

# DirkÂ Roeland Boer

## List of Publications by Year in descending order

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31  
papers

1,690  
citations

471509

17  
h-index

414414

32  
g-index

34  
all docs

34  
docs citations

34  
times ranked

2634  
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural and biochemical characterization of the relaxosome auxiliary proteins encoded on the <i>Bacillus subtilis</i> plasmid pLS20. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 757-765.	4.1	0
2	Multiple Layered Control of the Conjugation Process of the <i>Bacillus subtilis</i> Plasmid pLS20. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 648468.	3.5	15
3	Inactivation of the dimeric RappLS20 anti-repressor of the conjugation operon is mediated by peptide-induced tetramerization. <i>Nucleic Acids Research</i> , 2020, 48, 8113-8127.	14.5	4
4	Architecture of DNA elements mediating ARF transcription factor binding and auxin-responsive gene expression in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 24557-24566.	7.1	53
5	Molecular mechanism of light-driven sodium pumping. <i>Nature Communications</i> , 2020, 11, 2137.	12.8	67
6	Design principles of a minimal auxin response system. <i>Nature Plants</i> , 2020, 6, 473-482.	9.3	71
7	<i>MXCuBE2</i> : the dawn of <i>MXCuBE</i> Collaboration. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 393-405.	2.4	30
8	Differential Inhibition of Human and Trypanosome Ubiquitin E1S by TAK-243 Offers Possibilities for Parasite Selective Inhibitors. <i>Scientific Reports</i> , 2019, 9, 16195.	3.3	9
9	Novel regulatory mechanism of establishment genes of conjugative plasmids. <i>Nucleic Acids Research</i> , 2018, 46, 11910-11926.	14.5	8
10	Discovery of a new family of relaxases in Firmicutes bacteria. <i>PLoS Genetics</i> , 2017, 13, e1006586.	3.5	49
11	Structural basis of a histidine-DNA nicking/joining mechanism for gene transfer and promiscuous spread of antibiotic resistance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E6526-E6535.	7.1	27
12	Conformational plasticity of RepB, the replication initiator protein of promiscuous streptococcal plasmid pMV158. <i>Scientific Reports</i> , 2016, 6, 20915.	3.3	11
13	A C2HC zinc finger is essential for the RING-E2 interaction of the ubiquitin ligase RNF125. <i>Scientific Reports</i> , 2016, 6, 29232.	3.3	20
14	The crystallography stations at the Alba synchrotron. <i>European Physical Journal Plus</i> , 2015, 130, 1.	2.6	96
15	Thread Insertion of a Bis(dipyridophenazine) Diruthenium Complex into the DNA Double Helix by the Extrusion of AT Base Pairs and Cross-linking of DNA Duplexes. <i>Angewandte Chemie - International Edition</i> , 2014, 53, 1949-1952.	13.8	42
16	Structural Basis for DNA Binding Specificity by the Auxin-Dependent ARF Transcription Factors. <i>Cell</i> , 2014, 156, 577-589.	28.9	348
17	Nicking activity of the pMV158 MobM relaxase on cognate and heterologous origins of transfer. <i>Plasmid</i> , 2013, 70, 120-130.	1.4	12
18	Functional Properties and Structural Requirements of the Plasmid pMV158-Encoded MobM Relaxase Domain. <i>Journal of Bacteriology</i> , 2013, 195, 3000-3008.	2.2	7

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19	Self-Assembly of Functionalizable Two-Component 3D DNA Arrays through the Induced Formation of DNA Three-Way Junction Branch Points by Supramolecular Cylinders. <i>Angewandte Chemie - International Edition</i> , 2010, 49, 2336-2339.	13.8	65
20	Cobalt-, zinc- and iron-bound forms of adenylate kinase (AK) from the sulfate-reducing bacterium <i>Desulfovibrio gigas</i> : purification, crystallization and preliminary X-ray diffraction analysis. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2009, 65, 926-929.	0.7	4
21	Plasmid replication initiator RepB forms a hexamer reminiscent of ring helicases and has mobile nuclease domains. <i>EMBO Journal</i> , 2009, 28, 1666-1678.	7.8	45
22	DNA-binding drugs caught in action: the latest 3D pictures of drug-DNA complexes. <i>Dalton Transactions</i> , 2009, , 399-414.	3.3	153
23	Correlating EPR and X-ray structural analysis of arsenite-inhibited forms of aldehyde oxidoreductase. <i>Journal of Biological Inorganic Chemistry</i> , 2007, 12, 353-366.	2.6	15
24	Unveiling the Molecular Mechanism of a Conjugative Relaxase: The Structure of TrwC Complexed with a 27-mer DNA Comprising the Recognition Hairpin and the Cleavage Site. <i>Journal of Molecular Biology</i> , 2006, 358, 857-869.	4.2	68
25	Molecular Recognition of a Three-Way DNA Junction by a Metallo-supramolecular Helicate. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1227-1231.	13.8	278
26	Molecular Recognition of a Three-Way DNA Junction by a Metallo-supramolecular Helicate. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 1834-1834.	13.8	2
27	On the purification and preliminary crystallographic analysis of isoquinoline 1-oxidoreductase from <i>Brevundimonas diminuta</i> . <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2005, 61, 137-140.	0.7	6
28	X-ray Crystal Structure and EPR Spectra of $\alpha$ -Arsenite-Inhibited <i>Desulfovibrio gigas</i> Aldehyde Dehydrogenase: A Member of the Xanthine Oxidase Family. <i>Journal of the American Chemical Society</i> , 2004, 126, 8614-8615.	13.7	35
29	Superstar: comparison of CSD and PDB-based interaction fields as a basis for the prediction of protein-ligand interactions 1 Edited by R. Huber. <i>Journal of Molecular Biology</i> , 2001, 312, 275-287.	4.2	40
30	Relation between the molecular electrostatic potential and activity of some FF-MAS related sterol compounds. <i>Bioorganic and Medicinal Chemistry</i> , 2001, 9, 2653-2659.	3.0	6
31	Calculated heats of formation of sterol diene isomers compared with synthetic yields of isomerisation reactions of $\Delta^5,7$ sterols. <i>Perkin Transactions II RSC</i> , 2000, , 1701-1704.	1.1	5