Matthias Schmidt

List of Publications by Year
in descending order

17 papers	1,415 citations	687363 13 h-index	888059 17 g-index
18 all docs	18 docs citations	18 times ranked	1613 citing authors

#	Article	IF	Citations
1	Cryo-EM structure and polymorphism of AÎ² amyloid fibrils purified from Alzheimerâ€™s brain tissue. Nature Communications, 2019, 10, 4760.	12.8	411
2	Physical basis of amyloid fibril polymorphism. Nature Communications, 2018, 9, 699.	12.8	133
3	Cryo-EM structure of a transthyretin-derived amyloid fibril from a patient with hereditary ATTR amyloidosis. Nature Communications, 2019, 10, 5008.	12.8	127
4	Cryo-EM structure of a light chain-derived amyloid fibril from a patient with systemic AL amyloidosis. Nature Communications, 2019, 10, 1103.	12.8	120
5	Cryo-EM fibril structures from systemic AA amyloidosis reveal the species complementarity of pathological amyloids. Nature Communications, 2019, 10, 1104.	12.8	113
6	Polymorphism of Amyloid Fibrils In Vivo. Angewandte Chemie - International Edition, 2016, 55, 4822-4825.	13.8	109
7	Cryo-EM reveals structural breaks in a patient-derived amyloid fibril from systemic AL amyloidosis. Nature Communications, 2021, 12, 875.	12.8	70
8	Cryo-EM reveals the steric zipper structure of a light chain-derived amyloid fibril. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6200-6205.	7.1	61
9	AA amyloid fibrils from diseased tissue are structurally different from in vitro formed SAA fibrils. Nature Communications, 2021, 12, 1013.	12.8	60
10	Common Fibril Structures Imply Systemically Conserved Protein Misfolding Pathways Inâ€…Vivo. Angewandte Chemie - International Edition, 2017, 56, 7510-7514.	13.8	59
11	Electron tomography reveals the fibril structure and lipid interactions in amyloid deposits. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5604-5609.	7.1	56
12	Role of mutations and post-translational modifications in systemic AL amyloidosis studied by cryo-EM. Nature Communications, 2021, 12, 6434.	12.8	36
13	Opal-like Multicolor Appearance of Self-Assembled Photonic Array. ACS Applied Materials & Interfaces, 2018, 10, 20783-20789.	8.0	17
14	Cryo-EM demonstrates the in vitro proliferation of an ex vivo amyloid fibril morphology by seeding. Nature Communications, 2022, 13, 85.	12.8	15
15	Common Fibril Structures Imply Systemically Conserved Protein Misfolding Pathways Inâ€…Vivo. Angewandte Chemie, 2017, 129, 7618-7622.	2.0	10
16	Methods to study the structure of misfolded protein states in systemic amyloidosis. Biochemical Society Transactions, 2021, 49, 977-985.	3.4	9
17	Automatic identification of crossovers in cryoâ€EM images of murine amyloid protein A fibrils with machine learning. Journal of Microscopy, 2020, 277, 12-22.	1.8	7