiting multi-stimuli-responsive behaviors and polymorphism-dependent multicolor solid-state emission. <i>Dyes and Pigments</i> , 2020, 173, 107971.	2.0	30
15	Temperature-sensitive triarylboron compounds based on naphthalene substituents. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 226, 117648.	2.0	7
16	B π -N-containing azaacenes with propynyl groups on boron atoms. <i>Chinese Chemical Letters</i> , 2020, 31, 1193-1196.	4.8	10
17	Organoboron Polymer for 10% Efficiency All-Polymer Solar Cells. <i>Chemistry of Materials</i> , 2020, 32, 1308-1314.	3.2	155
18	Alkyl Group Migration in Ni-Catalyzed Conjunctive Coupling with C(sp ³) Electrophiles: Reaction Development and Application to Targets of Interest. <i>Organic Letters</i> , 2020, 22, 666-669.	2.4	19

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19	Easily accessible axial chiral binaphthalene-triarylborane dyes displaying intense circularly polarized luminescence both in solution and in solid-state. <i>Dyes and Pigments</i> , 2020, 175, 108168.	2.0	13
20	A multi-stimuli-responsive AIE material switching among three emission states. <i>Materials Letters</i> , 2020, 263, 127214.	1.3	12
21	Ratiometric dual fluorescence tridurylboron thermometers with tunable measurement ranges and colors. <i>Talanta</i> , 2020, 210, 120630.	2.9	12
22	Synthesis and Tunable Optical Properties of C,N-Chelated Borate Luminophores Derived from Potassium Acyltrifluoroborates. <i>Chemistry - A European Journal</i> , 2020, 26, 2450-2455.	1.7	14
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25	Design, Synthesis, and Temperature-Driven Molecular Conformation-Dependent Delayed Fluorescence Characteristics of Dianthrylboron-Based Donor-Acceptor Systems. <i>Frontiers in Chemistry</i> , 2020, 8, 541331.	1.8	3
26	Biomimetic Boroxine-Based Multifunctional Thermosets via One-Pot Synthesis. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 56445-56453.	4.0	17
27	ROMP-Boranes as Moisture-Tolerant and Recyclable Lewis Acid Organocatalysts. <i>Journal of the American Chemical Society</i> , 2020, 142, 14427-14431.	6.6	27
28	Cu-Catalyzed Regio- and Stereodivergent Chemoselective sp/sp 1,3- and 1,4-Diborylations of CF ₃ -Containing 1,3-Enynes. <i>Chem</i> , 2020, 6, 2347-2363.	5.8	55
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30	Anionic Organoboranes: Delicate Flowers Worth Caring for. <i>European Journal of Inorganic Chemistry</i> , 2020, 2020, 4148-4162.	1.0	32
31	External Stimuli Responsive Bis(anthryl)borylaniline AIEgens for Viscosity and Temperature Sensing: The Game of Molecular Flexibility. <i>Advanced Optical Materials</i> , 2020, 8, 1902145.	3.6	26
32	Base-promoted domino-borylation-protodeboronation strategy. <i>Chemical Communications</i> , 2020, 56, 6469-6479.	2.2	36
33	Synthesis of π -extended B-N coordinated phenanthroimidazole dimers and their linear and nonlinear optical properties. <i>Dalton Transactions</i> , 2020, 49, 7737-7746.	1.6	15
34	Strategy for optical data encryption and decryption using a D-A type stimuli-responsive AIE material. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 239, 118486.	2.0	12
35	Highly Emissive <i>ortho</i> -Donor-Acceptor Triarylboranes: Impact of Boryl Acceptors on Luminescence Properties. <i>Organometallics</i> , 2020, 39, 2235-2244.	1.1	10
36	Intramolecular (directed) electrophilic C-H borylation. <i>Chemical Society Reviews</i> , 2020, 49, 4564-4591.	18.7	140

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37	Optoelectronic Properties of Carbon-Bound Boron Difluoride Hydrazone Dimers. <i>Chemistry - A European Journal</i> , 2020, 26, 5522-5529.	1.7	10
38	Planar Chiral Organoboranes with Thermoresponsive Emission and Circularly Polarized Luminescence: Integration of Pillar[5]arenes with Boron Chemistry. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 11267-11272.	7.2	86
39	Planar Chiral Organoboranes with Thermoresponsive Emission and Circularly Polarized Luminescence: Integration of Pillar[5]arenes with Boron Chemistry. <i>Angewandte Chemie</i> , 2020, 132, 11363-11368.	1.6	25
40	Metal-Free Room-Temperature Phosphorescence from Amorphous Triarylborane-Based Biphenyl. <i>Organometallics</i> , 2020, 39, 4153-4158.	1.1	17
41	Photo-Stimulated Polychromatic Room Temperature Phosphorescence of Carbon Dots. <i>Small</i> , 2020, 16, e2001909.	5.2	125
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44	Asymmetric Hydrogenation of β -Boryl Enamides Enabled by Nonbonding Interactions. <i>ACS Catalysis</i> , 2020, 10, 3232-3240.	5.5	28
45	H-aggregate triggered mechanochromic luminescence property of 7-(diethylamino)-coumarin-3-carbaldehyde oxime derivative. <i>Tetrahedron Letters</i> , 2020, 61, 151797.	0.7	4
46	Carbazole-based highly solid-state emissive fluorene derivatives with various mechanochromic fluorescence characteristics. <i>Dyes and Pigments</i> , 2020, 177, 108302.	2.0	18
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51	Synthesis and Reactivity of Cationic Boron Complexes Distorted by Pyridine-based Pincer Ligands: Isolation of a Photochemical Hofmann-Martius-type Intermediate. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 4932-4936.	7.2	18
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53	A molecular boron cluster-based chromophore with dual emission. <i>Dalton Transactions</i> , 2020, 49, 16245-16251.	1.6	15
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55	Divergent and Multi-Stage Photoisomerization of Four-Coordinated Boron Compounds with a Naphthyl-Pyridyl/Thiazolyl Backbone. <i>Chemistry - A European Journal</i> , 2020, 26, 12403-12410.	1.7	14
56	Rigid π -Extended Boron Difluoride Complex with Mega-Stokes Shift for Bioimaging. <i>Organic Letters</i> , 2020, 22, 3356-3360.	2.4	37
57	Iridium-katalysierte C-H-Borylierung von Heteroarenen: Eine Balance zwischen sterischer and elektronischer Regiokontrolle. <i>Angewandte Chemie</i> , 2021, 133, 2830-2856.	1.6	27
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60	A Multi-Stimuli-Responsive Molecule with Responses to Light, Oxygen, and Mechanical Stress through Flexible Tuning of Triplet Excitons. <i>Advanced Optical Materials</i> , 2021, 9, 2001550.	3.6	32
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64	Phenylpyridyl-Fused Boroles: A Unique Coordination Mode and Weak B-N Coordination-Induced Dual Fluorescence. <i>Angewandte Chemie</i> , 2021, 133, 4883-4890.	1.6	9
65	High Molar Mass Poly(alkylphosphinoboranes) via Iron-Catalyzed Dehydropolymerization. <i>Macromolecules</i> , 2021, 54, 71-82.	2.2	10
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68	High-contrast mechanochromic fluorescence from a highly solid-state emissive 2-(dimesitylboryl)phenyl-substituted [2.2]paracyclophane. <i>Journal of Materials Chemistry C</i> , 2021, 9, 1740-1745.	2.7	9
69	Electron-Deficient Polycyclic π -System Fused with Multiple B-N Coordinate Bonds. <i>Journal of Organic Chemistry</i> , 2021, 86, 2100-2106.	1.7	18
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71	Tuning the Donor-Acceptor Character of Arylborane-Arylamine Macrocycles. <i>Organometallics</i> , 2021, 40, 520-528.	1.1	25
72	Recent developments in stimuli-responsive luminescent polymers composed of boron compounds. <i>Polymer Chemistry</i> , 2021, 12, 6372-6380.	1.9	19

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74	Responsive organoboranes with dynamic conformation of octacyclophane-type scaffolds: synthesis, AIE and temperature-dependent dual emissions. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13851-13859.	2.7	8
75	Restriction of Intramolecular Motion(RIM): Investigating AIE Mechanism from Experimental and Theoretical Studies. <i>Chemical Research in Chinese Universities</i> , 2021, 37, 1-15.	1.3	81
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81	Merging Boron with Nitrogen-Oxygen Bonds: A Review on BON Heterocycles. <i>Topics in Current Chemistry</i> , 2021, 379, 8.	3.0	9
82	π -(Quinolyl)pyrrole-Boron Difluoride Complexes, Simple and Tractable Structures Exhibiting Red Emission. <i>ChemistrySelect</i> , 2021, 6, 1168-1173.	0.7	8
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84	Molecular design and application of luminescent materials composed of group 13 elements with an aggregation-induced emission property. <i>National Science Review</i> , 2021, 8, nwab049.	4.6	26
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86	Dithiophene-Fused Oxadiborepins and Azadiborepins: A New Class of Highly Fluorescent Heteroaromatics. <i>Angewandte Chemie</i> , 2021, 133, 9376-9381.	1.6	7
87	Synthesis and Characterization of Boron Difluoride Complexes Bearing π -Expanded Pyridine Ligands as Organic Fluorochromes. <i>Journal of Organic Chemistry</i> , 2021, 86, 5690-5701.	1.7	21
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91	Progress, Challenges, and Opportunities in the Synthesis, Characterization, and Application of Metal-Boride-Derived Two-Dimensional Nanostructures. , 2021, 3, 535-556.		49
92	pH Feedback Lifecycles Programmed by Enzymatic Logic Gates Using Common Foods as Fuels. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11398-11405.	7.2	42
93	Ligand-Triggered Platinum(II) Metallacycle with Mechanochromic and Vapochromic Responses. <i>Inorganic Chemistry</i> , 2021, 60, 9387-9393.	1.9	75
94	Tetracoordinate Boron Intermediates Enable Unconventional Transformations. <i>Accounts of Chemical Research</i> , 2021, 54, 2298-2312.	7.6	81
95	pH Feedback Lifecycles Programmed by Enzymatic Logic Gates Using Common Foods as Fuels. <i>Angewandte Chemie</i> , 2021, 133, 11499-11506.	1.6	11
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97	Synthesis and self-assembly of polyzwitterionic phenylboronic acid-containing double hydrophilic block copolymers. <i>European Polymer Journal</i> , 2021, 151, 110439.	2.6	3
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99	Synthesis, structure and property of boron-based metal-organic materials. <i>Coordination Chemistry Reviews</i> , 2021, 435, 213783.	9.5	29
100	B ₂ N ₂ -Doped Dibenzo[<i>a,m</i>]Rubicene: Modular Synthesis, Properties, and Coordination-Induced Color Tunability. <i>Chemistry of Materials</i> , 2021, 33, 5337-5344.	3.2	16
101	Stimuli-Responsive AIEgens. <i>Advanced Materials</i> , 2021, 33, e2008071.	11.1	178
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107	Electron-Deficient Heteroacenes that Contain Two Boron Atoms: Near-Infrared Fluorescence Based on a Push-Pull Effect**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 21853-21859.	7.2	34
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111	Ï€-stacked donor-acceptor molecule to realize hybridized local and charge-transfer excited state emission with multi-stimulus response. <i>Chemical Engineering Journal</i> , 2021, 418, 129366.	6.6	22
112	Tetraphenylethene-decorated difluoroboron Ï²-diketonates with terminal chiral Ï±-phenylethylamine: Aggregation-induced emission, circularly polarized luminescence and mechanofluochromism. <i>Dyes and Pigments</i> , 2021, 192, 109396.	2.0	16
113	Bithiopheneâ€“Cored, <i>monoâ€“</i>, <i>bisâ€“</i>, and <i>trisâ€“</i> (Trimethylammonium)â€“Substituted, <i>bisâ€“</i> Triarylborane Chromophores: Effect of the Number and Position of Charges on Cell Imaging and DNA/RNA Sensing. <i>Chemistry - A European Journal</i> , 2021, 27, 14057-14072.	1.7	14
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119	Radical-doped asymmetrical naphthalenediimides derivatives: Multiple stimuli chromism and their mechanical grinding toning with organic molecules. <i>Dyes and Pigments</i> , 2021, 193, 109503.	2.0	5
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122	Catalytic Enantioselective Construction of Chiroptical Boron-Stereogenic Compounds. <i>Journal of the American Chemical Society</i> , 2021, 143, 16302-16310.	6.6	33
123	A Novel Strategy to Design and Construct AIEâ€“Active Mechanofluorochromic Materials via Regulation of Molecular Structure. <i>Chemistry - A European Journal</i> , 2021, 27, 14964-14970.	1.7	13
124	Luminescent Behavior Elucidation of a Disilaneâ€“Bridged Dâ€“Aâ€“D Triad Composed of Phenothiazine and Thienopyrazine. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 22871-22878.	7.2	30
125	Nano-assembly and optical properties of difluoroboron dibenzoylmethane-polysilane. <i>Polymer</i> , 2021, 232, 124188.	1.8	5
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128	AIE-featured tetraphenylethylene nanoarchitectures in biomedical application: Bioimaging, drug delivery and disease treatment. <i>Coordination Chemistry Reviews</i> , 2021, 447, 214135.	9.5	59
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294	Electrochemical synthesis and transformation of organoboron compounds. Organic Chemistry Frontiers, 2023, 10, 3361-3377.	2.3	3
303	Disilane-bridged architectures: an emerging class of molecular materials. Chemical Science, 2023, 14, 10385-10402.	3.7	0
304	Colorful variation of tetraphenylethene derivatives in the solid state. Materials Chemistry Frontiers, 2023, 8, 104-132.	3.2	3
320	Poly(ferrocenylene iminoborane): an inorganic-organic hybrid polymer comprising a backbone of moderately interacting ferrocenes. Chemical Communications, 2023, 59, 13723-13726.	2.2	1
332	Recent Advances in Pure-Organic Host-Guest Room-Temperature Phosphorescence Systems Toward Bioimaging. Transactions of Tianjin University, 0, , .	3.3	0
335	Organoboron-based multiple-resonance emitters: synthesis, structure-property correlations, and prospects. Chemical Society Reviews, 2024, 53, 1624-1692.	18.7	1
342	Stimuli-responsive luminescence from polar cyano/isocyano-derived luminophores via structural tailoring and self-assembly. Dalton Transactions, 2024, 53, 5320-5341.	1.6	0