

Zhenghuan Lin

List of Publications by Year in descending order

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64
papers

1,825
citations

201674

27
h-index

289244

40
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64
all docs

64
docs citations

64
times ranked

1914
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Highly efficient room-temperature phosphorescence and afterglow luminescence from common organic fluorophores in 2D hybrid perovskites. <i>Chemical Science</i> , 2018, 9, 8975-8981. | 7.4 | 119 |
| 2 | Light/Force-Sensitive OD Lead-Free Perovskites: From Highly Efficient Blue Afterglow to White Phosphorescence with Near-Unity Quantum Efficiency. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 85 |
| 3 | High Color Rendering Index White-Light Emission from UV-Driven LEDs Based on Single Luminescent Materials: Two-Dimensional Perovskites (C ₆ H ₅ C ₂ H ₄ NH ₃) ₂ PbBr ₄ Cl ₂ . <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 15980-15987. | 8.0 | 75 |
| 4 | Dopant-Free, Donor-Acceptor Type Polymeric Hole-Transporting Materials for the Perovskite Solar Cells with Power Conversion Efficiencies over 20%. <i>Advanced Energy Materials</i> , 2020, 10, 1903146. | 19.5 | 74 |
| 5 | Regulation of clusterization-triggered phosphorescence from a non-conjugated amorphous polymer: a platform for colorful afterglow. <i>Materials Chemistry Frontiers</i> , 2020, 4, 1198-1205. | 5.9 | 68 |
| 6 | A β -shaped donor-acceptor-donor molecule with AIEE and CIEE activity and sequential logic gate behaviour. <i>Journal of Materials Chemistry C</i> , 2015, 3, 7267-7271. | 5.5 | 65 |
| 7 | Diarylmaleic anhydrides: unusual organic luminescence, multi-stimuli response and photochromism. <i>Journal of Materials Chemistry C</i> , 2017, 5, 2135-2141. | 5.5 | 65 |
| 8 | Photo-induced phosphorescence and mechanoluminescence switching in a simple purely organic molecule. <i>Journal of Materials Chemistry C</i> , 2019, 7, 2530-2534. | 5.5 | 63 |
| 9 | Strong CIE activity, multi-stimuli-responsive fluorescence and data storage application of new diphenyl maleimide derivatives. <i>Journal of Materials Chemistry C</i> , 2015, 3, 10242-10248. | 5.5 | 58 |
| 10 | Polymorphism-dependent fluorescence of bisthiénylmaleimide with different responses to mechanical crushing and grinding pressure. <i>CrystEngComm</i> , 2014, 16, 11018-11026. | 2.6 | 52 |
| 11 | Donor-Acceptor Type Polymer Bearing Carbazole Side Chain for Efficient Dopant-Free Perovskite Solar Cells. <i>Advanced Energy Materials</i> , 2022, 12, 2102697. | 19.5 | 51 |
| 12 | White Light-Emitting Devices Based on Star-Shape Polymers with a Bisindolylmaleimide Core. <i>Macromolecules</i> , 2010, 43, 5925-5931. | 4.8 | 48 |
| 13 | Highly Efficient Organic Afterglow from a 2D Layered Lead-Free Metal Halide in Both Crystals and Thin Films under an Air Atmosphere. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 1419-1426. | 8.0 | 48 |
| 14 | Nondoped Pure-Blue OLEDs Based on Amorphous Phenylenevinylene-Functionalized Twisted Bimesitylenes. <i>Journal of Organic Chemistry</i> , 2010, 75, 2599-2609. | 3.2 | 45 |
| 15 | Tuning Organic Room-Temperature Phosphorescence through the Confinement Effect of Inorganic Micro/Nanostructures. <i>Small Structures</i> , 2021, 2, 2100044. | 12.0 | 43 |
| 16 | A facile one-pot synthesis of hyper-branched carbazole-based polymer as a hole-transporting material for perovskite solar cells. <i>Journal of Materials Chemistry A</i> , 2017, 5, 6613-6621. | 10.3 | 42 |
| 17 | Ultrastable and colorful afterglow from organic luminophores in amorphous nanocomposites: advanced anti-counterfeiting and in vivo imaging application. <i>Nano Research</i> , 2020, 13, 1035-1043. | 10.4 | 42 |
| 18 | Large Changes in Fluorescent Color and Intensity of Symmetrically Substituted Arylmaleimides Caused by Subtle Structure Modifications. <i>Chemistry - A European Journal</i> , 2018, 24, 322-326. | 3.3 | 41 |

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|----|--|------|-----------|
| 19 | Nearly Unity Quantum Yield Persistent Room-Temperature Phosphorescence from Heavy Atom-Free Rigid Inorganic/Organic Hybrid Frameworks. <i>Angewandte Chemie - International Edition</i> , 2022, 61, . | 13.8 | 41 |
| 20 | Highly efficient solid-state emission of diphenylfumaronitriles with full-color AIE, and application in explosive sensing, data storage and WLEDs. <i>Dyes and Pigments</i> , 2020, 172, 107829. | 3.7 | 35 |
| 21 | Carbazole-based diphenyl maleimides: Multi-functional smart fluorescent materials for data process and sensing for pressure, explosive and pH. <i>Dyes and Pigments</i> , 2016, 133, 345-353. | 3.7 | 34 |
| 22 | Amide-based diarylmaleimide derivatives and polymers: Highly selective and ratiometric fluorescence sensing for anions. <i>Dyes and Pigments</i> , 2015, 113, 129-137. | 3.7 | 32 |
| 23 | Multimode stimuli responsive dual-state organic room temperature phosphorescence from a phenanthrene derivative. <i>Chemical Engineering Journal</i> , 2022, 444, 136629. | 12.7 | 32 |
| 24 | Synthesis, photophysics, and photovoltaic properties of low-band gap conjugated polymers based on thieno[3,4-c]pyrrole-4,6-dione: a combined experimental and computational study. <i>RSC Advances</i> , 2012, 2, 642-651. | 3.6 | 31 |
| 25 | Perylene Diimide-Based Electron-Transporting Material for Perovskite Solar Cells with Undoped Poly(3-hexylthiophene) as Hole-Transporting Material. <i>ChemSusChem</i> , 2019, 12, 1155-1161. | 6.8 | 31 |
| 26 | Multicolor Output from 2D Hybrid Perovskites with Wide Band Gap: Highly Efficient White Emission, Dual-Color Afterglow, and Switch between Fluorescence and Phosphorescence. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 1040-1045. | 4.6 | 31 |
| 27 | Bifunctional maleimide dyes as selective anion sensors. <i>Tetrahedron</i> , 2009, 65, 5216-5221. | 1.9 | 29 |
| 28 | A metal-free 2D layered organic ammonium halide framework realizing full-color persistent room-temperature phosphorescence. <i>Chemical Science</i> , 2021, 12, 14451-14458. | 7.4 | 29 |
| 29 | Twisted bimesitylene-based oxadiazoles as novel host materials for phosphorescent OLEDs. <i>Tetrahedron</i> , 2012, 68, 7502-7508. | 1.9 | 27 |
| 30 | Asymmetric indolylmaleimides as non-dopant type red color emitting dyes. <i>Organic Electronics</i> , 2010, 11, 604-612. | 2.6 | 23 |
| 31 | Low Band Gap Star-Shaped Molecules Based on Benzothia(oxa)diazole for Organic Photovoltaics. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15097-15108. | 3.1 | 22 |
| 32 | Synthesis of macroreticular p-(α -sulfonic-perfluoroalkylated)polystyrene ion-exchange resin and its application as solid acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2006, 247, 19-26. | 4.8 | 21 |
| 33 | White light-emitting devices with a single emitting layer based on bisindolylmaleimide fluorophores. <i>Journal of Materials Chemistry</i> , 2009, 19, 5141. | 6.7 | 21 |
| 34 | White light-emitting devices based on star-shape like polymers with diarylmaleimide fluorophores on the side chain of polyfluorene arms. <i>Organic Electronics</i> , 2016, 31, 183-190. | 2.6 | 21 |
| 35 | Space conjugation induced white light and room-temperature phosphorescence from simple organic small molecules: single-component WLED driven by both UV and blue chips. <i>Materials Chemistry Frontiers</i> , 2021, 5, 6960-6968. | 5.9 | 20 |
| 36 | Poly(ethylene glycol)- and glucopyranoside-substituted N-heterocyclic carbene precursors for the synthesis of arylfluorene derivatives using efficient palladium-catalyzed aqueous Suzuki reaction. <i>Applied Organometallic Chemistry</i> , 2016, 30, 924-931. | 3.5 | 18 |

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|----|--|------|-----------|
| 37 | Highly reproducible and photocurrent hysteresis-less planar perovskite solar cells with a modified solvent annealing method. <i>Solar Energy</i> , 2016, 136, 210-216. | 6.1 | 16 |
| 38 | Diarylmaleimide fluorophores: intensely emissive low-band-gap guest for single white polymers with highly efficient electroluminescence. <i>Journal of Materials Chemistry C</i> , 2016, 4, 9804-9812. | 5.5 | 15 |
| 39 | Solvent-dependent and highly selective anion sensing and molecular logic application of bisindolylmaleimide derivatives. <i>RSC Advances</i> , 2017, 7, 12161-12169. | 3.6 | 15 |
| 40 | Donor-Acceptor Type Polymers Containing Fused-Ring Units as Dopant-Free, Hole-Transporting Materials for High-Performance Perovskite Solar Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 12475-12483. | 5.1 | 15 |
| 41 | Light/Force-Sensitive OD Lead-Free Perovskites: From Highly Efficient Blue Afterglow to White Phosphorescence with Near-Unity Quantum Efficiency. <i>Angewandte Chemie</i> , 2022, 134, . | 2.0 | 15 |
| 42 | Greatness in Simplicity: Efficient Red Room-Temperature Phosphorescence from Simple Halogenated Maleimides with a 2D Layered Structure. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14703-14711. | 8.0 | 15 |
| 43 | White-light hydrotalcite-like compound emission from the incorporation of red-, green-, and blue-emitting metal complexes. <i>Optical Materials Express</i> , 2013, 3, 105. | 3.0 | 13 |
| 44 | Diarylmaleimide-based branched oligomers: strong full-color emission in both solution and solid films. <i>Organic and Biomolecular Chemistry</i> , 2018, 16, 130-139. | 2.8 | 13 |
| 45 | A new type of hybridized macroreticular catalyst: Polystyrene with both perfluoroalkanesulfonic and sulfonic functional groups. <i>Catalysis Communications</i> , 2007, 8, 31-35. | 3.3 | 12 |
| 46 | Cluster-luminescent polysiloxane nanomaterials: adjustable full-color ultralong room temperature phosphorescence and a highly sensitive response to silver ions. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 3619-3626. | 6.0 | 12 |
| 47 | Macroreticular p-(β -sulfonic-perfluoroalkylated) polystyrene ion-exchange resins: a new type of selective solid acid catalyst. <i>Chemical Communications</i> , 2005, , 3556. | 4.1 | 11 |
| 48 | Highly-efficient and stable warm white emission from perovskite/silica composites with photoactivated luminescence enhancement. <i>Journal of Materials Chemistry C</i> , 2020, 8, 12623-12631. | 5.5 | 10 |
| 49 | Highly emissive fused diarylmaleimides synthesized by a cascade reaction of selective bromination and visible-light-driven cyclization. <i>Dyes and Pigments</i> , 2021, 187, 109113. | 3.7 | 10 |
| 50 | Highly efficient white electroluminescence from dual-core star-shaped single polymer: performance improved by changing the non-emissive core. <i>Journal of Materials Chemistry C</i> , 2018, 6, 4318-4324. | 5.5 | 8 |
| 51 | Metal ion-induced coordination and cyclization of crown ether-based bisindolylmaleimides: different fluorescence responses and applications in complex logical operations. <i>Journal of Materials Chemistry C</i> , 2019, 7, 13904-13911. | 5.5 | 8 |
| 52 | Luminescent drug-containing hydrotalcite-like compound as a drug carrier. <i>Chemical Engineering Journal</i> , 2012, 185-186, 358-365. | 12.7 | 7 |
| 53 | Dual-core star-shaped single white polymers: the effect of host structure on luminescence properties. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 12642-12646. | 2.8 | 7 |
| 54 | Single white polymers based on simple diarylmaleimides: Polymeric structure and electroluminescent properties. <i>Synthetic Metals</i> , 2017, 230, 18-26. | 3.9 | 7 |

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|----|--|-----|-----------|
| 55 | Dynamic dual spectral response on different cations by regulating PET and LMCT process of a simple luminescent sensor. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2020, 401, 112775. | 3.9 | 7 |
| 56 | Highly efficient white emission from UV-driven hybrid LEDs through down-conversion of arylmaleimide-based branched polymers. <i>Journal of Luminescence</i> , 2021, 230, 117742. | 3.1 | 7 |
| 57 | Dithienylmaleimide-based D-A Conjugated Polymer Film: Photo-Responsive Behavior and Application in Electrical Memory and Logic Gates. <i>Chinese Journal of Polymer Science (English Edition)</i> , 2021, 39, 1177-1184. | 3.8 | 6 |
| 58 | γ-Sulfonic-perfluoroalkylated poly(styrene-co-maleic anhydride)/silica hybridized nanocomposite as a new kind of solid acid catalyst. <i>Journal of Molecular Catalysis A</i> , 2012, 365, 73-79. | 4.8 | 5 |
| 59 | Synthesis and characterization of fluorinated ionomer p-perfluoro-[1-(2-sulfonic)ethoxy]ethylated polyacrylonitrile-styrene. <i>Journal of Fluorine Chemistry</i> , 2006, 127, 1036-1041. | 1.7 | 4 |
| 60 | Catalysis Studies of Macroreticular Polystyrene Cation-Exchange Resin with Terminal Perfluoroalkanesulfonic Acids. <i>Journal of the Chinese Chemical Society</i> , 2013, 60, 261-266. | 1.4 | 3 |
| 61 | "Magic blue" subtle reagent for EPR studies on H-abstraction from various substrates. <i>Magnetic Resonance in Chemistry</i> , 2006, 44, 515-520. | 1.9 | 1 |
| 62 | A new kind of porous hybridized nanocomposite: γ-sulfonic-perfluoroalkylated polyalkoxysilane/silica. <i>Journal of Porous Materials</i> , 2013, 20, 851-858. | 2.6 | 1 |
| 63 | EPR studies on H-abstractions/spin-trapping reactions of new 'magic blue' reagents with alcohols. <i>Research on Chemical Intermediates</i> , 2005, 31, 867-873. | 2.7 | 0 |
| 64 | Nearly Unity Quantum Yield Persistent Room Temperature Phosphorescence from Heavy Atom-Free Rigid Inorganic/Organic Hybrid Frameworks. <i>Angewandte Chemie</i> , 0, , . | 2.0 | 0 |