

# Qihua Wang

## List of Publications by Year in descending order

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47  
papers

2,735  
citations

236833

25  
h-index

223716

46  
g-index

47  
all docs

47  
docs citations

47  
times ranked

2859  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Effects of TiO <sub>2</sub> decorated reduced graphene oxide on mechanical and tribological properties of thermosetting polyimide. <i>Composite Interfaces</i> , 2022, 29, 985-998.  | 1.3 | 11        |
| 2  | Tailoring polyimide composites with low friction and wear at high temperatures. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51736.  | 1.3 | 8         |
| 3  | Molecular dynamic simulation study of tribological mechanism of PI composites reinforced by CNTs with different orientations. <i>Polymer Composites</i> , 2022, 43, 1557-1565.   | 2.3 | 12        |
| 4  | Mechanical and tribological properties of polytetrafluoroethylene reinforced by nano-ZrO <sub>2</sub> : Molecular dynamic simulation. <i>High Performance Polymers</i> , 2022, 34, 397-405.  | 0.8 | 5         |
| 5  | Bio-based <i>Eucommia ulmoides</i> gum/low density polyethylene shape memory composites reinforced by zinc methacrylate. <i>Polymer International</i> , 2021, 70, 1659.  | 1.6 | 3         |
| 6  | The effect of different layered materials on the tribological properties of PTFE composites. <i>Friction</i> , 2020, 8, 542-552.   | 3.4 | 46        |
| 7  | Improving interfacial compatibility by a micro-nano synergetic structure for high-performance epoxy composites. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49195.  | 1.3 | 2         |
| 8  | Ultra-high compression and wear resistant hybrid filled polyimide composite: Synergistic effect of Fe <sub>2</sub> O <sub>3</sub> decorated RGO. <i>Journal of Applied Polymer Science</i> , 2020, 137, 49222.                                 | 1.3 | 6         |
| 9  | Tribological behavior prediction of friction materials for ultrasonic motors using Monte Carlo-based artificial neural network. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47157.  | 1.3 | 14        |
| 10 | The effect of N-doped quantum dots on the properties of in situ prepared colorless polyimide nanocomposite films. <i>Materials and Design</i> , 2018, 140, 144-152.  | 3.3 | 19        |
| 11 | High wear-resistant performance of thermosetting polyimide reinforced by graphitic carbon nitride (g-C <sub>3</sub> N <sub>4</sub> ) under high temperature. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 200-208. | 3.8 | 68        |
| 12 | Impact of reinforcing fillers' properties on transfer film structure and tribological performance of POM-based materials. <i>Tribology International</i> , 2017, 109, 58-68.   | 3.0 | 34        |
| 13 | Significantly enhanced wear resistance of PEEK by simply filling with modified graphitic carbon nitride. <i>Materials and Design</i> , 2017, 129, 192-200.   | 3.3 | 38        |
| 14 | Engineering a hyperbranched polyimide membrane for shape memory and CO <sub>2</sub> capture. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13823-13833.   | 5.2 | 32        |
| 15 | Tribological performance of PPS composites under diesel lubrication conditions. <i>Tribology International</i> , 2017, 115, 338-347.   | 3.0 | 26        |
| 16 | Distinct tribological mechanisms of various oxide nanoparticles added in PEEK composite reinforced with carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 97, 19-30.  | 3.8 | 54        |
| 17 | Hybrid effect of ZnS sub-micrometer particles and reinforcing fibers on tribological performance of polyimide under oil lubrication conditions. <i>Wear</i> , 2017, 380-381, 86-95.  | 1.5 | 30        |
| 18 | Significance of combined functional nanoparticles for enhancing tribological performance of PEEK reinforced with carbon fibers. <i>Composites Part A: Applied Science and Manufacturing</i> , 2017, 102, 400-413.                              | 3.8 | 54        |

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|----|---|-----|-----------|
| 19 | Dual-Triggered and Thermally Reconfigurable Shape Memory Graphene-Vitrimer Composites. ACS Applied Materials & Interfaces, 2016, 8, 21691-21699.  | 4.0 | 207       |
| 20 | High mechanical and tribological performance of polyimide nanocomposites reinforced by chopped carbon fibers in adverse operating conditions. Composites Science and Technology, 2016, 134, 251-257.                  | 3.8 | 52        |
| 21 | Exploring the influence of counterpart materials on tribological behaviors of epoxy composites. Tribology International, 2016, 103, 566-573.  | 3.0 | 19        |
| 22 | Tunable Triple-Shape Memory Binary Mixtures with High Transition Temperature and Robust Mechanical Properties. Macromolecular Chemistry and Physics, 2016, 217, 1305-1313.  | 1.1 | 15        |
| 23 | Comparative study on the tribological properties of the polyimide composites reinforced with different fibers. Polymer Composites, 2016, 37, 2541-2548.   | 2.3 | 17        |
| 24 | Effects of glass fiber and molybdenum disulfide on tribological behaviors and PV limit of chopped carbon fiber reinforced Polytetrafluoroethylene composites. Tribology International, 2016, 104, 392-401.            | 3.0 | 49        |
| 25 | High performance multiple-shape memory behaviors of Poly(benzoxazole-co-imide)s. Polymer, 2016, 88, 19-28.  | 1.8 | 46        |
| 26 | Tribological Performances of Thermosetting Polyimide Matched with Steel and Ceramic. Tribology Transactions, 2016, 59, 128-138.   | 1.1 | 3         |
| 27 | Friction and Wear of Potassium Titanate Whisker Filled Carbon Fabric/Phenolic Polymer Composites. Journal of Tribology, 2015, 137, .  | 1.0 | 11        |
| 28 | High performance shape memory polyimides based on $\pi$ - $\pi$ interactions. Journal of Materials Chemistry A, 2015, 3, 352-359.   | 5.2 | 102       |
| 29 | Friction and wear behaviors of carbon and aramid fibers reinforced polyimide composites in simulated space environment. Tribology International, 2015, 92, 246-254.   | 3.0 | 67        |
| 30 | Effects of atomic oxygen exposure on the tribological performance of ZrO <sub>2</sub> -reinforced polyimide nanocomposites for low earth orbit space applications. Composites Part B: Engineering, 2015, 77, 215-222. | 5.9 | 57        |
| 31 | Effect of temperature on sliding and erosive wear of fiber reinforced polyimide hybrids. Tribology International, 2015, 82, 525-533.  | 3.0 | 52        |
| 32 | Friction and wear of fiber reinforced polyimide composites. Wear, 2013, 301, 122-129.   | 1.5 | 118       |
| 33 | The influence of nanoparticle fillers on the friction and wear behavior of polymer matrices. , 2013, , 91-118.  |     | 1         |
| 34 | Tribological Properties of Thermosetting Polyimide/TiO <sub>2</sub> Nanocomposites Under Dry Sliding and Water-Lubricated Conditions. Journal of Macromolecular Science - Physics, 2012, 51, 2284-2296.               | 0.4 | 9         |
| 35 | <i>In situ</i> synthesis and properties of PMR PI/SiO <sub>2</sub> nanocomposites. Journal of Applied Polymer Science, 2012, 125, 488-493.  | 1.3 | 21        |
| 36 | Nanostructured Fe <sub>2</sub> O <sub>3</sub> @graphene composite as a novel electrode material for supercapacitors. Journal of Solid State Electrochemistry, 2012, 16, 2095-2102.                                    | 1.2 | 174       |

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|----|---|------|-----------|
| 37 | Facile Synthesis of Porous Mn <sub>3</sub> O <sub>4</sub> NanoCrystal@Graphene Nanocomposites for Electrochemical Supercapacitors. European Journal of Inorganic Chemistry, 2012, 2012, 628-635.                    | 1.0  | 115       |
| 38 | Shape-controlled Synthesis of Porous SnO <sub>2</sub> Nanostructures via Morphologically Conserved Transformation from SnC <sub>2</sub> O <sub>4</sub> Precursor Approach. Nano-Micro Letters, 2011, 3, 34-42.      | 14.4 | 17        |
| 39 | Controlled synthesis of mesoporous hematite nanostructures and their application as electrochemical capacitor electrodes. Nanotechnology, 2011, 22, 135604.   | 1.3  | 90        |
| 40 | Morphology-Controllable Synthesis of Cobalt Oxalates and Their Conversion to Mesoporous Co <sub>3</sub> O <sub>4</sub> Nanostructures for Application in Supercapacitors. Inorganic Chemistry, 2011, 50, 6482-6492. | 1.9  | 285       |
| 41 | A Synergistic Effect of Graphite and Nano-CuO on the Tribological Behavior of Polyimide Composites. Journal of Macromolecular Science - Physics, 2010, 50, 213-224.   | 0.4  | 19        |
| 42 | The influence of nanoparticle fillers on the friction and wear behavior of polymer matrices. Tribology and Interface Engineering Series, 2008, 55, 62-81.   | 0.0  | 6         |
| 43 | Tribological properties of micron silicon carbide filled poly(ether ether ketone). Journal of Applied Polymer Science, 1999, 74, 2611-2615.   | 1.3  | 19        |
| 44 | The friction and wear properties of nanometer ZrO <sub>2</sub> -filled polyetheretherketone. Journal of Applied Polymer Science, 1998, 69, 135-141.   | 1.3  | 97        |
| 45 | The friction and wear properties of nanometre SiO <sub>2</sub> filled polyetheretherketone. Tribology International, 1997, 30, 193-197.   | 3.0  | 192       |
| 46 | The effect of particle size of nanometer ZrO <sub>2</sub> on the tribological behaviour of PEEK. Wear, 1996, 198, 216-219.  | 1.5  | 216       |
| 47 | An investigation of the friction and wear properties of nanometer Si <sub>3</sub> N <sub>4</sub> filled PEEK. Wear, 1996, 196, 82-86.   | 1.5  | 197       |