# Bernd Wetzel

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 34 papers | 3,046 citations | 430874 18 h-index | 477307 29 g-index |
| 34 all docs | 34 docs citations | 34 times ranked | 2540 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Temperature-rate induced polymerization and phase separation of block copolymer toughened polymer composites. Composites Science and Technology, 2022, 230, 109329. | 7.8 | 4 |
| 2 | Low velocity impact resistance of thin and toughened carbon fibre reinforced epoxy. Composites Science and Technology, 2022, 230, 109362. | 7.8 | 5 |
| 3 | <i>In situ</i>functionalisation of organomineral hybrid resins for tough basalt fibre reinforced plastics. Plastics, Rubber and Composites, 2021, 50, 105-115. | 2.0 | 1 |
| 4 | Mechanical properties and fracture behavior of highâ€performance epoxy nanocomposites modified with block polymer and coreâ€“shell rubber particles. Journal of Applied Polymer Science, 2020, 137, 48471. | 2.6 | 27 |
| 5 | Effect of Different Types of Block Copolymers on Morphology, Mechanical Properties, and Fracture Mechanisms of Bisphenol-F Based Epoxy System. Journal of Composites Science, 2019, 3, 68. | 3.0 | 22 |
| 6 | Flexural and fracture mechanical properties of in situ particulate reinforced organomineral hybrid resins modified by organofunctional silanes. Composites Science and Technology, 2019, 174, 169-175. | 7.8 | 8 |
| 7 | Impact of Aggressive Media on the Interlaminar Shear Strength of Innovative Glass Fiber Reinforced Polyurea/Polysilicate Hybrid Resins. Procedia Structural Integrity, 2018, 13, 143-148. | 0.8 | 2 |
| 8 | Tensile Properties, Fracture Mechanics Properties and Toughening Mechanisms of Epoxy Systems Modified with Soft Block Copolymers, Rigid TiO2 Nanoparticles and Their Hybrids. Journal of Composites Science, 2018, 2, 72. | 3.0 | 28 |
| 9 | The effect of block copolymer and core-shell rubber hybrid toughening on morphology and fracture of epoxy-based fibre reinforced composites. Engineering Fracture Mechanics, 2018, 203, 81-101. | 4.3 | 54 |
| 10 | Fatigue crack propagation in triblock copolymer toughened epoxy nanocomposites. Polymer Engineering and Science, 2017, 57, 579-587. | 3.1 | 23 |
| 11 | Distinct tribological mechanisms of silica nanoparticles in epoxy composites reinforced with carbon nanotubes, carbon fibers and glass fibers. Tribology International, 2016, 104, 225-236. | 5.9 | 56 |
| 12 | The role of surface topography in the evolving microstructure and functionality of tribofilms of an epoxy-based nanocomposite. Wear, 2016, 364-365, 48-56. | 3.1 | 13 |
| 13 | Toughening and Mechanical Properties of Epoxy Modified with Block Co-polymers and MWCNTs. Procedia Structural Integrity, 2016, 2, 104-111. | 0.8 | 23 |
| 14 | Fatigue crack propagation in self-assembling nanocomposites. AIP Conference Proceedings, 2016, , . | 0.4 | 0 |
| 15 | Tribological Behaviors of Carbon Fiber Reinforced Epoxy Composites Under PAO Lubrication Conditions. Tribology Letters, 2016, 62, 1. | 2.6 | 18 |
| 16 | Modeling of the stressâ€“strain behavior of an epoxy-based nanocomposite filled with silica nanoparticles. Materials and Design, 2016, 89, 950-956. | 7.0 | 14 |
| 17 | Mesoscale modeling of the mechanical and tribological behavior of a polymer matrix composite based on epoxy and 6vol.% silica nanoparticles. Computational Materials Science, 2015, 110, 204-214. | 3.0 | 19 |
| 18 | Thermo-molded self-healing thermoplastics containing multilayer microreactors. Journal of Materials Chemistry A, 2013, 1, 7191. | 10.3 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Epoxy nanocomposites â€“ fracture and toughening mechanisms. Engineering Fracture Mechanics, 2006, 73, 2375-2398. | 4.3 | 711 |
| 20 | Reinforcement of Thermosetting Polymers by the Incorporation of Micro- and Nanoparticles. , 2005, , 45-62. | | 18 |
| 21 | Finite Element Simulation of the Fiberâ€“Matrix Debonding in Polymer Composites Produced by a Sliding Indentor: Part I â€“ Normally Oriented Fibers. Journal of Composite Materials, 2004, 38, 1583-1606. | 2.4 | 14 |
| 22 | Finite Element Simulation of the Fiberâ€“ Matrix Debonding in Polymer Composites Produced by a Sliding Indentor: Part II â€“ Parallel and Anti-Parallel Fiber Orientation. Journal of Composite Materials, 2004, 38, 1607-1618. | 2.4 | 8 |
| 23 | Sliding wear behavior of epoxy containing nano-Al2O3 particles with different pretreatments. Wear, 2004, 256, 1072-1081. | 3.1 | 162 |
| 24 | Surface Grafting of Nano-SiC with Glycidyl Methacrylate in Emulsion and Its Effect on the Tribological Performance of Epoxy Composites. , 2004, , 571-576. | | 0 |
| 25 | Epoxy nanocomposites with high mechanical and tribological performance. Composites Science and Technology, 2003, 63, 2055-2067. | 7.8 | 690 |
| 26 | Graft polymerization onto inorganic nanoparticles and its effect on tribological performance improvement of polymer composites. Tribology International, 2003, 36, 697-707. | 5.9 | 85 |
| 27 | Friction and wear of low nanometer Si3N4 filled epoxy composites. Wear, 2003, 254, 784-796. | 3.1 | 202 |
| 28 | Improvement of Tribological Performance of Epoxy by the Addition of Irradiation Grafted Nano-Inorganic Particles. Macromolecular Materials and Engineering, 2002, 287, 111-115. | 3.6 | 120 |
| 29 | Impact and wear resistance of polymer nanocomposites at low filler content. Polymer Engineering and Science, 2002, 42, 1919-1927. | 3.1 | 226 |
| 30 | Effect of particle surface treatment on the tribological performance of epoxy based nanocomposites. Wear, 2002, 253, 1086-1093. | 3.1 | 226 |
| 31 | Microstructure and tribological behavior of polymeric nanocomposites. Industrial Lubrication and Tribology, 2001, 53, 72-77. | 1.3 | 139 |
| 32 | Atomic force microscopy study on structure and properties of irradiation grafted silica particles in polypropylene-based nanocomposites. Journal of Applied Polymer Science, 2001, 80, 2218-2227. | 2.6 | 69 |
| 33 | Toughening of Glass Fiber Reinforced Unsaturated Polyester Composites by Core-Shell Particles. Key Engineering Materials, 0, 742, 74-81. | 0.4 | 4 |
| 34 | Fiber/Matrix Adhesion in Glass Fiber Reinforced Inorganic-Organic Polyurea/Polysilicate Resins. Key Engineering Materials, 0, 742, 9-16. | 0.4 | 4 |