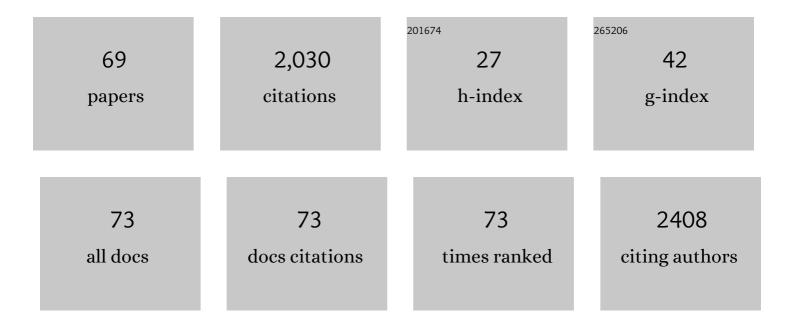
Jonathan G Heddle

List of Publications by Year in descending order

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IONATHAN C HEDDLE

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Crystal Structure of Hemoglobin Protease, a Heme Binding Autotransporter Protein from Pathogenic Escherichia coli. Journal of Biological Chemistry, 2005, 280, 17339-17345. | 3.4 | 156 |
| 2 | The antibiotic microcin B17 is a DNA gyrase poison: characterisation of the mode of inhibition11Edited by J. Karn. Journal of Molecular Biology, 2001, 307, 1223-1234. | 4.2 | 135 |
| 3 | An ultra-stable gold-coordinated protein cage displaying reversible assembly. Nature, 2019, 569, 438-442. | 27.8 | 124 |
| 4 | Quinolone-Binding Pocket of DNA Gyrase: Role of GyrB. Antimicrobial Agents and Chemotherapy, 2002, 46, 1805-1815. | 3.2 | 100 |
| 5 | A DNA aptamer recognising a malaria protein biomarker can function as part of a DNA origami assembly. Scientific Reports, 2016, 6, 21266. | 3.3 | 82 |
| 6 | The Interaction of Drugs with DNA Gyrase: A Model for the Molecular Basis of Quinolone Action. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 1249-1264. | 1.1 | 77 |
| 7 | Crystal Structures of the Liganded and Unliganded Nickel-binding Protein NikA from Escherichia coli. Journal of Biological Chemistry, 2003, 278, 50322-50329. | 3.4 | 77 |
| 8 | A Selfâ€Assembled Protein Nanotube with High Aspect Ratio. Small, 2009, 5, 2077-2084. | 10.0 | 73 |
| 9 | Nucleotide Binding to DNA Gyrase Causes Loss of DNA Wrap. Journal of Molecular Biology, 2004, 337, 597-610. | 4.2 | 70 |
| 10 | Three-Dimensional Protein Cage Array Capable of Active Enzyme Capture and Artificial Chaperone Activity. Nano Letters, 2019, 19, 3918-3924. | 9.1 | 69 |
| 11 | Natural and artificial protein cages: design, structure and therapeutic applications. Current Opinion in Structural Biology, 2017, 43, 148-155. | 5.7 | 54 |
| 12 | An aptamer-enabled DNA nanobox for protein sensing. Nanomedicine: Nanotechnology, Biology, and Medicine, 2018, 14, 1161-1168. | 3.3 | 46 |
| 13 | Protein cages, rings and tubes: useful components of future nanodevices?. Nanotechnology, Science and Applications, 2008, Volume 1, 67-78. | 4.6 | 42 |
| 14 | Gold Nanoparticle-Induced Formation of Artificial Protein Capsids. Nano Letters, 2012, 12, 2056-2059. | 9.1 | 42 |
| 15 | A novel classification system for evolutionary aging theories. Frontiers in Genetics, 2013, 4, 25. | 2.3 | 40 |
| 16 | Rounding up: Engineering 12-Membered Rings from the Cyclic 11-Mer TRAP. Structure, 2006, 14, 925-933. | 3.3 | 37 |
| 17 | Delivering DNA origami to cells. Nanomedicine, 2019, 14, 911-925. | 3.3 | 37 |
| 18 | Using the Ring‧haped Protein TRAP to Capture and Confine Gold Nanodots on a Surface Small, 2007, 3, 1950-1956. | 10.0 | 36 |

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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 19 | Protein Interface Pharmacophore Mapping Tools for Small Molecule Protein: Protein Interaction Inhibitor Discovery. Current Topics in Medicinal Chemistry, 2013, 13, 989-1001. | 2.1 | 35 |
| 20 | Orthogonal enzyme arrays on a DNA origami scaffold bearing size-tunable wells. Nanoscale, 2014, 6, 9122-9126. | 5.6 | 33 |
| 21 | DNA Aptamers for the Functionalisation of DNA Origami Nanostructures. Genes, 2018, 9, 571. | 2.4 | 32 |
| 22 | Effect of PEGylation on Controllably Spaced Adsorption of Ferritin Molecules. Langmuir, 2013, 29, 12737-12743. | 3.5 | 31 |
| 23 | Artificial protein cages – inspiration, construction, and observation. Current Opinion in Structural Biology, 2020, 64, 66-73. | 5.7 | 30 |
| 24 | gyrB-225, a mutation of DNA gyrase that compensates for topoisomerase I deficiency: investigation of its low activity and quinolone hypersensitivity. Journal of Molecular Biology, 2001, 309, 1219-1231. | 4.2 | 29 |
| 25 | Effect of N-terminal Residues on the Structural Stability of Recombinant Horse L-chain Apoferritin in an Acidic Environment. Journal of Biochemistry, 2007, 142, 707-713. | 1.7 | 29 |
| 26 | Probing Structural Dynamics of an Artificial Protein Cage Using High-Speed Atomic Force Microscopy. Nano Letters, 2015, 15, 1331-1335. | 9.1 | 29 |
| 27 | Enzyme encapsulation by protein cages. RSC Advances, 2020, 10, 13293-13301. | 3.6 | 29 |
| 28 | Gold Nanoparticle-Biological Molecule Interactions and Catalysis. Catalysts, 2013, 3, 683-708. | 3.5 | 28 |
| 29 | The nature of the TRAP–Anti-TRAP complex. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2176-2181. | 7.1 | 27 |
| 30 | Molecular mechanism of SbmA, a promiscuous transporter exploited by antimicrobial peptides. Science Advances, 2021, 7, eabj5363. | 10.3 | 27 |
| 31 | Dynamic Allostery in the Ring Protein TRAP. Journal of Molecular Biology, 2007, 371, 154-167. | 4.2 | 24 |
| 32 | Chemically induced protein cage assembly with programmable opening and cargo release. Science Advances, 2022, 8, eabj9424. | 10.3 | 24 |
| 33 | Programmable polymorphism of a virus-like particle. Communications Materials, 2022, 3, 7. | 6.9 | 22 |
| 34 | Squaring up to DNA: pentapeptide repeat proteins and DNA mimicry. Applied Microbiology and Biotechnology, 2014, 98, 9545-9560. | 3.6 | 21 |
| 35 | Structural and Functional Characterization of the RedÎ ² Recombinase from Bacteriophage λ. PLoS ONE, 2013, 8, e78869. | 2.5 | 19 |
| 36 | Nickel binding to NikA: an additional binding site reconciles spectroscopy, calorimetry and crystallography. Acta Crystallographica Section D: Biological Crystallography, 2007, 63, 221-229. | 2.5 | 18 |

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|----|--|------|-----------|
| 37 | Virus-Templated Near-Amorphous Iron Oxide Nanotubes. Langmuir, 2016, 32, 5899-5908. | 3.5 | 16 |
| 38 | A Peptide–Nucleic Acid Replicator Origin for Life. Trends in Ecology and Evolution, 2020, 35, 397-406. | 8.7 | 16 |
| 39 | Crystal structure of unliganded TRAP: implications for dynamic allostery. Biochemical Journal, 2011, 434, 427-434. | 3.7 | 15 |
| 40 | Artificial Protein Cage Delivers Active Protein Cargos to the Cell Interior. Biomacromolecules, 2021, 22, 4146-4154. | 5.4 | 15 |
| 41 | Unique features of apicoplast DNA gyrases from Toxoplasma gondii and Plasmodium falciparum. BMC Bioinformatics, 2014, 15, 416. | 2.6 | 14 |
| 42 | Importance of the Fourth Alpha-Helix within the CAP Homology Domain of Type II Topoisomerase for DNA Cleavage Site Recognition and Quinolone Action. Antimicrobial Agents and Chemotherapy, 2002, 46, 2735-2746. | 3.2 | 13 |
| 43 | RNA and Protein Complexes of trp RNA-Binding Attenuation Protein Characterized by Mass Spectrometry. Analytical Chemistry, 2009, 81, 2218-2226. | 6.5 | 13 |
| 44 | Artificial Protein Cage with Unusual Geometry and Regularly Embedded Gold Nanoparticles. Nano Letters, 2022, 22, 3187-3195. | 9.1 | 13 |
| 45 | A single residue can modulate nanocage assembly in salt dependent ferritin. Nanoscale, 2021, 13, 11932-11942. | 5.6 | 11 |
| 46 | Functional Analyses of the Toxoplasma gondii DNA Gyrase Holoenzyme: A Janus Topoisomerase with Supercoiling and Decatenation Abilities. Scientific Reports, 2015, 5, 14491. | 3.3 | 10 |
| 47 | Intersubunit linker length as a modifier of protein stability: Crystal structures and thermostability of mutant TRAP. Protein Science, 2008, 17, 518-526. | 7.6 | 9 |
| 48 | Understanding the Assembly of an Artificial Protein Nanotube. Advanced Materials Interfaces, 2016, 3, 1600846. | 3.7 | 8 |
| 49 | Connectability of protein cages. Nanoscale Advances, 2020, 2, 2255-2264. | 4.6 | 8 |
| 50 | Polymer-mediated Dual Mineralization of a Plant Virus: A Platinum Nanowire Encapsulated by Iron Oxide. Chemistry Letters, 2015, 44, 79-81. | 1.3 | 7 |
| 51 | Reciprocal Nucleopeptides as the Ancestral Darwinian Self-Replicator. Molecular Biology and Evolution, 2018, 35, 404-416. | 8.9 | 7 |
| 52 | Inhibitory Compounds Targeting Plasmodium falciparum Gyrase B. Antimicrobial Agents and Chemotherapy, 2021, 65, e0026721. | 3.2 | 7 |
| 53 | Pentapeptide repeat protein QnrB1 requires ATP hydrolysis to rejuvenate poisoned gyrase complexes. Nucleic Acids Research, 2021, 49, 1581-1596. | 14.5 | 7 |
| 54 | Phage Orf Family Recombinases: Conservation of Activities and Involvement of the Central Channel in DNA Binding. PLoS ONE, 2014, 9, e102454. | 2.5 | 7 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Investigating the Roles of the C-Terminal Domain of Plasmodium falciparum GyrA. PLoS ONE, 2015, 10, e0142313. | 2.5 | 6 |
| 56 | Shape-Morphing of an Artificial Protein Cage with Unusual Geometry Induced by a Single Amino Acid Change. ACS Nanoscience Au, 2022, 2, 404-413. | 4.8 | 6 |
| 57 | Template-free, hollow and porous platinum nanotubes derived from tobamovirus and their three-dimensional structure at the nanoscale. RSC Advances, 2014, 4, 39305-39311. | 3.6 | 5 |
| 58 | Characterization of near-miss connectivity-invariant homogeneous convex polyhedral cages. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2022, 478, 20210679. | 2.1 | 5 |
| 59 | Protein nanotubes, channels and cages. Amino Acids, Peptides and Proteins, 2012, , 151-189. | 0.7 | 4 |
| 60 | Resurrecting the Dead (Molecules). Computational and Structural Biotechnology Journal, 2017, 15, 351-358. | 4.1 | 4 |
| 61 | The Three S's for Aptamerâ€Mediated Control of DNA Nanostructure Dynamics: Shape, Selfâ€Complementarity, and Spatial Flexibility. ChemBioChem, 2018, 19, 1900-1906. | 2.6 | 4 |
| 62 | Backbone 1H, 13C, and 15 E. coli nickel binding protein NikA. Journal of Biomolecular NMR, 2005, 32, 177-177. | 2.8 | 3 |
| 63 | Topogami: Topologically Linked DNA Origami. ACS Nanoscience Au, 2022, 2, 57-63. | 4.8 | 3 |
| 64 | Senemorphism: a novel perspective on aging patterns and its implication for diet-related biology. Biogerontology, 2012, 13, 457-466. | 3.9 | 2 |
| 65 | Electrostatic Self-Assembly of Protein Cage Arrays. Methods in Molecular Biology, 2021, 2208, 123-133. | 0.9 | 2 |
| 66 | A bacteriophage mimic of the bacterial nucleoid-associated protein Fis. Biochemical Journal, 2020, 477, 1345-1362. | 3.7 | 2 |
| 67 | Chiral 3D DNA origami structures for ordered heterologous arrays. Nanoscale Advances, 2021, 3, 4685-4691. | 4.6 | 1 |
| 68 | FRET-Mediated Observation of Protein-Triggered Conformational Changes in DNA Nanostructures. Methods in Molecular Biology, 2021, 2208, 69-80. | 0.9 | 1 |
| 69 | TRAPped Structures: Making Artificial Cages with a Ring Protein. ACS Symposium Series, 2017, , 3-17. | 0.5 | 0 |