

# Renee Otten

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

1,668  
citations

331670

21  
h-index

477307

29  
g-index

33  
all docs

33  
docs citations

33  
times ranked

2813  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Structure determination of high-energy states in a dynamic protein ensemble. <i>Nature</i> , 2022, 603, 528-535.   | 27.8 | 51        |
| 2  | How directed evolution reshapes the energy landscape in an enzyme to boost catalysis. <i>Science</i> , 2020, 370, 1442-1446.   | 12.6 | 101       |
| 3  | Probing the transition state in enzyme catalysis by high-pressure NMR dynamics. <i>Nature Catalysis</i> , 2019, 2, 726-734.  | 34.4 | 30        |
| 4  | Rescue of conformational dynamics in enzyme catalysis by directed evolution. <i>Nature Communications</i> , 2018, 9, 1314.   | 12.8 | 97        |
| 5  | Mechanism of activating mutations and allosteric drug inhibition of the phosphatase SHP2. <i>Nature Communications</i> , 2018, 9, 4507.  | 12.8 | 83        |
| 6  | Dynamics of human protein kinase Aurora A linked to drug selectivity. <i>ELife</i> , 2018, 7, .  | 6.0  | 37        |
| 7  | Comprehensive analysis of NMR data using advanced line shape fitting. <i>Journal of Biomolecular NMR</i> , 2017, 69, 93-99.  | 2.8  | 57        |
| 8  | Conformational Selection in a Protein-Protein Interaction Revealed by Dynamic Pathway Analysis. <i>Cell Reports</i> , 2016, 14, 32-42.   | 6.4  | 52        |
| 9  | Using ancient protein kinases to unravel a modern cancer drug's mechanism. <i>Science</i> , 2015, 347, 882-886.  | 12.6 | 142       |
| 10 | Cavity as a Source of Conformational Fluctuation and High-Energy State: High-Pressure NMR Study of a Cavity-Enlarged Mutant of T4Lysozyme. <i>Biophysical Journal</i> , 2015, 108, 133-145.  | 0.5  | 36        |
| 11 | The energy landscape of adenylate kinase during catalysis. <i>Nature Structural and Molecular Biology</i> , 2015, 22, 124-131.   | 8.2  | 150       |
| 12 | A minor conformation of a lanthanide tag on adenylate kinase characterized by paramagnetic relaxation dispersion NMR spectroscopy. <i>Journal of Biomolecular NMR</i> , 2015, 61, 123-136.   | 2.8  | 20        |
| 13 | Optimized co-solute paramagnetic relaxation enhancement for the rapid NMR analysis of a highly fibrillogenic peptide. <i>Journal of Biomolecular NMR</i> , 2015, 62, 129-142.                | 2.8  | 26        |
| 14 | Subpolar addition of new cell wall is directed by DivIVA in mycobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3243-51.      | 7.1  | 159       |
| 15 | Energetic dissection of Gleevec's selectivity toward human tyrosine kinases. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 848-853.   | 8.2  | 103       |
| 16 | The Solution Structure, Binding Properties, and Dynamics of the Bacterial Siderophore-binding Protein FepB. <i>Journal of Biological Chemistry</i> , 2014, 289, 29219-29234.                 | 3.4  | 29        |
| 17 | Protein Surface and Core Dynamics Show Concerted Hydration-Dependent Activation. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 665-668.                                       | 13.8 | 32        |
| 18 | Fluoride resistance and transport by riboswitch-controlled CLC antiporters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 15289-15294. | 7.1  | 125       |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Backbone and side chain NMR assignments for the intrinsically disordered cytoplasmic domain of human neuroligin-3. <i>Biomolecular NMR Assignments</i> , 2012, 6, 15-18.  | 0.8  | 7         |
| 20 | Long Unfolded Linkers Facilitate Membrane Protein Import Through the Nuclear Pore Complex. <i>Science</i> , 2011, 333, 90-93.   | 12.6 | 128       |
| 21 | Origin and removal of mixed-phase artifacts in gradient sensitivity enhanced heteronuclear single quantum correlation spectra. <i>Journal of Biomolecular NMR</i> , 2011, 51, 199-207.  | 2.8  | 9         |
| 22 | 100% complete assignment of non-labile <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N signals for calcium-loaded calbindin D9k P43G. <i>Biomolecular NMR Assignments</i> , 2011, 5, 79-84.  | 0.8  | 14        |
| 23 | Cystathionine $\beta$ -Synthase (CBS) Domains 1 and 2 Fulfill Different Roles in Ionic Strength Sensing of the ATP-binding Cassette (ABC) Transporter OpuA. <i>Journal of Biological Chemistry</i> , 2011, 286, 37280-37291.  | 3.4  | 18        |
| 24 | Comprehensive and Cost-Effective NMR Spectroscopy of Methyl Groups in Large Proteins. <i>Journal of the American Chemical Society</i> , 2010, 132, 2952-2960.   | 13.7 | 63        |
| 25 | Probing Microsecond Time Scale Dynamics in Proteins by Methyl <sup>1</sup> H Carrâ€”Purcellâ€”Meiboomâ€”Gill Relaxation Dispersion NMR Measurements. Application to Activation of the Signaling Protein NtrCr. <i>Journal of the American Chemical Society</i> , 2010, 132, 17004-17014.                | 13.7 | 48        |
| 26 | Comprehensive determination of <sup>3</sup> J <sub>HNH</sub> ± for unfolded proteins using <sup>13</sup> Câ€”resolved spin-echo difference spectroscopy. <i>Journal of Biomolecular NMR</i> , 2009, 45, 343-349.  | 2.8  | 10        |
| 27 | Evidence of molecular alignment fluctuations in aqueous dilute liquid crystalline media. <i>Journal of Biomolecular NMR</i> , 2007, 39, 141-152.  | 2.8  | 6         |
| 28 | Conformational Fluctuations Affect Protein Alignment in Dilute Liquid Crystal Media. <i>Journal of the American Chemical Society</i> , 2006, 128, 4371-4376.  | 13.7 | 26        |
| 29 | Letter to the Editor: <sup>1</sup> H, <sup>13</sup> C, and <sup>15</sup> N resonance assignments of the phosphorylated enzyme IIB of the mannitol-specific phosphoenolpyruvate-dependent phosphotransferase system of <i>Escherichia coli</i> . <i>Journal of Biomolecular NMR</i> , 2004, 30, 461-462. | 2.8  | 7         |