Yawen Huang

List of Publications by Year
in descending order

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53	705	623188	610482
papers	citations	14	24
		h-index	g-index

54	54	54	603
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A stretchable polysiloxane elastomer with self-healing capacity at room temperature and solvatochromic properties. Chemical Communications, 2017, 53, 12088-12091.	2.2	59
2	Palladium catalyzed regioselective mono-alkenylation of o-carboranes via Heck type coupling reaction of a cage Bâ€“H bond. RSC Advances, 2015, 5, 91683-91685.	1.7	52
3	Coordinated silicon elastomer coating@fabrics with oil/water separation capabilities, outstanding durability and ultra-fast room-temperature self-healing ability. Journal of Materials Chemistry A, 2018, 6, 17156-17163.	5.2	50
4	New polymers derived from 4â€vinylsilylbenzocyclobutene monomer with good thermal stability, excellent filmâ€forming property, and lowâ€dielectric constant. Journal of Polymer Science Part A, 2011, 49, 381-391.	2.5	43
5	Benzocyclobutene/vinylphenyl-introduced polycarbosilanes with low dielectric constant, high temperature performance and photopatternability. Polymer, 2015, 66, 58-66.	1.8	42
6	High temperature thermosets derived from benzocyclobutene-containing main-chain oligomeric carbosilanes. Polymer, 2014, 55, 5680-5688.	1.8	40
7	Preparation of highly transparent, room-temperature self-healing and recyclable silicon elastomers based on dynamic imine bond and their ion responsive properties. Materials Letters, 2020, 268, 127598.	1.3	30
8	A nitrogen-rich, azaindole-based microporous organic network: synergistic effect of local dipoleâ€“Ï€ and dipoleâ€“quadrupole interactions on carbon dioxide uptake. Polymer Chemistry, 2016, 7, 5768-5772.	1.9	25
9	Synthesis and properties of cross-linkable polysiloxane via incorporating benzocyclobutene. High Performance Polymers, 2014, 26, 463-469.	0.8	23
10	Facile synthesis of heatâ€resistant and photoluminescent poly(Nâ€arylene indole ether)s via catalystâ€free Cï£¿N/Cï£¿O coupling reaction. Journal of Polymer Science Part A, 2014, 52, 313-320.	2.5	22
11	Synthesis of poly(silmethylene)s via ringâ€opening polymerization of benzocyclobutene functionalized disilacyclobutene and their lowâ€dielectric and thermal properties. Polymers for Advanced Technologies, 2017, 28, 1480-1488.	1.6	19
12	A new mechanism for the low dielectric property of POSS nanocomposites: the key role of interfacial effect. Physical Chemistry Chemical Physics, 2017, 19, 14503-14511.	1.3	19
13	Preparation and unique dielectric properties of nanoporous materials with well-controlled closed-nanopores. Physical Chemistry Chemical Physics, 2016, 18, 19183-19193.	1.3	19
14	Stretchable dual cross-linked silicon elastomer with a superhydrophobic surface and fast triple self-healing ability at room temperature. Soft Matter, 2021, 17, 4643-4652.	1.2	17
15	Preparation of metalâ€phosphorus hybridized nanomaterials and the action of metal centers on the flame retardancy of epoxy resin. Journal of Applied Polymer Science, 2017, 134, 45445.	1.3	13
16	A novel pore-free strategy via interfacial effects in nanocomposites to produce polyethylene with ultra-low dielectric constants. Materials Letters, 2018, 232, 86-91.	1.3	13
17	Lowâ€dielectricâ€constant benzocyclobuteneâ€“organosilicon resins constructed from cyclotetrasiloxane. Journal of Applied Polymer Science, 2019, 136, 47465.	1.3	13
18	Recovery of the self-cleaning property of silicon elastomers utilizing the concept of reversible coordination bonds. Soft Matter, 2020, 16, 8473-8481.	1.2	13

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19	Poly(arylene benzimidazole)s as novel high-performance polymers. Polymer Journal, 2013, 45, 1188-1194.	1.3	11
20	Fabrication of solid CH-CD multilayer microspheres for inertial confinement fusion. Matter and Radiation at Extremes, 2021, 6, .	1.5	11
21	Development of a Strong, Recyclable Poly(dimethylsiloxane) Elastomer with Autonomic Selfâ€Healing Capabilities and Fluorescence Response Properties at Room Temperature. Macromolecular Materials and Engineering, 2021, 306, 2100132.	1.7	11
22	Facile synthesis of soluble aromatic poly(amide amine)s via C-N coupling reaction: Characterization, thermal, and optical properties. Journal of Polymer Science Part A, 2013, 51, 4845-4852.	2.5	10
23	Progress and challenges in the fabrication of DPS shells for ICF. Matter and Radiation at Extremes, 2019, 4, .	1.5	9
24	Room-temperature photopatternable low-dielectric cured resins derived from siloxaneâ€“carbosilane hybridized polymers. Journal of Materials Chemistry C, 2019, 7, 1518-1524.	2.7	9
25	Copper-Catalyzed Aerobic Oxidation for the Amination of Benzoxazole Under Air. Synthetic Communications, 2014, 44, 2848-2853.	1.1	8
26	Effects of Molecular Weight on Thermal Degradation of Poly(Î±-methyl styrene) in Nitrogen. Journal of Macromolecular Science - Physics, 2015, 54, 1479-1494.	0.4	8
27	Porous coordination/covalent hybridized polymers synthesized from pyridineâ€“zinc coordination compound and their CO₂ capture ability, fluorescence and selective response properties. Chemical Communications, 2018, 54, 12025-12028.	2.2	8
28	Materials containing benzocyclobutene units with low dielectric constant and good thermostability prepared from starâ€shaped molecules. Journal of Applied Polymer Science, 2019, 136, 47458.	1.3	8
29	Preparation and performance of lowâ€dielectric benzocyclobutene resins containing dicyclopentadiene. Journal of Vinyl and Additive Technology, 2022, 28, 631-639.	1.8	8
30	Preparation of Superhydrophobic Fabrics via Chemical Selfâ€Healing Strategy and Their High Oil/Water Separation Performance and Enhanced Durability. Macromolecular Chemistry and Physics, 2020, 221, 1900356.	1.1	7
31	A facile way via integrating solâ€“gel and Grignard reaction to prepare siloxane/carbosilane hybridized benzocyclobutene resins with hyperbranched structure, low dielectric constant, and high thermal stability. Journal of Applied Polymer Science, 2020, 137, 49074.	1.3	7
32	Incorporation of Benzocyclobutene Cross-Linkable Moieties in Poly(Methyl Acrylate): A Novel Approach to Shape-Memory Polymers Accompanied with Microphase Separation. Journal of Macromolecular Science - Physics, 2011, 50, 2129-2139.	0.4	6
33	Effects of poly(vinyl alcohol) and poly(acrylic acid) on interfacial properties and stability of compound droplets. International Journal of Hydrogen Energy, 2020, 45, 2925-2935.	3.8	6
34	Controllable production of deuterated polymer beads for ICF. Journal of Nuclear Materials, 2020, 535, 152159.	1.3	6
35	Synthesis and characterization of dicyclic siliconâ€/phosphorusâ€grafted alumina and its application in improving flame retardancy of epoxy resin. Journal of Applied Polymer Science, 2021, 138, 49854.	1.3	6
36	Improved mechanical, thermal properties and ideal dielectric properties of polyimide composite films by incorporation of boron nitride nanosheets and aramid nanofibers. Polymers for Advanced Technologies, 2022, 33, 2123-2136.	1.6	6

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37	Lowâ€dielectric silylbutyleneâ€benzocyclobutene resin with photoactive silacyclobutane groups via acyclic diene metathesis polymerization. Polymers for Advanced Technologies, 2022, 33, 2542-2551.	1.6	6
38	Synthesis and characterization of new 4-vinylsilylbenzocyclobutene/vinylsilylbenzene random copolymers. High Performance Polymers, 2012, 24, 112-118.	0.8	5
39	Recyclability and selective fluorescence/colorimetric sensing properties of fluorescent porous materials synthesized by the copolymerization of 4-vinylpyridine zinc and divinylbenzene. Sensors and Actuators B: Chemical, 2021, 329, 129102.	4.0	5
40	The low dielectric constant hyperbranched polycarbosilane derived resins with spacing groups. Journal of Applied Polymer Science, 2022, 139, .	1.3	5
41	Pervaporation performance of trifluoroethoxy substituting polyphosphazene membrane for different organic compounds aqueous solutions. Desalination and Water Treatment, 2010, 24, 210-219.	1.0	4
42	Preparation and Properties of Low Dielectric Constant Siloxane/Carbosilane Hybrid Benzocyclobutene Resin Composites. Materials, 2021, 14, 6548.	1.3	4
43	Benzocyclobuteneâ€containing Carbosilane Monomers as a Route to Lowâ€Î² Dielectric and Low Dielectric Loss Materials. ChemistrySelect, 2022, 7, .	0.7	4
44	Reprocessable and recyclable styrene-based resins with low dielectric and good mechanical properties. RSC Advances, 2018, 8, 36441-36444.	1.7	3
45	UV-curable low dielectric siloxane-benzocyclobutene resins via introducing carbosilane groups. European Polymer Journal, 2021, 161, 110833.	2.6	3
46	All-Benzocyclobutene Functionalized Polycarbosilane and Derived Copolymers with Low Dielectric Constant and High Thermal Stability. Macromolecular Research, 2019, 27, 1248-1254.	1.0	2
47	Effects of surfactant adsorption on the formation of compound droplets in microfluidic devices. RSC Advances, 2019, 9, 41943-41954.	1.7	2
48	Reprocessable low-dielectric styrene resins with coordination bonds: the effect of metal centers on low dielectric, mechanical, and reprocessing properties. Journal of Macromolecular Science - Pure and Applied Chemistry, 2021, 58, 622-629.	1.2	2
49	Silacyclobutaneâ€functionalized cyclosiloxanes as photoactive precursors for high thermal stability, low dielectric constant and low dielectric loss polymers. Journal of Applied Polymer Science, 2021, 138, 51376.	1.3	2
50	Low dielectric resins derived from hyperbranched carbosilane oligmers functionalized by benzocyclobutene groups. Designed Monomers and Polymers, 2021, 24, 362-370.	0.7	1
51	A Novel and Convenient Preparation of Core/Shell and Hollow Polymer Beads Based on Surface Sorption and Dissolution Competition. Journal of Macromolecular Science - Pure and Applied Chemistry, 2011, 48, 462-466.	1.2	0
52	Low dielectric styrene-based resins with enhanced mechanical properties via introducing coordination bonds. Journal of Macromolecular Science - Pure and Applied Chemistry, 2020, 57, 165-169.	1.2	0
53	Low-dielectric styrene resins with high mechanical strength and good (re)processability via constructing imine-crosslinked network and introducing small amount of amino molecules. European Polymer Journal, 2021, , 110780.	2.6	0