

Gang He

List of Publications by Year in descending order

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91
papers

4,290
citations

126907

33
h-index

118850

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95
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95
docs citations

95
times ranked

4189
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel picric acid film sensor via combination of the surface enrichment effect of chitosan films and the aggregation-induced emission effect of siloles. <i>Journal of Materials Chemistry</i> , 2009, 19, 7347.	6.7	330
2	X-ray and UV Dual Photochromism, Thermochromism, Electrochromism, and Amine-Selective Chemochromism in an Anderson-like Zn ₇ Cluster-Based 7-Fold Interpenetrated Framework. <i>Journal of the American Chemical Society</i> , 2019, 141, 12663-12672.	13.7	248
3	Aqueous Platinum(II)-Cage-Based Light-Harvesting System for Photocatalytic Cross-Coupling Hydrogen Evolution Reaction. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8862-8866.	13.8	237
4	Pyrene-Containing Conjugated Polymer-Based Fluorescent Films for Highly Sensitive and Selective Sensing of TNT in Aqueous Medium. <i>Macromolecules</i> , 2011, 44, 4759-4766.	4.8	173
5	Small Inorganic Rings in the 21st Century: From Fleeting Intermediates to Novel Isolable Entities. <i>Chemical Reviews</i> , 2014, 114, 7815-7880.	47.7	173
6	Emissive Platinum(II) Cages with Reverse Fluorescence Resonance Energy Transfer for Multiple Sensing. <i>Journal of the American Chemical Society</i> , 2020, 142, 2592-2600.	13.7	166
7	Coaxing Solid-State Phosphorescence from Tellurophenes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 4587-4591.	13.8	150
8	Electrochromic Poly(chalcogenoviologen)s as Anode Materials for High-Performance Organic Radical Lithium-Ion Batteries. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 8468-8473.	13.8	134
9	The Marriage of Metallacycle Transfer Chemistry with Suzuki-Miyaura Cross-Coupling To Give Main Group Element-Containing Conjugated Polymers. <i>Journal of the American Chemical Society</i> , 2013, 135, 5360-5363.	13.7	131
10	9,10-Azaboraphenanthrene-containing small molecules and conjugated polymers: synthesis and their application in chemodosimeters for the ratiometric detection of fluoride ions. <i>Chemical Science</i> , 2018, 9, 4444-4450.	7.4	119
11	Narrow-Bandgap Chalcogenoviologens for Electrochromism and Visible-Light-Driven Hydrogen Evolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 4897-4901.	13.8	101
12	Glucose-Based Fluorescent Low-Molecular Mass Compounds: Creation of Simple and Versatile Supramolecular Gelators. <i>Langmuir</i> , 2010, 26, 5909-5917.	3.5	96
13	Organic Thiocarboxylate Electrodes for a Room-Temperature Sodium-Ion Battery Delivering an Ultrahigh Capacity. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 15334-15338.	13.8	91
14	Polythiourethane Covalent Adaptable Networks for Strong and Reworkable Adhesives and Fully Recyclable Carbon Fiber-Reinforced Composites. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 47975-47983.	8.0	85
15	Tetraphenylethylene-Based Multicomponent Emissive Metallacages as Solid-State Fluorescent Materials. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 12293-12297.	13.8	83
16	Fluorescent Film Sensor for Vapor-Phase Nitroaromatic Explosives via Monolayer Assembly of Oligo(diphenylsilane) on Glass Plate Surfaces. <i>Chemistry of Materials</i> , 2009, 21, 1494-1499.	6.7	79
17	Chalcogen atom modulated persistent room-temperature phosphorescence through intramolecular electronic coupling. <i>Chemical Communications</i> , 2018, 54, 9226-9229.	4.1	76
18	Phosphorescence within benzotellurophenes and color tunable tellurophenes under ambient conditions. <i>Chemical Communications</i> , 2015, 51, 5444-5447.	4.1	74

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19	Synthesis and Luminescent Properties of Lewis Base-Appended Borafluorenes. <i>Inorganic Chemistry</i> , 2014, 53, 1475-1486.	4.0	72
20	Novel electrochromic materials based on chalcogenoviologens for smart windows, E-price tag and flexible display with improved reversibility and stability. <i>Chemical Engineering Journal</i> , 2021, 422, 130057.	12.7	72
21	Emissive Metallacycle-Crosslinked Supramolecular Networks with Tunable Crosslinking Densities for Bacterial Imaging and Killing. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 15199-15203.	13.8	67
22	Lanthanide doping induced electrochemical enhancement of Na ₂ Ti ₃ O ₇ anodes for sodium-ion batteries. <i>Chemical Science</i> , 2018, 9, 3421-3425.	7.4	66
23	Aerobic Solid State Red Phosphorescence from Benzobismole Monomers and Patternable Self-Assembled Block Copolymers. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 14841-14846.	13.8	61
24	Ultralong Organic Phosphorescent Nanocrystals with Long-Lived Triplet Excited States for Afterglow Imaging and Photodynamic Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18385-18394.	8.0	57
25	Preparation of pyrene-functionalized fluorescent film with a benzene ring in spacer and sensitive detection to picric acid in aqueous phase. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2011, 217, 356-362.	3.9	54
26	Discrimination of saturated alkanes and relevant volatile compounds <i>via</i> the utilization of a conceptual fluorescent sensor array based on organoboron-containing polymers. <i>Chemical Science</i> , 2018, 9, 1892-1901.	7.4	54
27	Photochemical Stabilization of Terthiophene and Its Utilization as a New Sensing Element in the Fabrication of Monolayer-Chemistry-Based Fluorescent Sensing Films. <i>ACS Applied Materials & Interfaces</i> , 2011, 3, 1245-1253.	8.0	47
28	Poly(selenoviologen)-Assembled Upconversion Nanoparticles for Low-Power Single-NIR Light-Triggered Synergistic Photodynamic and Photothermal Antibacterial Therapy. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 26432-26443.	8.0	46
29	Moving Beyond Boron-Based Substituents To Achieve Phosphorescence in Tellurophenes. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 12124-12134.	8.0	41
30	<i>ortho</i> -Terphenylene Viologens with Through-Space Conjugation for Enhanced Photocatalytic Oxidative Coupling and Hydrogen Evolution. <i>Journal of the American Chemical Society</i> , 2022, 144, 4422-4430.	13.7	38
31	Single-Molecule Conductance through an Isoelectronic B-N Substituted Phenanthrene Junction. <i>Journal of the American Chemical Society</i> , 2020, 142, 8068-8073.	13.7	37
32	Extended chalcogenoviologens with stable radical state enable enhanced visible-light-driven hydrogen evolution and static/dynamic electrochromic displays. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12278-12284.	10.3	36
33	Dibora[10]annulenes: Construction, Properties, and Their Ring-Opening Reactions. <i>Organic Letters</i> , 2019, 21, 109-113.	4.6	35
34	Phosphorescent Bismoviologens for Electrophosphorochromism and Visible Light-Induced Cross-Dehydrogenative Coupling. <i>Journal of the American Chemical Society</i> , 2021, 143, 1590-1597.	13.7	33
35	Bipolar Arylsilane: Synthesis, Photoelectronic Properties, and High-Performance Deep Blue Organic Light-Emitting Diodes. <i>ACS Applied Electronic Materials</i> , 2021, 3, 422-429.	4.3	31
36	Organic Thiocarboxylate Electrodes for a Room-Temperature Sodium-Ion Battery Delivering an Ultrahigh Capacity. <i>Angewandte Chemie</i> , 2017, 129, 15536-15540.	2.0	31

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37	A New Strategy for Designing Conjugated Polymer-Based Fluorescence Sensing Films via Introduction of Conformation Controllable Side Chains. <i>Macromolecules</i> , 2011, 44, 703-710.	4.8	30
38	Probing the nature of peripheral boryl groups within luminescent tellurophenes. <i>Faraday Discussions</i> , 2017, 196, 255-268.	3.2	28
39	Tetraphenylethylene-Based Multicomponent Emissive Metallacages as Solid-State Fluorescent Materials. <i>Angewandte Chemie</i> , 2021, 133, 12401-12405.	2.0	27
40	Selective Placement of Bromide and Pinacolboronate Groups about a Tellurophene: New Building Blocks for Optoelectronic Applications. <i>Organometallics</i> , 2016, 35, 2140-2148.	2.3	26
41	Isometric Thionated Naphthalene Diimides As Organic Cathodes for High Capacity Lithium Batteries. <i>Chemistry of Materials</i> , 2020, 32, 10575-10583.	6.7	26
42	Three-Electron Redox Enabled Dithiocarboxylate Electrode for Superior Lithium Storage Performance. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 35469-35476.	8.0	24
43	Cationic Chalcogenoviologen Derivatives for Photodynamic Antimicrobial Therapy and Skin Regeneration. <i>Chemistry - A European Journal</i> , 2019, 25, 13472-13478.	3.3	24
44	Monomolecular-layer assembly of oligothiophene on glass wafer surface and its fluorescence sensitization by formaldehyde vapor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2009, 202, 178-184.	3.9	23
45	Modular Synthesis of Spirocyclic Germafluorene-Germoles: A New Family of Tunable Luminogens. <i>Chemistry - A European Journal</i> , 2016, 22, 248-257.	3.3	22
46	Electrochromic Poly(chalcogenoviologen)s as Anode Materials for High-Performance Organic Radical Lithium-Ion Batteries. <i>Angewandte Chemie</i> , 2019, 131, 8556-8561.	2.0	22
47	Anti-Sandwich Structured Photo-Electronic Wound Dressing for Highly Efficient Bacterial Infection Therapy. <i>Small</i> , 2021, 17, e2101858.	10.0	22
48	A Quinoline-Containing Conjugated Polymer-Based Sensing Platform for Amino Acids. <i>Macromolecules</i> , 2011, 44, 7096-7099.	4.8	20
49	A perylene bisimide derivative with pyrene and cholesterol as modifying structures: synthesis and fluorescence behavior. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 12221-12230.	2.8	20
50	A Modular Approach to Phosphorescent π -Extended Heteroacenes. <i>Inorganic Chemistry</i> , 2019, 58, 13323-13336.	4.0	20
51	Self-Assembly of Macrocyclic Boronic Esters Bearing Tellurophene Moieties and Their Guest-Responsive Phosphorescence. <i>Chemistry - A European Journal</i> , 2019, 25, 8479-8483.	3.3	20
52	A portable fluorescence detector for fast ultra trace detection of explosive vapors. <i>Review of Scientific Instruments</i> , 2011, 82, 103102.	1.3	19
53	Narrow-Bandgap Chalcogenoviologens for Electrochromism and Visible-Light-Driven Hydrogen Evolution. <i>Angewandte Chemie</i> , 2018, 130, 4991-4995.	2.0	19
54	Pyrenoviologen-based fluorescent sensor for detection of picric acid in aqueous solution. <i>Chinese Chemical Letters</i> , 2019, 30, 1984-1988.	9.0	19

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55	Cholesterol modified OPE functionalized film: fabrication, fluorescence behavior and sensing performance. <i>Journal of Materials Chemistry</i> , 2012, 22, 7529.	6.7	18
56	Reunderstanding the Fluorescent Behavior of Four-Coordinate Monoboron Complexes Containing Monoanionic Bidentate Ligands. <i>Journal of Physical Chemistry B</i> , 2017, 121, 6189-6199.	2.6	18
57	AIE-active 9,10-azaboraphenanthrene-containing viologens for reversible electrochromic and electrofluorochromic applications. <i>Materials Chemistry Frontiers</i> , 2021, 5, 4128-4137.	5.9	18
58	Construction of highly antiaromatic boroles. <i>Science Bulletin</i> , 2017, 62, 899-900.	9.0	17
59	Fluorous effect-induced emission of azido substituted poly(vinylidene fluoride) with high photostability and film formation. <i>Polymer Chemistry</i> , 2020, 11, 1307-1313.	3.9	17
60	Preparation and fluorescent sensing applications of novel CdSe@chitosan hybrid films. <i>Applied Surface Science</i> , 2010, 256, 7270-7275.	6.1	15
61	Twisted Biphenyl-Imide Derivatives with Aggregation-Induced Emission and Thermally Activated Delayed Fluorescence for High Performance OLEDs. <i>Advanced Optical Materials</i> , 2021, 9, 2001764.	7.3	15
62	Aerobic Solid State Red Phosphorescence from Benzobismole Monomers and Patternable Self-Assembled Block Copolymers. <i>Angewandte Chemie</i> , 2018, 130, 15057-15062.	2.0	14
63	The Marriage of Carborane with Chalcogen Atoms: Nonconjugation, π - π^* Conjugation, and Intramolecular Charge Transfer. <i>Organic Letters</i> , 2019, 21, 8285-8289.	4.6	14
64	Highly emissive B-N unit containing four-coordinate C,N-Chelated organoboron compound for the detection of fluoride ions. <i>Dyes and Pigments</i> , 2019, 166, 410-415.	3.7	14
65	Poly(NIPAM-co-thienoviologen) for multi-responsive smart windows and thermo-controlled photodynamic antimicrobial therapy. <i>Journal of Materials Chemistry A</i> , 2021, 9, 18369-18376.	10.3	14
66	Modular Synthesis of Diarylalkynes and Their Efficient Conversion into Luminescent Tetraarylbutadienes. <i>Organometallics</i> , 2016, 35, 2232-2241.	2.3	13
67	Tunable ultralong organic phosphorescence modulated by main-group elements with different Lewis acidity and basicity. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14740-14747.	5.5	13
68	Electron-accepting carborane viologen and iron based-supramolecular polymers for electrochromism and enhanced photocatalytic hydrogen evolution. <i>Journal of Materials Chemistry C</i> , 2020, 8, 16326-16332.	5.5	13
69	Fabrication of a Novel Cholic Acid Modified OPE-Based Fluorescent Film and Its Sensing Performances to Inorganic Acids in Acetone. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 6935-6941.	8.0	12
70	Dynamic Covalent Chemistry-based Sensing: Pyrenyl Derivatives of Phenylboronic Acid for Saccharide and Formaldehyde. <i>Scientific Reports</i> , 2016, 6, 31187.	3.3	12
71	Thionated benzo[<i>c</i>]thiophen-1(3 <i>H</i>)-one as an organic cathode with high capacity for sulfur-rich all organic lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2021, 9, 14444-14450.	10.3	12
72	Novel dithienoazaborine viologen derivatives with two different π -conjugated extensions for electrochromic application. <i>Dyes and Pigments</i> , 2021, 196, 109814.	3.7	12

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73	Thienoviologen analytes for aqueous organic redox flow batteries with simultaneously enhanced capacity utilization and capacity retention. <i>Journal of Materials Chemistry A</i> , 2022, 10, 9830-9836.	10.3	12
74	AIE-active polyanetholesulfonic acid sodium salts with room-temperature phosphorescence characteristics for Fe ³⁺ detection. <i>RSC Advances</i> , 2018, 8, 31231-31236.	3.6	11
75	Preparation of monolayer-assembled fluorescent film and its sensing performances to hidden nitroaromatic explosives. <i>Science Bulletin</i> , 2008, 53, 1644-1650.	9.0	10
76	Charge transport, doping and luminescence in solution-processed, phosphorescent, air-stable tellurophene thin films. <i>Organic Electronics</i> , 2016, 39, 153-162.	2.6	10
77	Star-shaped thienoviologens for electrochromism and detection of picric acid in aqueous medium. <i>Dyes and Pigments</i> , 2020, 178, 108338.	3.7	10
78	Dithienoazaborine derivatives with selective π -conjugated extension via late-stage functionalization. <i>Journal of Materials Chemistry C</i> , 2021, 9, 4053-4061.	5.5	10
79	Emissive Metallacycle-Crosslinked Supramolecular Networks with Tunable Crosslinking Densities for Bacterial Imaging and Killing. <i>Angewandte Chemie</i> , 2020, 132, 15311-15315.	2.0	10
80	A novel triphenylacrylonitrile based AIEgen for high contrast mechanchromism and bicolor electroluminescence. <i>RSC Advances</i> , 2018, 8, 710-716.	3.6	9
81	Sensing Performances of Oligosilane Functionalized Fluorescent Film to Nitrobenzene in Aqueous Solution. <i>Sensor Letters</i> , 2009, 7, 1141-1146.	0.4	9
82	Bacteria-Triggered Solar Hydrogen Production via Platinum(II)-Tethered Chalcogenoviologens. <i>Angewandte Chemie - International Edition</i> , 2022, 61, e202115298.	13.8	8
83	Efficient Photoinduced Electron Transfer from Pyrene- <i>o</i> -Carborane Heterojunction to Selenoviologen for Enhanced Photocatalytic Hydrogen Evolution and Reduction of Alkynes. <i>Advanced Science</i> , 2022, 9, 2101652.	11.2	8
84	Biphenyl Diimide Based Novel Blue Emitters with Aggregation-Induced Blue-Shifted Emission Characteristics. <i>ChemPhotoChem</i> , 2020, 4, 59-67.	3.0	7
85	A novel π -conjugated poly(biphenyl diimide) with full utilization of carbonyls as a highly stable organic electrode for Li-ion batteries. <i>RSC Advances</i> , 2020, 10, 31049-31055.	3.6	7
86	A new spirofluorene-based nonplanar PBI-dyad and its utilization in the film-based photo-production of singlet oxygen. <i>Science China Chemistry</i> , 2020, 63, 526-533.	8.2	7
87	Bandgap-Tuning in Triple-Chalcogenophene Polymer Films by Thermal Annealing. <i>Macromolecular Rapid Communications</i> , 2017, 38, 1700065.	3.9	4
88	Synthesis and Gelation Behavior of a Pyrene-Containing Glucose Derivative. <i>Wuli Huaxue Xuebao/ Acta Physico-Chimica Sinica</i> , 2009, 25, 1040-1046.	4.9	4
89	Robust tetrakisarylsilyl substituted spirobifluorene: Synthesis and application as universal host for blue to red electrophosphorescence. <i>Dyes and Pigments</i> , 2021, 194, 109550.	3.7	2
90	Bacteria-Triggered Solar Hydrogen Production via Platinum(II)-Tethered Chalcogenoviologens. <i>Angewandte Chemie</i> , 0, , .	2.0	2

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91	Water-soluble thienoviologen derivatives for imaging bacteria and antimicrobial photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2022, , .	5.8	2