

Cheng Wang

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108
papers

4,515
citations

35
h-index

65
g-index

115
ext. papers

5,776
ext. citations

7.4
avg, IF

6.05
L-index

#	Paper	IF	Citations
108	A Pyrene-Based, Fluorescent Three-Dimensional Covalent Organic Framework. <i>Journal of the American Chemical Society</i> , 2016 , 138, 3302-5	16.4	448
107	Designed Synthesis of a 2D Porphyrin-Based sp Carbon-Conjugated Covalent Organic Framework for Heterogeneous Photocatalysis. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 6430-6434	16.4	267
106	3D Porphyrin-Based Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2017 , 139, 8705-8709	16.4	246
105	A 2D porous porphyrin-based covalent organic framework for sulfur storage in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 7416-7421	13	205
104	An AI-Egen-based 3D covalent organic framework for white light-emitting diodes. <i>Nature Communications</i> , 2018 , 9, 5234	17.4	182
103	Covalent-organic frameworks: potential host materials for sulfur impregnation in lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2014 , 2, 8854-8858	13	177
102	Mechanized azobenzene-functionalized zirconium metal-organic framework for on-command cargo release. <i>Science Advances</i> , 2016 , 2, e1600480	14.3	150
101	Polymer memristor for information storage and neuromorphic applications. <i>Materials Horizons</i> , 2014 , 1, 489	14.4	146
100	Organic Biomimicking Memristor for Information Storage and Processing Applications. <i>Advanced Electronic Materials</i> , 2016 , 2, 1500298	6.4	130
99	Oriented Covalent Organic Framework Film on Graphene for Robust Ambipolar Vertical Organic Field-Effect Transistor. <i>Chemistry of Materials</i> , 2017 , 29, 4367-4374	9.6	113
98	2D and 3D Porphyrinic Covalent Organic Frameworks: The Influence of Dimensionality on Functionality. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 3624-3629	16.4	102
97	Impregnation of sulfur into a 2D pyrene-based covalent organic framework for high-rate lithium-sulfur batteries. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17186-17191	13	97
96	2D sp Carbon-Conjugated Porphyrin Covalent Organic Framework for Cooperative Photocatalysis with TEMPO. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 9088-9093	16.4	92
95	Tuning the Photoinduced Electron Transfer in a Zr-MOF: Toward Solid-State Fluorescent Molecular Switch and Turn-On Sensor. <i>Advanced Materials</i> , 2018 , 30, e1802329	24	81
94	Fabrication of a graphene/C nanohybrid via β -cyclodextrin host-guest chemistry for photodynamic and photothermal therapy. <i>Nanoscale</i> , 2017 , 9, 8825-8833	7.7	78
93	Rational design of isostructural 2D porphyrin-based covalent organic frameworks for tunable photocatalytic hydrogen evolution. <i>Nature Communications</i> , 2021 , 12, 1354	17.4	78
92	Isostructural Three-Dimensional Covalent Organic Frameworks. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 9770-9775	16.4	72

91	Nanometric Ni ₅ P ₄ Clusters Nested on NiCo ₂ O ₄ for Efficient Hydrogen Production via Alkaline Water Electrolysis. <i>Advanced Energy Materials</i> , 2018 , 8, 1801690	21.8	71
90	Conjugated polymer-grafted reduced graphene oxide for nonvolatile rewritable memory. <i>Chemistry - A European Journal</i> , 2011 , 17, 13646-52	4.8	67
89	Polydimethylsiloxane/covalent triazine frameworks coated stir bar sorptive extraction coupled with high performance liquid chromatography-ultraviolet detection for the determination of phenols in environmental water samples. <i>Journal of Chromatography A</i> , 2016 , 1441, 8-15	4.5	65
88	Reversible Tuning Hydroquinone/Quinone Reaction in Metal-Organic Framework: Immobilized Molecular Switches in Solid State. <i>Chemistry of Materials</i> , 2015 , 27, 6426-6431	9.6	61
87	Magnetic covalent triazine framework for rapid extraction of phthalate esters in plastic packaging materials followed by gas chromatography-flame ionization detection. <i>Journal of Chromatography A</i> , 2017 , 1525, 32-41	4.5	58
86	Fabrication of Highly Photoluminescent TiO ₂ /PPV Hybrid Nanoparticle-Polymer Fibers by Electrospinning. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 205-209	4.8	56
85	Thermally-stable resistive switching with a large ON/OFF ratio achieved in poly(triphenylamine). <i>Chemical Communications</i> , 2014 , 50, 11856-8	5.8	55
84	Side-group chemical gating via reversible optical and electric control in a single molecule transistor. <i>Nature Communications</i> , 2019 , 10, 1450	17.4	53
83	Tailored covalent organic frameworks by post-synthetic modification. <i>Materials Chemistry Frontiers</i> , 2020 , 4, 113-127	7.8	52
82	Three-Dimensional Covalent Organic Frameworks: From Topology Design to Applications. <i>Accounts of Chemical Research</i> , 2020 , 53, 2225-2234	24.3	52
81	Syntheses Study of Keggin POM Supporting MOFs System. <i>Crystal Growth and Design</i> , 2012 , 12, 2242-2250	5.0	51
80	Synthesis of graphene and related two-dimensional materials for bioelectronics devices. <i>Biosensors and Bioelectronics</i> , 2017 , 89, 28-42	11.8	46
79	Postsynthetic Modification of an Alkyne-Tagged Zirconium Metal-Organic Framework via a "Click" Reaction. <i>Inorganic Chemistry</i> , 2015 , 54, 5139-41	5.1	45
78	Twist Building Blocks from Planar to Tetrahedral for the Synthesis of Covalent Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 3718-3723	16.4	44
77	Assembly of the first polyoxometalate-based hybrid with [ring+helix] channels and photocatalytic activity. <i>CrystEngComm</i> , 2013 , 15, 10584	3.3	42
76	Tuning the bandgaps of polyazomethines containing triphenylamine by different linkage sites of dialdehyde monomers. <i>Electrochimica Acta</i> , 2012 , 76, 229-241	6.7	41
75	Structural effect on the resistive switching behavior of triphenylamine-based poly(azomethine)s. <i>Chemical Communications</i> , 2014 , 50, 11496-9	5.8	39
74	An organic terpyridyl-iron polymer based memristor for synaptic plasticity and learning behavior simulation. <i>RSC Advances</i> , 2016 , 6, 25179-25184	3.7	37

73	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
72	A Crystalline Three-Dimensional Covalent Organic Framework with Flexible Building Blocks. <i>Journal of the American Chemical Society</i> , 2021 , 143, 2123-2129	16.4	33
71	A solution-processable polymer-grafted graphene oxide derivative for nonvolatile rewritable memory. <i>Polymer Chemistry</i> , 2014 , 5, 2010-2017	4.9	32
70	Substrate Orientation Effect in the On-Surface Synthesis of Tetrathiafulvalene-Integrated Single-Layer Covalent Organic Frameworks. <i>Langmuir</i> , 2015 , 31, 11755-9	4	31
69	Microfluidic fabrication of magnetic porous multi-walled carbon nanotube beads for oil and organic solvent adsorption. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 10479-10485	13	30
68	POM species, temperature and counterions modulated the various dimensionalities of POM-based metal-organic frameworks. <i>Dalton Transactions</i> , 2016 , 45, 1657-67	4.3	30
67	Syntheses of POM-templated MOFs containing the isomeric pyridyltetrazole. <i>CrystEngComm</i> , 2012 , 14, 5053	3.3	30
66	Postsynthetic Modification of Metal-Organic Frameworks through Click Chemistry. <i>Chinese Journal of Chemistry</i> , 2016 , 34, 186-190	4.9	28
65	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
64	Dithienopyrrole-/Benzodithiophene-Based Donor-Acceptor Polymers for Memristor. <i>ChemPlusChem</i> , 2014 , 79, 1263-1270	2.8	26
63	Microfluidic generation of graphene beads for supercapacitor electrode materials. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 22088-22093	13	25
62	A virus-induced kidney disease model based on organ-on-a-chip: Pathogenesis exploration of virus-related renal dysfunctions. <i>Biomaterials</i> , 2019 , 219, 119367	15.6	25
61	A solar ultraviolet sensor based on fluorescent polyoxometalate and viologen. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 9383-9388	7.1	24
60	Mass Ratio of CdS/Poly(ethylene oxide) Controlled Photoluminescence of One-Dimensional Hybrid Fibers by Electrospinning. <i>Macromolecular Materials and Engineering</i> , 2007 , 292, 949-955	3.9	24
59	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
58	Tuning the Topology of Three-Dimensional Covalent Organic Frameworks via Steric Control: From to Unprecedented. <i>Journal of the American Chemical Society</i> , 2021 , 143, 7279-7284	16.4	23
57	Construction of POMOFs with different degrees of interpenetration and the same topology. <i>CrystEngComm</i> , 2015 , 17, 633-641	3.3	22
56	Engineering a Zirconium MOF through Tandem "Click" Reactions: A General Strategy for Quantitative Loading of Bifunctional Groups on the Pore Surface. <i>Inorganic Chemistry</i> , 2018 , 57, 2288-2295	5.1	22

55	A series of lanthanide(III) complexes constructed from Schiff base and diketonate ligands. <i>CrystEngComm</i> , 2014 , 16, 10460-10468	3.3	22
54	Redox-triggered switching in three-dimensional covalent organic frameworks. <i>Nature Communications</i> , 2020 , 11, 4919	17.4	21
53	Resistance-Switchable Graphene Oxide Polymer Nanocomposites for Molecular Electronics. <i>ChemElectroChem</i> , 2014 , 1, 514-519	4.3	19
52	A 2D porphyrin-based covalent organic framework with TEMPO for cooperative photocatalysis in selective aerobic oxidation of sulfides. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 2255-2260	7.8	19
51	Coral-Inspired Nanoengineering Design for Long-Cycle and Flexible Lithium-Ion Battery Anode. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9185-93	9.5	18
50	Immobilizing Organic-Based Molecular Switches into Metal-Organic Frameworks: A Promising Strategy for Switching in Solid State. <i>Macromolecular Rapid Communications</i> , 2018 , 39, 1700388	4.8	17
49	Synthesis and optical and electrochemical memory properties of fluorene-triphenylamine alternating copolymer. <i>RSC Advances</i> , 2017 , 7, 10323-10332	3.7	15
48	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
47	Fabrication of bilayer tetrathiafulvalene integrated surface covalent organic frameworks. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 17356-9	3.6	15
46	Hydrophilic polymer-stabilized porous composite membrane for water evaporation and solar desalination.. <i>RSC Advances</i> , 2020 , 10, 2507-2512	3.7	14
45	Magnetic porous graphene/multi-walled carbon nanotube beads from microfluidics: a flexible and robust oil/water separation material. <i>RSC Advances</i> , 2017 , 7, 25334-25340	3.7	13
44	Immobilization of AIEgens into metal-organic frameworks: Ligand design, emission behavior, and applications. <i>Journal of Polymer Science Part A</i> , 2017 , 55, 1809-1817	2.5	13
43	Controllable Synthesis of Covalent Porphyrinic Cages with Varying Sizes via Template-Directed Imine Condensation Reactions. <i>Journal of Organic Chemistry</i> , 2015 , 80, 9360-4	4.2	13
42	New perylene polyimides containing p-n diblocks for sensitization in TiO ₂ solar cells. <i>Polymers for Advanced Technologies</i> , 2004 , 15, 701-707	3.2	13
41	High photoconductivity properties of perylene polyimide containing triarylamine unit. <i>Journal of Materials Science</i> , 2004 , 39, 4053-4056	4.3	12
40	Luminescent electrospun composite nanofibers of [Eu(TFI) ₃ (Phen)]/[CHCl ₃ /polyvinylpyrrolidone. <i>Journal of Materials Science</i> , 2013 , 48, 6682-6688	4.3	11
39	Controlling the deposition of light-emitting nanofibers/microfibers by the electrospinning of a poly(p-phenylene vinylene) polyelectrolyte precursor. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 1864-1869	2.9	11
38	Controlled Release of Therapeutic Agents with Near-Infrared Laser for Synergistic Photochemotherapy toward Cervical Cancer. <i>Analytical Chemistry</i> , 2019 , 91, 6555-6560	7.8	10

37	Novel polyimides containing flexible carbazole blocks with electrochromic and electrofluorescence properties.. <i>RSC Advances</i> , 2020 , 10, 6992-7003	3.7	10
36	A pinecone-inspired nanostructure design for long-cycle and high performance Si anodes. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 5395-5401	13	10
35	Tuning of Förster Resonance Energy Transfer in Metal-Organic Frameworks: Toward Amplified Fluorescence Sensing. <i>CCS Chemistry</i> , 2021 , 3, 2054-2062	7.2	10
34	Preparation and multifunction of electrochromic polyamides containing flexible backbone chains with electrochemical, fluorescence and memory properties. <i>Applied Surface Science</i> , 2019 , 478, 906-915	6.7	8
33	Preparation and flash memory performance based on fluorene-triphenylamine copolymer (PFTPA)/MWCNTs. <i>RSC Advances</i> , 2017 , 7, 54431-54440	3.7	8
32	Organic-inorganic hybrid electrochromic materials, polysilsesquioxanes containing triarylamine, changing color from colorless to blue. <i>Scientific Reports</i> , 2017 , 7, 14627	4.9	8
31	Fluorescent poly(p-phenylene vinylene)/poly(ethylene oxide) nanofibers obtained by electrospinning. <i>Journal of Polymer Research</i> , 2011 , 18, 477-482	2.7	8
30	Ternary Memory Devices Based on Bipolar Copolymers with Naphthalene Benzimidazole Acceptors and Fluorene/Carbazole Donors. <i>Macromolecules</i> , 2019 , 52, 9364-9375	5.5	8
29	Bistable electrical switching and nonvolatile memory effect in poly (9,9-dioctylfluorene-2,7-diyl) and multiple-walled carbon nanotubes. <i>Organic Electronics</i> , 2019 , 74, 110-117	3.5	7
28	Binding Quantum Dots to Silk Biomaterials for Optical Sensing. <i>Journal of Sensors</i> , 2015 , 2015, 1-10	2	7
27	Preparation and photoluminescent characterization of poly(phenylene vinylene)/TiO ₂ nanoparticles composite nanofibers by one-step electrospinning. <i>Journal of Applied Polymer Science</i> , 2012 , 126, 1061-1068	2.9	7
26	Electrochromic materials based on novel polymers containing triphenylamine units and benzo[c][1,2,5]thiadiazole units. <i>Synthetic Metals</i> , 2020 , 259, 116235	3.6	7
25	Dynamic monitoring of membrane nanotubes formation induced by vaccinia virus on a high throughput microfluidic chip. <i>Scientific Reports</i> , 2017 , 7, 44835	4.9	6
24	Bistable electrical switching and nonvolatile memory effects by doping different amounts of GO in poly(9,9-dioctylfluorene-2,7-diyl).. <i>RSC Advances</i> , 2018 , 8, 6878-6886	3.7	5
23	Bistable non-volatile resistive memory devices based on ZnO nanoparticles embedded in polyvinylpyrrolidone.. <i>RSC Advances</i> , 2020 , 10, 14662-14669	3.7	5
22	Flash memory devices and bistable nonvolatile resistance switching properties based on PFO doping with ZnO.. <i>RSC Advances</i> , 2019 , 9, 9392-9400	3.7	4
21	Enhanced directional cell migration induced by vaccinia virus on a microfluidic-based multi-shear cell migration assay platform. <i>Integrative Biology (United Kingdom)</i> , 2017 , 9, 903-911	3.7	4
20	Tailoring the Pore Surface of 3D Covalent Organic Frameworks via Post-Synthetic Click Chemistry. <i>Angewandte Chemie - International Edition</i> , 2021 ,	16.4	4

19	Raspberry-like PS/CdTe/Silica Microspheres for Fluorescent Superhydrophobic Materials. <i>Nanoscale Research Letters</i> , 2016 , 11, 114	5	3
18	Supramolecular Assembly through the Highest Connectivity of a Keggin Polyoxometalate. <i>Zeitschrift Fur Naturforschung - Section B Journal of Chemical Sciences</i> , 2010 , 65, 135-139	1	3
17	Nonvolatile bistable memory device based on polyfluorene with Ag NPs doping materials. <i>Organic Electronics</i> , 2020 , 78, 105549	3.5	3
16	Electrocatalysts: Nanometric Ni ₅ P ₄ Clusters Nested on NiCo ₂ O ₄ for Efficient Hydrogen Production via Alkaline Water Electrolysis (Adv. Energy Mater. 29/2018). <i>Advanced Energy Materials</i> , 2018 , 8, 1870129	21.8	3
15	Highly Efficient Quasi-2D Green Perovskite Light-Emitting Diodes with Bifunctional Amino Acid. <i>Advanced Optical Materials</i> , 2200276	8.1	3
14	Multipurpose conjugated block copolymers based on novel triphenylamine derivatives and squaric acid for electrochromic and resistive memory devices. <i>Polymer Testing</i> , 2020 , 81, 106245	4.5	2
13	Optoelectronic/memory storage properties of triphenylamine-based dual-function electrochromic materials. <i>Materials Chemistry and Physics</i> , 2022 , 275, 125196	4.4	2
12	Energy Storage in Covalent Organic Frameworks: From Design Principles to Device Integration. <i>Chemical Research in Chinese Universities</i> , 1	2.2	2
11	Design and Synthesis of p-n Conversion Indium-Oxide-Based Gas Sensor with High Sensitivity to NO _x at Room-Temperature. <i>ChemistrySelect</i> , 2018 , 3, 2298-2305	1.8	1
10	Three-Dimensional Heteropolynuclear Zn ₄ Ln ₂ Coordination Frameworks: Structure and NIR Luminescent Properties. <i>Zeitschrift Fur Anorganische Und Allgemeine Chemie</i> , 2011 , 637, 2223-2227	1.3	1
9	Efficient Suzuki-Miyaura cross-coupling reaction by loading trace Pd nanoparticles onto copper-complex-derived Cu/C-700 solid support. <i>Journal of Colloid and Interface Science</i> , 2021 , 608, 2463-2463	9.3	1
8	Multifunctional Flexible Polyimides for Electroactive Devices with Electrochromic, Electrofluorochromic, and Photodetection Properties. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 1338-1348	4.3	1
7	Dithienopyrrole-/Benzodithiophene-Based Donor-Acceptor Polymers for Memristor. <i>ChemPlusChem</i> , 2014 , 79, 1235-1235	2.8	0
6	Non-volatile ternary memristors based on a polymer containing a carbazole donor with CuO NPs embedded. <i>New Journal of Chemistry</i> , 2022 , 46, 704-713	3.6	0
5	Electrochromic properties of pyrene conductive polymers modified by chemical polymerization.. <i>RSC Advances</i> , 2021 , 11, 39291-39305	3.7	0
4	Realizing the Conversion of Resistive Switching Behavior from Binary to Ternary by Adjusting the Charge Traps in the Polymers. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 2807-2817	4	0
3	Novel carbazole-based donor-isoindolo[2,1-]benzimidazol-11-one acceptor polymers for ternary flash memory and light-emission.. <i>RSC Advances</i> , 2019 , 9, 27665-27673	3.7	
2	Resistance-Switchable Graphene Oxide Polymer Nanocomposites for Molecular Electronics. <i>ChemElectroChem</i> , 2014 , 1, 478-478	4.3	

- 1 Ternary Resistive Switching Memory Behavior of Polycarbazole:TiO₂ Nanoparticles-based Device.
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