# Sony Malhotra

List of Publications by Year
in descending order



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|---|---|---|---|
| 29 papers | 844 citations | 516710 16 h-index | 526287 27 g-index |
| 32 all docs | 32 docs citations | 32 times ranked | 1423 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Refinement of atomic models in high resolution EM reconstructions using Flex-EM and local assessment. Methods, 2016, 100, 42-49. | 3.8 | 101 |
| 2 | Stepwise pathogenic evolution of Mycobacterium abscessus. Science, 2021, 372, . | 12.6 | 91 |
| 3 | Clinical and molecular characterization of KCNT1 -related severe early-onset epilepsy. Neurology, 2018, 90, e55-e66. | 1.1 | 89 |
| 4 | KMT2B-related disorders: expansion of the phenotypic spectrum and long-term efficacy of deep brain stimulation. Brain, 2020, 143, 3242-3261. | 7.6 | 57 |
| 5 | Modelling structures in cryo-EM maps. Current Opinion in Structural Biology, 2019, 58, 105-114. | 5.7 | 53 |
| 6 | Structural Implications of Mutations Conferring Rifampin Resistance in Mycobacterium leprae. Scientific Reports, 2018, 8, 5016. | 3.3 | 41 |
| 7 | Structural Biology and the Design of New Therapeutics: From HIV and Cancer to Mycobacterial Infections. Journal of Molecular Biology, 2017, 429, 2677-2693. | 4.2 | 39 |
| 8 | Decoding the similarities and differences among mycobacterial species. PLoS Neglected Tropical Diseases, 2017, 11, e0005883. | 3.0 | 37 |
| 9 | Identification of new allosteric sites and modulators of AChE through computational and experimental tools. Journal of Enzyme Inhibition and Medicinal Chemistry, 2018, 33, 1034-1047. | 5.2 | 33 |
| 10 | Identification and Characterization of Genetic Determinants of Isoniazid and Rifampicin Resistance in Mycobacterium tuberculosis in Southern India. Scientific Reports, 2019, 9, 10283. | 3.3 | 32 |
| 11 | TEMPy2: a Python library with improved 3D electron microscopy density-fitting and validation workflows. Acta Crystallographica Section D: Structural Biology, 2021, 77, 41-47. | 2.3 | 32 |
| 12 | Computational saturation mutagenesis to predict structural consequences of systematic mutations in the beta subunit of RNA polymerase in Mycobacterium leprae. Computational and Structural Biotechnology Journal, 2020, 18, 271-286. | 4.1 | 27 |
| 13 | Mycobacterial genomics and structural bioinformatics: opportunities and challenges in drug discovery. Emerging Microbes and Infections, 2019, 8, 109-118. | 6.5 | 26 |
| 14 | Cryoâ€electron microscopy targets in CASP13: Overview and evaluation of results. Proteins: Structure, Function and Bioinformatics, 2019, 87, 1128-1140. | 2.6 | 21 |
| 15 | Fragment-based discovery of a new class of inhibitors targeting mycobacterial tRNA modification. Nucleic Acids Research, 2020, 48, 8099-8112. | 14.5 | 20 |
| 16 | Assessment of proteinâ€“protein interfaces in cryo-EM derived assemblies. Nature Communications, 2021, 12, 3399. | 12.8 | 20 |
| 17 | ProCarbDB: a database of carbohydrate-binding proteins. Nucleic Acids Research, 2020, 48, D368-D375. | 14.5 | 17 |
| 18 | Combining Information from Crosslinks and Monolinks in the Modeling of Protein Structures. Structure, 2020, 28, 1061-1070.e3. | 3.3 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | HARP: a database of structural impacts of systematic missense mutations in drug targets of Mycobacterium leprae. Computational and Structural Biotechnology Journal, 2020, 18, 3692-3704. | 4.1 | 16 |
| 20 | Disruption of a Structurally Important Extracellular Element in the Glycine Receptor Leads to Decreased Synaptic Integration and Signaling Resulting in Severe Startle Disease. Journal of Neuroscience, 2017, 37, 7948-7961. | 3.6 | 15 |
| 21 | The current structural glycome landscape and emerging technologies. Current Opinion in Structural Biology, 2020, 62, 132-139. | 5.7 | 13 |
| 22 | Understanding the impacts of missense mutations on structures and functions of human cancer-related genes: A preliminary computational analysis of the COSMIC Cancer Gene Census. PLoS ONE, 2019, 14, e0219935. | 2.5 | 10 |
| 23 | The pore conformation of lymphocyte perforin. Science Advances, 2022, 8, eabk3147. | 10.3 | 10 |
| 24 | Structural Interface Parameters Are Discriminatory in Recognising Near-Native Poses of Protein-Protein Interactions. PLoS ONE, 2014, 9, e80255. | 2.5 | 9 |
| 25 | Atomic model validation using the CCP-EM software suite. Acta Crystallographica Section D: Structural Biology, 2022, 78, 152-161. | 2.3 | 7 |
| 26 | TIBLE: a web-based, freely accessible resource for small-molecule binding data for mycobacterial species. Database: the Journal of Biological Databases and Curation, 2017, 2017, . | 3.0 | 5 |
| 27 | Structure-Guided Computational Approaches to Unravel Druggable Proteomic Landscape of Mycobacterium leprae. Frontiers in Molecular Biosciences, 2021, 8, 663301. | 3.5 | 2 |
| 28 | Structure-guided, target-based drug discovery - exploiting genome information from HIV to mycobacterial infections. Postepy Biochemii, 2016, 62, 262-272. | 0.2 | 2 |
| 29 | Editorial overview: Carbohydrates â€“ structural glycobiology catches the wave of rapid progress. Current Opinion in Structural Biology, 2020, 62, iii-v. | 5.7 | 1 |