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List of Publications by Year in descending order

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79
papers

4,576
citations

185998

28
h-index

102304

66
g-index

84
all docs

84
docs citations

84
times ranked

5873
citing authors

#	ARTICLE	IF	CITATIONS
1	Intrinsically stretchable and healable semiconducting polymer for organic transistors. <i>Nature</i> , 2016, 539, 411-415.	13.7	1,030
2	Highly stretchable polymer semiconductor films through the nanoconfinement effect. <i>Science</i> , 2017, 355, 59-64.	6.0	897
3	A Sensitive and Biodegradable Pressure Sensor Array for Cardiovascular Monitoring. <i>Advanced Materials</i> , 2015, 27, 6954-6961.	11.1	544
4	Effect of Nonconjugated Spacers on Mechanical Properties of Semiconducting Polymers for Stretchable Transistors. <i>Advanced Functional Materials</i> , 2018, 28, 1804222.	7.8	134
5	Topochemical Polymerization of Phenylacetylene Macrocycles: A New Strategy for the Preparation of Organic Nanorods. <i>Journal of the American Chemical Society</i> , 2013, 135, 110-113.	6.6	106
6	Amide-Containing Alkyl Chains in Conjugated Polymers: Effect on Self-Assembly and Electronic Properties. <i>Macromolecules</i> , 2018, 51, 1336-1344.	2.2	91
7	The Critical Role of Electron-Donating Thiophene Groups on the Mechanical and Thermal Properties of Donor-Acceptor Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2019, 5, 1800899.	2.6	89
8	Tacky Elastomers to Enable Tear-Resistant and Autonomous Self-Healing Semiconductor Composites. <i>Advanced Functional Materials</i> , 2020, 30, 2000663.	7.8	85
9	Synthesis and Cytotoxicity of Bidesmosidic Betulin and Betulinic Acid Saponins. <i>Journal of Natural Products</i> , 2009, 72, 72-81.	1.5	80
10	Probing the Viscoelastic Property of Pseudo Free-Standing Conjugated Polymeric Thin Films. <i>Macromolecular Rapid Communications</i> , 2018, 39, e1800092.	2.0	79
11	Preparation of carbon nanomaterials from molecular precursors. <i>Chemical Society Reviews</i> , 2014, 43, 85-98.	18.7	76
12	Stretchable electronics: recent progress in the preparation of stretchable and self-healing semiconducting conjugated polymers. <i>Flexible and Printed Electronics</i> , 2017, 2, 043002.	1.5	65
13	A comparative analysis of capacitive-based flexible PDMS pressure sensors. <i>Sensors and Actuators A: Physical</i> , 2019, 285, 427-436.	2.0	64
14	The biosynthesis of the cannabinoids. <i>Journal of Cannabis Research</i> , 2021, 3, 7.	1.5	60
15	Influence of amide-containing side chains on the mechanical properties of diketopyrrolopyrrole-based polymers. <i>Polymer Chemistry</i> , 2018, 9, 5531-5542.	1.9	56
16	Soluble Conjugated One-Dimensional Nanowires Prepared by Topochemical Polymerization of a Butadiynes-Containing Star-Shaped Molecule in the Xerogel State. <i>Langmuir</i> , 2013, 29, 3446-3452.	1.6	54
17	Recent progress in the stabilization of supramolecular assemblies with functional polydiacetylenes. <i>Polymer Chemistry</i> , 2018, 9, 3019-3028.	1.9	54
18	Toward the Prediction and Control of Glass Transition Temperature for Donor-Acceptor Polymers. <i>Advanced Functional Materials</i> , 2020, 30, 2002221.	7.8	46

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19	Synthesis of two natural betulinic acid saponins containing β -D-glucopyranosyl-(1 \rightarrow 2)- β -D-arabinopyranose and their analogues. <i>Tetrahedron</i> , 2008, 64, 7386-7399.	1.0	45
20	Imine and metal-ligand dynamic bonds in soft polymers for autonomous self-healing capacitive-based pressure sensors. <i>Soft Matter</i> , 2019, 15, 7654-7662.	1.2	44
21	Recent Advances in Mechanically Robust and Stretchable Bulk Heterojunction Polymer Solar Cells. <i>Chemical Record</i> , 2019, 19, 1008-1027.	2.9	43
22	Rigid organic nanotubes obtained from phenylene-butadiynylene macrocycles. <i>Chemical Communications</i> , 2013, 49, 9546.	2.2	40
23	Eco-friendly semiconducting polymers: from greener synthesis to greener processability. <i>Journal of Materials Chemistry C</i> , 2020, 8, 14645-14664.	2.7	40
24	Synthesis of betulinic acid acyl glucuronide for application in anticancer prodrug monotherapy. <i>Tetrahedron Letters</i> , 2009, 50, 988-991.	0.7	39
25	Room-temperature synthesis of soluble, fluorescent carbon nanoparticles from organogel precursors. <i>Chemical Communications</i> , 2012, 48, 10144.	2.2	39
26	Molecular Origin of Strain-Induced Chain Alignment in PDPP-Based Semiconducting Polymeric Thin Films. <i>Advanced Functional Materials</i> , 2021, 31, 2100161.	7.8	38
27	Layered graphitic materials from a molecular precursor. <i>Chemical Science</i> , 2014, 5, 831-836.	3.7	34
28	SMART transfer method to directly compare the mechanical response of water-supported and free-standing ultrathin polymeric films. <i>Nature Communications</i> , 2021, 12, 2347.	5.8	30
29	Elucidating the Role of Hydrogen Bonds for Improved Mechanical Properties in a High-Performance Semiconducting Polymer. <i>Chemistry of Materials</i> , 2022, 34, 2259-2267.	3.2	30
30	Branched Polyethylene as a Plasticizing Additive to Modulate the Mechanical Properties of π -Conjugated Polymers. <i>Macromolecules</i> , 2019, 52, 7870-7877.	2.2	27
31	Morphology and Electronic Properties of Semiconducting Polymer and Branched Polyethylene Blends. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 12723-12732.	4.0	27
32	Challenge and Solution of Characterizing Glass Transition Temperature for Conjugated Polymers by Differential Scanning Calorimetry. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1635-1644.	2.4	27
33	Synthesis, characterization and DFT calculations of new ethynyl-bridged C60 derivatives. <i>Tetrahedron</i> , 2010, 66, 4230-4242.	1.0	26
34	The importance of the amide configuration in the gelation process and topochemical polymerization of phenylacetylene macrocycles. <i>Journal of Materials Chemistry C</i> , 2013, 1, 2680.	2.7	25
35	Enhanced Cycling Stability of Sulfur Electrodes through Effective Binding of Pyridine-Functionalized Polymer. <i>ACS Energy Letters</i> , 2017, 2, 2454-2462.	8.8	23
36	Covalent Cross-Linking of Diketopyrrolopyrrole-Based Organogels with Polydiacetylenes. <i>Langmuir</i> , 2018, 34, 12126-12136.	1.6	22

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37	H-Bonding-driven gel formation of a phenylacetylene macrocycle. <i>Organic and Biomolecular Chemistry</i> , 2011, 9, 4440.	1.5	21
38	Electronic properties of isoindigo-based conjugated polymers bearing urea-containing and linear alkyl side chains. <i>Journal of Materials Chemistry C</i> , 2018, 6, 12070-12078.	2.7	20
39	Modulating the thermomechanical properties and self-healing efficiency of siloxane-based soft polymers through metal–ligand coordination. <i>New Journal of Chemistry</i> , 2020, 44, 8977-8985.	1.4	20
40	Synthesis and characterization of a new ethynyl-bridged C60 derivative bearing a diketopyrrolopyrrole moiety. <i>Tetrahedron Letters</i> , 2011, 52, 5008-5011.	0.7	18
41	Precise Control of Noncovalent Interactions in Semiconducting Polymers for High-Performance Organic Field-Effect Transistors. <i>Chemistry of Materials</i> , 2021, 33, 8267-8277.	3.2	18
42	Multiamorphous Phases in Diketopyrrolopyrrole-Based Conjugated Polymers: From Bulk to Ultrathin Films. <i>Macromolecules</i> , 2020, 53, 4480-4489.	2.2	18
43	Observation of Stepwise Ultrafast Crystallization Kinetics of Donor–Acceptor Conjugated Polymers and Correlation with Field Effect Mobility. <i>Chemistry of Materials</i> , 2021, 33, 1637-1647.	3.2	17
44	Conjugated Polymer with Polydiacetylene Cross-Links Through Topochemical Polymerization of 1,3-Butadiyne Moieties Toward Photopatternable Thin Films. <i>ACS Applied Polymer Materials</i> , 2019, 1, 1918-1924.	2.0	16
45	Enhancing the Solubility of Semiconducting Polymers in Eco-Friendly Solvents with Carbohydrate-Containing Side Chains. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 25175-25185.	4.0	15
46	Synthesis and Photocyclization of Conjugated Diselenophene Pyrrole-2,5-dione Based Monomers for Optoelectronics. <i>Macromolecules</i> , 2021, 54, 665-672.	2.2	14
47	Molecular engineering of benzothiadiazole-based polymers: balancing charge transport and stretchability in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2022, 10, 4236-4246.	2.7	14
48	Enhanced Charge Transport and Stability Conferred by Iron(III)–Coordination in a Conjugated Polymer Thin-Film Transistors. <i>Advanced Electronic Materials</i> , 2018, 4, 1800239.	2.6	13
49	A universal and facile approach for building multifunctional conjugated polymers for human-integrated electronics. <i>Matter</i> , 2021, 4, 3015-3029.	5.0	13
50	Synthesis of a fluorescent BODIPY-tagged ROMP catalyst and initial polymerization-propelled diffusion studies. <i>Tetrahedron</i> , 2015, 71, 5965-5972.	1.0	12
51	Iron-coordinating π -conjugated semiconducting polymer: morphology and charge transport in organic field-effect transistors. <i>Journal of Materials Chemistry C</i> , 2020, 8, 8213-8223.	2.7	12
52	Pressure Sensors: A Sensitive and Biodegradable Pressure Sensor Array for Cardiovascular Monitoring (<i>Adv. Mater.</i> 43/2015). <i>Advanced Materials</i> , 2015, 27, 6953-6953.	11.1	11
53	An air-stable n-type bay-and-headland substituted bis-cyano N–H functionalized perylene diimide for printed electronics. <i>Journal of Materials Chemistry C</i> , 2021, 9, 13630-13634.	2.7	9
54	Topochemical Polymerization of a Nematic Tetraazaporphyrin Derivative To Generate Soluble Polydiacetylene Nanowires. <i>Langmuir</i> , 2019, 35, 15158-15167.	1.6	8

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55	Sidechain engineering of N-annulated perylene diimide molecules. <i>New Journal of Chemistry</i> , 2021, 45, 21001-21005.	1.4	8
56	Synthesis, gelation and topochemical polymerization of meta-linked oligophenylenebutadiynylene derivatives. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 9236-9242.	1.5	7
57	Topochemical Polymerization of Phenylacetylene Macrocycles under Pressure. <i>Journal of Physical Chemistry C</i> , 2018, 122, 20034-20039.	1.5	7
58	2D Supramolecular networks of dibenzonitrilediacetylene on Ag(111) stabilized by intermolecular hydrogen bonding. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 10602-10610.	1.3	6
59	Fabrication and Characterization of Autonomously Self-Healable and Stretchable Soft Microfluidics. <i>Advanced Sustainable Systems</i> , 2022, 6, 2100074.	2.7	6
60	Carbohydrate-Containing Conjugated Polymers: Solvent-Resistant Materials for Greener Organic Electronics. <i>ACS Applied Electronic Materials</i> , 2022, 4, 1381-1390.	2.0	6
61	Ethynyl-bridged fullerene derivatives: effect of the secondary group on electronic properties. <i>New Journal of Chemistry</i> , 2011, 35, 942.	1.4	5
62	Improving the reactivity of phenylacetylene macrocycles toward topochemical polymerization by side chains modification. <i>Beilstein Journal of Organic Chemistry</i> , 2014, 10, 1613-1619.	1.3	5
63	Intrinsically Porous Polydiacetylene from a Functionalized Bowl-Shaped Hexaphenoxycyclotriphosphazene Derivative. <i>ACS Applied Polymer Materials</i> , 2021, 3, 191-199.	2.0	5
64	2,9-Dibenzo[<i>b</i>][<i>def</i>]chrysene as a building block for organic electronics. <i>Materials Advances</i> , 2022, 3, 599-603.	2.6	5
65	Impairing proliferation of glioblastoma multiforme with CD44-selective conjugated polymer nanoparticles. <i>Scientific Reports</i> , 2022, 12, .	1.6	5
66	Photophysical and Optical Properties of Semiconducting Polymer Nanoparticles Prepared from Hyaluronic Acid and Polysorbate 80. <i>ACS Omega</i> , 2019, 4, 22591-22600.	1.6	4
67	Crack propagation and electronic properties of semiconducting polymer and siloxane-urea copolymer blends. <i>Flexible and Printed Electronics</i> , 2020, 5, 035001.	1.5	4
68	Ferrocene metallopolymers of intrinsic microporosity (MPIMs). <i>Chemical Communications</i> , 2021, 58, 238-241.	2.2	4
69	Polyethylene and Semiconducting Polymer Blends for the Fabrication of Organic Field-Effect Transistors: Balancing Charge Transport and Stretchability. <i>Chemosensors</i> , 2022, 10, 201.	1.8	4
70	Pyrazine as a noncovalent conformational lock in semiconducting polymers for enhanced charge transport and stability in thin film transistors. <i>Journal of Materials Chemistry C</i> , 2019, 7, 11507-11514.	2.7	3
71	Self-Assembly of Board-Shaped Diketopyrrolopyrrole and Isoindigo Mesogens into Columnar π - π Stacks. <i>ChemPlusChem</i> , 2019, 84, 103-106.	1.3	3
72	Fabrication of an autonomously self-healing flexible thin-film capacitor by slot-die coating. <i>Materials Advances</i> , 0, , .	2.6	3

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73	From Chlorinated Solvents to Branched Polyethylene: Solvent-Induced Phase Separation for the Greener Processing of Semiconducting Polymers. <i>Advanced Electronic Materials</i> , 2022, 8, 2100928.	2.6	3
74	Carbon nanomaterials from pyrolysis of polydiacetylene-walled nanorods. <i>Materials Research Express</i> , 2014, 1, 015602.	0.8	2
75	Modulating the Photophysical Properties and Electron Transfer Rates in Diketopyrrolopyrrole-Based Coordination Polymers. <i>Journal of Physical Chemistry B</i> , 2021, 125, 9579-9587.	1.2	1
76	PAMAM-containing semiconducting polymers: Effect of dendritic side chains on optoelectronic and solid-state properties. <i>Journal of Polymer Science</i> , 2022, 60, 590-601.	2.0	1
77	Computational Design of an Integrated CMOS Readout Circuit for Sensing With Organic Field-Effect Transistors. <i>Frontiers in Electronics</i> , 2021, 2, .	2.0	1
78	3. Synthesis, functionalization and properties of fullerenes and graphene materials. , 2014, , 37-60.		0
79	3. Self-Healing Materials: Design and Applications. , 2019, , 87-112.		0