

David R Boyer

List of Publications by Year in descending order

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Version: 2024-02-01

17
papers

2,151
citations

516561

16
h-index

839398

18
g-index

27
all docs

27
docs citations

27
times ranked

2463
citing authors

#	ARTICLE	IF	CITATIONS
1	Cryo-EM of full-length $\hat{\alpha}$ -synuclein reveals fibril polymorphs with a common structural kernel. Nature Communications, 2018, 9, 3609.	5.8	468
2	Atomic structures of low-complexity protein segments reveal kinked $\hat{\beta}^2$ sheets that assemble networks. Science, 2018, 359, 698-701.	6.0	376
3	Cryo-EM structures of four polymorphic TDP-43 amyloid cores. Nature Structural and Molecular Biology, 2019, 26, 619-627.	3.6	205
4	Atomic structures of TDP-43 LCD segments and insights into reversible or pathogenic aggregation. Nature Structural and Molecular Biology, 2018, 25, 463-471.	3.6	183
5	Structures of fibrils formed by $\hat{\alpha}$ -synuclein hereditary disease mutant H50Q reveal new polymorphs. Nature Structural and Molecular Biology, 2019, 26, 1044-1052.	3.6	127
6	The $\hat{\alpha}$ -synuclein hereditary mutation E46K unlocks a more stable, pathogenic fibril structure. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3592-3602.	3.3	122
7	Cryo-EM structure and inhibitor design of human IAPP (amylin) fibrils. Nature Structural and Molecular Biology, 2020, 27, 653-659.	3.6	98
8	Atomic-level evidence for packing and positional amyloid polymorphism by segment from TDP-43 RRM2. Nature Structural and Molecular Biology, 2018, 25, 311-319.	3.6	89
9	Sub-Ångström cryo-EM structure of a prion protofibril reveals a polar clasp. Nature Structural and Molecular Biology, 2018, 25, 131-134.	3.6	87
10	CryoEM structure of the low-complexity domain of hnRNPA2 and its conversion to pathogenic amyloid. Nature Communications, 2020, 11, 4090.	5.8	81
11	Structure-based inhibitors halt prion-like seeding by Alzheimer's disease and tauopathy derived brain tissue samples. Journal of Biological Chemistry, 2019, 294, 16451-16464.	1.6	51
12	Cryo-EM structures of hIAPP fibrils seeded by patient-extracted fibrils reveal new polymorphs and conserved fibril cores. Nature Structural and Molecular Biology, 2021, 28, 724-730.	3.6	48
13	Nanoscale mosaicity revealed in peptide microcrystals by scanning electron nanodiffraction. Communications Biology, 2019, 2, 26.	2.0	47
14	Structure of amyloid- $\hat{\beta}^2$ (20-34) with Alzheimer's-associated isomerization at Asp23 reveals a distinct protofilament interface. Nature Communications, 2019, 10, 3357.	5.8	45
15	Intrinsic electronic conductivity of individual atomically resolved amyloid crystals reveals micrometer-long hole hopping via tyrosines. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	45
16	Cryo-EM structure of RNA-induced tau fibrils reveals a small C-terminal core that may nucleate fibril formation. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119952119.	3.3	38
17	Ultrafast Time-Resolved Studies on Fluorescein for Recognition Strands Architecture in Amyloid Fibrils. Journal of Physical Chemistry B, 2018, 122, 8-18.	1.2	6