

# Shu Ling Zhang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4462525/publications.pdf>

Version: 2024-02-01

71  
papers

1,633  
citations

279798

23  
h-index

315739

38  
g-index

71  
all docs

71  
docs citations

71  
times ranked

2097  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Effect of carbon nanotubes on the mechanical properties and crystallization behavior of poly(ether) Tj ETQq1 1 0.784314 rgBT /Overlock   | 7.8  | 119       |
| 2  | A material with high electromagnetic radiation shielding effectiveness fabricated using multi-walled carbon nanotubes wrapped with poly(ether sulfone) in a poly(ether ether ketone) matrix. Journal of Materials Chemistry, 2012, 22, 21232.  | 6.7  | 94        |
| 3  | Ultra low dielectric constant soluble polyhedral oligomeric silsesquioxane (POSS)â€“poly(aryl ether) Tj ETQq1 1 0.784314 rgBT /Overlock<br>Chemistry C, 2014, 2, 1094-1103.  | 5.5  | 90        |
| 4  | Rational Design of Antifreezing Organohydrogel Electrolytes for Flexible Supercapacitors. ACS Applied Energy Materials, 2020, 3, 1944-1951.  | 5.1  | 85        |
| 5  | Synergistic effects of functionalized graphene and functionalized multi-walled carbon nanotubes on the electrical and mechanical properties of poly(ether sulfone) composites. European Polymer Journal, 2013, 49, 3125-3134.  | 5.4  | 82        |
| 6  | Facile synthesis and characterization of hyperbranched poly(aryl ether ketone)s obtained via an A<sub>2</sub> + BBâ€“ <sub&gt;2&lt; 1360-1366.<="" 2010,="" 59,="" approach.="" international,="" polymer="" sub&gt;="" td=""> <td>3.1</td> <td>67</td> </sub&gt;2&lt;>                        | 3.1  | 67        |
| 7  | Covalent functionalization of graphene oxide with porphyrin and porphyrin incorporated polymers for optical limiting. Physical Chemistry Chemical Physics, 2017, 19, 2252-2260.  | 2.8  | 63        |
| 8  | A novel poly(ethylene glycol)â€“grafted poly(arylene ether ketone) blend micro-porous polymer electrolyte for solid-state electric double layer capacitors formed by incorporating a chitosan-based LiClO<sub>4</sub> gel electrolyte. Journal of Materials Chemistry A, 2016, 4, 18116-18127. | 10.3 | 60        |
| 9  | Design and preparation of graphene/poly(ether ether ketone) composites with excellent electrical conductivity. Journal of Materials Science, 2014, 49, 2372-2382.  | 3.7  | 47        |
| 10 | Development of highly permeable and antifouling ultrafiltration membranes based on the synergistic effect of carboxylated polysulfone and bio-inspired co-deposition modified hydroxyapatite nanotubes. Journal of Colloid and Interface Science, 2020, 572, 48-61.                            | 9.4  | 41        |
| 11 | A flexible solid-state supercapacitor based on a poly(aryl ether ketone)â€“poly(ethylene glycol) copolymer solid polymer electrolyte for high temperature applications. RSC Advances, 2016, 6, 65186-65195.  | 3.6  | 40        |
| 12 | Strong Interface Construction of Carbon Fiberâ€“reinforced PEEK Composites: An Efficient Method for Modifying Carbon Fiber with Crystalline PEEK. Macromolecular Rapid Communications, 2020, 41, e2000001.   | 3.9  | 38        |
| 13 | High-performance conductive materials based on the selective location of carbon black in poly(ether) Tj ETQq1 1 0.784314 rgBT /Overlock  | 12.0 | 33        |
| 14 | Hybrid formation of graphene oxideâ€“POSS and their effect on the dielectric properties of poly(aryl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf  | 2.8  | 33        |
| 15 | High performance electrospun Li<sup>+</sup>-functionalized sulfonated poly(ether ether ketone)/PVA based nanocomposite gel polymer electrolyte for solid-state electric double layer capacitors. Journal of Colloid and Interface Science, 2019, 534, 672-682.                                 | 9.4  | 33        |
| 16 | Synthesis of poly(ether ether ketone)-block-polyimide copolymer and its compatibilization for poly(ether ether ketone)/thermoplastic polyimide blends. Polymer, 2014, 55, 119-125.   | 3.8  | 32        |
| 17 | Study on mechanical properties of unidirectional continuous carbon fiberâ€“reinforced PEEK composites fabricated by the wrapped yarn method. Polymer Composites, 2019, 40, 56-69.  | 4.6  | 32        |
| 18 | Combined strategy of blending and surface modification as an effective route to prepare antifouling ultrafiltration membranes. Journal of Colloid and Interface Science, 2021, 589, 1-12.  | 9.4  | 32        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Synthesis of branched sulfonated poly(aryl ether ketone) copolymers and their proton exchange membrane properties. <i>Journal of Membrane Science</i> , 2013, 444, 259-267.  | 8.2 | 30        |
| 20 | Material with high dielectric constant, low dielectric loss, and good mechanical and thermal properties produced using multi-wall carbon nanotubes wrapped with poly(ether sulphone) in a poly(ether ether ketone) matrix. <i>Applied Physics Letters</i> , 2012, 101, 012904. | 3.3 | 28        |
| 21 | Ultra low dielectric constant hybrid films via side chain grafting reaction of poly(ether ether ketone) and phosphotungstic acid. <i>Journal of Materials Chemistry</i> , 2012, 22, 23534.   | 6.7 | 26        |
| 22 | Preparation and nonlinear optical characterization of a novel hyperbranched poly(aryl ether ketone) end-functionalized with nickel phthalocyanine. <i>Dyes and Pigments</i> , 2008, 79, 217-223.   | 3.7 | 25        |
| 23 | Light weight and flexible poly(ether ether ketone) based composite film with excellent thermal stability and mechanical properties for wide-band electromagnetic interference shielding. <i>RSC Advances</i> , 2018, 8, 3296-3303.   | 3.6 | 24        |
| 24 | A novel photoactive hyperbranched poly(aryl ether ketone) with azobenzene end groups for optical storage applications. <i>Reactive and Functional Polymers</i> , 2010, 70, 699-705.  | 4.1 | 23        |
| 25 | Multi-walled carbon nanotube induced co-continuity of poly(ether ether ketone)/polyimide blends for high performance conductive materials. <i>RSC Advances</i> , 2014, 4, 42175-42182.   | 3.6 | 23        |
| 26 | Synthesis and characterization of novel adamantane-based copoly(aryl ether ketone)s with low dielectric constants. <i>Polymer International</i> , 2014, 63, 333-337.   | 3.1 | 22        |
| 27 | Study of blends of linear poly(ether ether ketone) of high melt viscosity and hyperbranched poly(ether ether ketone). <i>Polymer International</i> , 2011, 60, 607-612.  | 3.1 | 21        |
| 28 | Effect of the addition of silane coupling agents on the properties of wollastonite-reinforced poly(ether ether ketone) composites. <i>Polymer Engineering and Science</i> , 2011, 51, 1051-1058.   | 3.1 | 20        |
| 29 | Preparation and characterization of hyperbranched poly(ether sulfone) and its application as a coating additive for linear poly(ether sulfone). <i>Journal of Applied Polymer Science</i> , 2016, 133, .   | 2.6 | 20        |
| 30 | Fabrication and dielectric properties of poly(ether ether ketone)/polyimide blends with selectively distributed multi-walled carbon nanotubes. <i>Polymer International</i> , 2015, 64, 1555-1559.   | 3.1 | 19        |
| 31 | Novel pore-filling membrane based on block sulfonated poly (ether sulphone) with enhanced proton conductivity and methanol resistance for direct methanol fuel cells. <i>Electrochimica Acta</i> , 2019, 307, 188-196.   | 5.2 | 19        |
| 32 | Synthesis and characterization of thermotropic liquid crystalline poly(aryl ether ketone) copolymers with pendant 3-(trifluoromethyl) phenyl groups. <i>Polymer International</i> , 2006, 55, 657-661.   | 3.1 | 18        |
| 33 | Synthesis and optical properties of poly(aryl ether ketone)s incorporating porphyrins in the backbones. <i>Journal of Polymer Science Part A</i> , 2014, 52, 1282-1290.  | 2.3 | 17        |
| 34 | Preparation of organic-inorganic hybrid membranes with superior antifouling property by incorporating polymer-modified multiwall carbon nanotubes. <i>RSC Advances</i> , 2017, 7, 30564-30572.   | 3.6 | 16        |
| 35 | Reinforced Poly(ether ether ketone)/Nafion Composite Membrane with Highly Improved Proton Conductivity for High Concentration Direct Methanol Fuel Cells. <i>ACS Applied Energy Materials</i> , 2020, 3, 7180-7190.  | 5.1 | 16        |
| 36 | Poly(arylene ether ketone)s with pendant porphyrins: synthesis and investigation on optical limiting properties. <i>RSC Advances</i> , 2015, 5, 48311-48322.   | 3.6 | 15        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Porphyrinâ€“poly(arylene ether sulfone) covalently functionalized multi-walled carbon nanotubes: synthesis and enhanced broadband nonlinear optical properties. RSC Advances, 2016, 6, 75530-75540.   | 3.6 | 15        |
| 38 | Influence of the addition of lubricant on the properties of poly(ether ether ketone) fibers. Polymer Engineering and Science, 2013, 53, 2254-2260.  | 3.1 | 14        |
| 39 | Poly(arylene ether)s based on platinum(<sc>ii</sc>) acetylide complexes: synthesis and photophysical and nonlinear absorption properties. Journal of Materials Chemistry C, 2018, 6, 7317-7325.   | 5.5 | 14        |
| 40 | Preparation and characterization of highâ€“performance poly(ether ether ketone) fibers with improved spinnability based on thermotropic liquid crystalline poly(aryl ether ketone) copolymer. Journal of Applied Polymer Science, 2013, 130, 1406-1414. | 2.6 | 13        |
| 41 | Structure-function integrated poly(aryl ether ketone)-grafted MWCNTs/poly(ether ether ketone) composites with low percolation threshold of both conductivity and electromagnetic shielding. Composites Science and Technology, 2022, 217, 109032.       | 7.8 | 13        |
| 42 | Preparation and characterization of hyperbranched poly(ether ether ketone)s suitable as rheology control agents for linear poly(ether ether ketone)s. Macromolecular Research, 2011, 19, 427-435.   | 2.4 | 12        |
| 43 | Preparation and properties of poly(ether ether ketone) composites reinforced by modified wollastonite grafting with silaneterminated poly(ether ether ketone) oligomers. Journal of Polymer Research, 2011, 18, 2045-2053.                              | 2.4 | 11        |
| 44 | Synthesis and preparation of sulfonated hyperbranched poly(aryl ether ketone)â€“sulfonated linear poly(aryl ether ketone) blend membranes for proton exchange membranes. High Performance Polymers, 2013, 25, 759-768.                                  | 1.8 | 11        |
| 45 | Fabrication of very effective ferroferric oxide and multiwalled carbon nanotubes@polyetherimide/poly(ether ether ketone) electromagnetic interference shielding composites. Polymer Composites, 2020, 41, 3135-3143.                                    | 4.6 | 11        |
| 46 | Study on Thermoplastic Elastomers (TPEs) of Waste Polypropylene/Waste Ground Rubber Tire Powder. Journal of Macromolecular Science - Physics, 2011, 50, 762-768.  | 1.0 | 10        |
| 47 | Design and preparation of poly(aryl ether ketone)/phosphotungstic acid hybrid films with low dielectric constant. Journal of Applied Polymer Science, 2013, 129, 3219-3225.   | 2.6 | 8         |
| 48 | Screening and Identification of Antidepressant Active Ingredients from Puerariae Radix Extract and Study on Its Mechanism. Oxidative Medicine and Cellular Longevity, 2021, 2021, 1-18.   | 4.0 | 8         |
| 49 | Preparation and characterization of a novel hyperbranched poly(aryl ether ketone) terminated with cobalt phthalocyanine to be used for oxidative decomposition of 2,4,6-trichlorophenol. Macromolecular Research, 2010, 18, 331-335.                    | 2.4 | 7         |
| 50 | Preparation of Hollow/Porous Polymeric Microspheres based on OH-HPEEK and PVA. Materials Letters, 2012, 74, 85-88.  | 2.6 | 7         |
| 51 | Enhanced electrical properties by tuning the phase morphology of multiwalled carbon nanotube-filled poly(ether ether ketone)/polyimide composites. Polymer International, 2015, 64, 828-832.  | 3.1 | 7         |
| 52 | Novel nanocellular poly(aryl ether ketone) foams fabricated by controlling the crosslinking degree. RSC Advances, 2015, 5, 51966-51974.   | 3.6 | 7         |
| 53 | The Molecular Mechanism of Hepatic Lipid Metabolism Disorder Caused by NaAsO <sub>2</sub> through Regulating the ERK/PPAR Signaling Pathway. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-13.   | 4.0 | 7         |
| 54 | Preparation and characterization of poly(aryl ether ketone)s with pyridyl groups on the side chains. High Performance Polymers, 2011, 23, 620-624.  | 1.8 | 6         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Influence of lubricant on the properties of poly(ether ether ketone) and poly(ether ether) Tj ETQq1 1 0.784314 rgBTJ /Overlock 10 Tf 50   | 2.4 | 5         |
| 56 | Preparation and Characterization of high strength poly(ether ether ketone) films. Journal of Applied Polymer Science, 2014, 131, .  | 2.6 | 5         |
| 57 | Design and preparation of silica tube/poly(aryl ether ketone) composites with low dielectric constant. RSC Advances, 2016, 6, 72999-73005.  | 3.6 | 5         |
| 58 | Achieving structurally and functionally integrated electromagnetic shielding composites based on polyetheretherketone by sandwich structure. Journal of Sandwich Structures and Materials, 2022, 24, 484-502.   | 3.5 | 5         |
| 59 | Influence of third component on mechanical properties and thermal stability of polypropylene/(regenerated polyurethane) blends. Journal of Vinyl and Additive Technology, 2008, 14, 55-59.  | 3.4 | 4         |
| 60 | Development of an efficient route to hyperbranched poly(aryl ether ketone)s. High Performance Polymers, 2012, 24, 188-193.  | 1.8 | 4         |
| 61 | Preparation of Glass Fiber/Poly(Ether Ether Ketone) Composite Foam with Improved Compressive Strength and Heat Resistance. Advanced Engineering Materials, 2022, 24, .  | 3.5 | 4         |
| 62 | Influence of regenerated polyurethane on the mechanical properties and thermal stability of polypropylene during multiple processing cycles. Journal of Vinyl and Additive Technology, 2008, 14, 34-38.   | 3.4 | 3         |
| 63 | Effect of Antioxidants on the Stability of Poly(ether ether ketone) and the Investigation on the Effect Mechanism of the Antioxidants to Poly(ether ether ketone). Journal of Macromolecular Science - Pure and Applied Chemistry, 2012, 49, 571-577. | 2.2 | 3         |
| 64 | Synthesis and gas transport properties of novel poly(aryl ether ketone)s with branched structure. Polymer International, 2014, 63, 718-721.   | 3.1 | 3         |
| 65 | The influence of different length of symmetrical alkyl side chains on the dielectric constant of soluble poly(aryl ether ketone) copolymers. High Performance Polymers, 2016, 28, 492-501.  | 1.8 | 3         |
| 66 | Transparent nanocomposites with enhanced performances from poly(propylene carbonate) and silica. Journal of Applied Polymer Science, 2022, 139, 51513.  | 2.6 | 2         |
| 67 | Microstructural Characterization and Crack Propagation Behavior of a Novel $\beta$ -Solidifying TiAl Alloy. Metals, 2021, 11, 1231.   | 2.3 | 2         |
| 68 | Remarkable reinforcement effect of pore-filled semi-crystalline poly(ether ether ketone) membranes for high concentration direct methanol fuel cells. Electrochimica Acta, 2020, 363, 137242.   | 5.2 | 1         |
| 69 | Preparation of stable spherical micelles with rigid backbones based on polyaryletherketone copolymers containing lateral pyridyl groups. Materials Chemistry and Physics, 2013, 140, 583-587.   | 4.0 | 0         |
| 70 | High fluorescence intensity poly(aryl ether ketone)s containing tetraphenylethylene moieties: preparation, characterization and fluorescent properties. RSC Advances, 2016, 6, 84133-84138.   | 3.6 | 0         |
| 71 | Cover Image, Volume 139, Issue 1. Journal of Applied Polymer Science, 2022, 139, 51708.   | 2.6 | 0         |