

Bin Zhang

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

95
papers

3,453
citations

30
h-index

56
g-index

97
ext. papers

3,897
ext. citations

7.7
avg, IF

5.34
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 95 | Donor-acceptor-type poly[chalcogenoviologen--triphenylamine] for synaptic biomimicking and neuromorphic computing.. <i>IScience</i> , 2022 , 25, 103640 | 6.1 | 0 |
| 94 | Cyanospirobifluorene-based conjugated polyelectrolytes: Synthesis and tunable nonvolatile information storage performance. <i>European Polymer Journal</i> , 2022 , 163, 110940 | 5.2 | 0 |
| 93 | Polyfluorene-based conjugated polyelectrolyte containing metalloporphyrin for biomimetic memristive devices. <i>Organic Electronics</i> , 2022 , 102, 106447 | 3.5 | 1 |
| 92 | Photoelectric Dual Response Nonvolatile Memory Device Based on Black Phosphorus Quantum Dots and Fullerene Derivative Composite. <i>Advanced Electronic Materials</i> , 2022 , 8, 2101143 | 6.4 | |
| 91 | MoS2 nanosheets functionalized with ferrocene-containing polymer via SI-ATRP for memristive devices with multilevel resistive switching. <i>European Polymer Journal</i> , 2022 , 111316 | 5.2 | 1 |
| 90 | Intramolecular rotation induced High-Temperature Self-Optimization for polymer memristor devices. <i>European Polymer Journal</i> , 2021 , 161, 110814 | 5.2 | 1 |
| 89 | 90% yield production of polymer nano-memristor for in-memory computing. <i>Nature Communications</i> , 2021 , 12, 1984 | 17.4 | 22 |
| 88 | Ether-linked porphyrin covalent organic framework with broadband optical switch. <i>IScience</i> , 2021 , 24, 102526 | 6.1 | 4 |
| 87 | Conjugated polymer covalently modified multi-walled carbon nanotubes for flexible nonvolatile RRAM devices. <i>European Polymer Journal</i> , 2021 , 142, 110153 | 5.2 | 4 |
| 86 | Optoelectrical Switching of Nonfullerene Acceptor Y6 and BPQD-Based Bulk Heterojunction Memory Device through Photoelectric Effect. <i>Advanced Electronic Materials</i> , 2021 , 7, 2001191 | 6.4 | 4 |
| 85 | Progress in the therapeutic applications of polymer-decorated black phosphorus and black phosphorus analog nanomaterials in biomedicine. <i>Journal of Materials Chemistry B</i> , 2020 , 8, 7076-7120 | 7.3 | 25 |
| 84 | Magnetic Janus nanocomposites with iridium(iii) complexes for heterogeneous catalysis of logic controlled RAFT polymerization using multiplexed external switching. <i>Nanoscale</i> , 2020 , 12, 7595-7603 | 7.7 | 15 |
| 83 | Organic and hybrid photoelectroactive polymer for memories and neuromorphic computing 2020 , 223-250 | | 1 |
| 82 | Xanthene Dye-Functionalized Conjugated Porous Polymers as Robust and Reusable Photocatalysts for Controlled Radical Polymerization. <i>Macromolecules</i> , 2020 , 53, 1550-1556 | 5.5 | 29 |
| 81 | Two-dimensional nanomaterials and their derivatives for laser protection. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 184201 | 0.6 | 1 |
| 80 | In Situ Preparation and Unique Electrical Behaviors of Gold@Hollow Polyaniline Nanospheres through Recovery of Gold from Simulated e-Waste. <i>Bulletin of the Chemical Society of Japan</i> , 2020 , 93, 373-378 | 5.1 | 2 |
| 79 | Solution-processable black phosphorus nanosheets covalently modified with polyacrylonitrile for nonvolatile resistive random access memory. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 1231-1238 | 7.1 | 10 |

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| 78 | Perfluorinated gallium phthalocyanine axially grafted black phosphorus nanosheets for optical limiting. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10197-10203 | 7.1 | 11 |
| 77 | Fabrication and nonlinear optical characterization of fluorinated zinc phthalocyanine covalently modified black phosphorus/PMMA films using the nanosecond Z-scan technique. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 10789-10794 | 7.1 | 22 |
| 76 | Direct covalent modification of black phosphorus quantum dots with conjugated polymers for information storage. <i>Nanoscale</i> , 2019 , 11, 3527-3533 | 7.7 | 33 |
| 75 | Precision construction of high-efficiency heterojunction polymer memory devices via electrochemical polymerization. <i>Organic Electronics</i> , 2019 , 69, 153-159 | 3.5 | 4 |
| 74 | Viologen-inspired functional materials: synthetic strategies and applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23337-23360 | 13 | 87 |
| 73 | Enhanced Antifouling and Anticorrosion Properties of Stainless Steel by Biomimetic Anchoring PEGDMA-Cross-Linking Polycationic Brushes. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 7107-7119 | 3.9 | 11 |
| 72 | Redox gated polymer memristive processing memory unit. <i>Nature Communications</i> , 2019 , 10, 736 | 17.4 | 55 |
| 71 | Donor-acceptor type black phosphorus nanosheets covalently functionalized with a conjugated polymer for laser protection. <i>Polymer Chemistry</i> , 2019 , 10, 6003-6009 | 4.9 | 11 |
| 70 | Enabling superior stretchable resistive switching memory via polymer-functionalized graphene oxide nanosheets. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 14664-14671 | 7.1 | 11 |
| 69 | MoS quantum dots chemically modified with porphyrin for solid-state broadband optical limiters. <i>Nanoscale</i> , 2019 , 11, 20449-20455 | 7.7 | 16 |
| 68 | Recent Progress in Two-Dimensional Nanomaterials for Laser Protection. <i>Chemistry</i> , 2019 , 1, 17-43 | 2.1 | 14 |
| 67 | In-situ growing D-A polymer from the surface of reduced graphene oxide: Synthesis and nonvolatile ternary memory effect. <i>Carbon</i> , 2019 , 143, 851-858 | 10.4 | 10 |
| 66 | Organophosphorus-based polymer covalently functionalized reduced graphene oxide: In-situ synthesis and nonvolatile memory effect. <i>Carbon</i> , 2019 , 141, 758-767 | 10.4 | 16 |
| 65 | Covalent Functionalization of Black Phosphorus with Conjugated Polymer for Information Storage. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4543-4548 | 16.4 | 99 |
| 64 | Viologen-Hypercrosslinked Ionic Porous Polymer Films as Active Layers for Electronic and Energy Storage Devices. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701679 | 4.6 | 15 |
| 63 | Macrocyclic triphenylamine-based push-pull type polymer memristive material: synthesis and characterization. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4023-4029 | 7.1 | 15 |
| 62 | Covalent Functionalization of Black Phosphorus with Conjugated Polymer for Information Storage. <i>Angewandte Chemie</i> , 2018 , 130, 4633-4638 | 3.6 | 11 |
| 61 | Covalent Modification of Graphene Oxide with Poly(N-vinylcarbazole) Containing Pendant Azobenzene Chromophores for Nonvolatile Ternary memories. <i>Carbon</i> , 2018 , 134, 500-506 | 10.4 | 25 |

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| 60 | Pyrolytically Modified Polyacrylonitrile-Covalently Grafted MoS ₂ Nanosheets for a Nonvolatile Rewritable Memory Device. <i>Advanced Electronic Materials</i> , 2018 , 4, 1700397 | 6.4 | 20 |
| 59 | Recent Advances in RAFT Polymerization: Novel Initiation Mechanisms and Optoelectronic Applications. <i>Polymers</i> , 2018 , 10, | 4.5 | 58 |
| 58 | Donor-acceptor type helical polyisocyanide bearing carbazole as the pendant groups for nonvolatile memory effect. <i>European Polymer Journal</i> , 2018 , 106, 196-201 | 5.2 | 5 |
| 57 | Metalloporphyrin-bound Janus nanocomposites with dual stimuli responsiveness for nanocatalysis in living radical polymerization. <i>Nanoscale</i> , 2018 , 10, 19254-19261 | 7.7 | 26 |
| 56 | Recent Advances in Resistive Switching Materials and Devices: From Memories to Memristors. <i>Engineered Science</i> , 2018 , | 3.8 | 7 |
| 55 | Viologen-bridged polyaniline based multifunctional heterofilms for all-solid-state supercapacitors and memory devices. <i>European Polymer Journal</i> , 2018 , 98, 125-136 | 5.2 | 17 |
| 54 | An Environmentally Benign and pH-Sensitive Photocatalyst with Surface-Bound Metalloporphyrin for Heterogeneous Catalysis of Controlled Radical Polymerization. <i>Macromolecules</i> , 2018 , 51, 7974-7982 | 5.5 | 30 |
| 53 | Azulene-bridged coordinated framework based quasi-molecular rectifier. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2223-2229 | 7.1 | 11 |
| 52 | Solution-processable poly(N-vinylcarbazole)-covalently grafted MoS nanosheets for nonvolatile rewritable memory devices. <i>Nanoscale</i> , 2017 , 9, 2449-2456 | 7.7 | 34 |
| 51 | BODIPY-based conjugated polymer covalently grafted reduced graphene oxide for flexible nonvolatile memory devices. <i>Carbon</i> , 2017 , 116, 713-721 | 10.4 | 23 |
| 50 | Indacenodithiophene: a promising building block for high performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10798-10814 | 13 | 73 |
| 49 | A donor-acceptor structured conjugated copolymer for flexible memory device. <i>Organic Electronics</i> , 2017 , 49, 269-277 | 3.5 | 7 |
| 48 | Viologen-based conjugated ionic polymer for nonvolatile rewritable memory device. <i>European Polymer Journal</i> , 2017 , 94, 222-229 | 5.2 | 11 |
| 47 | Conjugated polymer covalently modified graphene oxide quantum dots for ternary electronic memory devices. <i>Nanoscale</i> , 2017 , 9, 10610-10618 | 7.7 | 45 |
| 46 | Graphene and its derivatives for laser protection. <i>Progress in Materials Science</i> , 2016 , 84, 118-157 | 42.2 | 85 |
| 45 | Tannic acid anchored layer-by-layer covalent deposition of parasin I peptide for antifouling and antimicrobial coatings. <i>RSC Advances</i> , 2016 , 6, 14809-14818 | 3.7 | 44 |
| 44 | High-efficiency bulk heterojunction memory devices fabricated using organometallic halide perovskite:poly(N-vinylcarbazole) blend active layers. <i>Dalton Transactions</i> , 2016 , 45, 484-8 | 4.3 | 28 |
| 43 | Covalent Modification of MoS ₂ with Poly(N-vinylcarbazole) for Solid-State Broadband Optical Limiters. <i>Chemistry - A European Journal</i> , 2016 , 22, 4500-7 | 4.8 | 27 |

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| 42 | In Situ Synthesis and Characterization of Poly(aryleneethynylene)-Grafted Reduced Graphene Oxide. <i>Chemistry - A European Journal</i> , 2016 , 22, 2247-52 | 4.8 | 11 |
| 41 | Synthesis and tunable electrical behavior of polyfluorene functionalized with triphenylamine and (3-methyl-1-imidazolium-yl)hexyl side chains. <i>RSC Advances</i> , 2016 , 6, 51732-51737 | 3.7 | 5 |
| 40 | Synthesis and nonvolatile memristive switching effect of a donor-acceptor structured oligomer. <i>Journal of Materials Chemistry C</i> , 2015 , 3, 664-673 | 7.1 | 26 |
| 39 | PEGylated Fluorescent Nanoparticles from One-Pot Atom Transfer Radical Polymerization and Click Chemistry <i>Polymers</i> , 2015 , 7, 2119-2130 | 4.5 | 4 |
| 38 | Synthesis and photovoltaic properties of conjugated copolymers containing cyclopentadithiophene and two different electron-deficient moieties in the polymer backbone. <i>Journal of Polymer Research</i> , 2015 , 22, 1 | 2.7 | 4 |
| 37 | Covalent modification of graphene oxide with carbazole groups for laser protection. <i>Chemistry - A European Journal</i> , 2015 , 21, 4622-7 | 4.8 | 16 |
| 36 | Preparation and unique electrical behaviors of monodispersed hybrid nanorattles of metal nanocores with hairy electroactive polymer shells. <i>Chemistry - A European Journal</i> , 2014 , 20, 2723-31 | 4.8 | 12 |
| 35 | Yolk-shell nanorattles encapsulating a movable Au nanocore in electroactive polyaniline shells for flexible memory device. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 5189 | 7.1 | 23 |
| 34 | Hyperbranched polycaprolactone-click-poly(N-vinylcaprolactam) amphiphilic copolymers and their applications as temperature-responsive membranes. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 814-825 | 7.3 | 29 |
| 33 | Dithienopyrrole-/Benzodithiophene-Based Donor-Acceptor Polymers for Memristor. <i>ChemPlusChem</i> , 2014 , 79, 1263-1270 | 2.8 | 26 |
| 32 | Self-Assembled Superhelical Structure of Poly(N-vinylcarbazole)-Based Donor-Acceptor Polymer at the Air-Water Interface. <i>Macromolecules</i> , 2014 , 47, 373-378 | 5.5 | 7 |
| 31 | Multifunctional polymer-metal nanocomposites via direct chemical reduction by conjugated polymers. <i>Chemical Society Reviews</i> , 2014 , 43, 1349-60 | 58.5 | 159 |
| 30 | Resistance-Switchable Graphene Oxide-Polymer Nanocomposites for Molecular Electronics. <i>ChemElectroChem</i> , 2014 , 1, 514-519 | 4.3 | 19 |
| 29 | CO ₂ -triggered fluorescence turn-on response of perylene diimide-containing poly(N,N-dimethylaminoethyl methacrylate). <i>Journal of Materials Chemistry A</i> , 2013 , 1, 1207-1212 | 13 | 42 |
| 28 | In situ synthesis and nonvolatile rewritable-memory effect of polyaniline-functionalized graphene oxide. <i>Chemistry - A European Journal</i> , 2013 , 19, 6265-73 | 4.8 | 49 |
| 27 | Reactive graphene oxide nanosheets: a versatile platform for the fabrication of graphene oxide-biomolecule/polymer nanohybrids. <i>Macromolecular Rapid Communications</i> , 2013 , 34, 234-8 | 4.8 | 22 |
| 26 | Synthesis and memory performance of a conjugated polymer with an integrated fluorene, carbazole and oxadiazole backbone. <i>Polymer Journal</i> , 2012 , 44, 257-263 | 2.7 | 9 |
| 25 | Fluorescent nanoparticles from self-assembly of β -cyclodextrin-functionalized fluorene copolymers for organic molecule sensing and cell labeling. <i>Polymer Chemistry</i> , 2012 , 3, 2444 | 4.9 | 20 |

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|----|---|------|-----|
| 24 | PushPull archetype of reduced graphene oxide functionalized with polyfluorene for nonvolatile rewritable memory. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 378-387 | 2.5 | 67 |
| 23 | Soluble reduced graphene oxide functionalized with conjugated polymer for heterojunction solar cells. <i>Journal of Polymer Science Part A</i> , 2012 , 50, 1663-1671 | 2.5 | 17 |
| 22 | Electrical Bistability and WORM Memory Effects in Donor-Acceptor Polymers Based on Poly(N-vinylcarbazole). <i>ChemPlusChem</i> , 2012 , 77, 74-81 | 2.8 | 35 |
| 21 | Graphene and its derivatives: switching ON and OFF. <i>Chemical Society Reviews</i> , 2012 , 41, 4688-707 | 58.5 | 219 |
| 20 | Synthesis and strong optical limiting response of graphite oxide covalently functionalized with gallium phthalocyanine. <i>Nanotechnology</i> , 2011 , 22, 205704 | 3.4 | 32 |
| 19 | Conjugated polymer covalently modified multiwalled carbon nanotubes for optical limiting. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 101-109 | 2.5 | 15 |
| 18 | Growing poly(N-vinylcarbazole) from the surface of graphene oxide via RAFT polymerization. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 2043-2050 | 2.5 | 73 |
| 17 | Nonvolatile rewritable memory effects in graphene oxide functionalized by conjugated polymer containing fluorene and carbazole units. <i>Chemistry - A European Journal</i> , 2011 , 17, 10304-11 | 4.8 | 62 |
| 16 | Conjugated polymer-grafted reduced graphene oxide for nonvolatile rewritable memory. <i>Chemistry - A European Journal</i> , 2011 , 17, 13646-52 | 4.8 | 67 |
| 15 | Electrical conductivity switching and memory effects in poly(N-vinylcarbazole) derivatives with pendant azobenzene chromophores and terminal electron acceptor moieties. <i>Journal of Materials Chemistry</i> , 2011 , 21, 6027 | | 77 |
| 14 | Graphene oxide covalently functionalized with zinc phthalocyanine for broadband optical limiting. <i>Carbon</i> , 2011 , 49, 1900-1905 | 10.4 | 231 |
| 13 | Functionalization of reduced graphene oxide nanosheets via stacking interactions with the fluorescent and water-soluble perylene bisimide-containing polymers. <i>Polymer</i> , 2011 , 52, 2376-2383 | 3.9 | 77 |
| 12 | A highly soluble polyhedral oligomeric silsesquioxane end-capped perylenediimide dye. <i>New Journal of Chemistry</i> , 2010 , 34, 1120 | 3.6 | 16 |
| 11 | Polyfluorene-Based PushPull Type Functional Materials for Write-Once-Read-Many-Times Memory Devices. <i>Chemistry of Materials</i> , 2010 , 22, 4455-4461 | 9.6 | 87 |
| 10 | Preparation and Memory Performance of a Nanoaggregated Dispersed Red 1-Functionalized Poly (N-vinylcarbazole) Film via Solution-Phase Self-Assembly. <i>Advanced Functional Materials</i> , 2010 , 20, 2916-2922 | 15.6 | 102 |
| 9 | Conjugated-polymer-functionalized graphene oxide: synthesis and nonvolatile rewritable memory effect. <i>Advanced Materials</i> , 2010 , 22, 1731-5 | 24 | 359 |
| 8 | Triphenylamine and quinoline-containing polyfluorene for blue light-emitting diodes. <i>European Polymer Journal</i> , 2010 , 46, 997-1003 | 5.2 | 32 |
| 7 | Multi-walled carbon nanotubes covalently functionalized with polyhedral oligomeric silsesquioxanes for optical limiting. <i>Carbon</i> , 2010 , 48, 1738-1742 | 10.4 | 45 |

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| 6 | Poly(N-vinylcarbazole) chemically modified graphene oxide. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2642-2649 | 2.5 | 83 |
| 5 | Multiwalled carbon nanotubes covalently functionalized with poly(N-vinylcarbazole) via RAFT polymerization: Synthesis and nonlinear optical properties. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 3161-3168 | 2.5 | 23 |
| 4 | Bistable electrical switching and electronic memory effect in a solution-processable graphene oxide-donor polymer complex. <i>Applied Physics Letters</i> , 2009 , 95, 253301 | 3.4 | 106 |
| 3 | Proton-responsive azulene-based conjugated polymer with nonvolatile memory effects. <i>New Journal of Chemistry</i> , | 3.6 | 2 |
| 2 | MoS ₂ nanosheets chemically modified with metal phthalocyanine via mussel-inspired chemistry for multifunctional memristive devices. <i>Journal of Materials Chemistry C</i> , | 7.1 | 5 |
| 1 | Improving the Long-Term Stability of BPQD-Based Memory Device via Modification with Polyvinylpyrrolidone-Grafted Polydopamine. <i>Advanced Electronic Materials</i> , 2101057 | 6.4 | 1 |