

Robert O Fox

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

3,395
citations

218381

26
h-index

205818

48
g-index

49
all docs

49
docs citations

49
times ranked

2308
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | A voltage-gated ion channel model inferred from the crystal structure of alamethicin at 1.5-Å... resolution. <i>Nature</i> , 1982, 300, 325-330. | 13.7 | 751 |
| 2 | Structural determinants of peptide-binding orientation and of sequence specificity in SH3 domains. <i>Nature</i> , 1994, 372, 375-379. | 13.7 | 518 |
| 3 | Recombinant antibodies possessing novel effector functions. <i>Nature</i> , 1984, 312, 604-608. | 13.7 | 304 |
| 4 | The crystal structure of staphylococcal nuclease refined at 1.7 Å... resolution. <i>Proteins: Structure, Function and Bioinformatics</i> , 1991, 10, 92-105. | 1.5 | 256 |
| 5 | Proline isomerism in staphylococcal nuclease characterized by NMR and site-directed mutagenesis. <i>Nature</i> , 1987, 329, 266-268. | 13.7 | 180 |
| 6 | A magnetization-transfer nuclear magnetic resonance study of the folding of staphylococcal nuclease. <i>Biochemistry</i> , 1989, 28, 362-370. | 1.2 | 143 |
| 7 | Multiple conformations of a protein demonstrated by magnetization transfer NMR spectroscopy. <i>Nature</i> , 1986, 320, 192-194. | 13.7 | 114 |
| 8 | Transfer of a β^2 -turn structure to a new protein context. <i>Nature</i> , 1989, 339, 73-76. | 13.7 | 97 |
| 9 | Oxidative polypeptide cleavage mediated by EDTA-iron covalently linked to cysteine residues. <i>Biochemistry</i> , 1993, 32, 12761-12767. | 1.2 | 81 |
| 10 | Stability and peptide binding affinity of an SH3 domain from the <i>Caenorhabditis elegans</i> signaling protein Sem-5. <i>Protein Science</i> , 1994, 3, 1261-1266. | 3.1 | 63 |
| 11 | Conformational substrates and uncertainty in macromolecular free energy calculations. <i>The Journal of Physical Chemistry</i> , 1993, 97, 3409-3417. | 2.9 | 52 |
| 12 | Capillary electrophoresis of S. nuclease mutants. <i>Journal of Chromatography A</i> , 1995, 705, 135-154. | 1.8 | 52 |
| 13 | Mapping RNA-protein interactions in ribonuclease P from <i>Escherichia coli</i> using disulfide-linked EDTA-Fe ¹ Edited by K. Nagai. <i>Journal of Molecular Biology</i> , 2000, 296, 19-31. | 2.0 | 50 |
| 14 | Fluorescence and conformational stability studies of <i>Staphylococcus</i> nuclease and its mutants, including the less stable nuclease-concanavalin A hybrids. <i>Biochemistry</i> , 1991, 30, 1193-1199. | 1.2 | 47 |
| 15 | Mapping the structure of a non-native state of staphylococcal nuclease. <i>Nature Structural Biology</i> , 1996, 3, 59-66. | 9.7 | 47 |
| 16 | Structural and Functional Linkages Between Subunit Interfaces in Mammalian Pyruvate Kinase. <i>Journal of Molecular Biology</i> , 2001, 312, 525-540. | 2.0 | 47 |
| 17 | Mapping Staphylococcal Nuclease Conformation Using an EDTA-Fe Derivative Attached to Genetically Engineered Cysteine Residues. <i>Biochemistry</i> , 1994, 33, 13625-13641. | 1.2 | 46 |
| 18 | Mapping interactions between the catalytic domain of resolvase and its DNA substrate using cysteine-coupled EDTA-iron. <i>Biochemistry</i> , 1993, 32, 2979-2986. | 1.2 | 45 |

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|----|---|-----|-----------|
| 19 | Effect of proline mutations on the stability and kinetics of folding of staphylococcal nuclease. <i>Biochemistry</i> , 1993, 32, 2534-2541. | 1.2 | 42 |
| 20 | Functional Reconstitution and Characterization of Recombinant Human α 1-Glycine Receptors. <i>Journal of Biological Chemistry</i> , 2001, 276, 20981-20988. | 1.6 | 34 |
| 21 | Stress and strain in staphylococcal nuclease. <i>Protein Science</i> , 1993, 2, 838-850. | 3.1 | 32 |
| 22 | Mobile unnatural amino acid side chains in the core of staphylococcal nuclease. <i>Protein Science</i> , 1996, 5, 1026-1031. | 3.1 | 30 |
| 23 | 2.9Å resolution structure of an anti-dinitrophenyl-spin-label monoclonal antibody Fab fragment with bound hapten. <i>Journal of Molecular Biology</i> , 1991, 221, 239-256. | 2.0 | 28 |
| 24 | NMR analysis of staphylococcal nuclease thermal quench refolding kinetics. <i>Protein Science</i> , 1993, 2, 851-858. | 3.1 | 28 |
| 25 | Engineering Alternative β -Turn Types in Staphylococcal Nuclease. <i>Biochemistry</i> , 1994, 33, 5021-5030. | 1.2 | 27 |
| 26 | NMR solution structure and backbone dynamics of domain III of the E protein of tick-borne Langkat flavivirus suggests a potential site for molecular recognition. <i>Protein Science</i> , 2006, 15, 1342-1355. | 3.1 | 26 |
| 27 | Water cluster calibration reduces mass error in electrospray ionization mass spectrometry of proteins. <i>Journal of the American Society for Mass Spectrometry</i> , 1997, 8, 1158-1164. | 1.2 | 24 |
| 28 | The crystal structure of the E. coli stress protein YciF. <i>Protein Science</i> , 2006, 15, 2605-2611. | 3.1 | 24 |
| 29 | Proline <i>cis</i> – <i>trans</i> isomerization in staphylococcal nuclease: Multi-state free energy perturbation calculations. <i>Protein Science</i> , 1995, 4, 636-654. | 3.1 | 21 |
| 30 | Exploring the impact of polyproline II (P _{II}) conformational bias on the binding of peptides to the SH3 domain. <i>Protein Science</i> , 2008, 17, 1200-1211. | 3.1 | 21 |
| 31 | Directed Cleavage of RNA with Protein-Tethered EDTA–Fe. <i>Methods</i> , 1999, 18, 78-84. | 1.9 | 19 |
| 32 | Directed discovery of bivalent peptide ligands to an SH3 domain. <i>Protein Science</i> , 2004, 13, 626-632. | 3.1 | 17 |
| 33 | Comparison of straight chain and cyclic unnatural amino acids embedded in the core of staphylococcal nuclease. <i>Protein Science</i> , 1997, 6, 1621-1626. | 3.1 | 16 |
| 34 | The crystal structure of the <i>cis</i> -proline to glycine variant (P114G) of ribonuclease A. <i>Protein Science</i> , 2005, 14, 2862-2870. | 3.1 | 14 |
| 35 | Characterizing the Role of Ensemble Modulation in Mutation-Induced Changes in Binding Affinity. <i>Journal of the American Chemical Society</i> , 2009, 131, 6785-6793. | 6.6 | 14 |
| 36 | The importance of anchorage in determining a strained protein loop conformation. <i>Protein Science</i> , 1994, 3, 549-556. | 3.1 | 13 |

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|----|---|------|-----------|
| 37 | Charge and size effects in the capillary zone electrophoresis of nuclease A and its variants. <i>Electrophoresis</i> , 1995, 16, 595-603. | 1.3 | 13 |
| 38 | Stabilization of a strained protein loop conformation through protein engineering. <i>Protein Science</i> , 1995, 4, 484-495. | 3.1 | 11 |
| 39 | Interactions in nonnative and truncated forms of staphylococcal nuclease as indicated by mutational free energy changes. <i>Protein Science</i> , 1995, 4, 1815-1823. | 3.1 | 10 |
| 40 | Overexpression and Functional Characterization of the Extracellular Domain of the Human β 1 Glycine Receptor. <i>Biochemistry</i> , 2008, 47, 9803-9810. | 1.2 | 10 |
| 41 | Crystallization of an anti-2,2,6,6-tetramethyl-1-piperidinyloxy-dinitrophenyl monoclonal antibody Fab fragment with and without bound hapten. <i>Journal of Molecular Biology</i> , 1988, 203, 829-830. | 2.0 | 9 |
| 42 | Stability Studies of Amino Acid Substitutions at Tyrosine 27 of the Staphylococcal Nuclease β 2-Barrel. <i>Biochemistry</i> , 1997, 36, 12167-12174. | 1.2 | 7 |
| 43 | Calibration of spiral-readout image-plate detectors. <i>Journal of Applied Crystallography</i> , 1999, 32, 65-70. | 1.9 | 5 |
| 44 | Letter to the Editor: Backbone and side chain resonance assignments of domain III of the tick-borne Langkat flavivirus envelope protein. <i>Journal of Biomolecular NMR</i> , 2004, 29, 535-536. | 1.6 | 2 |
| 45 | Escherichia colistress protein YciF: expression, crystallization and preliminary crystallographic analysis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2004, 60, 2389-2390. | 2.5 | 2 |
| 46 | Crystallization and preliminary X-ray investigation of the recombinant <i>Trypanosoma brucei</i> rhodesiense calmodulin. <i>Proteins: Structure, Function and Bioinformatics</i> , 1995, 21, 354-357. | 1.5 | 1 |
| 47 | The development of the GPCPC protein crystallography beamline at CAMD. <i>AIP Conference Proceedings</i> , 2001, , . | 0.3 | 1 |
| 48 | Protein Folding Intermediates Characterized by Pulsed Hydrogen Exchange. <i>Techniques in Protein Chemistry</i> , 1994, 5, 447-454. | 0.3 | 1 |
| 49 | Frederic Richards (1925–2009). <i>Nature</i> , 2009, 457, 976-976. | 13.7 | 0 |