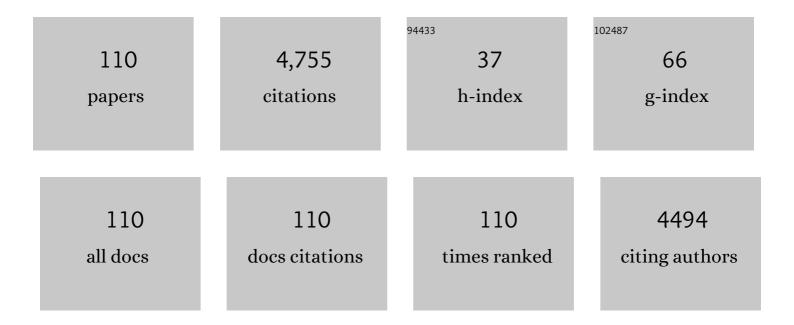
Zhaozhu Zhang

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/2105400/publications.pdf Version: 2024-02-01



7илодиц 7илис

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Robust and Durable Superhydrophobic Cotton Fabrics for Oil/Water Separation. ACS Applied Materials & Interfaces, 2013, 5, 7208-7214. | 8.0 | 540 |
| 2 | Superhydrophilic–superoleophobic coatings. Journal of Materials Chemistry, 2012, 22, 2834. | 6.7 | 370 |
| 3 | Robust superhydrophobic surfaces with mechanical durability and easy repairability. Journal of Materials Chemistry, 2011, 21, 15793. | 6.7 | 217 |
| 4 | Facile Fabrication of Superhydrophobic Sponge with Selective Absorption and Collection of Oil from Water. Industrial & Engineering Chemistry Research, 2013, 52, 9411-9416. | 3.7 | 194 |
| 5 | Facile synthesis of copper/polydopamine functionalized graphene oxide nanocomposites with enhanced tribological performance. Chemical Engineering Journal, 2017, 324, 51-62. | 12.7 | 125 |
| 6 | Superoleophobic textured aluminum surfaces. New Journal of Chemistry, 2011, 35, 2422. | 2.8 | 107 |
| 7 | A versatile approach to produce superhydrophobic materials used for oil–water separation. Journal of Colloid and Interface Science, 2014, 432, 105-108. | 9.4 | 103 |
| 8 | Environmentally Safe and Porous MS@TiO ₂ @PPy Monoliths with Superior Visible-Light Photocatalytic Properties for Rapid Oil–Water Separation and Water Purification. ACS Sustainable Chemistry and Engineering, 2020, 8, 5347-5359. | 6.7 | 103 |
| 9 | Study of tribological properties of polyimide/graphene oxide nanocomposite films under seawater-lubricated condition. Tribology International, 2014, 80, 131-140. | 5.9 | 101 |
| 10 | Preparation and Tribological Properties of Polyimide/Carboxyl-Functionalized Multi-walled Carbon Nanotube Nanocomposite Films Under Seawater Lubrication. Tribology Letters, 2015, 58, 1. | 2.6 | 100 |
| 11 | A novel superhydrophobic bulk material. Journal of Materials Chemistry, 2012, 22, 20146. | 6.7 | 99 |
| 12 | A simple approach to fabricate superoleophobic coatings. New Journal of Chemistry, 2011, 35, 576-580. | 2.8 | 96 |
| 13 | Synthesis of the liquid-like graphene with excellent tribological properties. Tribology International, 2017, 105, 118-124. | 5.9 | 89 |
| 14 | One-pot fabrication of nanoporous polymer decorated materials: from oil-collecting devices to high-efficiency emulsion separation. Journal of Materials Chemistry A, 2017, 5, 5077-5087. | 10.3 | 88 |
| 15 | A graphene coated cotton for oil/water separation. Composites Science and Technology, 2014, 102, 100-105. | 7.8 | 87 |
| 16 | Surface modification of hybrid-fabric composites with amino silane and polydopamine for enhanced mechanical and tribological behaviors. Tribology International, 2017, 107, 10-17. | 5.9 | 72 |
| 17 | One-step spraying to fabricate nonfluorinated superhydrophobic coatings with high transparency. Journal of Materials Science, 2016, 51, 2411-2419. | 3.7 | 69 |
| 18 | A facile and fast approach to mechanically stable and rapid self-healing waterproof fabrics. Composites Science and Technology, 2016, 125, 55-61. | 7.8 | 68 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | One-pot, template-free synthesis of a robust superhydrophobic polymer monolith with an adjustable hierarchical porous structure. Green Chemistry, 2016, 18, 5266-5272. | 9.0 | 60 |
| 20 | Designing transparent superamphiphobic coatings directed by carbon nanotubes. Journal of Colloid and Interface Science, 2014, 421, 141-145. | 9.4 | 58 |
| 21 | Tribological Behaviors of Polyurethane Composite Coatings Filled with Ionic Liquid Core/Silica Gel Shell Microcapsules. Tribology Letters, 2015, 58, 1. | 2.6 | 58 |
| 22 | Environmentally safe, substrate-independent and repairable nanoporous coatings: large-scale preparation, high transparency and antifouling properties. Journal of Materials Chemistry A, 2017, 5, 20277-20288. | 10.3 | 58 |
| 23 | Ultrafast Fabrication of Metal–Organic Framework-Functionalized Superwetting Membrane for Multichannel Oil/Water Separation and Floating Oil Collection. ACS Applied Materials & Interfaces, 2020, 12, 25512-25520. | 8.0 | 56 |
| 24 | Construction of super-hydrophobic PDMS@MOF@Cu mesh for reduced drag, anti-fouling and self-cleaning towards marine vehicle applications. Chemical Engineering Journal, 2021, 417, 129265. | 12.7 | 56 |
| 25 | A superhydrophobic monolithic material with tunable wettability for oil and water separation. Journal of Materials Science, 2015, 50, 2365-2369. | 3.7 | 54 |
| 26 | A waterproofing textile with robust superhydrophobicity in either air or oil surroundings. Journal of the Taiwan Institute of Chemical Engineers, 2017, 71, 421-425. | 5.3 | 54 |
| 27 | Air Cushion Convection Inhibiting Icing of Self-Cleaning Surfaces. ACS Applied Materials & Interfaces, 2016, 8, 29169-29178. | 8.0 | 53 |
| 28 | Effect of MWCNTs-GO hybrids on tribological performance of hybrid PTFE/Nomex fabric/phenolic composite. Composites Science and Technology, 2017, 146, 155-160. | 7.8 | 53 |
| 29 | Coupling hybrid of BN nanosheets and carbon nanotubes to enhance the mechanical and tribological properties of fabric composites. Composites Part A: Applied Science and Manufacturing, 2019, 123, 132-140. | 7.6 | 51 |
| 30 | Rapid and reversible switching between superoleophobicity and superoleophilicity in response to counterion exchange. Journal of Colloid and Interface Science, 2012, 366, 191-195. | 9.4 | 49 |
| 31 | A magnetically superhydrophobic bulk material for oil removal. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 429, 129-133. | 4.7 | 45 |
| 32 | Fabrication of BiOBr-silicone aerogel photocatalyst in an aqueous system with degradation performance by sol-gel method. Science China Technological Sciences, 2020, 63, 859-865. | 4.0 | 44 |
| 33 | Spray-coated superhydrophobic coatings with regenerability. New Journal of Chemistry, 2011, 35, 881. | 2.8 | 42 |
| 34 | Facile fabrication of superhydrophobic sand: Potential advantages for practical application in oil–water separation. Journal of the Taiwan Institute of Chemical Engineers, 2016, 60, 651-655. | 5.3 | 42 |
| 35 | Effect of ZrB2 particles incorporation on high-temperature tribological properties of hybrid PTFE/Nomex fabric/phenolic composite. Tribology International, 2016, 99, 289-295. | 5.9 | 41 |
| 36 | Carbon nanotubes coated hybrid-fabric composites with enhanced mechanical and thermal properties for tribological applications. Composites Part A: Applied Science and Manufacturing, 2017, 102, 243-252. | 7.6 | 41 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Facile fabrication of superoleophobic surfaces with enhanced corrosion resistance and easy repairability. Applied Physics A: Materials Science and Processing, 2012, 108, 601-606. | 2.3 | 38 |
| 38 | Fabrication of the g-C ₃ N ₄ /Cu nanocomposite and its potential for lubrication applications. RSC Advances, 2015, 5, 64254-64260. | 3.6 | 38 |
| 39 | Fabrication of PTFE/Nomex fabric/phenolic composites using a layer-by-layer self-assembly method for tribology field application. Friction, 2020, 8, 335-342. | 6.4 | 38 |
| 40 | Influence of air-plasma treatment and hexagonal boron nitride as filler on the high temperature tribological behaviors of hybrid PTFE/Nomex fabric/phenolic composite. European Polymer Journal, 2015, 67, 143-151. | 5.4 | 37 |
| 41 | One-step synthesis of g-C3N4 nanosheets to improve tribological properties of phenolic coating. Tribology International, 2019, 132, 221-227. | 5.9 | 36 |
| 42 | TiB2 reinforced hybrid-fabric composites with enhanced thermal and mechanical properties for high-temperature tribological applications. Tribology International, 2017, 115, 8-17. | 5.9 | 35 |
| 43 | A versatile and efficient approach to separate both surfactant-stabilized water-in-oil and oil-in-water emulsions. Separation and Purification Technology, 2017, 176, 1-7. | 7.9 | 34 |
| 44 | POSS grafted hybrid-fabric composites with a biomimic middle layer for simultaneously improved UV resistance and tribological properties. Composites Science and Technology, 2018, 160, 69-78. | 7.8 | 34 |
| 45 | A rapid, facile and practical fabrication of robust PDMS@starch coatings for oil-water separation. Journal of the Taiwan Institute of Chemical Engineers, 2019, 99, 215-223. | 5.3 | 34 |
| 46 | Influence of lubricant filling on the dry sliding wear behaviors of hybrid PTFE/Nomex fabric composite. Journal of Materials Science, 2014, 49, 3716-3724. | 3.7 | 33 |
| 47 | Versatile fabrication of magnetic carbon fiber aerogel applied for bidirectional oil–water separation. Applied Physics A: Materials Science and Processing, 2015, 120, 949-957. | 2.3 | 33 |
| 48 | In situ reduction and functionalization of graphene oxide to improve the tribological behavior of a phenol formaldehyde composite coating. Friction, 2015, 3, 72-81. | 6.4 | 32 |
| 49 | The efficient separation of surfactant-stabilized water-in-oil emulsions with a superhydrophobic filter paper. Applied Physics A: Materials Science and Processing, 2015, 121, 1291-1297. | 2.3 | 31 |
| 50 | Water vapor recovery device designed with interface local heating principle and its application in clean water production. Journal of Materials Chemistry A, 2021, 9, 7967-7976. | 10.3 | 31 |
| 51 | A biomimetic approach to improving tribological properties of hybrid PTFE/Nomex fabric/phenolic composites. European Polymer Journal, 2016, 78, 163-172. | 5.4 | 30 |
| 52 | An eco-friendly one-step method to fabricate superhydrophobic nanoparticles with hierarchical architectures. Chemical Engineering Journal, 2017, 327, 530-538. | 12.7 | 30 |
| 53 | WS2-filled hybrid PTFE/Nomex fabric composites with improved antiwear property. Journal of Materials Science, 2015, 50, 1065-1070. | 3.7 | 27 |
| 54 | Friction and wear behaviors of MoS2-multi-walled-carbonnanotube hybrid reinforced polyurethane composite coating. Friction, 2019, 7, 316-326. | 6.4 | 27 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Tribological behavior of spun Kevlar fabric composites filled with fluorinated compounds. Tribology International, 2010, 43, 1466-1471. | 5.9 | 26 |
| 56 | Enhancement of the tribological properties of carbon fiber/epoxy composite by grafting carbon nanotubes onto fibers. RSC Advances, 2016, 6, 49387-49394. | 3.6 | 25 |
| 57 | Design robust, degradable and recyclable superhydrophobic materials. Chemical Engineering Journal, 2021, 420, 129806. | 12.7 | 24 |
| 58 | High-temperature tribological performance of hybrid PTFE/Nomex fabric/phenolic composite. Composites Science and Technology, 2014, 104, 146-151. | 7.8 | 23 |
| 59 | Combined effect of air-plasma treatment and lubricant filling on the dry sliding wear behavior of hybrid PTFE/Nomex fabric/phenolic composite. Composites Science and Technology, 2014, 100, 204-211. | 7.8 | 23 |
| 60 | Fabrication of Bionic Superhydrophobic Manganese Oxide/Polystyrene Nanocomposite Coating. Journal of Bionic Engineering, 2012, 9, 11-17. | 5.0 | 22 |
| 61 | Facile synthesis of CuO/g-C3N4 hybrids for enhancing the wear resistance of polyimide composite. European Polymer Journal, 2019, 116, 463-470. | 5.4 | 22 |
| 62 | Synergistic effects of COF and GO on high flux oil/water separation performance of superhydrophobic composites. Separation and Purification Technology, 2021, 276, 119268. | 7.9 | 22 |
| 63 | Synergistic effects of AlB2 and fluorinated graphite on the mechanical and tribological properties of hybrid fabric composites. Composites Science and Technology, 2017, 143, 75-81. | 7.8 | 21 |
| 64 | Preparation of superhydrophobic CdS cotton using visible light response and its application for the control of water pollution. Science China Technological Sciences, 2019, 62, 2236-2242. | 4.0 | 20 |
| 65 | Rational Design of Durable Anti-fouling Coatings with High Transparency, Hardness, and Flexibility. ACS Applied Materials & Interfaces, 2022, 14, 29156-29166. | 8.0 | 19 |
| 66 | Sliding wear behaviors of Nomex fabric/phenolic composite under dry and water-bathed sliding conditions. Friction, 2014, 2, 264-271. | 6.4 | 18 |
| 67 | Enhanced mechanical and tribological properties of Kevlar/ <scp>PTFEâ€phenolic</scp> composites by improving interfacial properties by aramid nanofibers. Polymer Composites, 2020, 41, 4192-4201. | 4.6 | 17 |
| 68 | Graphene Oxide-Grafted Hybrid-Fabric Composites with Simultaneously Improved Mechanical and Tribological Properties. Tribology Letters, 2018, 66, 1. | 2.6 | 16 |
| 69 | Tribological Behaviors of Hybrid PTFE/Nomex Fabric/Phenolic Composite under Dry and Water-Bathed Sliding Conditions. Tribology Transactions, 2014, 57, 1116-1121. | 2.0 | 15 |
| 70 | Durable superwetting materials through layer-by-layer assembly: Multiple separations towards water/oil mixtures, water-in-oil and oil-in-water emulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2019, 571, 142-150. | 4.7 | 15 |
| 71 | Combined effects of interface modification and micro-filler reinforcements on the thermal and tribological performances of fabric composites. Friction, 2021, 9, 1110-1126. | 6.4 | 15 |
| 72 | Stable Biomimetic Super-Hydrophobic Copper Surface Fabricated by a Simple Wet-Chemical Method. Journal of Dispersion Science and Technology, 2010, 31, 488-491. | 2.4 | 14 |

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Growth of Mo ₂ C nanoparticles on graphene as lubricant filler for high tribological performances of fabric self-lubricating liner composites. RSC Advances, 2016, 6, 110070-110076. | 3.6 | 14 |
| 74 | Multifunctional superamphiphobic fabric with hierarchical structures via a mild water-based strategy. Applied Surface Science, 2019, 470, 687-694. | 6.1 | 14 |
| 75 | Modified montmorillonite synergizes with Co-MOF@PBO fabric to improve the wear resistance of PBO/phenolic resin composites. Journal of Colloid and Interface Science, 2022, 611, 480-490. | 9.4 | 14 |
| 76 | A facile route to mechanically durable responsive surfaces with reversible wettability switching. New Journal of Chemistry, 2012, 36, 1280. | 2.8 | 13 |
| 77 | Enhancing interfacial and tribological properties of self-lubricating liner composites via Layer-by-Layer self-assembly MgAl-LDH/PAMPA multilayers film on fibers surface. Tribology International, 2019, 140, 105887. | 5.9 | 13 |
| 78 | Synchronously improved thermal conductivity and tribological performance of self-lubricating fabric liner composites via integrated design method with copper yarn. Tribology International, 2021, 164, 107204. | 5.9 | 12 |
| 79 | Tribological behavior of Kevlar fabric composites filled with nanoparticles. Journal of Applied Polymer Science, 2009, 111, 2419-2425. | 2.6 | 11 |
| 80 | Mulberry-like carbon spheres decorated with UiO-66-NH2 for enhancing the mechanical and tribological performances of UHMWPE composites. Tribology International, 2020, 141, 105916. | 5.9 | 11 |
| 81 | Enhanced highâ€ŧemperature tribological performance of <scp>PTFE</scp> / <scp>PI</scp> fabric composites by simultaneously introducing <scp>PDA</scp> / <scp>SiO₂</scp> hybrid coating and aramid product reinforcements. Polymer Composites, 2021, 42, 3539-3549. | 4.6 | 10 |
| 82 | Ag nanoparticles homogeneously anchored on kaolin synergistically improve the tribological performance of PBO/phenolic resin liner composites. Tribology International, 2022, 168, 107424. | 5.9 | 10 |
| 83 | Growth of NiFe-layered double hydroxide nano-sheet arrays on hybrid textile for highly tribological performances of self-lubricating liner composites. Tribology International, 2019, 133, 12-20. | 5.9 | 9 |
| 84 | Constructing the hierarchical TiN@ZIF-8 hybrid for improving the mechanical and tribological performance of fabric composites. Composites Communications, 2022, 31, 101114. | 6.3 | 9 |
| 85 | A facile method for imparting superoleophobicity to polymer substrates. Applied Physics A: Materials Science and Processing, 2014, 114, 1129-1133. | 2.3 | 8 |
| 86 | Crackâ€Free Drying of Ceramic Microparts on a Hydrophobic Flexible Polymer Substrate Using Soft Lithography. Journal of the American Ceramic Society, 2016, 99, 1141-1143. | 3.8 | 8 |
| 87 | <scp>MoS₂</scp> â€decorated talc hybrid for improving the tribological property of Nomex/ <scp>PTFE</scp> fabric composites. Polymer Composites, 2021, 42, 5839-5849. | 4.6 | 8 |
| 88 | Liquid-like transparent and flexible coatings for anti-graffiti applications. Progress in Organic Coatings, 2021, 161, 106476. | 3.9 | 8 |
| 89 | CuO nanowires uniformly grown on carbon cloth to improve mechanical and tribological properties of polyimide composites. Materials Chemistry and Physics, 2022, 281, 125852. | 4.0 | 8 |
| 90 | Graphene enhanced and in situ-formed alginate hydrogels for reducing friction and wear of polymers. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 589, 124434. | 4.7 | 7 |

| # | Article | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | Influence of Surface Modification on Tribo-Performance of Hybrid Glass/PTFE Fabric Composite with Phenolic Resin Binder. Applied Composite Materials, 2007, 14, 223-234. | 2.5 | 6 |
| 92 | A comparative study on wear and friction characteristics of phenolic composite coatings filled with different morphologies ZnO. Polymers for Advanced Technologies, 2019, 30, 1173-1181. | 3.2 | 6 |
| 93 | Reversible Switching of Surface Wettability and Water Adhesion on a Polymer Nano-composite Coating. Journal of Adhesion Science and Technology, 2012, 26, 1083-1091. | 2.6 | 5 |
| 94 | Rapid fabrication of a transparent superhydrophobic coating: potential application with pollution-free under construction. Applied Physics A: Materials Science and Processing, 2020, 126, 1. | 2.3 | 5 |
| 95 | Surface modification of YS-20 with polydopamine for improving the tribological properties of polyimide composites. Friction, 0, , 1. | 6.4 | 5 |
| 96 | Well-ordered polymer nano-fibers with self-cleaning property by disturbing crystallization process. Nanoscale Research Letters, 2014, 9, 352. | 5.7 | 4 |
| 97 | Fabrication of alumina micromixer with twoâ€dimensional serpentine microchannels by centrifugeâ€assisted micromoulding. Micro and Nano Letters, 2015, 10, 703-706. | 1.3 | 4 |
| 98 | One-step foaming method to functional polyurethane absorbents foam. Separation Science and Technology, 2016, 51, 1299-1306. | 2.5 | 4 |
| 99 | Hybrid Fabric/Molybdic Acid-Modified Phenolic Resin Composites with Improved Antiwear Properties. Tribology Transactions, 2016, 59, 244-251. | 2.0 | 4 |
| 100 | Combined effects of interface modification and nanoâ€reinforcement <i>via</i> nanoâ€enhanced interphase in hybridâ€fabric composites for tribological applications. Polymer Composites, 2019, 40, 3383-3392. | 4.6 | 4 |
| 101 | Influence of fabric geometry on yarn pullâ€out property and wear performance of hybrid Sâ€glass/ <scp>PTFE</scp> fabricâ€reinforced composites. Polymers for Advanced Technologies, 2021, 32, 315-325. | 3.2 | 4 |
| 102 | Combined effect of interfacial modification and α-ZrP reinforcement on the tribological properties of PPS fabric/phenolic composites. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 648, 129118. | 4.7 | 4 |
| 103 | Superhydrophobic CdS–melamine elastomer catalyst design with evaluation of its pollutant degradation performance under visible light. Applied Physics A: Materials Science and Processing, 2019, 125, 1. | 2.3 | 3 |
| 104 | Synergy of B 4 C @ MoS 2 hybrid for significantly improved mechanical and tribological properties of PI / PTFE fabric composites. Polymer Composites, 0, , . | 4.6 | 3 |
| 105 | Adopting bio-inspired interfacial modification and reinforcements simultaneously for optimizing the tribological performance of fabric composites. Tribology International, 2022, 169, 107495. | 5.9 | 3 |
| 106 | Design of Selfâ€Floating Photothermal Conversion Devices with Solar Steam Generation Capability. Advanced Materials Interfaces, 2022, 9, . | 3.7 | 3 |
| 107 | Switchable Adhesion of Superhydrophobic ZnO Nanorod Film. Journal of Macromolecular Science - Pure and Applied Chemistry, 2010, 47, 1091-1095. | 2.2 | 2 |
| 108 | Tribological properties of PBO fabric composites modified by poly (vinyl alcohol). Journal of Applied Polymer Science, 2013, 130, 1313-1320. | 2.6 | 1 |

| # | Article | IF | CITATIONS |
|-----|---|-----|-----------|
| 109 | The effect of oil fouling on the mechanical and tribological properties of nomex fabric/phenolic composite. Journal of Composite Materials, 2016, 50, 427-432. | 2.4 | Ο |
| 110 | Synchronously improved ozone aging resistance and tribological performance of selfâ€lubricating fabric composites via 2â€mercaptobenzimidazole. Polymer Composites, 0, , . | 4.6 | 0 |