

Zefang Wang

List of Publications by Year in descending order

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Version: 2024-02-01

36
papers

1,187
citations

430874

18
h-index

395702

33
g-index

40
all docs

40
docs citations

40
times ranked

2014
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Zika virus evades interferon-mediated antiviral response through the co-operation of multiple nonstructural proteins in vitro. <i>Cell Discovery</i> , 2017, 3, 17006. | 6.7 | 166 |
| 2 | Efficient biodegradation of highly crystallized polyethylene terephthalate through cell surface display of bacterial PETase. <i>Science of the Total Environment</i> , 2020, 709, 136138. | 8.0 | 103 |
| 3 | Mechanisms of Protein Adhesion on Surface Films of Hydrophobin. <i>Langmuir</i> , 2010, 26, 8491-8496. | 3.5 | 77 |
| 4 | Discovery of unsymmetrical aromatic disulfides as novel inhibitors of SARS-CoV main protease: Chemical synthesis, biological evaluation, molecular docking and 3D-QSAR study. <i>European Journal of Medicinal Chemistry</i> , 2017, 137, 450-461. | 5.5 | 75 |
| 5 | The crystal structure of Zika virus helicase: basis for antiviral drug design. <i>Protein and Cell</i> , 2016, 7, 450-454. | 11.0 | 72 |
| 6 | Structural basis of Zika virus helicase in recognizing its substrates. <i>Protein and Cell</i> , 2016, 7, 562-570. | 11.0 | 72 |
| 7 | Mechanisms of activation and inhibition of Zika virus NS2B-NS3 protease. <i>Cell Research</i> , 2016, 26, 1260-1263. | 12.0 | 71 |
| 8 | Hypersonic Poration: A New Versatile Cell Poration Method to Enhance Cellular Uptake Using a Piezoelectric Nano-€Electromechanical Device. <i>Small</i> , 2017, 13, 1602962. | 10.0 | 53 |
| 9 | Protein HGFI from the edible mushroom <i>Grifola frondosa</i> is a novel 8â€..kDa class I hydrophobin that forms rodlets in compressed monolayers. <i>Microbiology (United Kingdom)</i> , 2008, 154, 1677-1685. | 1.8 | 48 |
| 10 | Hydrophilic modification of polystyrene with hydrophobin for time-resolved immunofluorometric assay. <i>Biosensors and Bioelectronics</i> , 2010, 26, 1074-1079. | 10.1 | 45 |
| 11 | Expression and characterization of a <i>Grifola frondosa</i> hydrophobin in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2010, 72, 19-25. | 1.3 | 43 |
| 12 | Structural and mechanistic insights into the complexes formed by <i>Wolbachia</i> cytoplasmic incompatibility factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 33 |
| 13 | Effective Bioactivity Retention of Low-Concentration Antibodies on HFBI-Modified Fluorescence ICTS for Sensitive and Rapid Detection of PSA. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 14549-14558. | 8.0 | 29 |
| 14 | A Mutation Identified in Neonatal Microcephaly Destabilizes Zika Virus NS1 Assembly in Vitro. <i>Scientific Reports</i> , 2017, 7, 42580. | 3.3 | 28 |
| 15 | Structural basis for GTP-induced dimerization and antiviral function of guanylate-binding proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 28 |
| 16 | Structural insight into the Zika virus capsid encapsulating the viral genome. <i>Cell Research</i> , 2018, 28, 497-499. | 12.0 | 26 |
| 17 | The crystal structure of main protease from mouse hepatitis virus A59 in complex with an inhibitor. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 794-799. | 2.1 | 25 |
| 18 | The conformational changes of Zika virus methyltransferase upon converting SAM to SAH. <i>Oncotarget</i> , 2017, 8, 14830-14834. | 1.8 | 24 |

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|----|---|------|-----------|
| 19 | One-step exfoliation and functionalization of graphene by hydrophobin for high performance water molecular sensing. <i>Carbon</i> , 2017, 116, 695-702. | 10.3 | 20 |
| 20 | Mechanism of ATP hydrolysis by the Zika virus helicase. <i>FASEB Journal</i> , 2018, 32, 5250-5257. | 0.5 | 20 |
| 21 | Dual-functional protein for one-step production of a soluble and targeted fluorescent dye. <i>Theranostics</i> , 2018, 8, 3111-3125. | 10.0 | 17 |
| 22 | Prokaryotic expression, purification, and polyclonal antibody production of a hydrophobin from <i>Grifola frondosa</i> . <i>Acta Biochimica Et Biophysica Sinica</i> , 2010, 42, 388-395. | 2.0 | 15 |
| 23 | Crystal Structures of Wolbachia CidA and CidB Reveal Determinants of Bacteria-induced Cytoplasmic Incompatibility and Rescue. <i>Nature Communications</i> , 2022, 13, 1608. | 12.8 | 15 |
| 24 | Self-assembled hydrophobin for producing water-soluble and membrane permeable fluorescent dye. <i>Scientific Reports</i> , 2016, 6, 23061. | 3.3 | 14 |
| 25 | Ultra-rapid modulation of neurite outgrowth in a gigahertz acoustic streaming system. <i>Lab on A Chip</i> , 2021, 21, 1948-1955. | 6.0 | 11 |
| 26 | A Rapid and Ultrasensitive Thrombin Biosensor Based on a Rationally Designed Trifunctional Protein. <i>Advanced Healthcare Materials</i> , 2020, 9, e2000364. | 7.6 | 9 |
| 27 | The self-assembly of monosubstituted BODIPY and HFBI-RGD. <i>RSC Advances</i> , 2018, 8, 21472-21479. | 3.6 | 8 |
| 28 | Yeast cell surface display of bacterial PET hydrolase as a sustainable biocatalyst for the degradation of polyethylene terephthalate. <i>Methods in Enzymology</i> , 2021, 648, 457-477. | 1.0 | 8 |
| 29 | Hydrophobin-functionalized film bulk acoustic wave resonators for sensitive and polarity-sensitive sensing of volatile organic compounds. <i>Applied Physics Letters</i> , 2019, 115, . | 3.3 | 4 |
| 30 | Crystal structure of the NS3 helicase of tick-borne encephalitis virus. <i>Biochemical and Biophysical Research Communications</i> , 2020, 528, 601-606. | 2.1 | 4 |
| 31 | An ultra-red fluorescent biosensor for highly sensitive and rapid detection of biliverdin. <i>Analytica Chimica Acta</i> , 2021, 1174, 338709. | 5.4 | 3 |
| 32 | The Structure of the Porcine Deltacoronavirus Main Protease Reveals a Conserved Target for the Design of Antivirals. <i>Viruses</i> , 2022, 14, 486. | 3.3 | 3 |
| 33 | Benzene Derivatives from Ink Lead to False Positive Results in Neonatal Hyperphenylalaninemia Screening with Ninhydrin Fluorometric Method. <i>International Journal of Neonatal Screening</i> , 2020, 6, 14. | 3.2 | 2 |
| 34 | Soluble hydrophobin mutants produced in <i>Escherichia coli</i> can self-assemble at various interfaces. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 384-395. | 9.4 | 2 |
| 35 | Crystallization and preliminary crystallographic study of Porcine epidemic diarrhea virus main protease in complex with an inhibitor. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2014, 70, 1608-1611. | 0.8 | 0 |
| 36 | Structural Basis of Zika Virus Helicase in RNA Unwinding and ATP Hydrolysis. <i>ACS Infectious Diseases</i> , 2022, 8, 150-158. | 3.8 | 0 |