

Owen R Davies

List of Publications by Year in descending order

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Version: 2024-02-01

34
papers

1,921
citations

279798

23
h-index

377865

34
g-index

49
all docs

49
docs citations

49
times ranked

2974
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction with the BRCA2 C terminus protects RAD51â€™DNA filaments from disassembly by BRC repeats. <i>Nature Structural and Molecular Biology</i> , 2007, 14, 475-483.	8.2	198
2	Structural analysis and classification of native proteins from <i>E. coli</i> commonly co-purified by immobilised metal affinity chromatography. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2006, 1760, 1304-1313.	2.4	174
3	Control of TSC2-Rheb signaling axis by arginine regulates mTORC1 activity. <i>ELife</i> , 2016, 5, .	6.0	147
4	Structural biology and bioinformatics in drug design: opportunities and challenges for target identification and lead discovery. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 413-423.	4.0	140
5	A molecular model for the role of SYCP3 in meiotic chromosome organisation. <i>ELife</i> , 2014, 3, .	6.0	113
6	Crystal structure of human XLF/Cernunnos reveals unexpected differences from XRCC4 with implications for NHEJ. <i>EMBO Journal</i> , 2008, 27, 290-300.	7.8	106
7	C14ORF39/SIX6OS1 is a constituent of the synaptonemal complex and is essential for mouse fertility. <i>Nature Communications</i> , 2016, 7, 13298.	12.8	80
8	A region of human BRCA2 containing multiple BRC repeats promotes RAD51-mediated strand exchange. <i>Nucleic Acids Research</i> , 2006, 34, 4000-4011.	14.5	73
9	Structural basis of meiotic chromosome synapsis through SYCP1 self-assembly. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 557-569.	8.2	67
10	Structural analysis of the human SYCE2â€™TEX12 complex provides molecular insights into synaptonemal complex assembly. <i>Open Biology</i> , 2012, 2, 120099.	3.6	66
11	CtIP tetramer assembly is required for DNA-end resection and repair. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 150-157.	8.2	63
12	Structure of an Xrcc4â€™DNA ligase IV yeast ortholog complex reveals a novel BRCT interaction mode. <i>DNA Repair</i> , 2006, 5, 362-368.	2.8	60
13	Tcf15 Primes Pluripotent Cells for Differentiation. <i>Cell Reports</i> , 2013, 3, 472-484.	6.4	56
14	SUMO is a pervasive regulator of meiosis. <i>ELife</i> , 2021, 10, .	6.0	50
15	Molecular structure of human synaptonemal complex protein SYCE1. <i>Chromosoma</i> , 2019, 128, 223-236.	2.2	42
16	The BRCA2-MEILB2-BRME1 complex governs meiotic recombination and impairs the mitotic BRCA2-RAD51 function in cancer cells. <i>Nature Communications</i> , 2020, 11, 2055.	12.8	42
17	An Engineered Complement Factor H Construct for Treatment of C3 Glomerulopathy. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 1649-1661.	6.1	41
18	Aneuploidy in Oocytes Is Prevented by Sustained CDK1 Activity through Degron Masking in Cyclin B1. <i>Developmental Cell</i> , 2019, 48, 672-684.e5.	7.0	39

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19	Defining the Molecular Basis of BubR1 Kinetochore Interactions and APC/C-CDC20 Inhibition. <i>Journal of Biological Chemistry</i> , 2010, 285, 14764-14776.	3.4	37
20	Structural basis of meiotic telomere attachment to the nuclear envelope by MAJIN-TERB2-TERB1. <i>Nature Communications</i> , 2018, 9, 5355.	12.8	37
21	Single-molecule observation of DNA compaction by meiotic protein SYCP3. <i>ELife</i> , 2017, 6, .	6.0	36
22	Crossover recombination and synapsis are linked by adjacent regions within the N terminus of the Zip1 synaptonemal complex protein. <i>PLoS Genetics</i> , 2019, 15, e1008201.	3.5	31
23	Meiotic chromosome synapsis depends on multivalent SYCE1-SIX6OS1 interactions that are disrupted in cases of human infertility. <i>Science Advances</i> , 2020, 6, .	10.3	31
24	A molecular model for self-assembly of the synaptonemal complex protein SYCE3. <i>Journal of Biological Chemistry</i> , 2019, 294, 9260-9275.	3.4	27
25	A molecular mechanism for LINC complex branching by structurally diverse SUN-KASH 6:6 assemblies. <i>ELife</i> , 2021, 10, .	6.0	25
26	Structural basis of meiotic chromosome synaptic elongation through hierarchical fibrous assembly of SYCE2-TEX12. <i>Nature Structural and Molecular Biology</i> , 2021, 28, 681-693.	8.2	23
27	Target highlights in CASP13: Experimental target structures through the eyes of their authors. <i>Proteins: Structure, Function and Bioinformatics</i> , 2019, 87, 1037-1057.	2.6	12
28	Structural basis for the coiled-coil architecture of human CtIP. <i>Open Biology</i> , 2021, 11, 210060.	3.6	11
29	Obtaining Tertiary Protein Structures by the ab Initio Interpretation of Small Angle X-ray Scattering Data. <i>Journal of Chemical Theory and Computation</i> , 2020, 16, 1985-2001.	5.3	10
30	A prometaphase mechanism of securin destruction is essential for meiotic progression in mouse oocytes. <i>Nature Communications</i> , 2021, 12, 4322.	12.8	10
31	Centrosome dysfunction associated with somatic expression of the synaptonemal complex protein TEX12. <i>Communications Biology</i> , 2021, 4, 1371.	4.4	10
32	Extending the scope of coiled-coil crystal structure solution by <i>AMPLE</i> through improved <i>ab initio</i> modelling. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 272-284.	2.3	7
33	Helical ensembles outperform ideal helices in molecular replacement. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 962-970.	2.3	2
34	AB Initio Tertiary Structure Prediction from Small Angle Scattering Data. <i>Biophysical Journal</i> , 2020, 118, 481a.	0.5	0