

Qiang Fang

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.

109 papers	2,289 citations	27 h-index	40 g-index
112 ext. papers	2,688 ext. citations	4.8 avg, IF	5.13 L-index

#	Paper	IF	Citations
109	Fluorinated Benzocyclobutene-Based Low-k Polymer at High Frequency. <i>ACS Applied Polymer Materials</i> , 2022 , 4, 842-848	4.3	1
108	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
107	The bio-based phthalocyanine resins with high Tg and high char yield derived from vanillin. <i>Polymer</i> , 2021 , 224, 123723	3.9	6
106	Low-Dielectric Polymers Derived From Biomass. <i>ACS Applied Polymer Materials</i> , 2021 , 3, 2835-2848	4.3	3
105	High Tg and excellent ultraviolet-shielding efficiency modified PMMA derived from protocatechuic acid. <i>European Polymer Journal</i> , 2021 , 156, 110609	5.2	0
104	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
103	A bio-based low dielectric material at a high frequency derived from resveratrol. <i>Polymer Chemistry</i> , 2021 , 12, 402-407	4.9	5
102	A biobased low dielectric resin derived from vanillin and guaiacol. <i>Polymer Chemistry</i> , 2021 , 12, 766-770	4.9	3
101	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
100	A highly heat-resistant phthalocyanine resin based on a bio-based anethole. <i>European Polymer Journal</i> , 2021 , 157, 110645	5.2	3
99	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
98	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
97	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
96	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
95	Graphene-Like Covalent Organic Framework with a Wide Band Gap Synthesized On Surface via Stepwise Reactions. <i>Angewandte Chemie</i> , 2020 , 132, 16092-16096	3.6	
94	Graphene-Like Covalent Organic Framework with a Wide Band Gap Synthesized On Surface via Stepwise Reactions. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15958-15962	16.4	5
93	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

92	Optical limiting property and ultrafast pump-probe study of two X-shaped oligomers with anthracene unit as a core. <i>Optik</i> , 2020 , 206, 164330	2.5	1
91	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
90	Biomass materials derived from anethole: conversion and application. <i>Polymer Chemistry</i> , 2020 , 11, 954-963	4.6	16
89	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
88	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
87	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
86	Low Dielectric Polymers with High Thermostability Derived from Biobased Vanillin. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 15013-15019	8.3	12
85	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
84	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
83	Perfluorocyclobutyl-based polymers for functional materials. <i>Materials Chemistry Frontiers</i> , 2019 , 3, 1280-1301	7.8	24
82	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
81	Optical limiting property and ultrafast response study of Y and X-shaped oligomers: An investigation on the central core effect. <i>Optik</i> , 2019 , 194, 163090	2.5	
80	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
79	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
78	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
77	Polyethylenimine-coated iron oxide magnetic nanoparticles for high efficient gene delivery. <i>Applied Nanoscience (Switzerland)</i> , 2018 , 8, 811-821	3.3	14
76	A Low-Dielectric Polymer Derived from a Biorenewable Phenol (Eugenol). <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 13518-13523	8.3	28
75	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

74	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
73	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
72	High performance low dielectric polysiloxanes with high thermostability and low water uptake. <i>Materials Chemistry Frontiers</i> , 2018 , 2, 1397-1402	7.8	13
71	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
70	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
69	High Performance Polymer Derived from a Biorenewable Plant Oil (Anethole). <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2578-2584	8.3	27
68	Facile conversion of plant oil (anethole) to a high-performance material. <i>Polymer Chemistry</i> , 2017 , 8, 2010-2015	4.9	30
67	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
66	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
65	A new fluoropolymer having triazine rings as a dielectric material: synthesis and properties. <i>Polymer Chemistry</i> , 2017 , 8, 6173-6180	4.9	26
64	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
63	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
62	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
61	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
60	Macromol. Chem. Phys. 7/2016. <i>Macromolecular Chemistry and Physics</i> , 2016 , 217, 924-924	2.6	
59	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
58	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
57	An Intrinsically Microporous Network Polymer with Good Dielectric Properties at High Frequency. <i>Macromolecules</i> , 2016 , 49, 7314-7321	5.5	42

56	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
55	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 ¹¹	4.9	11
54	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
53	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
52	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
51	Macromol. Chem. Phys. 7/2015. <i>Macromolecular Chemistry and Physics</i> , 2015 , 216, 812-812	2.6	
50	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
49	Probing ultrafast excited state dynamics and nonlinear absorption properties of three star-shaped conjugated oligomers with 1,3,5-triazine core. <i>RSC Advances</i> , 2014 , 4, 10960	3.7	26
48	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
47	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
46	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	5.5	56
45	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
44	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, 20437-20443 ⁵	8.5	37
43	Hydrogenation of N-propylcarbazole over supported ruthenium as a new prototype of liquid organic hydrogen carriers (LOHC). <i>RSC Advances</i> , 2013 , 3, 24877	3.7	55
42	A new low dielectric material with high thermostability based on a thermosetting trifluoromethyl substituted aromatic molecule. <i>RSC Advances</i> , 2013 , 3, 23128	3.7	23
41	New organic dyes containing E- or Z-trifluoromethyl acrylic acid as the electron acceptors for dye-sensitized solar cell applications: an investigation of the effect of molecular configuration on the power conversion efficiency of the cells. <i>RSC Advances</i> , 2013 , 3, 1069-1072	3.7	14
40	Non-porous low-k dielectric films based on a new structural amorphous fluoropolymer. <i>Advanced Materials</i> , 2013 , 25, 4875-8	24	120
39	A facile and economical procedure for the synthesis of maleimide derivatives using an acidic ionic liquid as a catalyst. <i>Tetrahedron Letters</i> , 2012 , 53, 4245-4247	2	14

38	A new type of unsaturated polyester resin with low dielectric constant and high thermostability: preparation and properties. <i>RSC Advances</i> , 2012 , 2, 6504	3.7	12
37	A new procedure for the synthesis of π -conjugated polymers via ligand-free iron(III)-catalyzed oxidative homocoupling reaction of grignard reagents. <i>RSC Advances</i> , 2012 , 2, 8055	3.7	8
36	Multi-carbazole derivatives: new dyes for highly efficient dye-sensitized solar cells. <i>RSC Advances</i> , 2012 , 2, 2427	3.7	51
35	Ethoxy-substituted Oligo-phenylenevinylene-Bridged Organic Dyes for Efficient Dye-Sensitized Solar Cells. <i>Chinese Journal of Chemistry</i> , 2012 , 30, 1497-1503	4.9	6
34	Synthesis and properties of solution-processible oligomers for the use of organic light-emitting diodes (OLEDs). <i>Thin Solid Films</i> , 2011 , 519, 7772-7778	2.2	9
33	New Conjugated Triazine Based Molecular Materials for Application in Optoelectronic Devices: Design, Synthesis, and Properties. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 2423-2427	3.8	53
32	Pd(II)-catalyzed base-free oxidative homocoupling of fluorene diboronic acid ester: A new approach for the synthesis of π -conjugated polymers. <i>Journal of Polymer Science Part A</i> , 2011 , 49, 4098-4101	2.5	4
31	Titanium-Mediated Direct Carbon-Carbon Double Bond Formation to β -Trifluoromethyl Acids: A New Contribution to the Knoevenagel Reaction and a High-Yielding and Stereoselective Synthesis of β -Trifluoromethylacrylic Acids. <i>Advanced Synthesis and Catalysis</i> , 2011 , 353, 3161-3165	5.6	11
30	Star-shaped donor- π -acceptor conjugated oligomers with 1,3,5-triazine cores: convergent synthesis and multifunctional properties. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 10374-83	3.4	84
29	A New Polymeric Light-Emitting Material with Pure Green Emission: Poly(fluorene-alt-quinoxaline) with Benzothiadiazole Groups in the Side Chain. <i>Macromolecular Chemistry and Physics</i> , 2010 , 211, 651-656	2.6	14
28	An X-shaped solution-processible oligomer having an anthracene unit as a core: A new organic light-emitting material with high thermostability and efficiency. <i>Organic Electronics</i> , 2010 , 11, 74-80	3.5	18
27	New low bandgap molecules based on ethylene-separated benzothiadiazoles: synthesis and bandgap comparison. <i>Tetrahedron Letters</i> , 2010 , 51, 4462-4465	2	11
26	The synthesis and properties of novel π -conjugated 2,1,3-benzothiadiazole oligomers. <i>Dyes and Pigments</i> , 2009 , 80, 194-198	4.6	24
25	A new π -conjugated star-shaped polymer comprising of full fluorene units: An efficient blue emitter without reduction of color purity undergoing an annealing. <i>Synthetic Metals</i> , 2009 , 159, 29-35	3.6	3
24	New optoelectronic materials based on bitriazines: synthesis and properties. <i>Organic Letters</i> , 2008 , 10, 709-12	6.2	65
23	Alkyl side chain driven tunable red/yellow/green emission: Investigation on the new π -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
22	An X-shaped π -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
21	π -Conjugated poly(anthracene-alt-fluorene)s with X-shaped repeating units: New blue-light emitting polymers. <i>Polymer</i> , 2008 , 49, 2282-2287	3.9	15

20	A new sensor for copper(II) ion based on carboxyl acid groups substituted polyfluoreneethynylene. <i>Reactive and Functional Polymers</i> , 2008 , 68, 1715-1721	4.6	26
19	Benzothiadiazoyl-triazoyl cyclodextrin: a selective fluoroionophore for Ni(II). <i>Tetrahedron</i> , 2008 , 64, 8716-8720	6.7	67
18	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
17	New π -Conjugated polyaryleneethynylenes containing a 1,3,5-triazine unit in the main chain: Synthesis and optical and electrochemical properties. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 3797-3806	3.5	17
16	Chemical preparation and characterization of new biodegradable aliphatic polyesters end-capped with diverse steroidal moieties. <i>Journal of Polymer Science Part A</i> , 2006 , 44, 2045-2058	2.5	21
15	Bisindoles containing a 2,1,3-benzothiadiazole unit: novel non-doping red organic light-emitting diodes with excellent color purity. <i>Chemical Communications</i> , 2005 , 1468-70	5.8	45
14	A novel fluorene derivative containing four triphenylamine groups: Highly thermostable blue emitter with hole-transporting ability for organic light-emitting diode (OLED). <i>Synthetic Metals</i> , 2005 , 155, 206-210	3.6	43
13	Synthesis and properties of poly(arylenevinylene)s comprising of an electron-donating carbazole unit and an electron-accepting 2,1,3-benzothiadiazole (or fluorenone) unit in the main chain. <i>Polymer</i> , 2005 , 46, 11927-11933	3.9	13
12	New π -Conjugated Polymers Containing 1,3,5-Triazine Units in the Main Chain: Synthesis and Optical and Electrochemical Properties of the Polymers. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 998-1001	4.8	22
11	A New Poly(fluorene-co-carbazole) with a Large Substituent Group at the 9-Position of the Carbazole Moiety: An Efficient Blue Emitter. <i>Macromolecular Rapid Communications</i> , 2005 , 26, 1651-1656	4.8	28
10	Synthesis and optical and electrochemical properties of new π -conjugated 1,3,5-triazine-containing polymers. <i>Journal of Polymer Science Part A</i> , 2005 , 43, 6554-6561	2.5	26
9	Investigation on the properties of a three-component copolymer consisting of tris(allylphenoxy) triazine monomer and a diamine-chain-extension bismaleimide. <i>Journal of Applied Polymer Science</i> , 2004 , 93, 475-480	2.9	6
8	Synthesis and Properties of a New Poly(arylene ethynylene) Containing 1,3,5-Triazine Units. <i>Macromolecular Chemistry and Physics</i> , 2004 , 205, 795-800	2.6	15
7	Preparation and Properties of New Soluble π -Conjugated Polymers Containing a Fumaronitrile Unit in the Main Chain. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1429-1432	4.8	10
6	Synthesis and Properties of Highly Photoluminescent and Electrochemically Active Polymers Containing 2-Pyrazoline Units in the Main Chain. <i>Macromolecular Rapid Communications</i> , 2004 , 25, 1856-1859	4.8	4
5	New Alternative Copolymer Constituted of Fluorene and Triphenylamine Units with a Tunable π -CHO Group in the Side Chain. Quantitative Transformation of the π -CHO Group to π -CH ₂ CH ₂ Groups and Optical and Electrochemical Properties of the Polymers. <i>Macromolecules</i> , 2004 , 37, 5894-5899	5.5	46
4	New soluble unsaturated polyketone derived from diarylidencycloalketone: synthesis and optical and electrochemical properties of π -conjugated poly(diarylidencyclohexanone) with long side chains. <i>Polymer</i> , 2003 , 44, 2947-2956	3.9	21
3	New Soluble Poly(aryleneethynylene)s Consisting of Electron-Accepting Benzothiadiazole Units and Electron-Donating Dialkoxybenzene Units. Synthesis, Molecular Assembly, Orientation on Substrates, and Electrochemical and Optical Properties. <i>Macromolecules</i> , 2003 , 36, 4262-4267	5.5	65

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| 2 | Synthesis and characterization of triallylphenoxytriazine and the properties of its copolymer with bismaleimide. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 1248-1257 | 2.9 | 18 |
| 1 | Synthesis and characterization of a novel functional monomer containing two allylphenoxy groups and one S-triazine ring and the properties of its copolymer with 4,4'-bismaleimidodiphenylmethane (BMDPM). <i>Polymer</i> , 2001 , 42, 7595-7602 | 3.9 | 34 |