

Bin Zhang

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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	Conjugated-polymer-functionalized graphene oxide: synthesis and nonvolatile rewritable memory effect. <i>Advanced Materials</i> , 2010 , 22, 1731-5	24	359
94	Graphene oxide covalently functionalized with zinc phthalocyanine for broadband optical limiting. <i>Carbon</i> , 2011 , 49, 1900-1905	10.4	231
93	Graphene and its derivatives: switching ON and OFF. <i>Chemical Society Reviews</i> , 2012 , 41, 4688-707	58.5	219
92	Multifunctional polymer-metal nanocomposites via direct chemical reduction by conjugated polymers. <i>Chemical Society Reviews</i> , 2014 , 43, 1349-60	58.5	159
91	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
90	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
89	Covalent Functionalization of Black Phosphorus with Conjugated Polymer for Information Storage. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 4543-4548	16.4	99
88	Viologen-inspired functional materials: synthetic strategies and applications. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 23337-23360	13	87
87	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
86	Graphene and its derivatives for laser protection. <i>Progress in Materials Science</i> , 2016 , 84, 118-157	42.2	85
85	Poly(N-vinylcarbazole) chemically modified graphene oxide. <i>Journal of Polymer Science Part A</i> , 2010 , 48, 2642-2649	2.5	83
84	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
83	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
82	Indacenodithiophene: a promising building block for high performance polymer solar cells. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 10798-10814	13	73
81	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
80	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
79	Conjugated polymer-grafted reduced graphene oxide for nonvolatile rewritable memory. <i>Chemistry - A European Journal</i> , 2011 , 17, 13646-52	4.8	67

78	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
77	Recent Advances in RAFT Polymerization: Novel Initiation Mechanisms and Optoelectronic Applications. <i>Polymers</i> , 2018 , 10,	4.5	58
76	Redox gated polymer memristive processing memory unit. <i>Nature Communications</i> , 2019 , 10, 736	17.4	55
75	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
74	Conjugated polymer covalently modified graphene oxide quantum dots for ternary electronic memory devices. <i>Nanoscale</i> , 2017 , 9, 10610-10618	7.7	45
73	Multi-walled carbon nanotubes covalently functionalized with polyhedral oligomeric silsesquioxanes for optical limiting. <i>Carbon</i> , 2010 , 48, 1738-1742	10.4	45
72	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
71	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
70	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
69	Solution-processable poly(N-vinylcarbazole)-covalently grafted MoS nanosheets for nonvolatile rewritable memory devices. <i>Nanoscale</i> , 2017 , 9, 2449-2456	7.7	34
68	Direct covalent modification of black phosphorus quantum dots with conjugated polymers for information storage. <i>Nanoscale</i> , 2019 , 11, 3527-3533	7.7	33
67	Synthesis and strong optical limiting response of graphite oxide covalently functionalized with gallium phthalocyanine. <i>Nanotechnology</i> , 2011 , 22, 205704	3.4	32
66	Triphenylamine and quinoline-containing polyfluorene for blue light-emitting diodes. <i>European Polymer Journal</i> , 2010 , 46, 997-1003	5.2	32
65	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
64	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
63	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
62	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
61	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

60	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
59	Metalloporphyrin-bound Janus nanocomposites with dual stimuli responsiveness for nanocatalysis in living radical polymerization. <i>Nanoscale</i> , 2018 , 10, 19254-19261	7.7	26
58	Dithienopyrrole-/Benzodithiophene-Based Donor-Acceptor Polymers for Memristor. <i>ChemPlusChem</i> , 2014 , 79, 1263-1270	2.8	26
57	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
56	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
55	BODIPY-based conjugated polymer covalently grafted reduced graphene oxide for flexible nonvolatile memory devices. <i>Carbon</i> , 2017 , 116, 713-721	10.4	23
54	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
53	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
52	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
51	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
50	90% yield production of polymer nano-memristor for in-memory computing. <i>Nature Communications</i> , 2021 , 12, 1984	17.4	22
49	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
48	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
47	Resistance-Switchable Graphene Oxide-Polymer Nanocomposites for Molecular Electronics. <i>ChemElectroChem</i> , 2014 , 1, 514-519	4.3	19
46	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
45	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
44	Covalent modification of graphene oxide with carbazole groups for laser protection. <i>Chemistry - A European Journal</i> , 2015 , 21, 4622-7	4.8	16
43	A highly soluble polyhedral oligomeric silsesquioxane end-capped perylene diimide dye. <i>New Journal of Chemistry</i> , 2010 , 34, 1120	3.6	16

42	MoS quantum dots chemically modified with porphyrin for solid-state broadband optical limiters. <i>Nanoscale</i> , 2019 , 11, 20449-20455	7.7	16
41	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
40	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
39	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
38	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
37	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
36	Recent Progress in Two-Dimensional Nanomaterials for Laser Protection. <i>Chemistry</i> , 2019 , 1, 17-43	2.1	14
35	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
34	Azulene-bridged coordinated framework based quasi-molecular rectifier. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 2223-2229	7.1	11
33	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
32	Covalent Functionalization of Black Phosphorus with Conjugated Polymer for Information Storage. <i>Angewandte Chemie</i> , 2018 , 130, 4633-4638	3.6	11
31	Viologen-based conjugated ionic polymer for nonvolatile rewritable memory device. <i>European Polymer Journal</i> , 2017 , 94, 222-229	5.2	11
30	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
29	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
28	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
27	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
26	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
25	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

24	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
23	A donor-acceptor structured conjugated copolymer for flexible memory device. <i>Organic Electronics</i> , 2017 , 49, 269-277	3.5	7
22	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
21	Recent Advances in Resistive Switching Materials and Devices: From Memories to Memristors. <i>Engineered Science</i> , 2018 ,	3.8	7
20	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
19	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
18	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
17	Precision construction of high-efficiency heterojunction polymer memory devices via electrochemical polymerization. <i>Organic Electronics</i> , 2019 , 69, 153-159	3.5	4
16	PEGylated Fluorescent Nanoparticles from One-Pot Atom Transfer Radical Polymerization and Click Chemistry <i>Polymers</i> , 2015 , 7, 2119-2130	4.5	4
15	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
14	Ether-linked porphyrin covalent organic framework with broadband optical switch. <i>IScience</i> , 2021 , 24, 102526	6.1	4
13	Conjugated polymer covalently modified multi-walled carbon nanotubes for flexible nonvolatile RRAM devices. <i>European Polymer Journal</i> , 2021 , 142, 110153	5.2	4
12	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
11	Proton-responsive azulene-based conjugated polymer with nonvolatile memory effects. <i>New Journal of Chemistry</i> ,	3.6	2
10	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
9	Organic and hybrid photoelectroactive polymer for memories and neuromorphic computing 2020 , 223-250		1
8	Polyfluorene-based conjugated polyelectrolyte containing metalloporphyrin for biomimetic memristive devices. <i>Organic Electronics</i> , 2022 , 102, 106447	3.5	1
7	Two-dimensional nanomaterials and their derivatives for laser protection. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 184201	0.6	1

6	Intramolecular rotation induced High-Temperature Self-Optimization for polymer memristor devices. <i>European Polymer Journal</i> , 2021 , 161, 110814	5.2	1
5	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
4	MoS ₂ 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
3	Donor-acceptor-type poly[chalcogenoviologen--triphenylamine] for synaptic biomimicking and neuromorphic computing.. <i>IScience</i> , 2022 , 25, 103640	6.1	0
2	Cyanospirobifluorene-based conjugated polyelectrolytes: Synthesis and tunable nonvolatile information storage performance. <i>European Polymer Journal</i> , 2022 , 163, 110940	5.2	0
1	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	