

Jing Sun

List of Publications by Year in Descending Order

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Version: 2024-04-26

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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.

88

papers

1,461

citations

23

h-index

32

g-index

90

ext. papers

1,866

ext. citations

5.4

avg, IF

4.99

L-index

#	Paper	IF	Citations
88	Fluorinated Benzocyclobutene-Based Low-k Polymer at High Frequency. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 842-848	4.3	1
87	A fluorinated low dielectric polymer at high frequency derived from allylphenol and benzocyclobutene by a facile route. <i>European Polymer Journal</i> , 2022 , 163, 110943	5.2	1
86	Radiation Effects and Mechanisms on Switching Characteristics of Silicon Carbide Power MOSFETs. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021 , 16, 1423-1429	1.3	2
85	Influence of enhanced low dose rate sensitivity on single-event transient degradation in the LM158 bipolar operational amplifier. <i>AIP Advances</i> , 2021 , 11, 055311	1.5	
84	The bio-based phthalocyanine resins with high Tg and high char yield derived from vanillin. <i>Polymer</i> , 2021 , 224, 123723	3.9	6
83	Boosting Interfacial Electron Transfer between Pd and ZnTi-LDH via Defect Induction for Enhanced Metal-Support Interaction in CO Direct Esterification Reaction. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 24856-24864	9.5	5
82	Low-Dielectric Polymers Derived From Biomass. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2835-2848	4.3	3
81	A Fluorinated Thermocrosslinkable Organosiloxane: A New Low-k Material at High Frequency with Low Water Uptake. <i>Macromolecular Rapid Communications</i> , 2021 , 42, e2000600	4.8	12
80	A bio-based low dielectric material at a high frequency derived from resveratrol. <i>Polymer Chemistry</i> , 2021 , 12, 402-407	4.9	5
79	A biobased low dielectric resin derived from vanillin and guaiacol. <i>Polymer Chemistry</i> , 2021 , 12, 766-770	4.9	3
78	New organic/inorganic hybrid materials: high refractive index polymers based on cyclotriphosphazene with high thermostability and transparency. <i>Materials Chemistry Frontiers</i> , 2021 , 5, 5826-5832	7.8	3
77	A highly heat-resistant phthalocyanine resin based on a bio-based anethole. <i>European Polymer Journal</i> , 2021 , 157, 110645	5.2	3
76	A fluoropolymer with a low dielectric constant at a high frequency derived from bio-based anethole. <i>Polymer Chemistry</i> , 2021 , 12, 4501-4507	4.9	6
75	Resveratrol-Based Fluorinated Materials with High Thermostability and Good Dielectric Properties at High Frequency. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 16905-16911	8.3	5
74	A facile conversion of a bio-based resveratrol to the high-performance polymer with high Tg and high char yield. <i>Polymer</i> , 2020 , 200, 122570	3.9	14
73	Sustainable alternative to bisphenol A epoxy resin: high-performance recyclable epoxy vitrimers derived from protocatechuic acid. <i>Polymer Chemistry</i> , 2020 , 11, 4500-4506	4.9	34
72	Understanding how intrinsic micro-pores affect the dielectric properties of polymers: an approach to synthesize ultra-low dielectric polymers with bulky tetrahedral units as cores. <i>Polymer Chemistry</i> , 2020 , 11, 2674-2680	4.9	8

71	Zn stabilized Pd clusters with enhanced covalent metal-support interaction via the formation of Pd-Zn bonds to promote catalytic thermal stability. <i>Nanoscale</i> , 2020 , 12, 14825-14830	7.7	8
70	Study of the influence of gamma irradiation on long-term reliability of SiC MOSFET. <i>Radiation Effects and Defects in Solids</i> , 2020 , 175, 559-566	0.9	3
69	Tuning the Structure and Hydrolysis Stability of Calcium Metal-Organic Frameworks through Integrating Carboxylic/Phosphinic/Phosphonic Groups in Building Blocks. <i>Crystal Growth and Design</i> , 2020 , 20, 8021-8027	3.5	2
68	Phosphorus- and Sulfur-Containing High-Refractive-Index Polymers with High Tg and Transparency Derived from a Bio-Based Aldehyde. <i>Macromolecules</i> , 2020 , 53, 125-131	5.5	23
67	Biomass materials derived from anethole: conversion and application. <i>Polymer Chemistry</i> , 2020 , 11, 954-963	4.6	16
66	Gel Sol Transition of Vanillin-Based Polyimine Vitrimers: Imparting Vitrimers with Extra Welding and Self-Healing Abilities. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 295-303	4.3	20
65	Cross-Linkable Fluorinated Polynorbornene with High Thermostability and Low Dielectric Constant at High Frequency. <i>ACS Applied Polymer Materials</i> , 2020 , 2, 768-774	4.3	14
64	CO direct esterification to dimethyl oxalate and dimethyl carbonate: the key functional motifs for catalytic selectivity. <i>Nanoscale</i> , 2020 , 12, 20131-20140	7.7	11
63	An effective strategy for the preparation of intrinsic low-k and ultralow-loss dielectric polysiloxanes at high frequency by introducing trifluoromethyl groups into the polymers. <i>Polymer Chemistry</i> , 2020 , 11, 6163-6170	4.9	5
62	Low Dielectric Polymers with High Thermostability Derived from Biobased Vanillin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15013-15019	8.3	12
61	High-Performance Polyimides with High Tg and Excellent Dimensional Stability at High Temperature Prepared via a Cooperative Action of Hydrogen-Bond Interaction and Cross-Linking Reaction. <i>ACS Applied Polymer Materials</i> , 2019 , 1, 2099-2107	4.3	19
60	New Colorless and Transparent Poly(ether imide) Derived from a Biobased Plant Oil (Anethole): Synthesis and Properties. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 11728-11734	8.3	10
59	Perfluorocyclobutyl-based polymers for functional materials. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1280-1301	7.8	24
58	Fluoro-containing Polysiloxane Thermoset with Good Thermostability and Acid Resistance Based on the Renewable Multifunctional Vanillin. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 7304-7311	8.3	23
57	Using a Temperature-Switching Approach to Evaluate Low-Dose-Rate Ionizing Radiation Effects on SET in Linear Bipolar Circuits. <i>IEEE Transactions on Nuclear Science</i> , 2019 , 66, 1557-1565	1.7	2
56	Temperature-Switching During Irradiation as a Test for ELDRS in Linear Bipolar Devices. <i>IEEE Transactions on Nuclear Science</i> , 2019 , 66, 199-206	1.7	10
55	Low Dielectric Fluorinated Polynorbornene with Good Thermostability and Transparency Derived from a Biobased Allylphenol (Eugenol). <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 4078-4086	8.3	29
54	New Triazine-Based Polymers with Low Dielectric Constants and High Thermostability Derived from Biorenewable Anethole and Thermocrosslinkable Benzocyclobutene. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 5620-5626	8.3	30

53	Biobased Anethole/Polyacrylate Cross-Linked Materials with Good Transparency and High Thermostability. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 3575-3579	8.3	9
52	Simulation of Synergism Effect Using Temperature Switching Irradiation on Bipolar Comparator. <i>Chinese Physics Letters</i> , 2018 , 35, 088401	1.8	
51	A Low-Dielectric Polymer Derived from a Biorenewable Phenol (Eugenol). <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13518-13523	8.3	28
50	Biobased Anethole-Functionalized Poly(phenylene oxides): New Low Dielectric Materials with High Tg and Good Dimensional Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 9277-9282	8.3	16
49	A Bio-Based Allylphenol (Eugenol)-Functionalized Fluorinated Maleimide with Low Dielectric Constant and Low Water Uptake. <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800252	2.6	11
48	Intrinsic High Refractive Index SiloxaneSulfide Polymer Networks Having High Thermostability and Transmittance via ThiolEne Cross-Linking Reaction. <i>Macromolecules</i> , 2018 , 51, 7567-7573	5.5	23
47	High performance low dielectric polysiloxanes with high thermostability and low water uptake. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1397-1402	7.8	13
46	A novel post-polymerizable polynorbornene prepared via ROMP: easy synthesis and conversion into a free-standing film with high Tg and low dielectric constant. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1467-1474	7.8	6
45	High Performance Low Dielectric Constant Polymer with Good Film-Forming Ability Developed from Renewable Plant Oil (Anethole). <i>Macromolecular Chemistry and Physics</i> , 2018 , 219, 1800133	2.6	11
44	High Performance Polymer Derived from a Biorenewable Plant Oil (Anethole). <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2578-2584	8.3	27
43	Facile conversion of plant oil (anethole) to a high-performance material. <i>Polymer Chemistry</i> , 2017 , 8, 2010-2015	4.9	30
42	A New Four-Arm Organosiloxane with Thermopolymerizable Trifluorovinyl ether Groups: Synthesis and Conversion to the Polymer with both Low Dielectric Constant and Low Water Uptake. <i>Macromolecular Chemistry and Physics</i> , 2017 , 218, 1700010	2.6	6
41	Fluorinated and Thermo-Cross-Linked Polyhedral Oligomeric Silsesquioxanes: New Organic-Inorganic Hybrid Materials for High-Performance Dielectric Application. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12782-12790	9.5	46
40	A new fluoropolymer having triazine rings as a dielectric material: synthesis and properties. <i>Polymer Chemistry</i> , 2017 , 8, 6173-6180	4.9	26
39	A spiro-centered thermopolymerizable fluorinated macromonomer: synthesis and conversion to the high performance polymer. <i>RSC Advances</i> , 2017 , 7, 18861-18866	3.7	8
38	Active Pd(II) complexes: enhancing catalytic activity by ligand effect for carbonylation of methyl nitrite to dimethyl carbonate. <i>Catalysis Science and Technology</i> , 2017 , 7, 3785-3790	5.5	19
37	A New Fluorinated Polysiloxane with Good Optical Properties and Low Dielectric Constant at High Frequency Based on Easily Available Tetraethoxysilane (TEOS). <i>Macromolecules</i> , 2017 , 50, 9394-9402	5.5	46
36	Biodegradable thermal- and redox-responsive poly(L-glutamate) with Y-shaped oligo(ethylene glycol) side-chain and tunable phase transition temperature. <i>RSC Advances</i> , 2016 , 6, 70243-70250	3.7	24

35	Post-functionalization of novolac resins by introducing thermo-crosslinkable DCFCF2 groups as the side chains: a new strategy for production of thermosetting polymers without releasing volatiles. <i>Polymer Chemistry</i> , 2016 , 7, 4313-4316	4.9	17
34	A Novel Thermo-Polymerizable Aromatic Diamine: Synthesis and Application in Enhancement of the Properties of Conventional Polyimides. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 856-862	2.6	11
33	Macromol. Chem. Phys. 7/2016. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 924-924	2.6	
32	Conversion of a Biorenewable Plant Oil (Anethole) to a New Fluoropolymer with Both Low Dielectric Constant and Low Water Uptake. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 4451-4456	8.3	35
31	Dendrimeric organosiloxane with thermopolymerizable DCFCF2 groups as the arms: synthesis and transformation to the polymer with both ultra-low k and low water uptake. <i>Polymer Chemistry</i> , 2016 , 7, 3378-3382	4.9	14
30	s-Triazine-based functional monomers with thermocrosslinkable propargyl units: Synthesis and conversion to the heat-resistant polymers. <i>Polymer</i> , 2016 , 102, 301-307	3.9	21
29	A new glass-forming molecule having a fluorene skeleton: synthesis and conversion to the polymer with a low dielectric constant, high hydrophobicity and thermostability. <i>Polymer Chemistry</i> , 2016 , 7, 5925-5929	4.9	11
28	Enhanced Stability of Pd/ZnO Catalyst for CO Oxidative Coupling to Dimethyl Oxalate: Effect of Mg ²⁺ Doping. <i>ACS Catalysis</i> , 2015 , 5, 4410-4417	13.1	60
27	A novel one-pot synthesized organosiloxane: synthesis and conversion to directly thermo-crosslinked polysiloxanes with low dielectric constants and excellent thermostability. <i>Polymer Chemistry</i> , 2015 , 6, 5984-5988	4.9	39
26	Occurrences of pharmaceuticals in drinking water sources of major river watersheds, China. <i>Ecotoxicology and Environmental Safety</i> , 2015 , 117, 132-40	7	92
25	Asymmetric total synthesis of mycoleptodiscin A. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 6878-82	16.4	42
24	Variable Polymer Properties Driven by Substituent Groups: Investigation on a Trifluorovinylether-Functionalized Polyfluorene at the C-9 Position. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 742-748	2.6	17
23	New Fluoropolymers Having Both Low Water Uptake and a Low Dielectric Constant. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 2302-2308	2.6	26
22	Macromol. Chem. Phys. 7/2015. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 812-812	2.6	
21	Asymmetric Total Synthesis of Mycoleptodiscin A. <i>Angewandte Chemie</i> , 2015 , 127, 6982-6986	3.6	11
20	Propargyl ether-functionalized poly(m-phenylene): a new precursor for the preparation of polymers with high modulus and high Tg. <i>RSC Advances</i> , 2015 , 5, 23009-23014	3.7	10
19	Facile synthesis of ternary homogeneous ZnS _{1-x} Sex nanosheets with tunable bandgaps. <i>CrystEngComm</i> , 2014 , 16, 6823-6826	3.3	6
18	A new polymer with low dielectric constant based on trifluoromethyl-substituted arene: preparation and properties. <i>RSC Advances</i> , 2014 , 4, 40782-40787	3.7	9

17	Benzocyclobutene resin with fluorene backbone: a novel thermosetting material with high thermostability and low dielectric constant. <i>RSC Advances</i> , 2014 , 4, 39884-39888	3.7	25
16	Postpolymerization of Functional Organosiloxanes: An Efficient Strategy for Preparation of Low-k Material with Enhanced Thermostability and Mechanical Properties. <i>Macromolecules</i> , 2014 , 47, 6311-6315	5.5	56
15	Benzocyclobutene-functionalized poly(m-phenylene): A novel polymer with low dielectric constant and high thermostability. <i>Polymer</i> , 2014 , 55, 3628-3633	3.9	47
14	Postpolymerization of a fluorinated and reactive poly(aryl ether): an efficient way to balance the solubility and solvent resistance of the polymer. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 20437-43	8.5	37
13	Smart Nanotubes: Light-Switchable Single-Walled Carbon Nanotubes Based on Host-Guest Chemistry (Adv. Funct. Mater. 40/2013). <i>Advanced Functional Materials</i> , 2013 , 23, 5009-5009	15.6	
12	Light-Switchable Single-Walled Carbon Nanotubes Based on Host-Guest Chemistry. <i>Advanced Functional Materials</i> , 2013 , 23, 5010-5018	15.6	36
11	A novel inorganic-organic hybrid for detection of nitrite anions with extremely high sensitivity and selectivity. <i>Journal of Materials Chemistry</i> , 2012 , 22, 16742		27
10	Alkyl side chain driven tunable red/yellow/green emission: Investigation on the new E-conjugated polymers comprising of 2,7-carbazole unit and 2,1,3-benzo-thiadiazole units with different side chains. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 1376-1387	2.5	17
9	An X-shaped E-conjugated polymer comprising of fluorene units and anthracene units with high efficiency. Synthesis and optical and electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2008 , 46, 5616-5625	2.5	22
8	Efficient Improvement of Fluorescence Quantum Yield of Fluoreneethynylene-Based Polymers by Introducing a Perfluoroalkylbenzene Unit to the Polymers. <i>Macromolecular Rapid Communications</i> , 2007 , 28, 772-779	4.8	11
7	Graft Copolymerization of Methyl Methacrylate onto Silk Sericin Initiated by Ceric Ammonium Nitrate. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2006 , 43, 899-907	2.2	14
6	Comparative Study of Factor Xa Inhibitors Using Molecular Docking/SVM/HQSAR/3D-QSAR Methods. <i>QSAR and Combinatorial Science</i> , 2006 , 25, 25-45		6
5	Graft copolymerization of methyl acrylate onto silk sericin initiated by tert-butyl hydroperoxide. <i>Polymer International</i> , 2006 , 55, 1350-1354	3.3	14
4	Discovery of anti-SARS coronavirus drug based on molecular docking and database screening. <i>Chinese Journal of Chemistry</i> , 2004 , 22, 882-887	4.9	
3	Building Block Symmetry Relegation Induces Mesopore and Abundant Open-Metal Sites in Metal-Organic Frameworks for Cancer Therapy. <i>CCS Chemistry</i> , 1048-1058	7.2	5
2	Oxygen Vacancy in CeO ₂ Facilitate the Catalytic Activity of Pd/CeO ₂ for CO Direct Esterification to Dimethyl Oxalate. <i>Catalysis Letters</i> , 1	2.8	1
1	Contribution of Hydrogen Bond Nanoarchitectonics to Switchable Photo-Thermal-Mechanical Properties of Bio-inorganic Fibers. <i>CCS Chemistry</i> , 1-21	7.2	1