

CITATION REPORT

List of articles citing

Comparison of experimental binding data and theoretical models in proteins containing subunits

DOI: 10.1021/bi00865a047
Biochemistry, 1966, 5, 365-85.

Source: <https://exaly.com/paper-pdf/8784031/citation-report.pdf>

Version: 2024-04-18

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

| # | Paper | IF | Citations |
|------|--|-----|-----------|
| 2323 | . | | |
| 2322 | Multiple Pathways and Time Scales for Conformational Transitions in apo-Adenylate Kinase. | | |
| 2321 | The introduction of a "reporter" group at the active site of glyceraldehyde-3-phosphate dehydrogenase. 1966 , 23, 810-5 | | 13 |
| 2320 | Chemical modification of hemoglobins: a study of conformation restraint by internal bridging. 1966 , 56, 749-56 | | 40 |
| 2319 | Substrate-dependent association of lactic dehydrogenase subunits to active tetramer. 1966 , 56, 680-5 | | 28 |
| 2318 | The binding of nicotinamide-adenine dinucleotide to yeast d-glyceraldehyde-3-phosphate dehydrogenase: temperature-jump relaxation studies on the mechanism of an allosteric enzyme. 1966 , 56, 1661-7 | | 187 |
| 2317 | Co-operative effects in enzyme catalysis: a possible kinetic model based on substrate-induced conformation isomerization. 1967 , 102, 22C-23C | | 118 |
| 2316 | Spin-label study of hemoglobin conformations in solution. 1967 , 58, 19-26 | | 134 |
| 2315 | Relation of protein subunit interactions to the molecular species observed during cooperative binding of ligands. 1967 , 58, 2087-93 | | 35 |
| 2314 | Kinetic studies on a brain microsomal adenosine triphosphatase. Evidence suggesting conformational changes. <i>Biochemistry</i> , 1967 , 6, 3250-8 | 3.2 | 207 |
| 2313 | Regulation of glutamine synthetase. 3. Cumulative feedback inhibition of glutamine synthetase from <i>Escherichia coli</i> . 1967 , 118, 736-55 | | 152 |
| 2312 | Hemoglobin and its reaction with ligands. 1967 , 158, 1417-25 | | 81 |
| 2311 | Application of chemical relaxation to biological systems. 3. Selected three-step reactions. 1967 , 17, 343-82 | | 4 |
| 2310 | The threonine-sensitive homoserine dehydrogenase and aspartokinase activities of <i>Escherichia coli</i> K 12. 4. Isolation, molecular weight, amino acid analysis and behaviour of the sulfhydryl groups of the protein catalyzing the two activities. 1968 , 5, 73-80 | | 81 |
| 2309 | Structure and function of carbamoylphosphate synthase. I. Transitions between two catalytically inactive forms and the active form. 1968 , 7, 119-27 | | 100 |
| 2308 | Die Unmeßbar-Schnellen Reaktionen (Nobel-Vortrag). 1968 , 80, 892-906 | | 24 |
| 2307 | A computer model of allosteric kinetics involving binding of a single substrate molecule. 1968 , 2, 28-30 | | 1 |

| | | | |
|------|--|-----|-----|
| 2306 | Models for hemoglobin and allosteric enzymes. 1968 , 6, 1101-18 | | 51 |
| 2305 | Chemical relaxation of allosteric models. 1968 , 2, 219-33 | | |
| 2304 | Allosteric transitions of glutamate dehydrogenase. 1968 , 219, 947-9 | | 23 |
| 2303 | Allosteric control of the activity of malic enzyme in <i>Escherichia coli</i> . 1968 , 31, 623-7 | | 33 |
| 2302 | Allosteric inhibition of TPN-linked isocitrate dehydrogenase by folate. 1968 , 31, 665-70 | | 4 |
| 2301 | Structure and function of chloroplast proteins. V. Homotropic effect of bicarbonate in RuDP carboxylase reaction and the mechanism of activation by magnesium ions. 1968 , 126, 737-45 | | 68 |
| 2300 | Knetic implications of enzyme-effector complexes. 1968 , 126, 856-63 | | 18 |
| 2299 | The effect of temperature on the allosteric transitions of rabbit skeletal muscle phosphorylase b. <i>Biochemistry</i> , 1968 , 7, 4543-56 | 3.2 | 100 |
| 2298 | Analysis of kinetic data for allosteric enzyme reactions as a nonlinear regression problem. 1968 , 2, 57-66 | | 29 |
| 2297 | Properties of hemoglobin M. Unequivalent nature of the alpha and beta subunits in the hemoglobin molecule. 1968 , 168, 262-73 | | 27 |
| 2296 | The nature of 3-deoxy-d-arabino-heptulosonate 7-phosphate synthase in extracts of wild-type <i>Neurospora crassa</i> : a reaction controlled by two activating substrates and three allosteric negative modifiers. 1968 , 159, 352-66 | | 24 |
| 2295 | The inhibition of citrate synthase by adenosine triphosphate. 1968 , 151, 225-35 | | 72 |
| 2294 | The relation between temperature-inducible allosteric effects and the activation energies of amino-acid oxidases. 1968 , 167, 48-63 | | 34 |
| 2293 | Time dependence of activation of muscle AMP-aminohydrolase by substrate and potassium ion. 1968 , 2, 65-68 | | 17 |
| 2292 | Allosteric glutaminase in rat liver of likely regulatory significance. 1968 , 1, 317-319 | | 6 |
| 2291 | A kinetic interpretation of the allosteric model of Monod, Wyman, and Changeux. 1968 , 1, 339-342 | | 41 |
| 2290 | Antagonistic homotropic interactions as a possible explanation of coenzyme activation of glutamate dehydrogenase. 1968 , 1, 349-352 | | 85 |
| 2289 | The mechanism of precursor modulation of human pyruvate kinase I by fructose diphosphate. 1968 , 6, 127-42 | | 37 |

| | | |
|------|--|-----|
| 2288 | Regulatory control through conformation changes in proteins. 1968 , 6, 291-301 | 13 |
| 2287 | New looks and outlooks on physical enzymology. 1968 , 1, 3-33 | 147 |
| 2286 | Electron microscopy of enzymes. 1968 , 30, 875-91 | 23 |
| 2285 | Carbamyl phosphate: an allosteric substrate for aspartate transcarbamylase of Escherichia coli. 1968 , 60, 1442-9 | 103 |
| 2284 | Overlapping conformation changes in spin-labeled hemoglobin. 1968 , 61, 401-5 | 47 |
| 2283 | The rate of an allosteric process: inhibition of homoserine dehydrogenase I from E. coli by threonine. 1968 , 60, 1363-70 | 30 |
| 2282 | Inhibition of 3-phosphoglycerate dehydrogenase by l-serine. 1968 , 109, 749-55 | 33 |
| 2281 | Studies on medium-chain fatty acyl-coenzyme a synthetase. Enzyme fraction I: mechanism of reaction and allosteric properties. 1968 , 109, 275-82 | 26 |
| 2280 | The absence of "heme-heme" interactions in hemoglobin. 1969 , 165, 251-7 | 101 |
| 2279 | Binding of Neutral Molecules. 1969 , 84-175 | 2 |
| 2278 | The threonine-sensitive homoserine dehydrogenase and aspartokinase activities of Escherichia coli K 12. Binding of threonine and of pyridine nucleotides: stoichiometry and optical effects. 1969 , 8, 128-38 | 54 |
| 2277 | The first Sir Hans Krebs lecture. X-ray analysis, structure and function of enzymes. 1969 , 8, 445-66 | 54 |
| 2276 | A kinetic investigation on the allosteric effects in intestinal sucrase. 1969 , 8, 518-29 | 15 |
| 2275 | The threonine-sensitive homoserine dehydrogenase and aspartokinase activities of Escherichia coli K 12. A study of the allosteric equilibrium. 1969 , 11, 520-9 | 54 |
| 2274 | The threonine-sensitive homoserine dehydrogenase and aspartokinase activities of Escherichia coli K 12. Relaxations of the allosteric equilibrium. 1969 , 11, 530-40 | 32 |
| 2273 | [On the interpretation of the O ₂ -dissociation curve of human hemoglobin]. 1969 , 309, 232-49 | 4 |
| 2272 | [Structural flexibility and enzyme function]. 1969 , 56, 232-7 | 6 |
| 2271 | Methoden zur Untersuchung der Enzym-Konformation. 1969 , 81, 296-296 | |

| | | |
|------|---|--------|
| 2270 | Electron paramagnetic resonance study of the stereochemistry of nitrosylhemoglobin. 1969 , 51, 4220-7 | 91 |
| 2269 | Effect of adenosine monophosphate on the reactivity of thiol groups of D-fructose 1,6-diphosphatase from rabbit liver. <i>Biochemistry</i> , 1969 , 8, 4904-9 | 3,2 10 |
| 2268 | The effects of isomerization and polymerization on the binding of ligands to acceptor molecules: implications in metabolic control. 1969 , 184, 1-10 | 34 |
| 2267 | Relation between allosteric effects and changes in the energy of bonding between molecular subunits. 1969 , 39, 479-91 | 55 |
| 2266 | ADP glucose pyrophosphorylase from maize endosperm. 1969 , 130, 119-28 | 82 |
| 2265 | Connection matrix representation of enzyme reaction sequences. 1969 , 4, 189-200 | 19 |
| 2264 | Aims, applications and achievements. An introductory essay. 1969 , 2 Suppl 1, S3-S8 | 2 |
| 2263 | Analysis of kinetic data of allosteric enzymes by a linear plot. 1969 , 3, 325-329 | 21 |
| 2262 | X-ray small-angle scattering of yeast glyceraldehyde-3-phosphate dehydrogenase as a function of saturation with nicotinamide-adenine-dinucleotide. 1969 , 4, 75-78 | 18 |
| 2261 | pH profile of a peptide receptor. 1969 , 28, 571-86 | 12 |
| 2260 | Palo Verde (<i>Parkinsonia aculeata</i> L.) seed aminoacylase. 1969 , 191, 397-414 | 15 |
| 2259 | Purification and properties of rat liver AMP deaminase. 1969 , 191, 415-24 | 35 |
| 2258 | The homotropic cooperative effect in the case of N-acetylglutamate 5-phosphotransferase. 1969 , 185, 263-5 | 4 |
| 2257 | Human placental alkaline phosphatase. II. Molecular and subunit properties of the enzyme. 1969 , 194, 170-9 | 36 |
| 2256 | Evidence for beta-beta interactions during the binding of oxygen to hemoglobin. 1969 , 194, 339-41 | 25 |
| 2255 | Negative cooperativity in regulatory enzymes. 1969 , 62, 1121-8 | 343 |
| 2254 | Measurement of ligand-induced conformational changes in hemoglobin by circular dichroism. 1969 , 63, 205-12 | 33 |
| 2253 | The effects of pH and citrate on the activity of nicotinamideA-denine dinucleotide-specific isocitrate dehydrogenase from pea mitochondria. 1969 , 113, 813-20 | 25 |

| | | |
|------|--|------|
| 2252 | 1-Anilinonaphthalene-8-sulphonate, a fluorescent conformational probe for glutamate dehydrogenase. 1969 , 114, 407-17 | 73 |
| 2251 | Desensitization of glutamate dehydrogenase by reaction of tyrosne residues. 1969 , 114, 419-27 | 28 |
| 2250 | Kinetic studies of glutamate dehydrogenase with glutamate and norvaline as substrates. Coenzyme activation and negative homotropic interactions in allosteric enzymes. 1969 , 115, 621-31 | 151 |
| 2249 | Chapter 21. Molecular Basis of Drug Action. 1969 , 4, 230-245 | 3 |
| 2248 | Regulation of Enzyme Activity in Photosynthetic Systems. 1970 , 21, 433-466 | 94 |
| 2247 | Electron paramagnetic resonance studies of spin-labeled hemoglobins and their implications to the nature of cooperative oxygen binding to hemoglobin. 1970 , 66, 722-9 | 11 |
| 2246 | Hybridization of native and chemically modified enzymes. 3. The catalytic subunits of aspartate transcarbamylase. 1970 , 65, 234-41 | 76 |
| 2245 | Diphosphoglycerate and inosine hexaphosphate control of oxygen binding by hemoglobin: a theoretical interpretation of experimental data. 1970 , 67, 296-301 | 25 |
| 2244 | 8 Mechanisms of Enzyme Regulation in Metabolism. 1970 , 397-459 | 32 |
| 2243 | The effect of pH on the characteristics of the binding of nicotinamide-adenine dinucleotide by nicotinamide-adenine dinucleotide-specific isocitrate dehydrogenase from pea mitochondria. 1970 , 116, 819-24 | 6 |
| 2242 | New model for transmitter release at the presynaptic membrane. 1970 , 28, 297-300 | 4 |
| 2241 | Structural studies of hemes and hemoproteins by nuclear magnetic resonance spectroscopy. 1970 , 53-121 | 177 |
| 2240 | Stoffwechseluntersuchungen an lebensmitteltechnologisch wichtigen Mikroorganismen X. Mitteilung Pyruvatcarboxylase aus <i>Penicillium camemberti</i> , var. <i>andidum</i> 3. Allosterische Eigenschaften des Enzyms. 1970 , 142, 321-330 | 6 |
| 2239 | High resolution nuclear magnetic resonance studies of haemoglobin J Capetown. 1970 , 225, 1042-3 | 11 |
| 2238 | Hybrid molecules of yeast and rabbit GPD containing native and modified subunits. 1970 , 226, 756-7 | 35 |
| 2237 | Stereochemistry of cooperative effects in haemoglobin. 1970 , 228, 726-39 | 2645 |
| 2236 | Chorismate mutase from <i>Euglena gracilis</i> . Purification and regulatory properties. 1970 , 16, 244-51 | 19 |
| 2235 | 7 The Molecular Basis for Enzyme Regulation. 1970 , 341-396 | 90 |

| | | | |
|------|---|-----|-----|
| 2234 | Measurement of fast biochemical reactions. 1970 , 170, 273-80 | | 25 |
| 2233 | Studies on ion distribution in living cells. II. Cooperative interaction between intracellular potassium and sodium ions. 1970 , 10, 519-38 | | 41 |
| 2232 | The regulation of enzyme activity and allosteric transition. 1970 , 21, 321-97 | | 112 |
| 2231 | Relation of steroid structure to enzyme induction in hepatoma tissue culture cells. 1970 , 52, 57-74 | | 376 |
| 2230 | Binding interactions between two ligands and a monomeric protein. Study on indole, protons and chymotrypsin. 1970 , 47, 41-56 | | 33 |
| 2229 | Co-operative subunit protein models and the matrix method. 1970 , 48, 103-7 | | 4 |
| 2228 | Some characteristics of the binding of substrates of glutamine synthetase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1970 , 9, 617-32 | 3.2 | 43 |
| 2227 | Histidine decarboxylase of <i>Lactobacillus</i> 30a. VI. Mechanism of action and kinetic properties. <i>Biochemistry</i> , 1970 , 9, 1492-7 | 3.2 | 80 |
| 2226 | . 1970 , | | |
| 2225 | Remarks on the kinetics of enzymes with interacting effector molecules. Tests of a configurational hypothesis in a quasi-equilibrium model. <i>Biochemistry</i> , 1970 , 9, 1440-53 | 3.2 | 13 |
| 2224 | Some effects of adenylation on the biosynthetic properties of the glutamine synthetase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 1970 , 9, 633-49 | 3.2 | 108 |
| 2223 | The effect of NAD ⁺ on the catalytic efficiency of glyceraldehyde-3-phosphate dehydrogenase from rabbit muscle. 1970 , 198, 183-91 | | 19 |
| 2222 | Regulation of the biosynthesis of purine nucleotides in <i>Schizosaccharomyces pombe</i> . I. Properties of the phosphoribosylpyrophosphate: glutamine amidotransferase of the wild strain and of a mutant desensitized towards feedback modifiers. 1970 , 198, 471-81 | | 40 |
| 2221 | Cathepsin C: an allosteric enzyme. 1970 , 198, 546-55 | | 30 |
| 2220 | Porphyrin biosynthesis in soybean callus. V. The porphobilinogen deaminase-uroporphyrinogen cosynthetase system. Kinetic studies. 1970 , 220, 552-9 | | 10 |
| 2219 | Interactions between monovalent cations and the (Na ⁺ + K ⁺)-dependent adenosine triphosphatase. 1970 , 139, 17-27 | | 86 |
| 2218 | On the mechanism of fructose 1,6-diphosphatase: inhibition by methyl D-fructoside 1,6-diphosphate. 1970 , 139, 248-51 | | 12 |
| 2217 | <i>Escherichia coli</i> phosphoenolpyruvate carboxylase: competitive regulation by acetyl-coenzyme A and aspartate. 1970 , 137, 512-22 | | 24 |

| | | |
|------|--|--------|
| 2216 | A computer program for the determination of kinetic parameters from sigmoidal steady-state kinetics. 1970 , 8, 178-185 | 49 |
| 2215 | Negative homotropic kinetics of soybean callus porphobilinogen deaminase-uroporphyrinogen III cosynthetase. 1970 , 9, 180-182 | 8 |
| 2214 | Microtubules in the heliozoan axopodium. I. The gradion hypothesis of allosterism in structural proteins. 1970 , 30, 7-37 | 115 |
| 2213 | Matrix-bound protein subunits. 1970 , 41, 1198-204 | 95 |
| 2212 | Structure-function studies on glyceraldehyde-3-phosphate dehydrogenase. 3. Dependency of proteolysis on NAD ⁺ concentration. 1970 , 40, 481-8 | 16 |
| 2211 | Co-operative binding of nicotinamide-adenine dinucleotide to yeast glyceraldehyde-3-phosphate dehydrogenase. I. Equilibrium and temperature-jump studies at pH 8.5 and 40 degrees C. 1971 , 58, 29-50 | 99 |
| 2210 | Dissociation of hemoglobin into subunits. Monomer formation and the influence of ligands. 1971 , 59, 387-99 | 56 |
| 2209 | Temperature effects on muscle phosphofructokinase of the Alaskan king crab, <i>Paralithodes camtschatica</i> . 1971 , 39, 765-74 | 2 |
| 2208 | Spin-labelled haemoglobins: a structural interpretation of electron paramagnetic resonance spectra based on X-ray analysis. 1971 , 55, 135-46 | 58 |
| 2207 | Relaxation methods and enzymology. 1971 , 53, 161-72 | 8 |
| 2206 | Subunit conformation and catalytic function in rabbit-muscle glyceraldehyde-3-phosphate dehydrogenase. 1971 , 55, 181-92 | 74 |
| 2205 | Co-operative binding of nicotinamide-adenine dinucleotide to yeast glyceraldehyde-3-phosphate dehydrogenase. II. Stopped-flow studies at pH 8.5 and 40 degrees C. 1971 , 58, 51-68 | 55 |
| 2204 | Structure and functional properties of chemically modified horse hemoglobin. 3. Functional consequences of structural alterations and their implications for the molecular basis of co-operativity. 1971 , 58, 89-101 | 35 |
| 2203 | Properties of muscle phosphofructokinase of cold- and warm-acclimated <i>Carassius auratus</i> . 1971 , 39, 747-64 | 5 |
| 2202 | Possible regulatory factors for pyruvate carboxylase with particular reference to enzyme from chicken liver. 1971 , 20, 168-86 | 24 |
| 2201 | Observation of allosteric transition in hemoglobin. 1971 , 42, 9-15 | 93 |
| 2200 | Interaction of ethidium with the mitochondrial membrane: cooperative binding and energy-linked changes. 1971 , 44, 211-7 | 60 |
| 2199 | A new model for the binding of flexible ligands to proteins. <i>Biochemistry</i> , 1971 , 10, 2101-6 | 3.2 15 |

| | | | |
|------|---|-----|------|
| 2198 | Relaxation spectra of aspartate transcarbamylase. Interaction of the native enzyme with carbamyl phosphate. <i>Biochemistry</i> , 1971 , 10, 2150-6 | 3.2 | 18 |
| 2197 | Dimerization of alpha-chymotrypsin. I. pH dependence in the acid region. <i>Biochemistry</i> , 1971 , 10, 1609-17 | 3.2 | 118 |
| 2196 | Relaxation spectra of aspartate transcarbamylase. Interaction of the native enzyme with aspartate analogs. <i>Biochemistry</i> , 1971 , 10, 1051-7 | 3.2 | 41 |
| 2195 | Cooperative feedback control of barley acetohydroxyacid synthetase by leucine, isoleucine, and valine. 1971 , 146, 542-50 | | 72 |
| 2194 | The binding of NAD ⁺ to rabbit muscle glyceraldehyde-3-phosphate dehydrogenase studied by protein fluorescence quenching. 1971 , 235, 27-31 | | 40 |
| 2193 | Sedimentation behaviour of phosphoribosyladenosine triphosphate synthetase. Effects of substrates and modifiers. 1971 , 227, 327-36 | | 21 |
| 2192 | Human erythrocyte pyruvate kinase. Its purification and some properties. 1971 , 227, 86-96 | | 122 |
| 2191 | The Regulation of Pyruvate Kinase. 1971 , 237-267 | | 72 |
| 2190 | Allosteric activation of brain hexokinase by magnesium ions and by magnesium ion--adenosine triphosphate complex. 1971 , 125, 249-54 | | 25 |
| 2189 | Comments on extensions of the allosteric model for haemoglobin. 1971 , 232, 145-7 | | 7 |
| 2188 | Molecular self-organization and the early stages of evolution ¹ . 1971 , 4, 149-212 | | 73 |
| 2187 | Regulation of enzyme activity. The activity of enzymes can be controlled by a multiplicity of conformational equilibria. 1971 , 172, 1205-11 | | 74 |
| 2186 | Covalent attachment of diethylstilbestrol to glutamate dehydrogenase: implications for allosteric regulation. 1971 , 68, 916-9 | | 10 |
| 2185 | Plasma cell membranes of the rat kidney. I. Purification and properties of cell membrane ATPase. 1971 , 324, 1-25 | | 23 |
| 2184 | Selforganization of matter and the evolution of biological macromolecules. 1971 , 58, 465-523 | | 2795 |
| 2183 | Partial purification and kinetic properties of glutamic dehydrogenase from soybean cotyledons. 1971 , 10, 915-928 | | 46 |
| 2182 | Extensions of the allosteric model for haemoglobin. 1971 , 230, 224-7 | | 178 |
| 2181 | Drug receptors and their function. 1971 , 231, 91-6 | | 115 |

| | | |
|------|---|----|
| 2180 | Activation of pig brain glutaminase. 1971 , 18, 2201-8 | 38 |
| 2179 | Allosteric properties of the first enzyme of the histidine operon. 1971 , 1, 409-423 | 24 |
| 2178 | X-ray small-angle scattering of yeast glyceraldehyde-3-phosphate dehydrogenase as a function of saturation with nicotinamide-adenine-dinucleotide. 1971 , 19, 9-22 | 60 |
| 2177 | Cold inactivation of L-threonine deaminase from <i>Rhodospirillum rubrum</i> . Involvement of hydrophobic interactions. 1971 , 21, 447-54 | 14 |
| 2176 | Pyridine-nucleotide transhydrogenase. 5. Kinetic studies on transhydrogenase from <i>Azotobacter vinelandii</i> . 1971 , 24, 72-82 | 22 |
| 2175 | Regulatory properties of the pyruvate-dehydrogenase complex from <i>Escherichia coli</i> . Positive and negative cooperativity. 1971 , 24, 376-84 | 40 |
| 2174 | The present position of hemoglobin research. 1971 , 10, 663-73 | 6 |
| 2173 | Time-dependent model for hemoglobin and allosteric enzymes. I. General formulation. 1971 , 10, 961-72 | 15 |
| 2172 | Zum gegenwärtigen Stand der Hämoglobin-Forschung. 1971 , 83, 735-745 | 5 |
| 2171 | Gel Permeation Analysis of Macromolecular Association by an Equilibrium Method. 1971 , 6, 217-228 | 2 |
| 2170 | The Hill plot and the energy of interaction in hemoglobin. 1972 , 175, 1253-5 | 36 |
| 2169 | 15 β -Glucan Phosphorylases—Chemical and Physical Basis of Catalysis and Regulation. 1972 , 7, 435-482 | 63 |
| 2168 | The Na ⁺ , K ⁺ -ATPase Membrane Transport System: Importance in Cellular Function. 1972 , 3, 1-82 | 71 |
| 2167 | Dissociation of oxyhaemoglobin, methaemoglobin and their hybrid compared by difference gel chromatography. 1972 , 235, 110-2 | 14 |
| 2166 | The binding of oxidized coenzymes by glutamate dehydrogenase and the effects of glutarate and purine nucleotides. 1972 , 126, 975-84 | 72 |
| 2165 | Wheat-germ aspartate transcarbamoylase. Kinetic behaviour suggesting an allosteric mechanism of regulation. 1972 , 128, 311-20 | 38 |
| 2164 | Functional nonequivalence of α and hemes in human adult hemoglobin. 1972 , 69, 1707-10 | 70 |
| 2163 | 3':5'-cyclic adenosine monophosphate phosphodiesterase: negative cooperativity. 1972 , 69, 1791-5 | 61 |

| | | | |
|------|---|-----|-----|
| 2162 | Ethidium bromide as a cooperative effector of a DNA structure. 1972 , 69, 3805-9 | | 180 |
| 2161 | Glutamine Synthetase of Escherichia Coli: Some Physical and Chemical Properties. 1972 , 26, 1-79 | | 64 |
| 2160 | Allosteric properties of enzymes with "ping-pong" mechanism. 1972 , 276, 12-8 | | 5 |
| 2159 | Uridine diphosphoglucose dehydrogenase from rat liver: purification and effect of pH on regulatory properties. 1972 , 276, 43-52 | | 11 |
| 2158 | Pyruvate carboxylase: inactivation by sulfhydryl-group reagents in the presence of certain inorganic anions, substrates, and modifiers and the effects on the allosteric properties of the enzyme. 1972 , 276, 297-312 | | 3 |
| 2157 | Phosphoenolpyruvate carboxylase of Escherichia coli: alteration of allosteric properties by photooxidation. 1972 , 152, 821-7 | | 24 |
| 2156 | Control of deoxyribonucleotide synthesis in vitro and in vivo. 1972 , 10, 3-16 | | 75 |
| 2155 | X-ray studies of crystalline proteins. 1972 , 25, 85-130 | | 6 |
| 2154 | Antibody-induced conformational changes in proteins. 1972 , 5, 395-425 | | 48 |
| 2153 | Oxygen binding properties of haemocyanin from Levantina hierosolima. 1972 , 64, 341-52 | | 39 |
| 2152 | Studies of catalysis by acetylcholinesterase. Synergistic effects of inhibitors during the hydrolysis of acetic acid esters. <i>Biochemistry</i> , 1972 , 11, 4308-21 | 3.2 | 59 |
| 2151 | Ligand binding and internal equilibria in proteins. <i>Biochemistry</i> , 1972 , 11, 864-78 | 3.2 | 306 |
| 2150 | Biosynthesis of an aspartate transcarbamylase lacking co-operative interactions. I. Disconnection of homotropic and heterotropic interactions under the influence of 2-thiouracil. 1972 , 64, 379-92 | | 53 |
| 2149 | A mathematical model for structure-function relations in hemoglobin. 1972 , 72, 163-97 | | 215 |
| 2148 | Human erythrocyte glucose 6-phosphate dehydrogenase: electron microscope studies on structure and interconversion of tetramers, dimers and monomers. 1972 , 68, 483-99 | | 56 |
| 2147 | Sequential conformational changes with the binding of NAD to rabbit muscle glyceraldehyde-3-phosphate dehydrogenase. 1972 , 68, 523-32 | | 16 |
| 2146 | High resolution nuclear magnetic resonance spectra of hemoglobin. 3. The half-ligated state and allosteric interactions. 1972 , 70, 315-36 | | 107 |
| 2145 | Non-linear relation between oxygen-binding and structural changes of hemoglobin. 1972 , 48, 517-22 | | 7 |

| | | |
|------|---|-----|
| 2144 | The binding of n-butyl isocyanide to human hemoglobin. 1972 , 48, 678-83 | 18 |
| 2143 | 19 F-NMR studies of oxygen binding to hemoglobin. 1972 , 49, 1358-65 | 29 |
| 2142 | An allosteric mechanism for the acetylcholine receptor. 1972 , 48, 1160-5 | 28 |
| 2141 | A general model of cooperativity and its application to DPG inhibition of hemoglobin oxygenation. 1972 , 48, 307-13 | 12 |
| 2140 | Phosphofructokinase* *Some of the studies carried out by the author and reviewed here were supported by the U. S. Public Health Service Research Grant (AI04214) from the National Institute of Allergy and Infectious Diseases and a grant-in-aid from the American Heart Association.. 1972 , 1-46 | 118 |
| 2139 | Isoenzymes of tetrameric proteins. 1972 , 11, 119-26 | 4 |
| 2138 | The action of hemoglobin. Cooperative effects in tetrameric proteins. 1972 , 11, 957-71 | 19 |
| 2137 | Random pathway models and their application to steady-state enzyme kinetics. 1972 , 37, 335-52 | 7 |
| 2136 | Reversal of inhibition of enzymes and the model of a spike oscillator. 1972 , 36, 237-53 | 11 |
| 2135 | Modelling of allosteric interactions in dissociable tetrameric isoenzyme systems. 1972 , 34, 313-24 | 8 |
| 2134 | Nature of haem-haem interaction. 1972 , 237, 495-9 | 341 |
| 2133 | The nature of the inhibition and activation of epidermal phosphofructokinase: an allosteric enzyme. 1972 , 59, 397-401 | 5 |
| 2132 | On the kinetics of the reaction of hemoglobin with CO. Flash-photolysis experiments. 1972 , 25, 491-7 | 10 |
| 2131 | The binding of oxidized and reduced nicotinamide adenine-dinucleotide to yeast glyceraldehyde-3-phosphate dehydrogenase. 1972 , 26, 220-36 | 38 |
| 2130 | Revised structure of aspartokinase I-homoserine dehydrogenase I of Escherichia coli K12. Evidence for four identical subunits. 1972 , 28, 507-19 | 86 |
| 2129 | Interaction between pyridoxamine 5'-phosphate and apo-aspartate aminotransferase from pig heart. Evidence for a negative cooperativity. 1972 , 30, 307-17 | 33 |
| 2128 | Conformational isomers of nitrosyl-haemoglobin. An electron-spin-resonance study. 1972 , 31, 578-84 | 60 |
| 2127 | Hemoglobins from trout: structural and functional properties. 1973 , 1, 189-96 | 64 |

| | | |
|------|---|-----|
| 2126 | The C-4 pathway in Pennisetum purpureum : I. The allosteric nature of PEP carboxylase. 1973 , 110, 95-107 | 103 |
| 2125 | Allosterie und Cooperativität bei Enzymen des Zellstoffwechsels. 1973 , 3, 40-49 | 5 |
| 2124 | Relationship between hill plots with variable exponents and determination of average free energy of interaction per site. 1973 , 1, 11-17 | 4 |
| 2123 | The bithorax complex--a model for cell determination in Drosophila. 1973 , 40, 455-67 | 13 |
| 2122 | Kinetics of the two-sited enzyme. II. A method of distinguishing between anticooperative and independent active sites based on competitive inhibition. 1973 , 39, 91-102 | 11 |
| 2121 | Relationship between ligand binding and conformational change of macromolecules in the two-state allosteric model. 1973 , 38, 579-85 | 2 |
| 2120 | Effect of diisopropylfluorophosphate, edrophonium and a stabilizing agent on the conformation of acetylcholinesterase. 1973 , 280, 339-51 | |
| 2119 | Kinetics of the sodium-dependent transport of gamma-aminobutyric acid by synaptosomes. 1973 , 21, 345-56 | 129 |
| 2118 | The interaction of glutamate dehydrogenase and malate dehydrogenase with phospholipid membranes. 1973 , 33, 418-27 | 48 |
| 2117 | Spin-labelled phosphofructokinase and its interactions with ATP and metal-ATP complexes as studied by magnetic-resonance methods. 1973 , 34, 28-40 | 24 |
| 2116 | Interaction of proflavine and acriflavine with acetylcholinesterase. 1973 , 37, 377-88 | 11 |
| 2115 | [Glutamate dehydrogenase. Modification of polyhexamers due to coenzymes and specific effective substances]. 1973 , 39, 157-69 | 13 |
| 2114 | Interconvertible forms of phosphofructokinase of rabbit liver. The role of effectors on the interconversion. 1973 , 39, 183-92 | 25 |
| 2113 | Mode of action of the macrolide-type antibiotic, chlorothricin. Kinetic study of the inhibition of pyruvate carboxylase from Bacillus stearothermophilus. 1973 , 39, 591-600 | 19 |
| 2112 | High-resolution proton NMR studies of low affinity hemoglobins. 1973 , 222, 9-20 | 20 |
| 2111 | Molecular conformation and cooperativity in hemoglobin. 1973 , 222, 40-55 | 3 |
| 2110 | Heme-spin-label studies on human hemoglobin. 1973 , 222, 68-85 | 12 |
| 2109 | Control of cooperative adsorption of solutes and water in living cells by hormones, drugs, and metabolic products. 1973 , 204, 325-36 | 20 |

| | | |
|------|---|-----|
| 2108 | Difficulties in distinguishing between different types of molecular interactivity. 1973 , 204, 410-5 | |
| 2107 | Effect of magnesium ion (Mg ²⁺) and magnesium adenosinetriphosphate ion (MgATP ²⁻) on pigeon kidney pyruvate carboxylase. 1973 , 54, 1603-10 | 5 |
| 2106 | Half-of-the sites reactivity and negative co-operativity: the case of yeast glyceraldehyde 3-phosphate dehydrogenase. 1973 , 80, 41-62 | 80 |
| 2105 | Half-of-the sites reactivity in the catalytic mechanism of yeast glyceraldehyde 3-phosphate dehydrogenase. 1973 , 80, 77-91 | 39 |
| 2104 | An aspartate transcarbamylase lacking catalytic subunit interactions. II. Regulatory subunits are responsible for the lack of co-operative interactions between catalytic sites. Drastic feedback inhibition does not restore these interactions. 1973 , 78, 687-702 | 47 |
| 2103 | Half-site reactivity and the "induced-fit" hypothesis. 1973 , 74, 73-8 | 61 |
| 2102 | Insulin interactions with its receptors: experimental evidence for negative cooperativity. 1973 , 55, 154-61 | 636 |
| 2101 | [Linear polymerisation and ligand fixation]. 1973 , 55, 405-11 | 9 |
| 2100 | pH-dependent intermediate plateaux in the kinetics of the reaction catalyzed by "biosynthetic" L-threonine dehydratase of <i>Escherichia coli</i> K-12. 1973 , 302, 110-28 | 15 |
| 2099 | An allosteric alpha-glucan phosphorylase from banana fruits. 1973 , 309, 280-8 | 12 |
| 2098 | Purification and properties of UDP-N-acetylglucosamine 2'-epimerase from rat liver. 1973 , 327, 193-206 | 27 |
| 2097 | The effect of NADP on the subunit structure and activity of spinach chloroplast glyceraldehyde-3-phosphate dehydrogenase. 1973 , 154, 324-31 | 75 |
| 2096 | Purification and molecular properties of the acetylcholine receptor from <i>Torpedo</i> electroplax. 1973 , 159, 362-73 | 192 |
| 2095 | Lactate dehydrogenase: electrophoretic behaviour, electron microscopy and structure. 1973 , 310, 248-63 | 5 |
| 2094 | Effect of divalent ions on pigeon kidney pyruvate carboxylase. 1973 , 37, 51-4 | 2 |
| 2093 | Apparent co-operative effect of acetyl-CoA on pigeon liver pyruvate carboxylase. 1973 , 30, 181-184 | 3 |
| 2092 | The study of allosteric proteins. 1973 , 27, 77-120 | 32 |
| 2091 | Cooperative binding of oxygen to hemoglobin: analysis of accurate equilibrium binding data. 1973 , 12, 2057-73 | 9 |

| | | | |
|------|---|-----|-----|
| 2090 | Fourth gaddum memorial lecture, school of pharmacy, university of london, january 1973. 1973 , 48, 475-95 | | 38 |
| 2089 | A conformational transition of the oligomer of glutamate dehydrogenase induced by half-saturation with NAD + or NADP +. 1973 , 309, 237-42 | | 37 |
| 2088 | [Theory of multiple equilibria for polymers]. 1973 , 55, 1159-62 | | 4 |
| 2087 | Local and gross conformational changes in aspartate transcarbamylase. <i>Biochemistry</i> , 1973 , 12, 2997-3004 | | 39 |
| 2086 | Relaxation spectra of aspartate transcarbamylase. Interaction of the native enzyme with an adenosine 5'-triphosphate analog. <i>Biochemistry</i> , 1973 , 12, 1400-8 | 3.2 | 73 |
| 2085 | Relaxation spectra of aspartate transcarbamylase. Interaction of the native enzyme with cytidine 5'-triphosphate. <i>Biochemistry</i> , 1973 , 12, 1395-400 | 3.2 | 11 |
| 2084 | Analysis of oxygen equilibrium of hemoglobin and control mechanism of organic phosphates. <i>Biochemistry</i> , 1973 , 12, 1491-8 | 3.2 | 143 |
| 2083 | Mathematics of hormone-receptor interaction. I. Basic principles. 1973 , 36, 289-326 | | 143 |
| 2082 | 7 Phosphofructokinase. 1973 , 239-278 | | 38 |
| 2081 | 13 N-Acetylglutamate-5-Phosphotransferase. 1973 , 9, 511-520 | | 2 |
| 2080 | Molecular interactions and structure as analysed by fluorescence relaxation spectroscopy. 1973 , 6, 139-99 | | 112 |
| 2079 | 15 Microbial Aspartokinases. 1973 , 509-553 | | 5 |
| 2078 | The significance of abrupt transitions in Lineweaver-Burk plots with particular reference to glutamate dehydrogenase. Negative and positive co-operativity in catalytic rate constants. 1973 , 131, 97-105 | | 52 |
| 2077 | Activation of a covalent enzyme-substrate bond by noncovalent interaction with an effector. 1973 , 70, 2077-81 | | 40 |
| 2076 | Statistical mechanics applied to cooperative ligand binding to proteins. 1973 , 70, 3914-8 | | 3 |
| 2075 | Dynamic Patterns in Active Transport. 1973 , 11, 341-355 | | 2 |
| 2074 | Heme proteins: quantum yield determined by the pulse method. 1973 , 70, 3141-4 | | 42 |
| 2073 | Allosteric Inhibitors. 1973 , 1-44 | | |

| | | |
|------|---|-----|
| 2072 | Pasteur effect and phosphofructokinase. 1974 , 8, 297-345 | 106 |
| 2071 | ELEMENTARY STEPS IN ENZYME CATALYSIS AND REGULATION. 1974 , 525-547 | |
| 2070 | On the respiratory function of haemoglobin. 1974 , 70, 1-31 | 49 |
| 2069 | Electronic structure of Fe ²⁺ in normal human hemoglobin and its isolated subunits. 1974 , 61, 3750-3758 | 77 |
| 2068 | EXCHANGE REACTIONS IN METABOLISM. 1974 , 9, 35-77 | 8 |
| 2067 | Mechanism of action of hemoglobin. 1974 , 25, 123-30 | 16 |
| 2066 | Oxygen binding in cyanmet hybrid and normal hemoglobins: applicability of sequential and two-state concerted models. 1974 , 184, 577-9 | 13 |
| 2065 | Biochemical studies on the shell gland of Japanese quail, <i>Coturnix coturnix japonica</i> . 2. Allosteric two components and their catalytic properties of pyruvate kinase in the shell gland. 1974 , 53, 898-913 | 2 |
| 2064 | Subunit interactions in enzyme catalysis. Kinetic models for one-substrate polymeric enzymes. 1974 , 41, 479-97 | 46 |
| 2063 | Subunit interactions in enzyme catalysis. Kinetic analysis of subunit interactions in the enzyme L-phenylalanine ammonia-lyase. 1974 , 41, 499-515 | 31 |
| 2062 | An approach for the determination of equilibrium constant of structural motility. Characterization of the fluctuational motion around residue Cys-153 of D-glyceraldehyde-3-phosphate dehydrogenase. 1974 , 43, 237-44 | 14 |
| 2061 | The role of acetyl-CoA in the reaction pathway of pig-liver pyruvate carboxylase. 1974 , 47, 549-54 | 8 |
| 2060 | The role of lysine and leucine binding on the catalytical and structural properties of aspartokinase III of <i>Escherichia coli</i> K 12. 1974 , 48, 147-56 | 15 |
| 2059 | Regulatory properties of the pyruvate-dehydrogenase complex from <i>Escherichia coli</i> . Thiamine pyrophosphate as an effector. 1974 , 48, 377-87 | 27 |
| 2058 | Regulatory behavior of monomeric enzymes. 1. The mnemonical enzyme concept. 1974 , 49, 195-208 | 156 |
| 2057 | Glutamate dehydrogenase. 1974 , 6, 89-123 | 13 |
| 2056 | Some equilibrium and non-equilibrium properties of the allosteric interactions in enzymes. I. Ligand binding and saturation equations. 1974 , 44, 131-40 | 4 |
| 2055 | Membrane model for the circadian clock. 1974 , 248, 116-20 | 260 |

| | | | |
|------|--|-----|----|
| 2054 | On site heterogeneity in sturgeon muscle GPDH: a kinetic approach. 1974 , 1, 161-74 | | 22 |
| 2053 | Analysis of conformationally-linked dissociation of proteins. 1974 , 2, 102-15 | | 5 |
| 2052 | A mechanical model for the half-of-the-sites reactivity of oligomeric enzymes. 1974 , 1, 358-66 | | 6 |
| 2051 | The binding of ligand by an associating protein system. 1974 , 45, 93-106 | | 7 |
| 2050 | Kinetic manifestations of allosteric interactions in models of regulatory enzymes with "indirect" co-operativity. 1974 , 47, 1-41 | | 17 |
| 2049 | The hierarchical structure of metabolic networks and the construction of efficient metabolic simulators. 1974 , 46, 31-74 | | 37 |
| 2048 | Multi-random binding molecular interactions: a general kinetic model. 1974 , 44, 241-70 | | 9 |
| 2047 | Some equilibrium and nonequilibrium properties of the allosteric interactions in enzymes. II. Allosteric effect in the absence of a rapid equilibrium between substrate and enzyme. 1974 , 48, 173-81 | | 3 |
| 2046 | A fluorescent probe for the coenzyme-induced structural changes in glyceraldehyde-3-phosphate dehydrogenase from rabbit muscle. 1974 , 371, 102-6 | | 13 |
| 2045 | Phosphoenolpyruvate carboxylase of <i>Escherichia coli</i> . Multiple conformational states elicited by allosteric effectors. <i>Biochemistry</i> , 1974 , 13, 5121-8 | 3.2 | 25 |
| 2044 | Cooperativity in associating proteins. Monomer-dimer equilibrium coupled to ligand binding. <i>Biochemistry</i> , 1974 , 13, 5214-9 | 3.2 | 33 |
| 2043 | The interaction of cyclic 3',5'-adenosine monophosphate with yeast glyceraldehyde-3-phosphate dehydrogenase. I. Equilibrium dialysis studies. <i>Biochemistry</i> , 1974 , 13, 4196-9 | 3.2 | 5 |
| 2042 | Different expressions of cooperativity in the kinetics of two forms of cytoplasmic malic dehydrogenase. <i>Biochemistry</i> , 1974 , 13, 3243-50 | 3.2 | 4 |
| 2041 | Cooperative binding of magnesium to transfer ribonucleic acid studied by a fluorescent probe. <i>Biochemistry</i> , 1974 , 13, 1841-52 | 3.2 | 96 |
| 2040 | Effects of procaine and d-tubocurarine on the activity of membrane bound acetylcholinesterase. 1974 , 23, 725-33 | | 8 |
| 2039 | Regulation of sodium transport in erythrocytes. 1974 , 160, 552-60 | | 10 |
| 2038 | The binding sites for substrate and effectors on glycogen phosphorylase b. 1974 , 341, 447-56 | | 3 |
| 2037 | Conformational changes in phosphorylase a, studied by a spin label probe. 1974 , 358, 275-280 | | 14 |

| | | |
|------|--|-----|
| 2036 | Evidence for cooperative binding of Triton X-100 to bovine serum albumin. 1974 , 42, 36-41 | 8 |
| 2035 | The quantitative interpretation of maximum in Scatchard plots. 1974 , 49, 267-8 | 31 |
| 2034 | Heme proteins: hemoglobin. 1974 , 40, suppl:S98-104 | 2 |
| 2033 | Evidence for positive cooperativity in antigen-antibody reactions. 1974 , 40, 13-7 | 12 |
| 2032 | The effects of pH on the equilibrium constants of various models for the haemoglobin-oxygen equilibrium in vitro. 1974 , 20, 209-30 | 9 |
| 2031 | Binding of an inducer to the lac repressor. 1974 , 89, 127-36 | 24 |
| 2030 | Interaction of manganese with fragments, complementary fragment recombinations, and whole molecules of yeast phenylalanine specific transfer RNA. 1974 , 86, 601-20 | 89 |
| 2029 | Three-dimensional structure of D-glyceraldehyde-3-phosphate dehydrogenase. 1974 , 90, 25-49 | 241 |
| 2028 | Letter: Kinetic negative co-operativity in the allosteric model of Monod, Wyman and Changeux. 1974 , 90, 185-90 | 10 |
| 2027 | A general approach to co-operativity and its application to the oxygen equilibrium of hemoglobin and its effectors. 1974 , 82, 231-65 | 77 |
| 2026 | Mechanism of regulation of the malic enzyme from Fusarium. 1974 , 20, 443-54 | 2 |
| 2025 | Structure, function, and possible origin of a bifunctional allosteric enzyme, Escherichia coli aspartokinase I-homoserine dehydrogenase I. 1974 , 2, 379-415 | 30 |
| 2024 | Ligand-induced oligomerization and regulatory mechanism. 1974 , 2, 343-78 | 14 |
| 2023 | Evaluation of the Hill coefficient for yeast aspartate transcarbamylase by nonlinear regression analysis. 1974 , 52, 1137-42 | 4 |
| 2022 | Half-site reactivity. 1974 , 2, 227-57 | 117 |
| 2021 | Nuclear magnetic resonance in the study of biopolymers. 1974 , 28, 1-40 | 5 |
| 2020 | Comparison study of ferrous ions in deoxygenated Hb-A and its isolated subunits. 1974 , 60, 1295-301 | 7 |
| 2019 | Half-of-the-sites reactivity of the membrane-bound Electrophorus electricus acetylcholine receptor. 1974 , 60, 1072-80 | 21 |

| | | |
|------|--|-----|
| 2018 | [Determination of affinity constants of hemoglobin for oxygen. The bascule effect of oxyhemoglobin and its biological importance]. 1974 , 56, 355-62 | 2 |
| 2017 | X-Ray Studies of Protein Interactions. 1974 , 43, 475-507 | 153 |
| 2016 | Cooperative interactions in aspartate transcarbamoylase. 1. Hybrids composed of native and chemically inactivated catalytic polypeptide chains. 1974 , 71, 4452-6 | 26 |
| 2015 | The three-state model: a minimal allosteric description of homotropic and heterotropic effects in the binding of ligands to hemoglobin. 1974 , 71, 1418-21 | 80 |
| 2014 | Acetylcholine receptors. 1974 , 7, 283-399 | 148 |
| 2013 | Regulatory effects of polyamines on membrane-bound acetylcholinesterase. 1974 , 144, 21-7 | 50 |
| 2012 | The mechanism of interaction of red cell organic phosphates with hemoglobin. 1974 , 28, 211-37 | 100 |
| 2011 | 16. CTP Synthetase and Related Enzymes. 1974 , 539-559 | 15 |
| 2010 | Calorimetric studies of the role of magnesium ions in yeast enolase catalysis. 1974 , 71, 1083-7 | 36 |
| 2009 | Allosteric interpretation of haemoglobin properties. 1975 , 8, 325-420 | 180 |
| 2008 | Acetylcholine-receptor-mediated ion flux in electroplax membrane preparations. 1975 , 72, 4371-5 | 42 |
| 2007 | Theory of protein-ligand interaction. 1975 , 36, 3-16 | 44 |
| 2006 | Co-operative binding of oxytocin to bovine neurophysin II. 1975 , 147, 377-9 | 15 |
| 2005 | Microbial L-phenylalanine ammonia-lyase. Purification, subunit structure and kinetic properties of the enzyme from <i>Rhizoctonia solani</i> . 1975 , 149, 65-72 | 41 |
| 2004 | Sigmoid curves, non-linear double-reciprocal plots and allosterism. 1975 , 149, 313-28 | 97 |
| 2003 | Phases and phase structure in biological systems. 1975 , 416, 237-86 | 19 |
| 2002 | Intrinsic asymmetry of oligomer transitions and biomolecular evolution. 1975 , 5, 125-30 | |
| 2001 | Sturgeon glyceraldehyde-3-phosphate dehydrogenase. 1975 , 57, 69-78 | 29 |

| | | |
|------|---|-----|
| 2000 | The allosteric properties of beef-liver fructose biphosphatase. 1975 , 58, 575-85 | 43 |
| 1999 | The pyruvate-dehydrogenase complex from <i>Azotobacter vinelandii</i> . 2. Regulation of the activity. 1975 , 59, 347-53 | 30 |
| 1998 | On the pH-dependence of the reaction of hemoglobin with carbon monoxide. 1975 , 52, 589-93 | 2 |
| 1997 | Spin-labelled phosphofructokinase. A simple and direct approach to the study of allosteric equilibria under near-physiological conditions. 1975 , 60, 187-98 | 11 |
| 1996 | A quantitative model of cooperative effects in aspartate transcarbamylase and related hybrid molecules. 1975 , 14, 19-32 | 1 |
| 1995 | Analysis of the effects of chloride and 2,3-diphosphoglycerate on the cooperative binding of oxygen to hemoglobin. 1975 , 14, 1273-81 | 2 |
| 1994 | Hypothesis on the role of liganded states of proteins in energy transducing systems. 1975 , 7, 230-44 | 4 |
| 1993 | Allosteric and related phenomena: an analysis of sigmoid and non-hyperbolic functions. 1975 , 50, 45-58 | 26 |
| 1992 | Co-operative regulation mechanism of muscle contraction: inter-tropomyosin co-operation model. 1975 , 50, 269-83 | 14 |
| 1991 | Letter: The physiological significance of negative co-operativity. 1975 , 51, 233-5 | 13 |
| 1990 | Instabilities, oscillations and chemical waves in an oligomeric model for membrane transport. 1975 , 49, 219-39 | 17 |
| 1989 | Effect of magnesium ion (Mg^{2+}) and the magnesium adenosine triphosphate ion ($MgATP^{2-}$) on pigeon liver pyruvate carboxylase. 1975 , 20, 98-110 | 3 |
| 1988 | Two molecular forms of thymidine kinase in the cytosol of regenerating rat liver. 1975 , 78, 1215-24 | 40 |
| 1987 | Quaternary Structure of Proteins. 1975 , 293-411 | 41 |
| 1986 | Energetics of ligand binding to proteins. 1975 , 29, 1-83 | 412 |
| 1985 | Characterization of the effects of Mg^{2+} on Ca^{2+} - and Sr^{2+} -activated tension generation of skinned skeletal muscle fibers. 1975 , 66, 427-44 | 172 |
| 1984 | The control properties of phosphofructokinase in relation to the respiratory climacteric in banana fruit. 1975 , 55, 45-50 | 41 |
| 1983 | Cooperative interactions of hemoglobin. 1975 , 44, 209-32 | 149 |

| | | | |
|------|--|-----|-----|
| 1982 | Peptides and behavior. 1975 , 17, 37-60 | | 23 |
| 1981 | Analysis of the conformation of polypeptides : the combined use of energy computations and nuclear magnetic resonance studies. 1975 , 57, 471-82 | | 6 |
| 1980 | Analysis of the allosteric basis for positive and negative co-operativity and half-of-the-sites reactivity in yeast and rabbit muscle glyceraldehyde 3-phosphate dehydrogenase. 1975 , 97, 483-517 | | 13 |
| 1979 | Absence of kinetic negative co-operativity in the allosteric model of Monod, Wyman and Changeux. 1975 , 97, 667-71 | | 12 |
| 1978 | A 5 A x-ray diffraction study of coenzyme-deficient lactate dehydrogenase: NAD-pyruvate ternary complex. 1975 , 98, 259-64 | | 1 |
| 1977 | Pseudoconservative transition: a two-state model for the co-operative behavior of oligomeric proteins. 1975 , 92, 193-205 | | 25 |
| 1976 | Diagnostic uses of the Hill (Logit and Nernst) plots. 1975 , 95, 201-12 | | 173 |
| 1975 | Malate dehydrogenase, anticooperative NADH, and L-malate binding in ternary complexes with Supernatant pig heart enzyme. <i>Biochemistry</i> , 1975 , 14, 3490-7 | 3.2 | 17 |
| 1974 | Correlation between quaternary structure and ligand dissociation kinetics for fully liganded hemoglobin. <i>Biochemistry</i> , 1975 , 14, 2180-90 | 3.2 | 69 |
| 1973 | Generalization of the model by Monod, Wyman and Changeux for the case of a reversible monosubstrate reaction SR,TP. 1975 , 53, 269-73 | | 14 |
| 1972 | Histidine-dependent activation of arginine deiminase in <i>Clostridium sporogenes</i> : kinetic evidence on in vivo allosteric interactions. 1975 , 51, 246-8 | | 6 |
| 1971 | Quantitative aspects of hormone-receptor interactions of high affinity. Effect of receptor concentration and measurement of dissociation constants of labeled and unlabeled hormones. 1975 , 406, 294-303 | | 177 |
| 1970 | Conformational changes of glyceraldehyde-3-phosphate dehydrogenase induced by the binding of NAD. A unified model for positive and negative cooperativity. 1975 , 410, 243-51 | | 15 |
| 1969 | Kinetic properties and related changes of molecular weight in a fructokinase from <i>Streptomyces violaceoruber</i> . 1975 , 377, 258-70 | | 8 |
| 1968 | Studies on the reaction mechanism of DT diaphorase. Intermediary plateau and trough regions in the initial velocity vs substrate concentration curves. 1975 , 169, 568-76 | | 24 |
| 1967 | Calculation of the energy difference between the quaternary structures of deoxy- and oxyhemoglobin. 1975 , 405, 388-403 | | 8 |
| 1966 | Allosteric interactions of the membrane-bound acetylcholine reception: kinetic studies with alpha-bungarotoxin. 1975 , 64, 1018-27 | | 36 |
| 1965 | Origins of regulatory behavior. 1975 , 13, 339-53 | | 1 |

| | | | |
|------|---|-----|-----|
| 1964 | Nuclear magnetic resonance studies of hemoglobin: functional state correlations and isotopic enrichment strategies. 1975 , 3, 221-87 | | 45 |
| 1963 | The specificity of induced conformational changes. The case of yeast glyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , 1975 , 14, 3661-9 | 3.2 | 40 |
| 1962 | The control of pyruvate kinases of Escherichia coli. II. Effectors and regulatory properties of the enzyme activated by ribose 5-phosphate. 1975 , 53, 444-54 | | 57 |
| 1961 | A novel phosphodiesterase from cultured tobacco cells. <i>Biochemistry</i> , 1976 , 15, 2185-90 | 3.2 | 102 |
| 1960 | Acetylcholinesterase. 1976 , 57, 1347-1357 | | 4 |
| 1959 | Conformational transitions of the lac repressor from Escherichia coli. 1976 , 100, 459-72 | | 22 |
| 1958 | The functional relationship between polymerization and catalytic activity of beef liver glutamate dehydrogenase. I. Theory. 1976 , 108, 151-78 | | 18 |
| 1957 | Kinetics of co-operative ligand binding in proteins: the effects of organic phosphates on hemoglobin oxygenation. 1976 , 103, 89-126 | | 4 |
| 1956 | Relationship between structure and chemical reactivity in D-glyceraldehyde 3-phosphate dehydrogenase. Trinitrophenylation of the lysine residues in yeast, sturgeon and rabbit muscle enzyme. 1976 , 105, 275-91 | | 5 |
| 1955 | Antico-operative binding of bacterial and mammalian initiator tRNAMet to methionyl-tRNA synthetase from escherichia coli. 1976 , 103, 765-84 | | 32 |
| 1954 | Cooperative binding of calcium to glycerinated skeletal muscle fibers. 1976 , 440, 448-55 | | 16 |
| 1953 | The interaction of phosphorylase B with AMP. 1976 , 445, 610-21 | | 8 |
| 1952 | X-ray enzymology. 1976 , 62, E30-6 | | 8 |
| 1951 | Role of flexibility in the specificity, control and evolution of enzymes. 1976 , 62, E47-52 | | 30 |
| 1950 | Allosteric behavior irrespective of conformational change of enzyme protein. Sigmoidal concentration dependence of rate of action of saccharifying alpha-amylase on maltose. 1976 , 72, 283-6 | | 4 |
| 1949 | Computer estimation of the parameters of the sigmoidal kinetic model. 1976 , 6, 1-7 | | 19 |
| 1948 | Antibodies as allosteric proteins--I. A hypothesis. 1976 , 13, 725-30 | | 8 |
| 1947 | Energy and the maintenance of steady states. 1976 , 14, 229-41 | | 2 |

| | | |
|------|---|-----|
| 1946 | Structure and function of haemoglobin. 1975 , 29, 225-320 | 229 |
| 1945 | Activation of aspartase by glycerol. 1976 , 68, 1082-7 | 13 |
| 1944 | An Allosteric Enzyme Model with Positive Feedback Applied to Glycolytic Oscillations. 1976 , 65-160 | 68 |
| 1943 | Nuclear magnetic resonance study of heme-heme interaction in hemoglobin M Milwaukee: implications concerning the mechanism of cooperative ligand binding in normal hemoglobin. 1976 , 73, 1581-5 | 30 |
| 1942 | Rate of quaternary structure change in hemoglobin measured by modulated excitation. 1976 , 73, 4497-501 | 25 |
| 1941 | Simple model for hormone-activated adenylate cyclase systems. 1976 , 73, 1189-92 | 36 |
| 1940 | Regulation of AMP deaminase from chicken erythrocytes. A kinetic study of the allosteric interactions. 1976 , 80, 299-308 | 25 |
| 1939 | Influence of complexing agents on stability and activity. 1976 , 153, 151-7 | 14 |
| 1938 | A new method for deriving steady-state rate equations suitable for manual or computer use. 1976 , 155, 567-70 | 39 |
| 1937 | Bacterial catabolism of threonine. Threonine degradation initiated by L-threonine-NAD ⁺ oxidoreductase. 1976 , 156, 449-58 | 41 |
| 1936 | Simplifications of the derivations and forms of steady-state equations for non-equilibrium random substrate-modifier and allosteric enzyme mechanisms. 1976 , 159, 449-56 | 29 |
| 1935 | 1 Glyceraldehyde-3-phosphate Dehydrogenase. 1976 , 1-49 | 122 |
| 1934 | Membrane receptors and hormone action. 1976 , 30, 251-451 | 368 |
| 1933 | Covalently bound glutamate dehydrogenase for studies of subunit association and allosteric regulation. 1976 , 44, 504-15 | 13 |
| 1932 | How an enzyme works. 1976 , 9, 155-9 | |
| 1931 | New methods for the study of complex enzyme kinetics illustrated by analysis of the wavy curves of v versus (S) and non-linear double-reciprocal plots for human-placental 15-hydroxyprostaglandin dehydrogenase. 1976 , 68, 611-9 | 16 |
| 1930 | Nuclear-magnetic-relaxation studies of the interaction of inhibitor with the threonine-sensitive aspartokinase of <i>Escherichia coli</i> . 1976 , 69, 249-55 | 3 |
| 1929 | Separation of malate dehydrogenase isoenzymes by affinity chromatography on 5'-AMP-Sepharose. 1976 , 71, 25-32 | 37 |

| | | |
|------|--|-----|
| 1928 | Chorismate mutase/prephenate dehydratase from <i>Escherichia coli</i> K12. 1. The effect of NaCl and its use in a new purification involving affinity chromatography on sepharosyl-phenylalanine. 1976 , 71, 317-25 | 46 |
| 1927 | An analysis on the slope of Scatchard plots. 1976 , 71, 529-32 | 22 |
| 1926 | Effect of ethanol on the kinetic parameters of brain (Na ⁺ + K ⁺)-activated adenosine triphosphatase. 1976 , 273, 331-7 | 17 |
| 1925 | Theories of enzyme specificity and their application to proteases and aminoacyl-transfer RNA synthetases. 1976 , 32, 949-63 | 11 |
| 1924 | On the allosteric transition between the structures of high and low ligand affinity in carp hemoglobin. 1976 , 446, 547-53 | 7 |
| 1923 | Dependence of magneto-optical rotatory dispersion and magnetic circular dichroism of deoxy- and methemoglobin on their quaternary structure. 1976 , 434, 440-51 | 6 |
| 1922 | Pyruvate kinase: A model allosteric enzyme for demonstration of structure-function relationships. 1976 , 7, 439-443 | 11 |
| 1921 | A study of the inhibition of rabbit muscle pyruvate kinase which occurs when the total concentration of any of its substrates is increased. 1976 , 7, 625-632 | 4 |
| 1920 | Purification and steady state kinetic mechanism of glycogen synthase-D from human polymorpho-nuclear leukocytes. 1976 , 12, 45-61 | 8 |
| 1919 | Properties of glutamate dehydrogenase from <i>Lemna minor</i> . 1976 , 15, 1611-1617 | 33 |
| 1918 | A note on the kinetics of uptake of D-glucose by the food yeast, <i>Candida utilis</i> . 1976 , 111, 193-4 | 11 |
| 1917 | The glycoside receptor of the larvae of <i>Mamestra brassicae</i> L. (Lepidoptera, Noctuidae). 1976 , 106, 153-176 | 69 |
| 1916 | Cooperative properties of hormone receptors in cell membranes. 1976 , 4, 241-58 | 143 |
| 1915 | Comparison of the effects of chemical and isotopic dilution on the dissociation of bound labeled ligands. 1976 , 70, 366-76 | 16 |
| 1914 | Kinetic cooperativity in the concerted model for allosteric enzymes. 1976 , 4, 159-69 | 23 |
| 1913 | Catalysts and enzymes. 1976 , 1, 173-200 | 7 |
| 1912 | Thermodynamic restrictions on the allosteric models through an analysis of the free energy of interaction between sites. 1976 , 63, 421-41 | 4 |
| 1911 | The theoretical analysis of kinetic behaviour of "hysteretic" allosteric enzymes. I. The kinetic manifestations of slow conformational change of an oligomeric enzyme in the Monod, Wyman and Changeux model. 1976 , 60, 247-69 | 42 |

| | | |
|------|---|-----|
| 1910 | Derivation and properties of Michaelis-Menten type and Hill type equations for reference ligands. 1976 , 59, 253-76 | 250 |
| 1909 | Activation of pepsin (EC 3.4.4.1) by heavy-metal ions including a contribution to the mode of action of copper sulphate in pig nutrition. 1976 , 36, 15-22 | 21 |
| 1908 | Distinctions between the two-state and sequential models for cooperative ligand binding. 1977 , 74, 139-43 | 10 |
| 1907 | Ligand-promoted weakening of intersubunit bonding domains in aspartate transcarbamoylase. 1977 , 74, 3777-81 | 25 |
| 1906 | Tension in mechanically disrupted mammalian cardiac cells: effects of magnesium adenosine triphosphate. 1977 , 265, 1-17 | 55 |
| 1905 | Reaction Mechanism of Saccharifying α -Amylase from <i>B. subtilis</i> 1 with Maltose as a Substrate2. 1977 , | |
| 1904 | Coenzyme binding and co-operativity in D-glyceraldehyde 3-phosphate dehydrogenase. 1977 , 5, 647-52 | 17 |
| 1903 | The active site of yeast phosphoglycerate kinase. 1977 , 5, 652-4 | 11 |
| 1902 | A comparison of the binding of glucose of dimeric yeast hexokinase P-I and P-II isoenzymes [proceedings]. 1977 , 5, 776-8 | 4 |
| 1901 | Some examples of the use of the theoretical-parent-hyperbola concept in enzyme kinetics [proceedings]. 1977 , 5, 785-9 | 5 |
| 1900 | An investigation of the interactions of the allosteric modifiers of pyruvate kinase with the enzyme from <i>Carcinus maenas</i> hepatopancreas. 1977 , 165, 97-105 | 15 |
| 1899 | Kinetics of nitrogenase of <i>Klebsiella pneumoniae</i> . Heterotropic interactions between magnesium-adenosine 5'-diphosphate and magnesium-adenosine 5'-triphosphate. 1977 , 165, 255-62 | 35 |
| 1898 | A model for the allosteric regulation of pH-sensitive enzymes. 1977 , 167, 479-82 | 3 |
| 1897 | Macromolecular interactions in enzyme regulation. 1976 , 15, 233-65 | 43 |
| 1896 | Modulation of enzymic activity. 1977 , 1, 283-366 | 4 |
| 1895 | A kinetic model of cooperativity in aspartate transcarbamylase. 1977 , 18, 245-67 | 3 |
| 1894 | Apparent positive cooperativity of ACTH action on adrenocortical cells: the effect of hormone degradation. 1977 , 6, 211-6 | 7 |
| 1893 | The two-step model of ligand-receptor interaction. 1977 , 7, 33-47 | 54 |

| | | |
|------|--|----|
| 1892 | Proton nuclear magnetic resonance studies of hemoglobin M Milwaukee and their implications concerning the mechanism of cooperative oxygenation of hemoglobin. <i>Biochemistry</i> , 1977 , 16, 1452-62 ^{3,2} | 39 |
| 1891 | Statistical-mechanical modeling of a regulatory protein: the lactose repressor. 1977 , 36, 61-86 | 2 |
| 1890 | L-Phenylalanine ammonia-lyase (maize, potato, and <i>Rhodotorula glutinis</i>) Explaining the kinetic effects of substrate modification by linear free-energy relationships. 1977 , 180, 102-13 | 12 |
| 1889 | Catalytic and ligand-binding properties of rat intestinal alkaline phosphatase. 1977 , 179, 113-20 | 6 |
| 1888 | A plausible sequence of the conformational changes of hemoglobin induced by oxygenation. 1977 , 179, 706-14 | 1 |
| 1887 | Properties of the calcium-sensitive components of bovine arterial actomyosin. 1977 , 182, 24-32 | 21 |
| 1886 | <i>Escherichia coli</i> phosphoenolpyruvate carboxylase: studies on the mechanism of multiple allosteric interactions. 1977 , 183, 538-52 | 17 |
| 1885 | Allosteric and non-allosteric phosphofructokinases from <i>Lactobacilli</i> . Purification and properties of phosphofructokinases from <i>L. plantarum</i> and <i>L. acidophilus</i> . 1977 , 481, 450-62 | 18 |
| 1884 | Localization, purification and substrate specificity of monoamine oxidase. 1977 , 480, 56-69 | 7 |
| 1883 | Models of dissociable receptors applicable to cyclic AMP-dependent protein kinases and membrane receptors. 1977 , 7, 275-95 | 13 |
| 1882 | The Respiratory Functions of Blood. 1977 , | 29 |
| 1881 | Bibliography. 1977 , 283-286 | |
| 1880 | Double-site enzymes and squatting. A study of the regulation by one or several ligands binding at two different classes of site. 1977 , 68, 365-83 | 10 |
| 1879 | A simple model for a regulatory enzyme. 1977 , 68, 391-413 | 23 |
| 1878 | Structural changes and fluctuations of proteins. I. A statistical thermodynamic model. 1977 , 6, 117-30 | 48 |
| 1877 | A haemagglutinin in the tissue fluid of the Pacific oyster, <i>Crassostrea gigas</i> , with specificity for sialic acid residues in glycoproteins. 1977 , 33, 767-9 | 43 |
| 1876 | Bestimmung von Enzym-Coenzym-Dissoziationskonstanten durch Verdrängung von Tetrajodfluorescein aus den Enzym-Farbstoff-Komplexen. 1977 , 286, 232-238 | 1 |
| 1875 | Shape of phosphofructokinase from <i>Escherichia coli</i> in solution. 1977 , 92, 43-56 | 11 |

| | | |
|------|--|-----|
| 1874 | Sequence and structure of D-glyceraldehyde 3-phosphate dehydrogenase from <i>Bacillus stearothermophilus</i> . 1977 , 266, 328-33 | 315 |
| 1873 | [Methionyl-tRNA synthetase from wheat embryo: dissociation into subunits (author's transl)]. 1977 , 73, 607-15 | 15 |
| 1872 | Ca ²⁺ -dependent allosteric regulation of nicotinamide nucleotide transhydrogenase from <i>Pseudomonas aeruginosa</i> . 1977 , 77, 235-41 | 6 |
| 1871 | The interactive binding of two ligands by an allosteric protein. 1977 , 78, 127-32 | 7 |
| 1870 | Glutamate dehydrogenases from <i>Chlorella</i> : forms, regulation and properties. 1977 , 15, 201-12 | 28 |
| 1869 | Some kinetic features of membrane-bound monoamine oxidase. 1977 , 83, 324-326 | |
| 1868 | The place of symmetry in the study of biological macromolecules. 1978 , 9, 1-8 | 4 |
| 1867 | Co-operative ligand binding in a protein composed of subunits. 1978 , 74, 559-78 | 2 |
| 1866 | On the analysis of futile cycles in metabolism. 1978 , 72, 487-522 | 35 |
| 1865 | The determination of positive and negative co-operativity with allosteric enzymes and the interpretation of sigmoid curves and non-linear double reciprocal plots for the MWC and KNF models. 1978 , 70, 135-56 | 11 |
| 1864 | The interaction of liver alcohol dehydrogenase with NADH as studied by differential protein denaturation. 1978 , 537, 446-55 | 1 |
| 1863 | Hormone receptors. 1978 , 2, 137-41 | 3 |
| 1862 | Allosteric cotransport of sodium, chloride, and calcium by the intestine of freshwater prawns. 1978 , 42, 281-300 | 21 |
| 1861 | Factorability of the Hessian of the binding polynomial. The central issue concerning statistical ratios between binding constants, Hill plot slope and positive and negative co-operativity. 1978 , 72, 321-72 | 29 |
| 1860 | Co-operative response of chemically excitable membrane. I. Formulation: unified theory of co-operativity. 1978 , 71, 567-85 | 13 |
| 1859 | cAMP binding to cell surface receptors of <i>Dictyostelium</i> . 1978 , 10, 171-6 | 40 |
| 1858 | Chorismate mutase/prephenate dehydratase from <i>Escherichia coli</i> K12. Effect of phenylalanine, NaCl and pH on the protein conformation. 1978 , 86, 159-64 | 9 |
| 1857 | Chorismate mutase/prephenate dehydratase from <i>Escherichia coli</i> K12. Binding studies with the allosteric effector phenylalanine. 1978 , 86, 165-74 | 17 |

| | | |
|------|---|-----|
| 1856 | A new method to characterize saturation functions by their first four moments. 1978 , 91, 32-45 | 3 |
| 1855 | The meaning of Scatchard and Hill plots. 1978 , 48, 270-99 | 240 |
| 1854 | The physical aspects of energy transduction in biological systems. 1978 , 11, 251-308 | 36 |
| 1853 | Phenylalanine analogues as inhibitors of phenylalanine-hydroxylase from rat liver. New conclusions concerning kinetic behaviors of the enzyme. 1978 , 60, 787-94 | 19 |
| 1852 | High-affinity binding of the antiestrogen [3H]tamoxifen to the 8S estradiol receptor. 1978 , 11, 181-98 | 70 |
| 1851 | Estimation of parameters in a multi-affinity-state model for haemoglobin from oxygen binding data in whole blood and in concentrated haemoglobin solutions. 1978 , 121, 507-22 | 11 |
| 1850 | Theoretical models for cooperative binding I. one-site creator of binding sites. 1978 , 41, 189-215 | 12 |
| 1849 | Theoretical models for cooperative binding II. two-site creator of sites and destruction of pre-existing sites. 1978 , 41, 217-230 | 5 |
| 1848 | Theoretical models for cooperative binding III. positive and negative site-site cooperativity. 1978 , 41, 231-240 | 3 |
| 1847 | Interaction of pyridoxal 5-phosphate with apo-serine hydroxymethyltransferase. 1978 , 526, 369-74 | 10 |
| 1846 | Inhibition of dehydrogenase enzymes by hexachlorophene. 1978 , 27, 2947-53 | 11 |
| 1845 | Joint meeting of the Biochemical Society and the Gesellschaft für Biologische Chemie. September 11 to 13, 1978 in Konstanz. Abstracts. 1978 , 359, 1051-171 | |
| 1844 | Co-operativity and the methods of plotting binding and steady-state kinetic data. 1978 , 171, 501-4 | 23 |
| 1843 | Generalized microscopic reversibility, kinetic co-operativity of enzymes and evolution. 1978 , 175, 779-91 | 29 |
| 1842 | Biogenesis of the Photochemical Apparatus. 1978 , 159-196 | 9 |
| 1841 | Molecular mechanisms of steroid hormone action. 1978 , 28, 313-97 | 93 |
| 1840 | Subunit structure of acetate kinase from <i>Bacillus stearothermophilus</i> as studied by hybridization and cross-linking experiments. 1978 , 84, 1139-46 | 7 |
| 1839 | A comparison of X-ray small-angle scattering results to crystal structure analysis and other physical techniques in the field of biological macromolecules. 1978 , 11, 39-70 | 33 |

| | | |
|------|--|-----|
| 1838 | The molecular mechanism of excitation in visual transduction and bacteriorhodopsin. 1978 , 75, 549-53 | 90 |
| 1837 | Thymidine kinase enzyme variants in <i>Physarum polycephalum</i> . Kinetics and properties of the enzyme variants. 1979 , 86, 1607-14 | 10 |
| 1836 | A non-equilibrium biochemical control theory based on lateral diffusion [proceedings]. 1979 , 7, 1142-5 | 3 |
| 1835 | Hemoglobin and Myoglobin Ligand Kinetics. 1979 , 30, 503-546 | 61 |
| 1834 | Principles of Protein Structure. 1979 , | 821 |
| 1833 | Physiology of thermophilic bacteria. 1979 , 19, 149-243 | 61 |
| 1832 | References. 1979 , 212-218 | |
| 1831 | Electrical conduction of hemoprotein in the solid phase: Anhydrous cytochrome c3 film. 1979 , 70, 3317-3323 | 46 |
| 1830 | Motions in proteins. 1979 , 33, 73-165 | 222 |
| 1829 | Mechanism for unwinding of double-helical polynucleotides by formaldehyde. 1979 , 18, 1439-64 | 2 |
| 1828 | The Art of Titration. From Classical End Points to Modern Differential and Dynamic Analysis. 1979 , 18, 20-49 | 36 |
| 1827 | Die Kunst zu Titrieren. Vom klassischen Endpunktverfahren zur modernen differentiellen und dynamischen Analyse. 1979 , 91, 20-51 | 6 |
| 1826 | Chromatographic evidence of the self-association of oxyhemoglobin in concentrated solutions: its biological implications. 1979 , 10, 17-26 | 33 |
| 1825 | A model for the behaviour of phosphorylase b. The generation of different binding sites via intermediate enzymatic states. 1979 , 9, 251-62 | 2 |
| 1824 | An examination of the forms of scatchard plots of binding results outside domains of sigmoidality. 1979 , 80, 39-50 | 8 |
| 1823 | Regulation of enzyme activity in adsorptive enzyme systems. 1979 , 79, 281-301 | 11 |
| 1822 | Why are enzymes macromolecules?. 1979 , 66, 498-504 | 20 |
| 1821 | Theoretical studies of hemoproteins. I. Mathematical description of the allosteric effect. 1979 , 15, 379-387 | 2 |

| | | |
|------|---|-----|
| 1820 | Ligand competition curves as a diagnostic tool for delineating the nature of site-site interactions: theory. 1979 , 102, 449-65 | 23 |
| 1819 | The influence of electrostatic interaction on the proton-binding behaviour of myo-inositol hexakisphosphate. 1979 , 94, 297-306 | 22 |
| 1818 | Chemical reactivity of metalloproteins in conformationally out-of-equilibrium states. 1979 , 549, 255-80 | 20 |
| 1817 | Conformational influences on brain tryptophan hydroxylase by submicromolar calcium: opposite effects of equimolar lithium. 1979 , 45, 1-15 | 26 |
| 1816 | Some properties of starch phosphorylase from cotyledons of germinating seeds of <i>Voandzeia subterranea</i> . 1979 , 567, 331-8 | 2 |
| 1815 | Induced fit as a determinative of ionophore selectivity. 1979 , 91, 1117-22 | 11 |
| 1814 | Kinetics of carboxymyoglobin and oxymyoglobin studied by picosecond spectroscopy. 1979 , 25, 455-64 | 31 |
| 1813 | Slow transitions and hysteretic behavior in enzymes. 1979 , 48, 471-89 | 271 |
| 1812 | Temporal and spatial order in biochemical systems. 1979 , 316, 203-13 | 30 |
| 1811 | Conformational changes induced in anti-poly(L-prolyl) antibodies by oligoproline haptens of different sizes. 1979 , 16, 651-6 | 4 |
| 1810 | Coupling between the enzymatic site of myosin and the mechanical output of muscle. 1979 , 128, 111-26 | 80 |
| 1809 | Allosteric properties and the association equilibria of hemocyanin from <i>Callinassa californiensis</i> . 1979 , 134, 41-73 | 51 |
| 1808 | Kinetics of Cooperative Binding. 1979 , 143-192 | 7 |
| 1807 | Patterns of apparent co-operativity in a simple random non-equilibrium enzyme--substrate--modifier mechanism. Comparison with equilibrium allosteric models. 1979 , 177, 631-9 | 6 |
| 1806 | The atypical velocity response by pyruvate carboxylase to increasing concentrations of acetyl-coenzyme A. 1979 , 179, 497-502 | 6 |
| 1805 | The kinetics of effector binding to phosphofructokinase. The allosteric conformational transition induced by 1,N6-ethenoadenosine triphosphate. 1979 , 183, 349-60 | 7 |
| 1804 | Quaternary enhancement in binding of oxygen by human hemoglobin. 1979 , 76, 273-7 | 56 |
| 1803 | Effect of interchain disulfide bond on hapten binding properties of light chain dimer of protein 315. 1979 , 76, 5848-52 | 13 |

| | | |
|------|---|----|
| 1802 | Communication between dissimilar subunits in aspartate transcarbamoylase: effect of inhibitor and activator on the conformation of the catalytic polypeptide chains. 1979 , 76, 3732-6 | 25 |
| 1801 | Proton nuclear magnetic resonance investigation of structural changes associated with cooperative oxygenation of human adult hemoglobin. 1979 , 76, 3673-7 | 65 |
| 1800 | Subunit neighbor interactions in enzyme kinetics: half-of-the-sites reactivity in a dimer. 1980 , 77, 5741-5 | 22 |
| 1799 | Mechanism of negative cooperativity in glyceraldehyde-3-phosphate dehydrogenase deduced from ligand competition experiments. 1980 , 77, 5055-59 | 26 |
| 1798 | Behavioral analysis of glutathione receptor of Hydra. 1980 , 137, 73-81 | 13 |
| 1797 | Functional analysis of Carp hemoglobin according to the theories of Adair; of Monod, Wyman & Changeux (MWC), and of Koshland, N ethy & Filmer (KNF). 1980 , 6, 46-46 | |
| 1796 | Kinetic simulation of anticancer drug interactions. 1980 , 11, 197-224 | 24 |
| 1795 | A comparison of Na-K-ATPases obtained from brains of adult and fetal rats. 1980 , 12, 379-85 | 10 |
| 1794 | Kinetic studies on bovine thyroidal purine nucleoside phosphorylase. 1980 , 11, 243-50 | |
| 1793 | Kinetics of macromolecules reacting with ligand. 1980 , 19, 857-883 | 5 |
| 1792 | Size and charge distribution of macromolecules in living systems. 1980 , 193, 1-8 | 79 |
| 1791 | Relationships between the magnitude of Hill plot slopes, apparent binding constants and factorability of bindings polynomials and their Hessians. 1980 , 85, 247-84 | 16 |
| 1790 | A two-state tension-displacement model for hemoglobin-ligand binding. 1980 , 83, 477-86 | 2 |
| 1789 | Protein symmetry and the co-operative ligand-binding behaviour predicted by allosteric Koshland models. 1980 , 86, 45-82 | 2 |
| 1788 | Measures of enzyme co-operativity. 1980 , 87, 33-54 | 2 |
| 1787 | Cooperative response of chemically excitable membrane. II. Two-state models and their limitations. 1980 , 82, 425-63 | 11 |
| 1786 | The relative interactions between small and large biomolecules; antibody variability in the immune response: a review. 1980 , 33, 240-50 | |
| 1785 | Effect of heavy water (2H2O) on regulatory properties of phosphoglucose isomerase from Lactobacillus casei. 1980 , 615, 474-9 | 1 |

| | | | | |
|------|--|-----|--|-----|
| 1784 | Estimation of the reliability of parameters obtained by non-linear regression. 1980 , 109, 93-6 | | | 17 |
| 1783 | The effect of pH on the allosteric behaviour of ox-brain NAD ⁺ -dependent isocitrate dehydrogenase. 1980 , 109, 411-6 | | | 11 |
| 1782 | The sequential nature of the negative cooperativity in rabbit muscle glyceraldehyde-3-phosphate dehydrogenase. 1980 , 112, 59-73 | | | 19 |
| 1781 | Literatur. 1980 , 257-314 | | | |
| 1780 | Enzymes of Glutamate Formation: Glutamate Dehydrogenase, Glutamine Synthetase, and Glutamate Synthase. 1980 , 271-327 | | | 36 |
| 1779 | Cooperativity in enzyme function: equilibrium and kinetic aspects. 1980 , 64, 139-92 | | | 100 |
| 1778 | Regulation of phenylalanine and tyrosine biosynthesis in <i>Pseudomonas aureofaciens</i> ATCC 15926. 1980 , 117, 81-7 | | | |
| 1777 | Purification and Properties of (1.3)- β -Glucanases from <i>Bacillus circulans</i> WL-12. 1980 , 118, 197-208 | | | 6 |
| 1776 | Activation of skeletal muscle myosin light chain kinase by calcium(2+) and calmodulin. <i>Biochemistry</i> , 1980 , 19, 5608-14 | 3.2 | | 312 |
| 1775 | Positive cooperative binding of calcium to bovine brain calmodulin. <i>Biochemistry</i> , 1980 , 19, 3692-8 | 3.2 | | 331 |
| 1774 | Shapes of velocity curves in multiunit enzyme kinetic systems. 1980 , 52, 97-115 | | | 4 |
| 1773 | Increase in the stoichiometry of the functioning active sites of horse liver aldehyde dehydrogenase in the presence of magnesium ions. 1980 , 205, 571-8 | | | 36 |
| 1772 | Effect of phosphate on the macromolecular state of bovine neurophysin. 1980 , 201, 20-4 | | | 14 |
| 1771 | Regulatory divergence of aspartate transcarbamoylases within the enterobacteriaceae. 1980 , 201, 506-17 | | | 29 |
| 1770 | An allosteric pore model for sugar transport in human erythrocytes. 1980 , 599, 202-13 | | | 27 |
| 1769 | Non-Michaelian monooxygenase kinetics: studies using competitive inhibitors. 1980 , 119, 63-7 | | | 8 |
| 1768 | Subunit interactions and the allosteric response in phosphorylase. 1980 , 32, 175-92 | | | 28 |
| 1767 | Discrete states of responsiveness of a locust muscle gamma-aminobutyric acid receptor: the influence of extracellular ion concentrations. 1980 , 5, 1669-80 | | | 5 |

| | | | |
|------|--|-----|-----|
| 1766 | E. coli aspartate transcarbamylase: Part II: Structure and allosteric interactions. 1980 , 5, 150-153 | | 78 |
| 1765 | Molecular interactions in biomedicine: modulation of regulatory behavior by cross reactivity: relevance to analysis of receptor function. 1980 , 6, 13-9 | | 1 |
| 1764 | Modeling coordination sites in metallobiomolecules. 1980 , 209, 223-35 | | 301 |
| 1763 | Hemocyanins Relationships in Their Structure, Function and Assembly. 1980 , 20, 7-17 | | 36 |
| 1762 | Role of nicotinamide adenine dinucleotide as an effector in formation and reactions of acylglyceraldehyde-3-phosphate dehydrogenase. <i>Biochemistry</i> , 1981 , 20, 5529-38 | 3.2 | 11 |
| 1761 | Role of metal cofactors in enzyme regulation. Differences in the regulatory properties of the Escherichia coli nicotinamide adenine dinucleotide phosphate specific malic enzyme, depending on whether magnesium ion or manganese ion serves as divalent cation. <i>Biochemistry</i> , 1981 , 20, 2503-12 | 3.2 | 18 |
| 1760 | Characterization of a new sarcoplasmic calcium-binding protein with magnesium-induced cooperativity in the binding of calcium. <i>Biochemistry</i> , 1981 , 20, 5430-6 | 3.2 | 55 |
| 1759 | Isotope-exchange evidence for an ordered mechanism for rat-liver glucokinase, a monomeric cooperative enzyme. <i>Biochemistry</i> , 1981 , 20, 499-506 | 3.2 | 45 |
| 1758 | Taxol binds to polymerized tubulin in vitro. 1981 , 91, 479-87 | | 514 |
| 1757 | Application of nonlinear sensitivity analysis to enzyme mechanisms. 1981 , 56, 175-208 | | 6 |
| 1756 | Negative cooperativity in the interaction of fructose 1,6-diphosphate with pyruvate kinase of Neurospora crassa. 1981 , 123, 255-7 | | 3 |
| 1755 | Effect of ionic strength on the interaction between aldolase and actin-containing filaments. 1981 , 212, 306-10 | | 17 |
| 1754 | The self-association of chorismate mutase/prephenate dehydratase from Escherichia coli K12. 1981 , 211, 76-85 | | 21 |
| 1753 | Phenylalanine ammonia-lyase: a model for the cooperativity kinetics induced by D- and L-phenylalanine. 1981 , 211, 564-74 | | 16 |
| 1752 | Characterization of an alcohol, dehydrogenase from Thermoanaerobacter ethanolicus active with ethanol and secondary alcohols. 1981 , 100, 793-9 | | 21 |
| 1751 | Strain differences in kinetic and thermal stability of two mouse brain tryptophan hydroxylase activities. 1981 , 230, 317-36 | | 12 |
| 1750 | Carp hemoglobin. Functional analysis and thermodynamics of precise oxygen equilibria according to the simple sequential model of Koshland, N  ethy and Filmer. 1981 , 146, 589-609 | | 2 |
| 1749 | Close correlation between Monod-Wyman-Changeux parameters, L and c, and its implication for the stereochemical mechanism of haemoglobin allostery. 1981 , 150, 615-21 | | 11 |

| | | |
|------|--|--------|
| 1748 | Mutational variants of the <i>Neurospora crassa</i> NADP-specific glutamate dehydrogenase altered in a conformational equilibrium. 1981 , 149, 521-40 | 6 |
| 1747 | Amino acid activation in crystalline tyrosyl-tRNA synthetase from <i>Bacillus stearothermophilus</i> . 1981 , 145, 489-500 | 42 |
| 1746 | How significant is homotropic co-operativity in terms of metabolic regulation?. 1981 , 6, 182-184 | 2 |
| 1745 | Nicotinamide adenine dinucleotide activation of the esterase reaction of horse liver aldehyde dehydrogenase. <i>Biochemistry</i> , 1981 , 20, 2720-6 | 3.2 50 |
| 1744 | The mechanism of negative cooperativity in rabbit muscle glyceraldehyde-3-phosphate dehydrogenase. 1981 , 366, 217-36 | 2 |
| 1743 | On the calcium receptor that mediates depolarization-secretion coupling at cholinergic motor nerve terminals. 1981 , 73, 413-29 | 43 |
| 1742 | Structural and functional consequences of subunit interactions in glyceraldehyde 3-phosphate dehydrogenase. 1981 , 63, 131-41 | 6 |
| 1741 | Rapid-scanning spectral evidence for catalytically nonequivalent but interconvertible forms of equine liver alcohol dehydrogenase. 1981 , 63, 97-102 | 12 |
| 1740 | An amplified sensitivity arising from covalent modification in biological systems. 1981 , 78, 6840-4 | 944 |
| 1739 | Purification and characterization of N-acetylglutamate 5-phosphotransferase from pea (<i>Pisum sativum</i>) cotyledons. 1981 , 195, 71-81 | 16 |
| 1738 | The effect of membrane phospholipid acyl-chain composition on the activity of brain-beta-N-acetyl-D-glucosaminidase. 1981 , 195, 383-8 | 18 |
| 1737 | Solubilization of human platelet alpha-adrenergic receptors: evidence that agonist occupancy of the receptor stabilizes receptor-effector interactions. 1981 , 78, 4026-30 | 110 |
| 1736 | Apparent Positive Cooperativity at a Surface cAMP Receptor in <i>Dictyostelium</i> . 1981 , 20, 29-35 | 15 |
| 1735 | Substrate-binding isotherms of spinach chloroplastic fructose-1,6-bisphosphatase and the photoregulation of the Calvin cycle. 1981 , 113, 513-20 | 25 |
| 1734 | Structure and reactivity relationship in glyceraldehyde-3-phosphate dehydrogenase. Dinitrophenylation of cysteine residues of yeast and rabbit muscle enzymes. 1981 , 119, 625-32 | 2 |
| 1733 | Equilibrium and kinetic measurements of the binding of pyridoxal 5'-phosphate to hybrid tryptophan synthase from <i>Escherichia coli</i> . 1981 , 121, 105-12 | 6 |
| 1732 | Kinetics of activation and desensitization in receptor proteins. 1981 , 20, 787-801 | |
| 1731 | On the "cytosociology" of enzyme action in vivo: a novel thermodynamic correlate of biological evolution. 1981 , 93, 701-35 | 50 |

| | | | |
|------|--|-----|-----|
| 1730 | Determination of the equilibrium dissociation constants and number of glycine binding sites in several areas of the rat central nervous system, using a sodium-independent system. 1981 , 37, 1015-24 | | 162 |
| 1729 | The effects of modifiers on enzyme catalysis: a non-classical nearest neighbor approach. 1981 , 13, 291-306 | | 8 |
| 1728 | On the physiological significance of positive and negative co-operativity. 1981 , 93, 395-401 | | 9 |
| 1727 | Stereochemistry of oligomeric proteins. 1981 , 92, 39-55 | | 2 |
| 1726 | Oxygen binding by hemoglobin of the galapagos rift vent worm Jones (Pogonophora; Vestimentifera). 1981 , 670, 255-259 | | 1 |
| 1725 | Phenylalanine Ammonia-Lyase. 1981 , 577-625 | | 25 |
| 1724 | Amplification and adaptation in regulatory and sensory systems. 1982 , 217, 220-5 | | 408 |
| 1723 | Subunit cooperation and enzymatic catalysis. 1982 , 51, 935-71 | | 36 |
| 1722 | Sensitivity amplification in biochemical systems. 1982 , 15, 555-91 | | 139 |
| 1721 | References. 1982 , 42, 133-145 | | |
| 1720 | Comparison of the applicability of several allosteric models to the pH and 2,3-bis(phospho)glycerate dependence of oxygen binding by human blood. 1982 , 156, 863-89 | | 8 |
| 1719 | Functional interactions between subunits of aspartate aminotransferase. Formation of monoliganded dimers during titration of the apoenzyme by pyridoxal 5'-phosphate. 1982 , 157, 383-94 | | 7 |
| 1718 | Allosteric transitions associated with the binding of substrate and effector ligands to T2 phage induced deoxycytidylate deaminase. <i>Biochemistry</i> , 1982 , 21, 3780-5 | 3.2 | 14 |
| 1717 | Low-temperature studies of the sarcoplasmic reticulum calcium pump. Mechanisms of calcium binding. 1982 , 688, 75-87 | | 114 |
| 1716 | Reappraisal of the binding of myosin subfragment 1 to regulated filaments in terms of the steric model of muscle relaxation. 1982 , 217, 397-400 | | 1 |
| 1715 | Application of simple structured models in bioengineering. 1982 , 55-107 | | 5 |
| 1714 | Regulation of Enzyme Activity. 1982 , 152-186 | | 3 |
| 1713 | Negative cooperativity in human liver argininosuccinase. 1982 , 701, 408-9 | | 2 |

| | | |
|------|---|-----|
| 1712 | Evidence for cooperative effects in human liver arginase. 1982 , 701, 146-8 | 17 |
| 1711 | Regulation of ADPglucose pyrophosphorylase in cucumber plants infected with the cucumber mosaic virus. 1982 , 24, 142-151 | 1 |
| 1710 | Evolution of regulatory enzymes towards functional simplicity. 1982 , 96, 347-65 | 10 |
| 1709 | The dependence of flux, sensitivity and response of the flux on the concentrations of substrate and modifiers for cooperative enzymes. 1982 , 99, 491-508 | 6 |
| 1708 | A model for the mechanism of action of animal fatty acid synthetases. 1982 , 95, 263-83 | 6 |
| 1707 | Theoretical studies of hemoproteins. II. Dynamical behaviour of ligand binding of allosteric proteins. 1982 , 97, 491-504 | 1 |
| 1706 | Does the coupling between conformational fluctuation and enzyme catalysis involve a true phase transfer catalysis?. 1982 , 99, 21-30 | |
| 1705 | Theory of sorption of gases on polymers. I. Conformational effects and the double-sigmoid shape of sorption isotherm. 1982 , 67, 7-16 | 10 |
| 1704 | Model for cooperativity of biological membranes. 1982 , 15, 271-5 | |
| 1703 | Mechanism of liver glucokinase. 1982 , 44, 71-80 | 30 |
| 1702 | Pigeon liver malic enzyme. 1982 , 43, 3-26 | 72 |
| 1701 | Les enzymes: r alit exp imentale et implications physiologiques. 1982 , 36, 91-98 | |
| 1700 | Cooperative deoxygenation of haemoglobin: asymmetry of binding and subunit differences. 1982 , 300, 661-2 | 19 |
| 1699 | Purification and properties of NADP-dependent glutamate dehydrogenase from <i>Sphaerostilbe repens</i> . 1983 , 59, 438-444 | 26 |
| 1698 | Asymmetric ligand binding by haemoglobin. 1983 , 304, 190 | 1 |
| 1697 | Phosphorylation of isocitrate dehydrogenase as a demonstration of enhanced sensitivity in covalent regulation. 1983 , 305, 286-90 | 182 |
| 1696 | Analysis of competition for substrate sites in an allosteric enzyme with co-operative kinetics. Effects of dAMP and dUMP on donkey spleen deoxycytidylate aminohydrolase. 1983 , 137, 421-7 | 7 |
| 1695 | Scattering kinetics in a complex tryptophan hydroxylase preparation from rat brainstem raphe nuclei: statistical evidence that the lithium-induced sigmoid velocity function reflects two states of available catalytic potential. 1983 , 58, 169-82 | 5 |

| | | | |
|------|---|-----|------|
| 1694 | Protein fluctuation and enzyme activity. 1983 , 105, 25-33 | | 17 |
| 1693 | Activation of carbamoyl phosphate synthetase by cryoprotectants. 1983 , 53-54, 279-98 | | 11 |
| 1692 | Theory and applications of unstructured growth models: Kinetic and energetic aspects. 1983 , 25, 2803-41 | | 89 |
| 1691 | Analysis of cyclic enzyme reaction schemes by the graph-theoretic method. 1983 , 103, 247-64 | | 13 |
| 1690 | Theoretical studies of hemoproteins. III. Dynamical treatment of some abnormal hemoglobins. 1983 , 102, 167-73 | | |
| 1689 | Positive co-operativity in the membrane receptor mediated response. 1983 , 104, 1-6 | | 5 |
| 1688 | Applicability of the induced-fit model to glyceraldehyde-3-phosphate dehydrogenase from sturgeon muscle. Study of the binding of oxidized nicotinamide adenine dinucleotide and nicotinamide 8-bromoadenine dinucleotide. <i>Biochemistry</i> , 1983 , 22, 4437-43 | 3.2 | 5 |
| 1687 | Lipid solvation and kinetic cooperativity of functional membrane proteins. 1983 , 8, 408-411 | | 32 |
| 1686 | Slipped-mispairing and the evolution of introns. 1983 , 8, 411-414 | | 18 |
| 1685 | A new approach to the measurement of sigmoid curves with enzyme kinetic and ligand binding data. 1983 , 165, 163-82 | | 7 |
| 1684 | Coenzyme binding in crystals of glyceraldehyde-3-phosphate dehydrogenase. 1983 , 165, 375-91 | | 26 |
| 1683 | Use of models in understanding the mechanism of action of haemoglobin. 1983 , 5, 66-82 | | |
| 1682 | Sigmoidicity in Allosteric Models. 1983 , 67, 1-17 | | 17 |
| 1681 | The effect of interaction between human urokinase and its competitive inhibitor, N alpha-benzoyl-L-arginine amide, on reduction of a specific SS bond related to enzymatic activity. 1983 , 112, 754-62 | | 4 |
| 1680 | Hydrogen exchange and structural dynamics of proteins and nucleic acids. 1983 , 16, 521-655 | | 1075 |
| 1679 | Acetylcholine receptor-controlled ion translocation: chemical kinetic investigations of the mechanism. 1983 , 12, 443-73 | | 96 |
| 1678 | On the temperature- and salt-dependent conformation change in human erythrocyte pyruvate kinase. 1983 , 364, 787-92 | | 5 |
| 1677 | Allosteric cofactor-mediated enzyme cooperativity: a theoretical treatment. 1983 , 80, 5243-7 | | 10 |

| | | | |
|------|--|-----|-----|
| 1676 | Time domain spectroscopy of the membrane capacitance in frog skeletal muscle. 1983 , 341, 1-24 | | 15 |
| 1675 | Chapter 3 Enzyme kinetics. 1984 , 6, 73-110 | | 10 |
| 1674 | Twenty questions concerning the reaction cycle of the sarcoplasmic reticulum calcium pump. 1984 , 17, 123-51 | | 95 |
| 1673 | Interferon--present and future prospects. 1984 , 20, 57-93 | | 8 |
| 1672 | Solvent isotope effects on the glucokinase reaction. Negative co-operativity and a large inverse isotope effect in 2H ₂ O. 1984 , 141, 157-63 | | 12 |
| 1671 | Isolation and partial purification of a clonidine-displacing endogenous brain substance. 1984 , 144, 287-93 | | 122 |
| 1670 | Suppression of kinetic cooperativity of hexokinase D (glucokinase) by competitive inhibitors. A slow transition model. 1984 , 145, 163-71 | | 57 |
| 1669 | The binding curves in relation to protein concentration. The interaction of human serum albumin with phthalein dyes and azo-dyes. 1984 , 16, 121-123 | | 1 |
| 1668 | The binding curves in relation to protein concentration. the interaction of human serum albumin with surfactants. 1984 , 16, 1095-1098 | | |
| 1667 | Mikrobielles Wachstum als Abbild des Konformationsgleichgewichts eines wachstumbestimmenden oligomeren Proteins. 1984 , 24, 289-303 | | |
| 1666 | Subunit interactions in enzyme transition states--antagonism between substrate binding and reaction rate. 1984 , 111, 737-53 | | 18 |
| 1665 | Biosynthesis of bacterial glycogen: characterization of adenosine diphosphate glucose synthetases from <i>Enterobacter hafniae</i> and <i>Aeromonas hydrophila</i> . 1984 , 138, 1-8 | | 9 |
| 1664 | Effects of hemoglobin symmetry in a statistical equilibrium model for oxygen binding. 1984 , 46, 9-14 | | 1 |
| 1663 | The hill coefficient for the Ca ²⁺ -activation of striated muscle contraction. 1984 , 46, 541-3 | | 46 |
| 1662 | Linkage graphs: a study in the thermodynamics of macromolecules. 1984 , 17, 453-88 | | 44 |
| 1661 | Proton nuclear magnetic resonance investigation of cross-linked asymmetrically modified hemoglobins: influence of the salt bridges on tertiary and quaternary structures of hemoglobin. <i>Biochemistry</i> , 1984 , 23, 2492-9 | 3.2 | 30 |
| 1660 | Thermodynamic linkages in rabbit muscle pyruvate kinase: kinetic, equilibrium, and structural studies. <i>Biochemistry</i> , 1984 , 23, 3813-21 | 3.2 | 47 |
| 1659 | Thermodynamic nonideality as a probe of macromolecular isomerizations: application to the acid expansion of bovine serum albumin. 1984 , 234, 15-23 | | 19 |

| | | |
|------|--|-----|
| 1658 | Structural evidence for ligand-induced sequential conformational changes in glyceraldehyde 3-phosphate dehydrogenase. 1984 , 178, 743-72 | 39 |
| 1657 | Apparent co-operativity for highly concentrated Michaelian and allosteric enzymes. 1984 , 174, 543-55 | 6 |
| 1656 | Chapter 4 Aspects of kinetic techniques in enzymology. 1984 , 6, 111-126 | |
| 1655 | Order of free energy couplings between ligand binding and protein subunit association in hemoglobin. 1984 , 81, 7098-102 | 20 |
| 1654 | A quantitative model for the cooperative mechanism of human hemoglobin. 1984 , 81, 1093-7 | 35 |
| 1653 | Dimeric structure of single chloride channels from Torpedo electroplax. 1984 , 81, 2772-5 | 235 |
| 1652 | Kinetics of protein modification reactions. 1984 , 217, 341-51 | 55 |
| 1651 | Spermine binding to submitochondrial particles and activation of adenosine triphosphatase. 1984 , 218, 495-9 | 21 |
| 1650 | Regulatory kinetics of wheat-germ aspartate transcarbamoylase. Adaptation of the concerted model to account for complex kinetic effects of uridine 5'-monophosphate. 1984 , 221, 281-7 | 16 |
| 1649 | Ligand-mediated conformational changes in wheat-germ aspartate transcarbamoylase indicated by proteolytic susceptibility. 1984 , 221, 289-96 | 12 |
| 1648 | A two-state thermodynamic and kinetic analysis of the allosteric functioning of the haemoglobin of an extreme poikilotherm. 1984 , 221, 561-8 | 24 |
| 1647 | Kinetics of protein modification reactions. Plot of fractional enzyme activity versus extent of protein modification in cases where all modifiable groups are essential for enzyme activity. 1984 , 223, 259-62 | 12 |
| 1646 | Kinetic independence of the subunits of cytosolic glutathione transferase from the rat. 1985 , 231, 263-7 | 114 |
| 1645 | Purification and regulatory properties of phosphofructokinase from Trypanosoma (Trypanozoon) brucei brucei. 1985 , 227, 113-24 | 49 |
| 1644 | Regulatory effects of potassium and inorganic anions on the NADP-specific malic enzyme of Escherichia coli. 1985 , 63, 128-36 | 2 |
| 1643 | Measurement of changes of hydrodynamic properties by sedimentation. 1985 , 117, 27-40 | 6 |
| 1642 | Experimental resolution of cooperative free energies for the ten ligation states of human hemoglobin. 1985 , 82, 5347-51 | 86 |
| 1641 | The relationship between zeros and factors of binding polynomials and cooperativity in protein-ligand binding. 1985 , 114, 605-14 | 7 |

| | | |
|------|--|-----|
| 1640 | Subunit coupling and kinetic co-operativity of polymeric enzymes. Amplification, attenuation and inversion effects. 1985 , 117, 633-49 | 16 |
| 1639 | The biological functions of low-frequency vibrations (phonons) 5. A phenomenological theory. 1985 , 22, 219-35 | 37 |
| 1638 | A general method of deriving the best binding site model consistent with experimental binding data. 1985 , 22, 255-62 | 8 |
| 1637 | Occam's razor and theories of allostery. 1985 , 13, 61-64 | |
| 1636 | The use of the integrated Michaelis-Menten equation in the determination of kinetic parameters. 1985 , 13, 64-66 | 6 |
| 1635 | Computerized scheme for the reaction of hemoglobin with ligands. 1985 , 4, 319-331 | 3 |
| 1634 | Effect of thermal acclimation on subunit cooperativity in <i>Palaemon serratus</i> glutamate dehydrogenase. 1985 , 13, 45-50 | 6 |
| 1633 | Properties of the MgATP and MgADP binding sites on the Fe protein of nitrogenase from <i>Azotobacter vinelandii</i> . 1985 , 148, 499-508 | 19 |
| 1632 | Formyl peptide chemotaxis receptors on the rat neutrophil: experimental evidence for negative cooperativity. 1985 , 27, 359-75 | 13 |
| 1631 | Dopamine receptors: functions, subtypes and emerging concepts. 1985 , 5, 145-229 | 90 |
| 1630 | Critical Points and Sigmoidicity of Positive Rational Functions. 1985 , 92, 37-48 | 1 |
| 1629 | Computer-based learning of cooperativity and allostery. 1985 , 1, 161-5 | |
| 1628 | Intrinsic and extrinsic factors in protein antigenic structure. 1985 , 229, 932-40 | 460 |
| 1627 | Critical Points and Sigmoidicity of Positive Rational Functions. 1985 , 92, 37 | 4 |
| 1626 | References. 1985 , 505-540 | |
| 1625 | Partial chemical characterization of cyclopyrrolones ([³ H] suriclone) and benzodiazepines ([³ H]flunitrazepam) binding site: differences. 1985 , 36, 2247-55 | 17 |
| 1624 | Relaxations, fluctuations and ion transfer across membranes. 1985 , 46, 127-62 | 30 |
| 1623 | Modulation of <i>Escherichia coli</i> N-acetylmuramoyl-L-alanine amidase activity by phosphatidylglycerol. 1985 , 838, 54-9 | 9 |

| | | | |
|------|---|-----|-----|
| 1622 | Structure-function relationship in allosteric aspartate carbamoyltransferase from <i>Escherichia coli</i> . I. Primary structure of a <i>pyrI</i> gene encoding a modified regulatory subunit. 1985 , 186, 707-13 | | 22 |
| 1621 | Reversible dissociation of dimeric tyrosyl-tRNA synthetase by mutagenesis at the subunit interface. <i>Biochemistry</i> , 1985 , 24, 5852-7 | 3.2 | 59 |
| 1620 | Effect of glycerol on glucokinase activity: loss of cooperative behavior with respect to glucose. 1985 , 237, 328-34 | | 10 |
| 1619 | Effect of thermodynamic nonideality in kinetic studies: evidence for reversible unfolding of urease during urea hydrolysis. 1985 , 239, 147-54 | | 16 |
| 1618 | Multiple molecular forms of cyclic nucleotide phosphodiesterase in cardiac and smooth muscle and in platelets. Isolation, characterization, and effects of various reference phosphodiesterase inhibitors and cardiotoxic agents. 1986 , 35, 787-800 | | 234 |
| 1617 | Cooperative free energies for nested allosteric models as applied to human hemoglobin. 1986 , 50, 747-52 | | 36 |
| 1616 | Kinetic studies of L-aspartase from <i>Escherichia coli</i> : substrate activation. <i>Biochemistry</i> , 1986 , 25, 1299-303 | 3.2 | 28 |
| 1615 | Assessment of a ternary model for the binding of agonists to neurohumoral receptors. <i>Biochemistry</i> , 1986 , 25, 7009-20 | 3.2 | 54 |
| 1614 | Extended X-ray absorption fine structure studies of Zn ₂ Fe ₂ hybrid hemoglobins: absence of heme bond length changes in half-ligated species. <i>Biochemistry</i> , 1986 , 25, 3773-8 | 3.2 | 8 |
| 1613 | 9 Glycogen Phosphorylase. 1986 , 365-394 | | 18 |
| 1612 | The exponential model for a regulatory enzyme. An interpretation of the linear free-energy relationship. 1986 , 240, 811-5 | | |
| 1611 | Toward computer-aided site-directed mutagenesis of enzymes. 1986 , 83, 3806-10 | | 55 |
| 1610 | Effects of chemical modification on enzymatic activities and stabilities. 1986 , 28, 256-68 | | 20 |
| 1609 | Ligand-receptor interactions: detailed evaluation of occupancy-dependent affinity. 1986 , 31, 75-86 | | 1 |
| 1608 | Toward a neuropsychopharmacology of habituation: A vertical integration. 1986 , 7, 809-888 | | 10 |
| 1607 | A cooperative model for ligand binding to biological macromolecules as applied to oxygen carriers. 1986 , 23, 215-22 | | 51 |
| 1606 | Analysis of zeros of binding polynomials for tetrameric hemoglobins. 1986 , 24, 295-309 | | 6 |
| 1605 | Validity of transfer-function representation of input-output relation in allosteric models. 1986 , 19, 317-26 | | 5 |

| | | |
|------|---|-----|
| 1604 | Kinetics of protein modification reactions: interpretation of reaction order. 1986 , 34, 123-127 | 4 |
| 1603 | Double site enzyme and squatting: where one regulatory ligand is also a substrate of the reaction. 1986 , 121, 89-103 | 5 |
| 1602 | Purified epidermal pentapeptide inhibits proliferation and enhances terminal differentiation in cultured mouse epidermal cells. 1986 , 87, 555-8 | 38 |
| 1601 | Characterization of opioid receptor subtypes in solution. 1986 , 46, 1129-36 | 25 |
| 1600 | Altered cyclic-AMP receptor activity and morphogenesis in a chemosensory mutant of <i>Dictyostelium discoideum</i> . 1986 , 33, 111-20 | 8 |
| 1599 | Analysis of oxygen binding to <i>Panulirus japonicus</i> hemocyanin. The effect of divalent cations on the allosteric transition. 1986 , 154, 49-55 | 18 |
| 1598 | Chapter 21: The Receptor: From Concept to Function. 1986 , 21, 211-235 | 11 |
| 1597 | Regulation of Starch Synthesis in the Bundle Sheath and Mesophyll of <i>Zea mays</i> L. : Intercellular Compartmentalization of Enzymes of Starch Metabolism and the Properties of the ADPglucose Pyrophosphorylases. 1987 , 83, 621-7 | 38 |
| 1596 | Purification and Properties of Nonproteolytic Degraded ADPglucose Pyrophosphorylase from Maize Endosperm. 1987 , 83, 105-12 | 155 |
| 1595 | Electron microscopical structure analysis of yeast fatty-acid synthase at low resolution. 1987 , 368, 19-36 | 7 |
| 1594 | Herbsttagung der Gesellschaft für Biologische Chemie. 27.30. September 1987 in Erlangen. 1987 , 368, 1015-1130 | |
| 1593 | Kinetics of hexokinase D ('glucokinase') with inosine triphosphate as phosphate donor. Loss of kinetic co-operativity with respect to glucose. 1987 , 245, 625-9 | 12 |
| 1592 | Chemical stabilization of conformational states of dCMP deaminase. 1987 , 135, 577-85 | |
| 1591 | Chapter 4 Role of Potassium in Cotransport Systems. 1987 , 73-85 | 4 |
| 1590 | Nesting: hierarchies of allosteric interactions. 1987 , 84, 1891-5 | 63 |
| 1589 | Artificial Allosteric System 5. Allosteric Gain, Total Cooperativity and Local Cooperativity as Appropriate Indices for Allosteric Effect. 1987 , 28, 13-16 | |
| 1588 | Structure of holo-glyceraldehyde-3-phosphate dehydrogenase from <i>Bacillus stearothermophilus</i> at 1.8 Å resolution. 1987 , 193, 171-87 | 276 |
| 1587 | Biochemical systems theory and metabolic control theory: 1. fundamental similarities and differences. 1987 , 86, 127-145 | 106 |

| | | |
|------|---|-----|
| 1586 | A low molecular weight brain substance interacts, similarly to clonidine, with alpha 2-adrenoceptors of human platelets. 1987 , 144, 247-55 | 36 |
| 1585 | Steroid hormone antagonism and a cyclic model of receptor kinetics. 1987 , 26, 173-9 | 6 |
| 1584 | Switches, thresholds and ultrasensitivity. 1987 , 12, 225-229 | 51 |
| 1583 | Molecular kinetic modelling of associative learning. 1987 , 22, 37-48 | 8 |
| 1582 | NADP ⁺ -dependent glutamate dehydrogenase from <i>Acropora formosa</i> : purification and properties. 1987 , 95, 559-563 | 27 |
| 1581 | Viscoelastic models for enzymes with multiple conformational states. 1987 , 129, 163-75 | 6 |
| 1580 | Co-operativity in monomeric enzymes. 1987 , 124, 1-23 | 75 |
| 1579 | Entropic elastomeric force in protein structure/function. 1987 , 32, 261-280 | 7 |
| 1578 | (Na ⁺ + K ⁺)-ATPase: on the number of the ATP sites of the functional unit. 1987 , 19, 359-74 | 59 |
| 1577 | Substrate activation and thermal denaturation kinetics of the tetrameric and the trypsin-generated monomeric forms of horse serum butyrylcholinesterase. 1987 , 912, 338-42 | 16 |
| 1576 | Towards a quantitative definition of plant hormone sensitivity. 1987 , 10, 1-10 | 47 |
| 1575 | Altered cyclic-AMP receptor activity and morphogenesis in a chemosensory mutant of <i>Dictyostelium discoideum</i> . 1987 , 33, 111-120 | |
| 1574 | Co-operative and allosteric enzymes: 20 years on. 1987 , 166, 255-72 | 103 |
| 1573 | A kinetic study of inosine nucleosidase from <i>Azotobacter vinelandii</i> . 1988 , 20, 971-975 | 1 |
| 1572 | A dye release assay for determination of lysostaphin activity. 1988 , 171, 141-4 | 51 |
| 1571 | Chemical modification of active sites in relation to the catalytic mechanism of F1. 1988 , 20, 407-22 | 15 |
| 1570 | Characterization of two glutamate dehydrogenases from the symbiotic microalga <i>Symbiodinium microadriaticum</i> isolated from the coral <i>Acropora formosa</i> . 1988 , 97, 427-430 | 9 |
| 1569 | Kinetic modeling for the channel gating process from single channel patch clamp data. 1988 , 132, 449-68 | 11 |

| | | |
|------|---|-----|
| 1568 | The binding of an indefinitely associating ligand to acceptor: consideration of monovalent ligand species binding to a multivalent acceptor. 1988 , 131, 137-49 | 4 |
| 1567 | Muscarinic agonists evoke neurotransmitter release: possible roles for phosphatidyl inositol bisphosphate breakdown products in neuromodulation. 1988 , 51, 795-802 | 24 |
| 1566 | Linked-function origins of cooperativity in a symmetrical dimer. 1988 , 30, 159-72 | 48 |
| 1565 | Time delays in metabolic control systems. 1988 , 22, 11-7 | 5 |
| 1564 | Thermodynamic nonideality as a probe of allosteric mechanisms: preexistence of the isomerization equilibrium for rabbit muscle pyruvate kinase. 1988 , 265, 458-65 | 33 |
| 1563 | The reaction of <i>Octopus vulgaris</i> hemocyanin with exogenous ligands: proposal of an allosteric model for the binding of cyanide and thiourea to the 11 S subunit. 1988 , 266, 539-47 | 5 |
| 1562 | Cyclic, nonequilibrium models of glucocorticoid antagonism: role of activation, nuclear binding and receptor recycling. 1988 , 31, 599-606 | 8 |
| 1561 | Alpha-adrenoceptor occupancy by N,N-dimethyl-2-bromo-2-phenethylamine hydrobromide (DMPEA) in rat vas deferens. 1988 , 153, 255-61 | |
| 1560 | Alteration of T-state binding properties of naturally glycosylated hemoglobin, HbA1c. 1988 , 203, 233-9 | 24 |
| 1559 | Signal transduction by allosteric receptor oligomerization. 1988 , 13, 443-7 | 360 |
| 1558 | snRNP mediators of 3' end processing: functional fossils?. 1988 , 13, 447-51 | 40 |
| 1557 | <i>Escherichia coli</i> aspartate transcarbamylase: the relation between structure and function. 1988 , 241, 669-74 | 140 |
| 1556 | Dependence of acetylcholine receptor channel kinetics on agonist concentration in cultured mouse muscle fibres. 1988 , 397, 555-83 | 81 |
| 1555 | The three conformations of the anticodon loop of yeast tRNA(Phe). 1989 , 7, 235-55 | 16 |
| 1554 | A receptor model for binary mixtures applied to the sweetness of fructose and glucose: De Graaf and Frijters revisited. 1989 , 14, 597-604 | 6 |
| 1553 | Triggering of allostery in an enzyme by a point mutation: ornithine transcarbamoylase. 1989 , 245, 522-4 | 47 |
| 1552 | Glycogen phosphorylase: a multifaceted enzyme. 1989 , 54, 203-29 | 6 |
| 1551 | Metabolic control therapy and biochemical systems theory: different objectives, different assumptions, different results. 1989 , 136, 365-77 | 29 |

| | | | |
|------|---|-----|-----|
| 1550 | The influence of structural variations in the F- and FG-helix of the beta-subunit modified oxyHb-NES on the heme structure detected by resonance Raman spectroscopy. 1989 , 17, 87-100 | | 5 |
| 1549 | Allosteric proteins. Confirmations and limitations. 1989 , 339, 261-2 | | 4 |
| 1548 | Space-filling effects of inert solutes as probes for the detection and study of substrate-mediated conformational changes by enzyme kinetics: theoretical considerations. 1989 , 137, 171-89 | | 15 |
| 1547 | An extended Monod-Wyman-Changeaux-model expressed in terms of the Herzfeld-Stanley formalism applied to oxygen and carbonmonoxide binding curves of hemoglobin trout IV. 1989 , 55, 691-701 | | 10 |
| 1546 | Analysis of the ligand-promoted global conformational change in aspartate transcarbamoylase. Evidence for a two-state transition from boundary spreading in sedimentation velocity experiments. 1989 , 206, 221-30 | | 27 |
| 1545 | Cooperativity in lipid activation of 3-hydroxybutyrate dehydrogenase: role of lecithin as an essential allosteric activator. <i>Biochemistry</i> , 1989 , 28, 3000-8 | 3.2 | 18 |
| 1544 | Allosteric control in <i>Limulus polyphemus</i> hemocyanin: functional relevance of interactions between hexamers. <i>Biochemistry</i> , 1989 , 28, 8819-27 | 3.2 | 27 |
| 1543 | Dissection of the effector-binding site and complementation studies of <i>Escherichia coli</i> phosphofructokinase using site-directed mutagenesis. <i>Biochemistry</i> , 1989 , 28, 6841-7 | 3.2 | 41 |
| 1542 | A comparison of variant theories of intact biochemical systems. I. Enzyme-enzyme interactions and biochemical systems theory. 1989 , 94, 161-93 | | 77 |
| 1541 | Mechanisms of cooperativity and allosteric regulation in proteins. 1989 , 22, 139-237 | | 522 |
| 1540 | Stimulation of phosphatidylinositol 4,5-bisphosphate phospholipase C activity by phosphatidic acid. 1989 , 268, 516-24 | | 91 |
| 1539 | Conformational modification of muscle phosphofructokinase from <i>Jaculus orientalis</i> upon ligand binding. 1989 , 245, 30-4 | | 1 |
| 1538 | Kinetic and physico-chemical analysis of enzyme complexes and their possible role in the control of metabolism. 1989 , 53, 105-52 | | 52 |
| 1537 | <i>Escherichia coli</i> cAMP receptor protein: evidence for three protein conformational states with different promoter binding affinities. <i>Biochemistry</i> , 1989 , 28, 6914-24 | 3.2 | 119 |
| 1536 | Crystal structure of the Glu-239---Gln mutant of aspartate carbamoyltransferase at 3.1-A resolution: an intermediate quaternary structure. 1989 , 86, 8212-6 | | 16 |
| 1535 | Hemocyanin from <i>Tachypleus gigas</i> . I. Oxygen-binding properties. 1989 , 106, 418-22 | | 4 |
| 1534 | Allosteric linkage-induced distortions of the prosthetic group in haem proteins as derived by the theoretical interpretation of the depolarization ratio in resonance Raman scattering. 1989 , 22, 381-479 | | 49 |
| 1533 | Role of coupling entropy in establishing the nature and magnitude of allosteric response. 1989 , 86, 4032-6 | | 31 |

| | | |
|------|--|--------|
| 1532 | pH-induced bistable dynamic behaviour in the reaction catalysed by glucose-6-phosphate dehydrogenase and conformational hysteresis of the enzyme. 1989 , 262, 795-800 | 8 |
| 1531 | Sp1 can displace GHF-1 from its distal binding site and stimulate transcription from the growth hormone gene promoter. 1990 , 10, 1811-4 | 47 |
| 1530 | Structural basis of the allosteric behaviour of phosphofructokinase. 1990 , 343, 140-5 | 240 |
| 1529 | Conformational changes of tarantula (<i>Eurypelma californicum</i>) haemocyanin detected with a fluorescent probe, 7-chloro-4-nitrobenzo-2-oxa-1,3-diazole. 1990 , 187, 617-25 | 11 |
| 1528 | Thermodynamics of information transfer between subunits in oligomeric enzymes and kinetic cooperativity. 2. Thermodynamics of kinetic cooperativity. 1990 , 194, 475-81 | 7 |
| 1527 | Thermodynamics of information transfer between subunits in oligomeric enzymes and kinetic cooperativity. 3. Information transfer between the subunits of chloroplast fructose biphosphatase. 1990 , 194, 483-90 | 10 |
| 1526 | [Hierarchies in the structure and function of oxygen-binding proteins]. 1990 , 77, 561-8 | 10 |
| 1525 | Some applications of statistical mechanics in enzymology 2. Statistical mechanical explanation on allosteric enzyme models. 1990 , 143, 455-464 | 3 |
| 1524 | Analysis of binding in macromolecular complexes: a generalized numerical approach. 1990 , 191, 287-94 | 75 |
| 1523 | Calculation of site affinity constants and cooperativity coefficients for binding of ligands and/or protons to macromolecules. I. Generation of partition functions and mass balance equations. 1990 , 36, 1-14 | 13 |
| 1522 | Is symmetry conservation an unessential feature of allosteric theory?. 1990 , 37, 15-23 | 2 |
| 1521 | Thermodynamics of local linkage effects. Contracted partition functions and the analysis of site-specific energetics. 1990 , 37, 147-64 | 27 |
| 1520 | Allosteric regulation, cooperativity, and biochemical oscillations. 1990 , 37, 341-53 | 44 |
| 1519 | ³¹ P-NMR investigation of trimethylphosphine binding to [α Fe(II), β Mn(II)] hybrid hemoglobin. A model for partially liganded species. 1990 , 37, 407-11 | 6 |
| 1518 | Kinetic studies of lysine-sensitive aspartate kinase purified from maize suspension cultures. 1990 , 93, 98-104 | 18 |
| 1517 | Ultrasensitivity and heavy-metal selectivity of the allosterically modulated MerR transcription complex. 1990 , 87, 3846-50 | 130 |
| 1516 | Thermodynamic modeling of internal equilibria involved in the activation of trypsinogen. 1990 , 7, 959-72 | 2 |
| 1515 | Allosteric effects acting over a distance of 20-25 Å in the <i>Escherichia coli</i> tryptophan synthase holoenzyme complex increase ligand affinity and cause redistribution of covalent intermediates. <i>Biochemistry</i> , 1990 , 29, 2421-9 | 3.2 75 |

| | | | |
|------|---|-----|-----|
| 1514 | Crystal structures of phosphonoacetamide ligated T and phosphonoacetamide and malonate ligated R states of aspartate carbamoyltransferase at 2.8-Å resolution and neutral pH. <i>Biochemistry</i> , 1990 , 29, 389-402 | 3.2 | 72 |
| 1513 | The nicotinamide subsite of glyceraldehyde-3-phosphate dehydrogenase studied by site-directed mutagenesis. 1990 , 72, 545-54 | | 28 |
| 1512 | Fractal mechanisms for the allosteric effects of proteins and enzymes. 1990 , 58, 1313-20 | | 50 |
| 1511 | Biotechnology: Enzymes in the Food Industry. 1990 , 467-539 | | 1 |
| 1510 | Recollections of Sidney Bernhard (1927-1988). 1990 , 15, 84-85 | | 1 |
| 1509 | Thermodynamics of information transfer between subunits in oligomeric enzymes and kinetic cooperativity. 1. Thermodynamics of subunit interactions, partition functions and enzyme reaction rate. 1990 , 194, 463-73 | | 9 |
| 1508 | NaeI endonuclease binding to pBR322 DNA induces looping. <i>Biochemistry</i> , 1991 , 30, 2006-10 | 3.2 | 47 |
| 1507 | Discontinuous release of heat at successive steps of oxygenation in human and bovine hemoglobin at pH 9.0. <i>Biochemistry</i> , 1991 , 30, 3195-9 | 3.2 | 17 |
| 1506 | Cooperativity in ATP hydrolysis by GroEL is increased by GroES. 1991 , 292, 254-8 | | 160 |
| 1505 | Allosteric antagonists of the muscarinic acetylcholine receptor. 1991 , 42, 199-205 | | 96 |
| 1504 | Structural mechanism for glycogen phosphorylase control by phosphorylation and AMP. 1991 , 218, 233-60 | | 220 |
| 1503 | Receptor Binding in the Drug Discovery Process. 1991 , 11, 147-184 | | 26 |
| 1502 | Generation of allosteric enzymes from nonallosteric forms. 1991 , 202, 706-27 | | |
| 1501 | Molecular biology and pathology of scrapie and the prion diseases of humans. 1991 , 1, 297-310 | | 28 |
| 1500 | Allosteric regulation of phosphonoacetaldehyde hydrolase by n-butylphosphonic acid. 1991 , 280 (Pt 2), 557-9 | | |
| 1499 | Rates of reactions catalysed by a dimeric enzyme. Effects of the reaction scheme and the kinetic parameters on co-operativity. 1991 , 280 (Pt 1), 131-7 | | 5 |
| 1498 | Protein hydration in aqueous solution. 1991 , 254, 974-80 | | 728 |
| 1497 | Model-based LFER Parameters and QSAR of Ligand-Adrenoceptor Interactions I. Equilibrium Models and Parameters of Adrenergic Effectuation. 1991 , 10, 16-23 | | 1 |

| | | |
|------|---|--------|
| 1496 | Mathematical analysis of enzymic reaction systems using optimization principles. 1991 , 201, 1-21 | 111 |
| 1495 | Stochastic linkage: Effect of random fluctuations on a two-state process. 1991 , 95, 5082-5086 | 41 |
| 1494 | Molecular biology of prion diseases. 1991 , 252, 1515-22 | 1695 |
| 1493 | Identification of the intermediate allosteric species in human hemoglobin reveals a molecular code for cooperative switching. 1991 , 88, 1110-4 | 41 |
| 1492 | Subunit communication in the anthranilate synthase complex from <i>Salmonella typhimurium</i> . 1991 , 252, 1845-8 | 32 |
| 1491 | Molecular code for cooperativity in hemoglobin. 1992 , 255, 54-63 | 296 |
| 1490 | Approximate equations of state for a finite lattice system with two-, three-, and four-body potentials: Models for the binding of oxygen to hemoglobin. 1992 , 45, 8944-8952 | |
| 1489 | Regulation of the reverse transcriptase of human immunodeficiency virus type 1 by dNTPs. 1992 , 89, 9720-4 | 10 |
| 1488 | Molecular biology and genetics of neurodegenerative diseases caused by prions. 1992 , 41, 241-80 | 17 |
| 1487 | Cooperativity induced by a single mutation at the subunit interface of a dimeric enzyme: glutathione reductase. 1992 , 258, 1140-3 | 42 |
| 1486 | Kinetics of phosphate absorption by <i>Stylosanthes</i> spp. in the presence of aluminium. 1992 , 15, 2777-2788 | 2 |
| 1485 | Symmetry conditions for binding processes. 1992 , 89, 2727-31 | 5 |
| 1484 | Mutational studies of protein structures and their stabilities. 1992 , 25, 205-50 | 91 |
| 1483 | Proton nuclear magnetic resonance studies on hemoglobin: cooperative interactions and partially ligated intermediates. 1992 , 43, 153-312 | 87 |
| 1482 | Hydrogen exchange measurement of the free energy of structural and allosteric change in hemoglobin. 1992 , 256, 1684-7 | 80 |
| 1481 | Conformational equilibrium of an enzyme catalytic site in the allosteric transition. <i>Biochemistry</i> , 1992 , 31, 5362-8 | 3,2 10 |
| 1480 | Blood substitutes: engineering the haemoglobin molecule. 1992 , 10, 403-53 | 23 |
| 1479 | Modeling and experiment in developmental biology. 1992 , 2, 647-50 | 10 |

| | | | |
|------|---|-----|----|
| 1478 | Transient-state kinetic evidence for intersubunit allosteric hysteresis during band 3 anion exchange. <i>Biochemistry</i> , 1992 , 31, 7301-10 | 3.2 | 22 |
| 1477 | Purification and characterization of pig lung carbonyl reductase. 1992 , 292, 539-47 | | 34 |
| 1476 | Chimeric allosteric citrate synthases: construction and properties of citrate synthases containing domains from two different enzymes. 1992 , 298, 238-46 | | 17 |
| 1475 | The binding of estrogen and estrogen antagonists to the estrogen receptor. 1992 , 296, 583-91 | | 6 |
| 1474 | Evolving concepts of partial agonism. The beta-adrenergic receptor as a paradigm. 1992 , 43, 119-30 | | 36 |
| 1473 | Effect of a benzodiazepine (chlordiazepoxide) on a GABAA receptor from rat brain. Requirement of only one bound GABA molecule for channel opening. 1992 , 310, 55-9 | | 19 |
| 1472 | A mer-lux transcriptional fusion for real-time examination of in vivo gene expression kinetics and promoter response to altered superhelicity. 1992 , 174, 8094-101 | | 79 |
| 1471 | Unique and independent parameters (UIP) formulation for thermodynamic models of complex protein-ligand systems. 1992 , 45, 171-9 | | 6 |
| 1470 | Thermodynamic model of cooperativity in a dimeric protein: unique and independent parameters formulation. 1992 , 45, 181-91 | | 6 |
| 1469 | Characteristics of norepinephrine stimulated thermogenesis in undernourished subjects. 1992 , 17, 293-303 | | 3 |
| 1468 | A steady-state kinetic method for the verification of the rapid-equilibrium assumption in allosteric enzymes. 1992 , 206, 394-9 | | 18 |
| 1467 | Changes in the properties of honeybee haemolymph alpha-glucosidases following dithiothreitol dissociation of native complexes. 1992 , 24, 1087-91 | | |
| 1466 | Allosteric proteins: from regulatory enzymes to receptors--personal recollections. 1993 , 15, 625-34 | | 19 |
| 1465 | Negative cooperativity may explain flat concentration-response curves of ATP-sensitive potassium channels. 1993 , 22, 1-4 | | 7 |
| 1464 | Allosterism and Na(+)-D-glucose cotransport kinetics in rabbit jejunal vesicles: compatibility with mixed positive and negative cooperativities in a homo- dimeric or tetrameric structure and experimental evidence for only one transport protein involved. 1993 , 132, 95-113 | | 16 |
| 1463 | Single-site modifications of half-ligated hemoglobin reveal autonomous dimer cooperativity within a quaternary T tetramer. 1993 , 17, 279-96 | | 33 |
| 1462 | Molecular dynamics simulations and rigid body (TLS) analysis of aspartate carbamoyltransferase: evidence for an uncoupled R state. 1993 , 2, 927-35 | | 19 |
| 1461 | Study of allosteric communication between protomers by immunotagging. 1993 , 361, 749-50 | | 56 |

| | | | |
|------|---|-----|-----|
| 1460 | Oxygen binding by single crystals of hemoglobin. <i>Biochemistry</i> , 1993 , 32, 2888-906 | 3.2 | 122 |
| 1459 | Transcriptional regulation by cAMP and its receptor protein. 1993 , 62, 749-95 | | 735 |
| 1458 | Substrate- and effector-induced conformational changes in phosphofructokinase from white muscle of rainbow trout (<i>Oncorhynchus mykiss</i>): a fluorescence study. 1993 , 71, 255-9 | | 4 |
| 1457 | Kinetic analysis of NAD(+)-isocitrate dehydrogenase with altered isocitrate binding sites: contribution of IDH1 and IDH2 subunits to regulation and catalysis. <i>Biochemistry</i> , 1993 , 32, 9323-8 | 3.2 | 65 |
| 1456 | Formation of a cleasome: enhancer DNA-2 stabilizes an active conformation of NaeI dimer. <i>Biochemistry</i> , 1993 , 32, 8291-8 | 3.2 | 23 |
| 1455 | Ligand-mediated modulation of estrogen receptor conformation by estradiol analogs. <i>Biochemistry</i> , 1993 , 32, 10109-15 | 3.2 | 39 |
| 1454 | Kinetics of conformational changes associated with inhibitor binding to the purified band 3 transporter. Direct observation of allosteric subunit interactions. <i>Biochemistry</i> , 1993 , 32, 7413-20 | 3.2 | 28 |
| 1453 | The allosteric transition of the insulin hexamer is modulated by homotropic and heterotropic interactions. <i>Biochemistry</i> , 1993 , 32, 11638-45 | 3.2 | 42 |
| 1452 | Application of the one- and two-dimensional Ising models to studies of cooperativity between ion channels. 1993 , 64, 26-35 | | 32 |
| 1451 | An allosteric model of the molecular interactions of excitation-contraction coupling in skeletal muscle. 1993 , 102, 449-81 | | 87 |
| 1450 | Distinction of structural reorganisation and ligand binding in the TR transition of insulin on the basis of allosteric models. 1993 , 374, 877-85 | | 13 |
| 1449 | Cooperative and anticooperative binding to a ribozyme. 1993 , 90, 8357-61 | | 37 |
| 1448 | A statistical analysis of acetylcholine receptor activation in <i>Xenopus</i> myocytes: stepwise versus concerted models of gating. 1993 , 461, 339-78 | | 43 |
| 1447 | Proceedings of the Physiological Society, 21-23 April 1983, Leicester Meeting: Poster Communications. 1993 , 467, 356-387 | | 1 |
| 1446 | A model for the effect of estrogen antagonists on cooperative estradiol binding. 1993 , 13, 1055-81 | | |
| 1445 | Desensitization and reactivation of ACh-regulated exocrine secretion in hen tracheal epithelium. 1993 , 264, C342-51 | | 7 |
| 1444 | Heterogeneity of protein conformation in solution from the lifetime of tryptophan phosphorescence. 1994 , 52, 25-34 | | 25 |
| 1443 | The structural basis of insulin and insulin-like growth factor-I receptor binding and negative co-operativity, and its relevance to mitogenic versus metabolic signalling. 1994 , 37 Suppl 2, S135-48 | | 231 |

| | | | |
|------|--|-----|-----|
| 1442 | Evidence of hemoglobin dissociation. 1994 , 34, 747-57 | | 16 |
| 1441 | Identification of the molecular trigger for allosteric activation in glycogen phosphorylase. 1994 , 1, 327-33 | | 29 |
| 1440 | Molten globular characteristics of the native state of apomyoglobin. 1994 , 1, 447-52 | | 60 |
| 1439 | Apparent cooperativity for carbamoylphosphate in Escherichia coli aspartate transcarbamoylase only reflects cooperativity for aspartate. 1994 , 222, 775-80 | | 18 |
| 1438 | Dynamics of the muscle thin filament regulatory switch: the size of the cooperative unit. 1994 , 67, 273-82 | | 187 |
| 1437 | Models to explain dose-response relationships that exhibit a downturn phase. 1994 , 15, 178-81 | | 48 |
| 1436 | [3H]resiniferatoxin binding to pig dorsal horn membranes displays positive cooperativity. 1994 , 55, 337-46 | | 13 |
| 1435 | A characterization of the activating structural rearrangements in voltage-dependent Shaker K ⁺ channels. 1994 , 12, 301-15 | | 96 |
| 1434 | Design of novel antiestrogens. 1994 , 49, 269-80 | | 20 |
| 1433 | A-ring nitro- and amino-substituted estradiol analogs produce a negative cooperative or noncooperative [3H]estradiol-estrogen receptor binding mechanism. <i>Biochemistry</i> , 1994 , 33, 13267-73 | 3-2 | 11 |
| 1432 | Aspartate receptors of Escherichia coli and Salmonella typhimurium bind ligand with negative and half-of-the-sites cooperativity. <i>Biochemistry</i> , 1994 , 33, 629-34 | 3-2 | 125 |
| 1431 | Isolation and stability of partially oxidized intermediates of carp hemoglobin: kinetics of CO binding to the mono- and triferric species. <i>Biochemistry</i> , 1994 , 33, 5884-93 | 3-2 | 7 |
| 1430 | Residue lysine-34 in GroES modulates allosteric transitions in GroEL. <i>Biochemistry</i> , 1994 , 33, 14974-8 | 3-2 | 29 |
| 1429 | Spatial versus consumptive competition at polyneuronally innervated neuromuscular junctions. 1994 , 79, 465-94 | | 30 |
| 1428 | Excess-substrate inhibition in enzymology and high-dose inhibition in pharmacology: a reinterpretation [corrected]. 1994 , 298 (Pt 1), 171-80 | | 42 |
| 1427 | Highly sensitive control of transcriptional activity by factor heterodimerization. 1994 , 301 (Pt 1), 9-12 | | 8 |
| 1426 | Inversion of the Bohr effect upon oxygen binding to 24-meric tarantula hemocyanin. 1994 , 91, 4835-9 | | 10 |
| 1425 | Structure and energy change in hemoglobin by hydrogen exchange labeling. 1994 , 232, 26-42 | | 34 |

| | | | |
|------|---|-----|-----|
| 1424 | Proton nuclear magnetic resonance studies of hemoglobin. 1994 , 232, 97-139 | | 14 |
| 1423 | Kinetics of the cooperative binding of glucose to dimeric yeast hexokinase P-I. 1995 , 305 (Pt 2), 405-10 | | 10 |
| 1422 | [1] Pathway of allosteric control as revealed by intermediate states of hemoglobin. 1995 , 259, 1-19 | | 5 |
| 1421 | A model for glycolytic oscillations based on skeletal muscle phosphofructokinase kinetics. 1995 , 174, 137-48 | | 63 |
| 1420 | Michaelis-Menten mechanism reconsidered: implications of fractal kinetics. 1995 , 176, 115-24 | | 135 |
| 1419 | Effects of heterogeneity and cooperativity on the forms of binding curves for multivalent ligands. 1995 , 14, 399-407 | | 5 |
| 1418 | 3D domain swapping: a mechanism for oligomer assembly. 1995 , 4, 2455-68 | | 678 |
| 1417 | On a quantum theory of chemical reactions and the role of in vacuum transition structures. Primary and secondary sources of enzyme catalysis. 1995 , 335, 267-286 | | 19 |
| 1416 | Vanilloid (capsaicin) receptors in the rat: distribution in the brain, regional differences in the spinal cord, axonal transport to the periphery, and depletion by systemic vanilloid treatment. 1995 , 703, 175-83 | | 172 |
| 1415 | Structural features of the reactions between antibodies and protein antigens. 1995 , 9, 9-16 | | 193 |
| 1414 | Multiple receptor populations: binding isotherms and their numerical analysis. 1995 , 15, 651-75 | | 7 |
| 1413 | Regions of beta 2 and beta 4 responsible for differences between the steady state dose-response relationships of the alpha 3 beta 2 and alpha 3 beta 4 neuronal nicotinic receptors. 1995 , 105, 745-64 | | 48 |
| 1412 | Chapter 5 Enzyme kinetics in vitro and in vivo: Michaelis-Menten revisited. 1995 , 93-146 | | 14 |
| 1411 | Site-directed mutagenesis of human glutathione transferase P1-1. Mutation of Cys-47 induces a positive cooperativity in glutathione transferase P1-1. 1995 , 270, 1243-8 | | 81 |
| 1410 | Oligomeric structure and substrate induced inhibition of human cathepsin C. 1995 , 270, 21626-31 | | 95 |
| 1409 | Nested cooperativity in the ATPase activity of the oligomeric chaperonin GroEL. <i>Biochemistry</i> , 1995 , 34, 5303-8 | 3.2 | 273 |
| 1408 | Spectroscopic, calorimetric, and kinetic demonstration of conformational adaptation in peptide-antibody recognition. <i>Biochemistry</i> , 1995 , 34, 16509-18 | 3.2 | 69 |
| 1407 | Enthalpic and entropic components of cooperativity for the partially ligated intermediates of hemoglobin support a "symmetry rule" mechanism. <i>Biochemistry</i> , 1995 , 34, 6316-27 | 3.2 | 31 |

| | | | |
|------|--|-----|-----|
| 1406 | Enzymes of nucleotide synthesis. 1995 , 5, 752-7 | | 35 |
| 1405 | Ligand binding to wild-type and E-B13Q mutant insulins: a three-state allosteric model system showing half-site reactivity. 1995 , 245, 324-30 | | 43 |
| 1404 | Hypercooperativity induced by interface mutations in the phosphofructokinase from <i>Escherichia coli</i> . 1995 , 246, 248-53 | | 12 |
| 1403 | A single mutation (Thr72-->Ile) at the subunit interface is crucial for the functional properties of the homodimeric co-operative haemoglobin from <i>Scapharca inaequalvis</i> . 1995 , 248, 910-7 | | 10 |
| 1402 | X-ray scattering titration of the quaternary structure transition of aspartate transcarbamylase with a bisubstrate analogue: influence of nucleotide effectors. 1995 , 251, 243-55 | | 46 |
| 1401 | ¹ H-NMR investigation of the oxygenation of hemoglobin in intact human red blood cells. 1995 , 68, 681-93 | | 12 |
| 1400 | General structure-activity correlations of antihormones. 1995 , 761, 5-28 | | 13 |
| 1399 | The relation between cooperativity in ligand binding and intramolecular cooperativity in allosteric proteins. 1995 , 259, 85-87 | | 4 |
| 1398 | Cooperativity in enzyme function: equilibrium and kinetic aspects. 1995 , 249, 519-67 | | 55 |
| 1397 | Metabolic Control Analysis in Theory and Practice. 1995 , 11, 21-64 | | 20 |
| 1396 | Nanosecond time-resolved absorption studies of human oxyhemoglobin photolysis intermediates. 1996 , 71, 1596-604 | | 18 |
| 1395 | Heterotropic effects of chloride on the ligation microstates of hemoglobin at constant water activity. 1996 , 71, 2106-16 | | 16 |
| 1394 | Molecular Recognition of Aqueous Dipeptides at Multiple Hydrogen-Bonding Sites of Mixed Peptide Monolayers. 1996 , 118, 9545-9551 | | 100 |
| 1393 | Positive and negative cooperativities at subsequent steps of oxygenation regulate the allosteric behavior of multistate sebacylhemoglobin. <i>Biochemistry</i> , 1996 , 35, 3418-25 | 3.2 | 19 |
| 1392 | Effects of NAD ⁺ binding on the luminescence of tryptophans 84 and 310 of glyceraldehyde-3-phosphate dehydrogenase from <i>Bacillus stearothermophilus</i> . <i>Biochemistry</i> , 1996 , 35, 12549-59 | 3.2 | 23 |
| 1391 | A novel agonist, phorbol 12-phenylacetate 13-acetate 20-homovanillate, abolishes positive cooperativity of binding by the vanilloid receptor. 1996 , 299, 221-8 | | 14 |
| 1390 | Kinetic differentiation between ligand-induced and pre-existent asymmetric models. 1996 , 388, 73-5 | | 11 |
| 1389 | Synthesis and evaluation of phorboid 20-homovanillates: discovery of a class of ligands binding to the vanilloid (capsaicin) receptor with different degrees of cooperativity. 1996 , 39, 3123-31 | | 37 |

1388 Catalysis and regulation. **1996**, 6, 733-5

1387 The structural basis of negative cooperativity: receptors and enzymes. **1996**, 6, 757-61 91

1386 New structures of allosteric proteins revealing remarkable conformational changes. **1996**, 6, 824-9 35

1385 Allosteric intermediates in hemoglobin. 2. Kinetic modeling of HbCO photolysis. *Biochemistry*, **1996**, 35, 8628-39 3.2 42

1384 Ogawa, Seiji: A Way of Reaching Brain Function with Magnetic Resonance. **1996**,

1383 References. **1996**, 526-588

1382 Enzymes and Nucleic Acids. **1996**, 1-108 4

1381 Voltage dependence of mouse acetylcholine receptor gating: different charge movements in di-, mono- and unliganded receptors. **1996**, 494 (Pt 1), 155-70 63

1380 Use of a designed fusion protein dissociates allosteric properties from the dodecameric state of *Pseudomonas aeruginosa* catabolic ornithine carbamoyltransferase. **1996**, 93, 9414-9 5

1379 Ultrasensitivity in the mitogen-activated protein kinase cascade. **1996**, 93, 10078-83 929

1378 Producing positive, negative, and no cooperativity by mutations at a single residue located at the subunit interface in the aspartate receptor of *Salmonella typhimurium*. *Biochemistry*, **1996**, 35, 14782-92^{3,2} 34

1377 A kinetic mechanism for nicotinic acetylcholine receptors based on multiple allosteric transitions. **1996**, 75, 361-79 112

1376 Allosteric proteins after thirty years: the binding and state functions of the neuronal alpha 7 nicotinic acetylcholine receptors. **1996**, 52, 1083-90 35

1375 The origin of kinetic cooperativity in prebiotic catalyts. **1996**, 43, 315-25 16

1374 Protein dynamics and conformational transitions in allosteric proteins. **1996**, 65, 171-219 78

1373 Spectroscopic evidence for preexisting T- and R-state insulin hexamer conformations. **1996**, 26, 377-90 14

1372 Characteristics of beta-adrenergic receptors in longitudinal muscle membranes of rat uterus: changes in kinetic properties of the receptor during gestation. **1996**, 9, 233-8 3

1371 Oxygen binding to fallow-deer (*Dama dama*) hemoglobin: stepwise enthalpies at pH 7.4. **1996**, 59, 107-17 8

| | | | |
|------|--|-----|-----|
| 1370 | Prionics or the kinetic basis of prion diseases. 1996 , 63, A1-18 | | 145 |
| 1369 | Comparative thermodynamic stability of bovine and pigeon haemoglobins by interaction with sodium n-Dodecyl sulphate. 1996 , 287, 343-349 | | 17 |
| 1368 | Poisson-distributed active fusion complexes underlie the control of the rate and extent of exocytosis by calcium. 1996 , 134, 329-38 | | 44 |
| 1367 | Role of the active site gate of glycogen phosphorylase in allosteric inhibition and substrate binding. 1996 , 271, 22305-9 | | 24 |
| 1366 | The Regulation of Cellular Systems. 1996 , | | 565 |
| 1365 | The unique hetero-oligomeric nature of the subunits in the catalytic cooperativity of the yeast Cct chaperonin complex. 1997 , 94, 10780-5 | | 65 |
| 1364 | T state hemoglobin binds oxygen noncooperatively with allosteric effects of protons, inositol hexaphosphate, and chloride. 1997 , 272, 32050-5 | | 103 |
| 1363 | Allosteric gating of a large conductance Ca-activated K ⁺ channel. 1997 , 110, 257-81 | | 222 |
| 1362 | Cooperative exosite-dependent cleavage of synaptobrevin by tetanus toxin light chain. 1997 , 272, 3459-64 | | 62 |
| 1361 | 2'-O-Dansyl analogs of ATP bind with high affinity to the low affinity ATP site of Na ⁺ /K ⁺ -ATPase and reveal the interaction of two ATP sites during catalysis. 1997 , 272, 16315-21 | | 25 |
| 1360 | Nanosecond time-resolved spectroscopy of biomolecular processes. 1997 , 26, 327-55 | | 37 |
| 1359 | Fixation of allosteric states of the nicotinic acetylcholine receptor by chemical cross-linking. 1997 , 94, 8202-7 | | 13 |
| 1358 | Detection of changes in pairwise interactions during allosteric transitions: coupling between local and global conformational changes in GroEL. 1997 , 94, 1698-702 | | 21 |
| 1357 | Allosteric interactions between DNA strands and monovalent cations in DNA quadruplex assembly: thermodynamic evidence for three linked association pathways. <i>Biochemistry</i> , 1997 , 36, 15428-50 | 3.2 | 57 |
| 1356 | Studies of ligand-mediated conformational changes in enzymes by difference sedimentation velocity in the Optima XL-A ultracentrifuge. 1997 , 82-87 | | 5 |
| 1355 | The rational design of allosteric interactions in a monomeric protein and its applications to the construction of biosensors. 1997 , 94, 4366-71 | | 172 |
| 1354 | Can a two-state MWC allosteric model explain hemoglobin kinetics?. <i>Biochemistry</i> , 1997 , 36, 6511-28 | 3.2 | 102 |
| 1353 | Binding of 2,6- and 2,7-dihydroxynaphthalene to wild-type and E-B13Q insulins: dynamic, equilibrium, and molecular modeling investigations. <i>Biochemistry</i> , 1997 , 36, 12746-58 | 3.2 | 19 |

| | | | |
|------|--|-----|-----|
| 1352 | Cooperativity in oxidations catalyzed by cytochrome P450 3A4. <i>Biochemistry</i> , 1997 , 36, 370-81 | 3.2 | 340 |
| 1351 | Cooperativity and regulation of scallop myosin and myosin fragments. <i>Biochemistry</i> , 1997 , 36, 15834-40 | 3.2 | 37 |
| 1350 | Half-site reactivity, negative cooperativity, and positive cooperativity: quantitative considerations of a plausible model. <i>Biochemistry</i> , 1997 , 36, 12759-65 | 3.2 | 25 |
| 1349 | Single binding versus single channel recordings: a new approach to study ionotropic receptors. <i>Biochemistry</i> , 1997 , 36, 13755-60 | 3.2 | 28 |
| 1348 | Cardiac muscarinic receptors. Cooperativity as the basis for multiple states of affinity. <i>Biochemistry</i> , 1997 , 36, 7361-79 | 3.2 | 90 |
| 1347 | GroES promotes the T to R transition of the GroEL ring distal to GroES in the GroEL-GroES complex. <i>Biochemistry</i> , 1997 , 36, 12276-81 | 3.2 | 41 |
| 1346 | Clustering of Bursts of Openings in Markov and Semi-Markov Models of Single Channel Gating. 1997 , 29, 92-113 | | 7 |
| 1345 | Metal-ion-mediated allosteric triggering of yeast pyruvate kinase. 2. A multidimensional thermodynamic linked-function analysis. <i>Biochemistry</i> , 1997 , 36, 6803-13 | 3.2 | 37 |
| 1344 | Metal-ion-mediated allosteric triggering of yeast pyruvate kinase. 1. A multidimensional kinetic linked-function analysis. <i>Biochemistry</i> , 1997 , 36, 6792-802 | 3.2 | 39 |
| 1343 | Allosteric properties of inosine monophosphate dehydrogenase revealed through the thermodynamics of binding of inosine 5'-monophosphate and mycophenolic acid. Temperature dependent heat capacity of binding as a signature of ligand-coupled conformational equilibria. <i>Biochemistry</i> , 1997 , 36, 10428-38 | 3.2 | 45 |
| 1342 | The GTP effector site of ornithine decarboxylase from <i>Lactobacillus</i> 30a: kinetic and structural characterization. <i>Biochemistry</i> , 1997 , 36, 16147-54 | 3.2 | 5 |
| 1341 | Contributions of individual molecular species to the Hill coefficient for ligand binding by an oligomeric protein. 1997 , 267, 10-6 | | 10 |
| 1340 | Myasthenic nicotinic receptor mutant interpreted in terms of the allosteric model. 1997 , 320, 953-61 | | 16 |
| 1339 | Autocatalytic processes in cooperative mechanisms of prion diseases. 1997 , 407, 1-6 | | 22 |
| 1338 | Clustering of Bursts of Openings in Markov and Semi-Markov Models of Single Channel Gating. 1997 , 29, 92-113 | | 2 |
| 1337 | A structural model for GroEL-polypeptide recognition. 1997 , 94, 3571-5 | | 188 |
| 1336 | A test of the role of the proximal histidines in the Perutz model for cooperativity in haemoglobin. 1997 , 4, 78-83 | | 69 |
| 1335 | Allosteric proteins. Cuddling up to channel activation. 1997 , 389, 328-9 | | 11 |

| | | |
|------|--|-----|
| 1334 | Artificial enzymes. The importance of being selective. 1997 , 389, 329-30 | 27 |
| 1333 | Structures of a hemoglobin-based blood substitute: insights into the function of allosteric proteins. 1997 , 5, 227-37 | 50 |
| 1332 | Cooperativity: a unified view. 1997 , 1339, 155-66 | 31 |
| 1331 | Is substrate inhibition a consequence of allostery in aspartate transcarbamylase?. 1997 , 64, 225-34 | 60 |
| 1330 | Tertiary and quaternary chloride effects of the partially ligated (CN-met) hemoglobin intermediates. 1997 , 64, 157-73 | 11 |
| 1329 | On the Mechanism of Hormone Recognition and Binding by the CCK-B/Gastrin Receptor. 1997 , 3, 1-14 | 19 |
| 1328 | Analysis of the binding of ligands to large numbers of sites: the binding of tryptophan to the 11 sites of the trp RNA-binding attenuation protein. 1997 , 247, 138-42 | 7 |
| 1327 | Signal-induced Ca ²⁺ oscillations through the regulation of the inositol 1,4,5-trisphosphate-gated Ca ²⁺ channel: an allosteric model. 1997 , 186, 307-26 | 18 |
| 1326 | The kinetics and mechanism of a reaction catalyzed by <i>Bacillus stearothermophilus</i> phosphoglucose isomerase. 1998 , 86, 324-331 | 5 |
| 1325 | Allosteric modulation of neuronal nicotinic acetylcholine receptors. 1998 , 92, 89-100 | 22 |
| 1324 | The allosteric regulation of pyruvate kinase by fructose-1,6-bisphosphate. 1998 , 6, 195-210 | 321 |
| 1323 | Cytosolic Ca ²⁺ and H ⁺ buffers in green algae: A reply. 1998 , 203, 210-213 | 8 |
| 1322 | General features of the recognition by tubulin of colchicine and related compounds. 1998 , 27, 437-45 | 16 |
| 1321 | Identifying the conformational state of bi-liganded haemoglobin. 1998 , 54, 1365-84 | 7 |
| 1320 | Electrostatic coupling to pH-titrating sites as a source of cooperativity in protein-ligand binding. 1998 , 7, 2012-25 | 23 |
| 1319 | Statistical analysis of data pertaining to complex state systems by stepwise regression with reformulated parameters; application to spectroscopically monitored hemoglobin oxygen binding data. 1998 , 70, 185-202 | 4 |
| 1318 | Conformational dynamics and enzyme activity. 1998 , 80, 33-42 | 74 |
| 1317 | Brain nicotinic receptors: structure and regulation, role in learning and reinforcement. 1998 , 26, 198-216 | 243 |

| | | | |
|------|--|-----|-----|
| 1316 | Structure, function and physiological role of glycine N-methyltransferase. 1998 , 30, 13-26 | | 44 |
| 1315 | The functional significance of multimerization in ion channels. 1998 , 8, 186-8 | | 3 |
| 1314 | Allosteric receptors after 30 years. 1998 , 21, 959-80 | | 381 |
| 1313 | Hemoglobin Structure and Function. 1998 , 17, 1-40 | | 42 |
| 1312 | Allosteric activation of Arabidopsis threonine synthase by S-adenosylmethionine. <i>Biochemistry</i> , 1998 , 37, 13212-21 | 3.2 | 99 |
| 1311 | Transient kinetic analysis of adenosine 5'-triphosphate binding-induced conformational changes in the allosteric chaperonin GroEL. <i>Biochemistry</i> , 1998 , 37, 7083-8 | 3.2 | 63 |
| 1310 | CHAPTER 1: Basic Concepts. 1998 , 1-12 | | |
| 1309 | The N-terminal region is important for the allosteric activation and inhibition of the Escherichia coli ADP-glucose pyrophosphorylase. 1998 , 358, 182-8 | | 20 |
| 1308 | Cooperativity in Bacillus stearothermophilus pyruvate kinase. 1998 , 276, 839-51 | | 14 |
| 1307 | Energetic components of the allosteric machinery in hemoglobin measured by hydrogen exchange. 1998 , 284, 1695-706 | | 21 |
| 1306 | Signal transmission between subunits in the hemoglobin T-state. 1998 , 284, 1707-16 | | 15 |
| 1305 | Site-Specific Thermodynamics: Understanding Cooperativity in Molecular Recognition. 1998 , 98, 1563-1592 | | 76 |
| 1304 | Reduction of an eight-state mechanism of cotransport to a six-state model using a new computer program. 1998 , 74, 816-30 | | 26 |
| 1303 | Entropy-driven intermediate steps of oxygenation may regulate the allosteric behavior of hemoglobin. 1998 , 74, 2638-48 | | 7 |
| 1302 | Kinetic structure of large-conductance Ca ²⁺ -activated K ⁺ channels suggests that the gating includes transitions through intermediate or secondary states. A mechanism for flickers. 1998 , 111, 751-80 | | 56 |
| 1301 | The stereochemical mechanism of the cooperative effects in hemoglobin revisited. 1998 , 27, 1-34 | | 470 |
| 1300 | Use of protein engineering to explore subunit interactions in an allosteric enzyme: construction of inter-subunit hybrids in Clostridium symbiosum glutamate dehydrogenase. 1998 , 11, 569-75 | | 8 |
| 1299 | The effect of F-actin on the binding and hydrolysis of guanine nucleotide by Dictyostelium elongation factor 1A. 1998 , 273, 10288-95 | | 38 |

| | | |
|------|--|----|
| 1298 | Mechanism for allosteric inhibition of an ATP-sensitive ribozyme. 1998 , 26, 4214-21 | 71 |
| 1297 | Multifunctional enzymes for the synthesis of 2'-deoxynucleoside triphosphates and their incorporation in DNA. 1998 , 247-258 | |
| 1296 | Site-specific analysis of mutational effects in proteins. 1998 , 51, 59-119 | 40 |
| 1295 | Allosteric transitions of the acetylcholine receptor. 1998 , 51, 121-84 | 52 |
| 1294 | NMR relaxation measurements of backbone proton exchange in proteins permit a distinction between different mechanisms of exchange. 1998 , 95, 1127-1136 | 5 |
| 1293 | Separation of inhibition and activation of the allosteric yeast chorismate mutase. 1998 , 95, 2868-73 | 15 |
| 1292 | Receptors as Drug Targets. 1998 , 00, 1.1.1-1.1.17 | |
| 1291 | Practical Aspects of Radioligand Binding. 1998 , 00, 1.3.1-1.3.33 | 2 |
| 1290 | References. 1998 , 223-241 | |
| 1289 | References. 1999 , 319-374 | |
| 1288 | Opening mechanism of a cyclic nucleotide-gated channel based on analysis of single channels locked in each liganded state. 1999 , 113, 873-95 | 44 |
| 1287 | Protein structure-function relationship studied by single crystal polarized absorption microspectrophotometry. 1999 , 3-6 | |
| 1286 | Op18/stathmin mediates multiple region-specific tubulin and microtubule-regulating activities. 1999 , 146, 1289-302 | 56 |
| 1285 | CO ligation intermediates and the mechanism of hemoglobin cooperativity. 1999 , 274, 2605-8 | 27 |
| 1284 | The enzyme activity allosteric regulation model based on the composite nature of catalytic and regulatory sites concept. 1999 , 16, 917-29 | 4 |
| 1283 | Temperature adaptation of glutathione S-transferase P1-1. A case for homotropic regulation of substrate binding. 1999 , 274, 19276-80 | 41 |
| 1282 | Tight binding of bulky fluorescent derivatives of adenosine to the low affinity E2ATP site leads to inhibition of Na ⁺ /K ⁺ -ATPase. Analysis of structural requirements of fluorescent ATP derivatives with a Koshland-Nemethy-Filmer model of two interacting ATP sites. 1999 , 274, 1971-8 | 17 |
| 1281 | Understanding mechanisms in a cooperative protein: the CO ligation intermediates of hemoglobin. 1999 , 81, 157-78 | 10 |

| | | | |
|------|---|-----|-----|
| 1280 | Parameters determining the stimulatory capacity of the type I Fc epsilon-receptor. 1999 , 68, 59-69 | | 9 |
| 1279 | Sources for structure formation and switches in metabolic pathways. 1999 , 51, 41-52 | | 4 |
| 1278 | Is cooperative oxygen binding by hemoglobin really understood?. 1999 , 6, 351-8 | | 253 |
| 1277 | p53 DNA binding can be modulated by factors that alter the conformational equilibrium. 1999 , 18, 763-70 | | 31 |
| 1276 | Complexation of radionuclides with natural polyelectrolytes [p]roteins, polysaccharides and humic substances. 1999 , 240, 251-259 | | 8 |
| 1275 | Thermodynamics of nucleotide binding to the chaperonin GroEL studied by isothermal titration calorimetry: evidence for noncooperative nucleotide binding. 1999 , 1431, 269-81 | | 24 |
| 1274 | Radical methods. 1999 , 24, 161-162 | | |
| 1273 | Hemoglobin is an honorary enzyme. 1999 , 24, 158-61 | | 51 |
| 1272 | Smart yeast analysis. 1999 , 24, 161 | | |
| 1271 | Tyrosine hydroxylase binds tetrahydrobiopterin cofactor with negative cooperativity, as shown by kinetic analyses and surface plasmon resonance detection. 1999 , 262, 840-9 | | 38 |
| 1270 | Dimers generated from tetrameric phosphorylating glyceraldehyde-3-phosphate dehydrogenase from <i>Bacillus stearothermophilus</i> are inactive but exhibit cooperativity in NAD binding. <i>Biochemistry</i> , 1999 , 38, 16084-91 | 3.2 | 23 |
| 1269 | Ushers and other doorkeepers. 1999 , 7, 4-6; discussion 6-7 | | 15 |
| 1268 | Sensitivity, cooperativity and gain in chemotaxis signal transduction. 1999 , 7, 1-4 | | 15 |
| 1267 | Theoretical aspects of the quantitative characterization of ligand binding. 2001 , Appendix 5, Appendix 5A | | 4 |
| 1266 | Solute modulation of conformational equilibria in intrinsic membrane proteins: apparent "cooperativity" without binding. 1999 , 77, 2643-7 | | 50 |
| 1265 | Molecular dissection of protein antigens and the prediction of epitopes. 1999 , 1-78 | | 1 |
| 1264 | Functional analysis of hemoglobin molecules locked in doubly liganded conformations. 1999 , 285, 1383-8 | | 34 |
| 1263 | A kinetic analysis of the nucleotide-induced allosteric transitions of GroEL. 1999 , 293, 667-84 | | 65 |

| | | |
|------|--|-----|
| 1262 | Influence of substrates on in vitro dephosphorylation of glycogen phosphorylase a by protein phosphatase-1. 1999 , 341, 545-554 | 4 |
| 1261 | Influence of substrates on in vitro dephosphorylation of glycogen phosphorylase a by protein phosphatase-1. 1999 , 341 (Pt 3), 545-54 | 1 |
| 1260 | Chapter 2 Elementary Life Processes Viewed as Dynamic Physicochemical Events. 1999 , 34, 15-62 | |
| 1259 | Covalent tethering of ligands to retinal rod cyclic nucleotide-gated channels: binding site structure and allosteric mechanism. 2000 , 315, 755-72 | 1 |
| 1258 | Adipyl crosslinked bovine hemoglobins as new models of allosteric systems. 2000 , 39, 166-169 | 11 |
| 1257 | Confirmation of a unique intra-dimer cooperativity in the human hemoglobin alpha(1)beta(1)half-oxygenated intermediate supports the symmetry rule model of allosteric regulation. 2000 , Suppl 4, 23-43 | 38 |
| 1256 | Inhibition Effects in the Hydrolysis Reactions of Esters and Peptides Catalyzed by Carboxypeptidase A: An Example of Cooperative Binding Effects with a Monomeric Enzyme. 2000 , 28, 226-241 | 1 |
| 1255 | On the relationship between the Hill coefficients for steady-state and transient kinetic data: a criterion for concerted transitions in allosteric proteins. 2000 , 62, 241-6 | 16 |
| 1254 | The organization of metabolic reaction networks: a signal-oriented approach to cellular models. 2000 , 2, 190-200 | 49 |
| 1253 | Psychoactive cannabinoids and membrane signaling. 2000 , 15, 535-549 | 3 |
| 1252 | From gel filtration to biosensor technology: the development of chromatography for the characterization of protein interactions. 2000 , 13, 279-98 | 10 |
| 1251 | Regulation of human D(1), d(2(long)), d(2(short)), D(3) and D(4) dopamine receptors by amiloride and amiloride analogues. 2000 , 130, 1045-59 | 35 |
| 1250 | Structural symmetry and protein function. 2000 , 29, 105-53 | 671 |
| 1249 | Activation of synaptic receptors and its allosteric regulation. 2000 , 32, 45-56 | |
| 1248 | Mechanism-based discovery of ligands that counteract inhibition of the nicotinic acetylcholine receptor by cocaine and MK-801. 2000 , 97, 13895-900 | 47 |
| 1247 | Binding properties of agonists and antagonists to distinct allosteric states of the nicotinic acetylcholine receptor are incompatible with a concerted model. 2000 , 275, 30196-201 | 15 |
| 1246 | Expression mechanism of the allosteric interactions in a ribozyme catalysis. 2000 , 205-6 | |
| 1245 | Quantification of Allosteric Interactions at G Protein Coupled Receptors Using Radioligand Binding Assays. 2000 , 11, 1.22.1 | 12 |

| | | | |
|------|--|-----|-----|
| 1244 | Mutational analysis of op18/stathmin-tubulin-interacting surfaces. Binding cooperativity controls tubulin GTP hydrolysis in the ternary complex. 2000 , 275, 35759-66 | | 14 |
| 1243 | The HPr kinase from <i>Bacillus subtilis</i> is a homo-oligomeric enzyme which exhibits strong positive cooperativity for nucleotide and fructose 1,6-bisphosphate binding. 2000 , 275, 1773-80 | | 82 |
| 1242 | Kinetic studies of cAMP-induced allosteric changes in cyclic AMP receptor protein from <i>Escherichia coli</i> . 2000 , 275, 8480-6 | | 25 |
| 1241 | Nicotinic receptors at the amino acid level. 2000 , 40, 431-58 | | 711 |
| 1240 | Bioengineering models of cell signaling. 2000 , 2, 31-53 | | 104 |
| 1239 | The I182 region of <i>k(ir)6.2</i> is closely associated with ligand binding in K(ATP) channel inhibition by ATP. 2000 , 79, 841-52 | | 39 |
| 1238 | Interaction of the noncovalent molecular adapter, beta-cyclodextrin, with the staphylococcal alpha-hemolysin pore. 2000 , 79, 1967-75 | | 98 |
| 1237 | Complex voltage-dependent behavior of single unliganded calcium-sensitive potassium channels. 2000 , 78, 761-72 | | 39 |
| 1236 | Conversion of a T cell antagonist into an agonist by repairing a defect in the TCR/peptide/MHC interface: implications for TCR signaling. 2000 , 13, 475-84 | | 122 |
| 1235 | Covalent modification regulates ligand binding to receptor complexes in the chemosensory system of <i>Escherichia coli</i> . 2000 , 100, 357-65 | | 178 |
| 1234 | Kinetics and mechanism of the citrate synthase from the thermophilic archaeon <i>Thermoplasma acidophilum</i> . <i>Biochemistry</i> , 2000 , 39, 2283-96 | 3.2 | 22 |
| 1233 | Effect of pressure on deuterium isotope effects of yeast alcohol dehydrogenase: evidence for mechanical models of catalysis. <i>Biochemistry</i> , 2000 , 39, 2406-12 | 3.2 | 42 |
| 1232 | Domain-domain communication in aminoacyl-tRNA synthetases. 2001 , 69, 317-49 | | 39 |
| 1231 | Chaperonin-mediated protein folding. 2001 , 30, 245-69 | | 323 |
| 1230 | Two-state allosteric behavior in a single-domain signaling protein. 2001 , 291, 2429-33 | | 529 |
| 1229 | Truncated forms of the recombinant <i>Escherichia coli</i> ADP-glucose pyrophosphorylase: the importance of the N-terminal region for allosteric activation and inhibition. 2001 , 389, 159-65 | | 19 |
| 1228 | Conformational spread in a ring of proteins: a stochastic approach to allostery. 2001 , 308, 541-53 | | 184 |
| 1227 | Review: allostery in chaperonins. 2001 , 135, 104-14 | | 105 |

| | | |
|------|---|------|
| 1226 | Uses of isotope effects in the study of enzymes. 2001 , 24, 117-24 | 20 |
| 1225 | Microscopic kinetics and energetics distinguish GABA(A) receptor agonists from antagonists. 2001 , 81, 2660-70 | 79 |
| 1224 | Allosteric binding of nucleoside triphosphates to RNA polymerase regulates transcription elongation. 2001 , 106, 243-52 | 98 |
| 1223 | Allosteric behavior in cytochrome p450-dependent in vitro drug-drug interactions: a prospective based on conformational dynamics. 2001 , 14, 338-47 | 97 |
| 1222 | Enzyme Activity: Allosteric Regulation. 2001 , | |
| 1221 | Dynamics and thermodynamics of hyperthermophilic proteins by hydrogen exchange. 2001 , 334, 342-50 | 5 |
| 1220 | Allostery. 2001 , 39-40 | 1 |
| 1219 | Haemoglobin: Cooperativity in Protein-Ligand Interactions. 2001 , | |
| 1218 | Tonoplast anion channel activity modulation by pH in Chara corallina. 2001 , 184, 131-41 | 6 |
| 1217 | The subsequent effect of interaction between Co(2+) and human serum albumin or bovine serum albumin. 2001 , 85, 167-71 | 63 |
| 1216 | Influence of allosteric effectors on the kinetics and equilibrium binding of phosphoenolpyruvate (PEP) to phosphoenolpyruvate carboxylase (PEPC) from Zea mays. 2001 , 92, 53-64 | 8 |
| 1215 | Searching for allosteric effects via QSARs. 2001 , 9, 283-9 | 27 |
| 1214 | Coupling between substrate binding and allosteric regulation in ribozyme catalysis. 2001 , 9, 1155-63 | 6 |
| 1213 | QSAR of the inhibition of angiogenesis by TNP-470 and ovalicin analogues: another example of an allosteric interaction. 2001 , 9, 3225-30 | 5 |
| 1212 | Intrinsically disordered protein. 2001 , 19, 26-59 | 1747 |
| 1211 | Kinetics and localization of brain phosphate activated glutaminase. 2001 , 66, 951-8 | 94 |
| 1210 | Mass spectrometry as a novel approach to probe cooperativity in multimeric enzymatic systems. 2001 , 291, 48-61 | 47 |
| 1209 | Nested allosteric interactions in the cytoplasmic chaperonin containing TCP-1. 2001 , 10, 445-9 | 55 |

| | | |
|------|--|----|
| 1208 | Spectroscopic contributions to the understanding of hemoglobin function: implications for structural biology. 2001 , 51, 351-7 | 22 |
| 1207 | Structure of the cooperative allosteric anthranilate synthase from <i>Salmonella typhimurium</i> . 2001 , 8, 243-7 | 69 |
| 1206 | Direct structural evidence for a concerted allosteric transition in <i>Escherichia coli</i> aspartate transcarbamoylase. 2001 , 8, 423-6 | 38 |
| 1205 | Delineation of the allosteric mechanism of a cytidyltransferase exhibiting negative cooperativity. 2001 , 8, 947-52 | 80 |
| 1204 | Binding features of chloroplast fructose-1,6-bisphosphatase-thioredoxin interaction. 2001 , 1547, 156-66 | 27 |
| 1203 | The Bohr effect of hemoglobin intermediates and the role of salt bridges in the tertiary/quaternary transitions. 2001 , 276, 13628-34 | 10 |
| 1202 | Pre-steady state quantification of the allosteric influence of <i>Escherichia coli</i> phosphofructokinase. 2001 , 276, 34388-95 | 5 |
| 1201 | Negative cooperativity of substrate binding but not enzyme activity in wild-type and mutant forms of CTP:glycerol-3-phosphate cytidyltransferase. 2001 , 276, 37922-8 | 15 |
| 1200 | Opiates: biphasic dose responses. 2001 , 31, 585-604 | 25 |
| 1199 | Protein-Ligand Interactions: General Description. 2001 , | 1 |
| 1198 | Allosteric regulation of catalytic activity: <i>Escherichia coli</i> aspartate transcarbamoylase versus yeast chorismate mutase. 2001 , 65, 404-21, table of contents | 54 |
| 1197 | Propagating conformational changes over long (and short) distances in proteins. 2001 , 98, 9517-20 | 99 |
| 1196 | On the dynamic origins of allosteric activation. 2001 , 293, 1395 | 19 |
| 1195 | A signature of the T → R transition in human hemoglobin. 2001 , 98, 3773-7 | 56 |
| 1194 | Analysis of the cooperativity of human beta-cell glucokinase through the stimulatory effect of glucose on fructose phosphorylation. 2001 , 276, 3872-8 | 21 |
| 1193 | The catastrophe-promoting activity of ectopic Op18/stathmin is required for disruption of mitotic spindles but not interphase microtubules. 2001 , 12, 73-83 | 55 |
| 1192 | Utility function and cooperativity in binding systems. 2001 , 114, 10212-10224 | |
| 1191 | Dynamic Biochemistry: Biomolecular Interactions. 107-121 | |

| | | | | |
|------|--|-----|--|-----|
| 1190 | Conformational-relaxation models of single-enzyme kinetics. 2002 , 99, 15410-5 | | | 29 |
| 1189 | Creation of an allosteric phosphofructokinase starting with a nonallosteric enzyme. The case of dictyostelium discoideum phosphofructokinase. 2002 , 277, 1210-6 | | | 23 |
| 1188 | Proteomics and models for enzyme cooperativity. 2002 , 277, 46841-4 | | | 112 |
| 1187 | Interaction of K(ATP) channel modulators with sulfonylurea receptor SUR2B: implication for tetramer formation and allosteric coupling of subunits. 2002 , 61, 407-14 | | | 24 |
| 1186 | Global allostery model of hemoglobin. Modulation of O(2) affinity, cooperativity, and Bohr effect by heterotropic allosteric effectors. 2002 , 277, 34508-20 | | | 142 |
| 1185 | Single residue modification of only one dimer within the hemoglobin tetramer reveals autonomous dimer function. 2002 , 99, 9777-82 | | | 32 |
| 1184 | Cofactor binding to Escherichia coli D-3-phosphoglycerate dehydrogenase induces multiple conformations which alter effector binding. 2002 , 277, 39548-53 | | | 19 |
| 1183 | Mutual Synchronization of Molecular Turnover Cycles in Allosteric Enzymes III. Intramolecular Cooperativity. 2002 , 106, 3237-3247 | | | 4 |
| 1182 | Effects of amino acid substitutions at beta 131 on the structure and properties of hemoglobin: evidence for communication between alpha 1 beta 1- and alpha 1 beta 2-subunit interfaces. <i>Biochemistry</i> , 2002 , 41, 5644-55 | 3.2 | | 33 |
| 1181 | Calorimetric demonstration of the potential of molecular crowding to emulate the effect of an allosteric activator on pyruvate kinase kinetics. <i>Biochemistry</i> , 2002 , 41, 6897-901 | 3.2 | | 17 |
| 1180 | Chem-bioinformatics: comparative QSAR at the interface between chemistry and biology. 2002 , 102, 783-812 | | | 204 |
| 1179 | Deoxyribonucleoside kinases belonging to the thymidine kinase 2 (TK2)-like group vary significantly in substrate specificity, kinetics and feed-back regulation. 2002 , 315, 529-40 | | | 36 |
| 1178 | Enzyme Kinetics. 2002 , 563-596 | | | 1 |
| 1177 | Bibliography. 217-219 | | | |
| 1176 | Molecular aspects of embryonic hemoglobin function. 2002 , 23, 293-342 | | | 51 |
| 1175 | NMR evidence for different conformations of the bioactive region of rat CCK-8 and CCK-58. 2002 , 293, 1014-20 | | | 21 |
| 1174 | Screening transthyretin amyloid fibril inhibitors: characterization of novel multiprotein, multiligand complexes by mass spectrometry. 2002 , 10, 851-63 | | | 99 |
| 1173 | Caught in the act: how ATP binding triggers cooperative conformational changes in a molecular machine. 2002 , 9, 3-5 | | | 4 |

| | | |
|------|--|-----|
| 1172 | Nicotine addiction: the possible role of functional upregulation. 2002 , 23, 130-6 | 214 |
| 1171 | Surprises and revelations in biochemistry: 1950-2000. 2002 , 30, 152-162 | 1 |
| 1170 | . 2002 , | 87 |
| 1169 | Enzymes II: Regulation. 2002 , 109-119 | |
| 1168 | . 2002 , | 27 |
| 1167 | Effects of high pressure on enzymatic activity. 2002 , 1595, 71-9 | 77 |
| 1166 | Ion channels: does each subunit do something on its own?. 2002 , 27, 402-9 | 24 |
| 1165 | Gating of inward rectifier K(+) channels by proton-mediated interactions of intracellular protein domains. 2002 , 12, 5-13 | 12 |
| 1164 | Molecular Recognition of Anions by a Novel Organocobalt Receptor: Oxyanion versus Halide Selectivity in Water. 2002 , 2002, 2312-2319 | 14 |
| 1163 | Resonance Raman spectroscopic studies in copper reconstituted and hybrid hemoglobins: probe into subunit heterogeneity. 2002 , 67, 156-66 | 4 |
| 1162 | Nested MWC model describes hydrolysis of GroEL without assuming negative cooperativity in binding. 2002 , 1599, 45-55 | 5 |
| 1161 | Recombinant hemoglobins with low oxygen affinity and high cooperativity. 2002 , 98, 15-25 | 15 |
| 1160 | A tertiary two-state allosteric model for hemoglobin. 2002 , 98, 149-64 | 127 |
| 1159 | Linus Pauling and sickle cell disease. 2003 , 100, 109-16 | 26 |
| 1158 | John Edsall and ligand-linked subunit interactions in hemoglobin. 2003 , 100, 117-21 | |
| 1157 | Chaperonin-affected folding of globular proteins. 2002 , 28, 77-93 | |
| 1156 | Towards a general model for protein-substrate stereoselectivity. 2002 , 11, 1330-9 | 26 |
| 1155 | Small-angle scattering studies of biological macromolecules in solution. 2003 , 66, 1735-1782 | 727 |

| | | | |
|------|--|-----|-----|
| 1154 | The role of dynamics in allosteric regulation. 2003 , 13, 748-57 | | 550 |
| 1153 | Positive cooperativity induces multimodal site and thermodynamic affinity distributions in multivalent proteins. 2003 , 313, 226-33 | | 1 |
| 1152 | Surface plasmon resonance as a probe of protein isomerization. 2003 , 318, 1-12 | | 24 |
| 1151 | A sigmoidal transcriptional response: cooperativity, synergy and dosage effects. 2003 , 78, 149-70 | | 76 |
| 1150 | Different degree of cooperativity in adult, embryonic and mutated mouse muscle nicotinic receptors. 2003 , 1646, 119-130 | | 5 |
| 1149 | Structural basis for partial agonist action at ionotropic glutamate receptors. 2003 , 6, 803-10 | | 336 |
| 1148 | Site-selective agonist binding to the nicotinic acetylcholine receptor from <i>Torpedo californica</i> . <i>Biochemistry</i> , 2003 , 42, 4197-207 | 3.2 | 12 |
| 1147 | Highly negative homotropic allosteric binding of viologens in a double-cavity porphyrin. 2003 , 125, 1186-7 | | 70 |
| 1146 | 2 Structure of myoglobin and haemoglobin. 2001-2009 | | |
| 1145 | Thermodynamic characterization of the binding of nucleotides to glycyl-tRNA synthetase. <i>Biochemistry</i> , 2003 , 42, 5333-40 | 3.2 | 8 |
| 1144 | Allosteric changes in protein structure computed by a simple mechanical model: hemoglobin TR2 transition. 2003 , 333, 153-68 | | 157 |
| 1143 | Cooperativity in <i>Scapharca</i> dimeric hemoglobin: simulation of binding intermediates and elucidation of the role of interfacial water. 2003 , 326, 593-606 | | 33 |
| 1142 | Transient kinetic analysis of ATP-induced allosteric transitions in the eukaryotic chaperonin containing TCP-1. 2003 , 326, 981-7 | | 42 |
| 1141 | P but not R-axis interface is involved in cooperative binding of NAD on tetrameric phosphorylating glyceraldehyde-3-phosphate dehydrogenase from <i>Bacillus stearothermophilus</i> . 2003 , 326, 1513-22 | | 17 |
| 1140 | Allosteric regulation of the transcription factor NFAT1 by multiple phosphorylation sites: a mathematical analysis. 2003 , 327, 31-45 | | 76 |
| 1139 | Structural basis for GroEL-assisted protein folding from the crystal structure of (GroEL-KMgATP) ₁₄ at 2.0Å resolution. 2003 , 327, 843-55 | | 109 |
| 1138 | Ligand binding energy and catalytic efficiency from improved packing within receptors and enzymes. 2003 , 329, 389-99 | | 84 |
| 1137 | A spatially extended stochastic model of the bacterial chemotaxis signalling pathway. 2003 , 329, 291-309 | | 122 |

| | | |
|------|--|--------|
| 1136 | Nested cooperativity and salt dependence of the ATPase activity of the archaeal chaperonin Mm-cpn. 2003 , 547, 201-4 | 29 |
| 1135 | Beginnings of feedback inhibition, allostery, and multi-protein complexes. 2003 , 321, 17-23 | 28 |
| 1134 | The global allostery model of hemoglobin: an allosteric mechanism involving homotropic and heterotropic interactions. 2003 , 326, 523-32 | 25 |
| 1133 | Activation of phenylalanine hydroxylase: effect of substitutions at Arg68 and Cys237. <i>Biochemistry</i> , 2003 , 42, 3419-28 | 3.2 45 |
| 1132 | Hydration effects on the structural properties and haem-haem interaction in haemoglobin. 2003 , 5, 192-197 | 12 |
| 1131 | Allosteric proteins: lessons to be learned from the hemoglobin intermediates. 2003 , 18, 232-6 | 2 |
| 1130 | Small-angle scattering: a view on the properties, structures and structural changes of biological macromolecules in solution. 2003 , 36, 147-227 | 427 |
| 1129 | Allosteric interactions and bifunctionality make the response of glutamine synthetase cascade system of <i>Escherichia coli</i> robust and ultrasensitive. 2003 , 278, 26327-32 | 25 |
| 1128 | Tuning activation of the AMPA-sensitive GluR2 ion channel by genetic adjustment of agonist-induced conformational changes. 2003 , 100, 5736-41 | 132 |
| 1127 | Conversion of the allosteric transition of GroEL from concerted to sequential by the single mutation Asp-155 -> Ala. 2003 , 100, 13797-802 | 34 |
| 1126 | Proteins and Enzymes. 2003 , | |
| 1125 | The Allosteric Effect. 2004 , 20-30 | 3 |
| 1124 | Femtosecond Time-Resolved Absorption of Oxyhaemoglobin Photolysis in Living Erythrocytes. 2004 , 21, 1636-1639 | 4 |
| 1123 | Rational understanding of nicotinic receptors drug binding. 2004 , 4, 645-50 | 23 |
| 1122 | Molecular structure and function of the glycine receptor chloride channel. 2004 , 84, 1051-95 | 605 |
| 1121 | Quantitative analysis and interpretation of allosteric behavior. 2004 , 380, 187-203 | 60 |
| 1120 | Origin of cooperativity in the activation of fructose-1,6-bisphosphatase by Mg ²⁺ . 2004 , 279, 18481-7 | 5 |
| 1119 | Structural flexibility of small GTPases. Can it explain their functional versatility?. 2004 , 385, 1121-36 | 6 |

| | | |
|------|--|-----|
| 1118 | 240s loop interactions stabilize the T state of Escherichia coli aspartate transcarbamoylase. 2004 , 279, 23302-10 | 3 |
| 1117 | Identification of a major inter-ring coupling step in the GroEL reaction cycle. 2004 , 279, 38111-7 | 6 |
| 1116 | New insights into allosteric mechanisms from trapping unstable protein conformations in silica gels. 2004 , 101, 14414-9 | 101 |
| 1115 | Comparison of taurine- and glycine-induced conformational changes in the M2-M3 domain of the glycine receptor. 2004 , 279, 19559-65 | 15 |
| 1114 | A fluorophore attached to nicotinic acetylcholine receptor beta M2 detects productive binding of agonist to the alpha delta site. 2004 , 101, 10195-200 | 75 |
| 1113 | NONLINEAR DYNAMICS OF GLYCOLYSIS. 2004 , 18, 653-678 | 2 |
| 1112 | A mechanism for the activation of the Na/H exchanger NHE-1 by cytoplasmic acidification and mitogens. 2004 , 5, 91-6 | 73 |
| 1111 | Conformational changes associated with protein-protein interactions. 2004 , 14, 104-9 | 242 |
| 1110 | Can the description of a cascade of biochemical events establish the basis of the integration of a biological function?. 2004 , 96, 675-6 | |
| 1109 | Equilibrium analysis of allosteric interactions shows zero-order effects. 2004 , 41, 179-92 | 1 |
| 1108 | The fractal architecture of cytoplasmic organization: scaling, kinetics and emergence in metabolic networks. 2004 , 256-257, 169-84 | 37 |
| 1107 | Biochemical effects of molecular crowding. 2004 , 69, 1239-51 | 127 |
| 1106 | Is allostery an intrinsic property of all dynamic proteins?. 2004 , 57, 433-43 | 669 |
| 1105 | A homotropic two-state model and auto-antagonism. 2004 , 4, 11 | 20 |
| 1104 | Probability rule for chiral recognition. 2004 , 16, 369-78 | 28 |
| 1103 | Conformational changes monitored by fluorescence study on reconstituted hemoglobins. 2004 , 60, 2523-6 | 61 |
| 1102 | Bioinformatics and cellular signaling. 2004 , 15, 78-81 | 29 |
| 1101 | The hemoglobin cyanomet ligation analogue and carbon monoxide induce similar allosteric mechanisms. 2004 , 109, 201-13 | 3 |

| | | | |
|------|--|-----|-----|
| 1100 | Nuclear magnetic resonance spectroscopy in the study of hemoglobin cooperativity. 2004 , 379, 28-54 | | 7 |
| 1099 | The molecular code for hemoglobin allostery revealed by linking the thermodynamics and kinetics of quaternary structural change. 1. Microstate linear free energy relations. <i>Biochemistry</i> , 2004 , 43, 12048-54 | 3.2 | 19 |
| 1098 | Comprehensive Enzyme Kinetics. 2004 , | | 3 |
| 1097 | Decomposing Complex Cooperative Ligand Binding into Simple Components: Connections between Microscopic and Macroscopic Models. 2004 , 108, 11157-11169 | | 24 |
| 1096 | Oligomerization of G protein-coupled receptors: past, present, and future. <i>Biochemistry</i> , 2004 , 43, 15643-56 | | 202 |
| 1095 | Disentangling the web of allosteric communication in a homotetramer: heterotropic activation in phosphofructokinase from <i>Escherichia coli</i> . <i>Biochemistry</i> , 2004 , 43, 14104-10 | 3.2 | 16 |
| 1094 | Conformational spread: the propagation of allosteric states in large multiprotein complexes. 2004 , 33, 53-73 | | 153 |
| 1093 | The molecular code for hemoglobin allostery revealed by linking the thermodynamics and kinetics of quaternary structural change. 2. Cooperative free energies of $(\alpha\text{FeCO}\beta\text{Fe})_2$ and $(\alpha\text{Fe}\beta\text{FeCO})_2$ T-state tetramers. <i>Biochemistry</i> , 2004 , 43, 12065-80 | 3.2 | 13 |
| 1092 | Cytochrome P450: what have we learned and what are the future issues?. 2004 , 36, 159-97 | | 171 |
| 1091 | Coherent Dynamics in Networks of Single Protein Molecules. 2004 , 225-232 | | |
| 1090 | The structure-function relationship of hemoglobin in solution at atomic resolution. 2004 , 104, 1219-30 | | 138 |
| 1089 | Cooperative and Allosteric Effects. 2004 , 243-282 | | |
| 1088 | Hill coefficient for estimating the magnitude of cooperativity in gating transitions of voltage-dependent ion channels. 2004 , 87, 822-30 | | 55 |
| 1087 | Direct discrimination between models of protein activation by single-molecule force measurements. 2004 , 87, 2630-4 | | 30 |
| 1086 | Disentangling the web of allosteric communication in a homotetramer: heterotropic inhibition of phosphofructokinase from <i>Bacillus stearothermophilus</i> . <i>Biochemistry</i> , 2004 , 43, 577-86 | 3.2 | 21 |
| 1085 | Laser-induced time-resolved photoacoustic calorimetry study on photo-dissociation of human and bovine oxyhemoglobin. 2004 , 319, 157-62 | | 12 |
| 1084 | Slow transitions between two conformational states of band 3 (AE1) modulate divalent anion transport and DBDS binding to a second site on band 3 which is activated by lowering the pH (pK approximately 5.0). 2004 , 32, 372-8 | | 4 |
| 1083 | Creation of an allosteric enzyme by domain insertion. 2004 , 336, 263-73 | | 117 |

| | | |
|------|---|--------|
| 1082 | Kinetic analysis of ATP-dependent inter-ring communication in GroEL. 2004 , 338, 979-88 | 19 |
| 1081 | A kinetic analysis of the nucleotide-induced allosteric transitions in a single-ring mutant of GroEL. 2004 , 338, 969-77 | 23 |
| 1080 | Dynamics of ATP-binding cassette contribute to allosteric control, nucleotide binding and energy transduction in ABC transporters. 2004 , 342, 525-37 | 64 |
| 1079 | Zinc ions trigger conformational change and oligomerization of hepatitis B virus capsid protein. <i>Biochemistry</i> , 2004 , 43, 9989-98 | 3.2 62 |
| 1078 | Human hereditary glutathione synthetase deficiency: kinetic properties of mutant enzymes. 2004 , 381, 489-94 | 8 |
| 1077 | Glucokinase: A Monomeric Enzyme with Positive Cooperativity. 2004 , 16, 125-134 | 17 |
| 1076 | Multiple Gleichgewichte. 2005 , 5-52 | |
| 1075 | Cooperativity in the motor activities of the ATP-fueled molecular motors. 2005 , 1752, 111-23 | 8 |
| 1074 | Autonomous free-energy transducer working under thermal fluctuations. 2005 , 205, 242-248 | 11 |
| 1073 | Sensitive bondforce measurements of ligand-receptor pairs with magnetic beads. 2005 , 20, 1685-9 | 26 |
| 1072 | Receptor-receptor interactions, receptor mosaics, and basic principles of molecular network organization: possible implications for drug development. 2005 , 26, 193-208 | 59 |
| 1071 | Differential activation of a latent polyphenol oxidase mediated by sodium dodecyl sulfate. 2005 , 53, 6825-30 | 34 |
| 1070 | G protein-coupled receptors: a count of 1001 conformations. 2005 , 19, 45-56 | 68 |
| 1069 | Sequential ATP-induced allosteric transitions of the cytoplasmic chaperonin containing TCP-1 revealed by EM analysis. 2005 , 12, 233-7 | 86 |
| 1068 | Allosteric modulation of ligand-gated ion channels. 2005 , 70, 1267-76 | 48 |
| 1067 | The N-terminal end of the catalytic domain of SRC kinase Hck is a conformational switch implicated in long-range allosteric regulation. 2005 , 13, 1715-23 | 43 |
| 1066 | Morpheesins--a new structural paradigm for allosteric regulation. 2005 , 30, 490-7 | 121 |
| 1065 | Allosteric regulation of chaperonins. 2005 , 15, 646-51 | 120 |

| | | |
|------|---|-----|
| 1064 | Cooperative and non-cooperative conformational effects of the coenzyme on yeast glyceraldehyde-3-phosphate dehydrogenase. 1969 , 10, 158-64 | 36 |
| 1063 | Generalized equations for the analysis of inhibitions of Michaelis-Menten and higher-order kinetic systems with two or more mutually exclusive and nonexclusive inhibitors. 1981 , 115, 207-16 | 319 |
| 1062 | The effect of ligands on the irreversible inhibition of the NAD ⁺ -dependent isocitrate dehydrogenase from ox brain. 1981 , 117, 65-8 | 2 |
| 1061 | Root effect hemoglobins. 2005 , 99, 120-9 | 56 |
| 1060 | COHbC and COHbS crystallize in the R2 quaternary state at neutral pH in the presence of PEG 4000. 2005 , 61, 566-73 | 8 |
| 1059 | Quantifying allosteric effects in proteins. 2005 , 59, 697-707 | 74 |
| 1058 | Complex Binding Phenomena. 2005 , 123-156 | |
| 1057 | The E. coli GroE Chaperone. 699-724 | |
| 1056 | Multiple Equilibria. 2005 , 5-50 | |
| 1055 | Ligand-dependent linkage of the ATP site to inhibition gate closure in the KATP channel. 2005 , 126, 285-99 | 9 |
| 1054 | Identification of Receptors Using Direct Radioligand Binding Techniques. 2005 , 65-121 | |
| 1053 | Cell Surface Receptors. 2005 , | |
| 1052 | Dynamic hysteresis in a one-dimensional Ising model: application to allosteric proteins. 2005 , 71, 061923 | 8 |
| 1051 | Characterization of a (Bio-)catalyst. 2005 , 19-42 | |
| 1050 | Role of conformational heterogeneity in domain swapping and adapter function of the Cks proteins. 2005 , 280, 30448-59 | 19 |
| 1049 | Metabolomics. 2005 , | 11 |
| 1048 | Noisy signal amplification in ultrasensitive signal transduction. 2005 , 102, 331-6 | 140 |
| 1047 | The logical repertoire of ligand-binding proteins. 2005 , 2, 159-65 | 11 |

| | | |
|------|---|-----|
| 1046 | Ligand-gated channels. 2005 , 4, 70-80 | 34 |
| 1045 | Magnetic particles as markers and carriers of biomolecules. 2005 , 152, 41-6 | 15 |
| 1044 | THE VISIT OF PROFESSOR CHEN-YUAN LEE TO THE PASTEUR INSTITUTE IN 1970 AND THE USE OF A SNAKE VENOM TOXIN TO IDENTIFY THE ACETYLCHOLINE RECEPTOR PROTEIN. 2005 , 24, 15-41 | 1 |
| 1043 | Cryoreduction EPR and ¹³ C, ¹⁹ F ENDOR study of substrate-bound substates and solvent kinetic isotope effects in the catalytic cycle of cytochrome P450cam and its T252A mutant. 2005 , 3464-9 | 26 |
| 1042 | The origin of cooperativity in double-wheel receptors. Freezing of internal rotation or ligand-induced torsional strain?. 2005 , 7, 803-5 | 25 |
| 1041 | Inclusion of bisphenols by a self-assembled monolayer of thiolated calix[6]arene on a gold surface. 2005 , 39, 5414-20 | 15 |
| 1040 | Influence of nucleotide effectors on the kinetics of the quaternary structure transition of allosteric aspartate transcarbamylase. 2005 , 348, 195-204 | 11 |
| 1039 | Mechanochemistry of τ 7 DNA helicase. 2005 , 350, 452-75 | 79 |
| 1038 | A novel induced-fit reaction mechanism of asymmetric hot dog thioesterase PAAI. 2005 , 352, 212-28 | 50 |
| 1037 | Activation of the transcription factor NFAT1: concerted or modular regulation?. 2005 , 579, 621-6 | 9 |
| 1036 | A salt-bridge motif involved in ligand binding and large-scale domain motions of the maltose-binding protein. 2005 , 89, 3362-71 | 61 |
| 1035 | Examination of MgATP binding in a tryptophan-shift mutant of phosphofructokinase from <i>Bacillus stearothermophilus</i> . 2005 , 436, 178-86 | 4 |
| 1034 | Metabolism. 2005 , 135-199 | |
| 1033 | Allosteric mechanisms of signal transduction. 2005 , 308, 1424-8 | 585 |
| 1032 | Introduction to Computational Models of Biochemical Reaction Networks. 2006 , 127-148 | 2 |
| 1031 | Practical aspects of radioligand binding. 2006 , Chapter 1, Unit1.3 | 21 |
| 1030 | Ago-allosteric modulation and other types of allostery in dimeric 7TM receptors. 2006 , 26, 107-28 | 70 |
| 1029 | Reconciling the "old" and "new" views of protein allostery: a molecular simulation study of chemotaxis Y protein (CheY). 2006 , 63, 846-67 | 92 |

| | | | |
|------|---|-----|-----|
| 1028 | Molecular mechanism of 7TM receptor activation--a global toggle switch model. 2006 , 46, 481-519 | | 343 |
| 1027 | Receptors as drug targets. 2006 , Chapter 1, Unit 1.1 | | 2 |
| 1026 | Local and global ligand-induced changes in the structure of the GABA(A) receptor. <i>Biochemistry</i> , 2006 , 45, 7013-22 | 3.2 | 42 |
| 1025 | Interactions in native binding sites cause a large change in protein dynamics. 2006 , 358, 213-23 | | 44 |
| 1024 | Computational studies of tryptophanyl-tRNA synthetase: activation of ATP by induced-fit. 2006 , 362, 1159-80 | | 46 |
| 1023 | The Hsp60 chaperonins from prokaryotes and eukaryotes. 251-283 | | |
| 1022 | Biomacromolecular Interaction. 2006 , 289-321 | | |
| 1021 | References. 486-503 | | |
| 1020 | Hemoglobin. 2006 , | | |
| 1019 | Biomacromolecular Catalysis. 2006 , 322-397 | | |
| 1018 | Iron: Heme Proteins & Dioxygen Transport & Storage Based in part on the article Iron: Heme Proteins & Dioxygen Transport by Harold M. Goff which appeared in the Encyclopedia of Inorganic Chemistry, First Edition.. 2006 , | | |
| 1017 | The Structural and Functional Properties of Hemoglobin and their Relevance for a Hemoglobin-Based Blood Substitute. 2006 , 327-340 | | 1 |
| 1016 | Concanavalin-A reports agonist-induced conformational changes in the intact GluR6 kainate receptor. 2006 , 572, 201-13 | | 23 |
| 1015 | Theoretical model of interactions between ligand-binding sites in a dimeric protein and its application for the analysis of thiamine diphosphate binding to yeast transketolase. 2006 , 124, 106-14 | | 2 |
| 1014 | Structural changes accompanying human serum albumin's binding of fatty acids are concerted. 2006 , 1764, 285-91 | | 18 |
| 1013 | Allosteric communication between alpha and beta subunits of tryptophan synthase: modelling the open-closed transition of the alpha subunit. 2006 , 1764, 1102-9 | | 19 |
| 1012 | Thresholds, long delays and stability from generalized allosteric effect in protein networks. 2006 , 371, 463-472 | | 6 |
| 1011 | Homohelicity induction of propylene-linked zinc bilinone dimers by complexation with chiral amine and amino esters. Preorganization of structurally coupled homohelical subunits. 2006 , 62, 3619-3628 | | 8 |

| | | |
|------|--|-----|
| 1010 | Breaking symmetry in protein dimers: designs and functions. 2006 , 15, 1-13 | 75 |
| 1009 | Glu257 in GroEL is a sensor involved in coupling polypeptide substrate binding to stimulation of ATP hydrolysis. 2006 , 15, 1270-6 | 17 |
| 1008 | Approaches to biosimulation of cellular processes. 2006 , 32, 273-88 | 14 |
| 1007 | Proton thrusters: overview of the structural and functional features of soluble tetrahaem cytochromes c3. 2007 , 12, 1-10 | 29 |
| 1006 | Simulation of conformational transitions. 2006 , 116, 183-193 | 26 |
| 1005 | The evolution of catalytic function. 2006 , 3, 56-64 | 8 |
| 1004 | Allosteric proteins: From regulatory enzymes to receptors. 2006 , 17, 11-29 | 1 |
| 1003 | Hemoglobin is an honorary enzyme. 2006 , 17, 51-58 | |
| 1002 | Allosteric receptors after 30 years. 2006 , 17, 59-96 | 1 |
| 1001 | Allostery in chaperonins. 2006 , 17, 115-131 | 1 |
| 1000 | Is cooperative oxygen binding by hemoglobin really understood?. 2006 , 17, 147-162 | 4 |
| 999 | Crucial role of ligation analogues in the understanding of hemoglobin cooperativity. 2006 , 17, 163-181 | |
| 998 | Cooperativity in Scapharca dimeric hemoglobin: Simulation of binding intermediates and elucidation of the role of interfacial water. 2006 , 17, 191-211 | |
| 997 | Conformational spread: The propagation of allosteric states in large multiprotein complexes. 2006 , 17, 221-241 | |
| 996 | An entropic mechanism to generate highly cooperative and specific binding from protein phosphorylations. 2006 , 16, 2150-5 | 33 |
| 995 | Demonstration of long-range interactions in a PDZ domain by NMR, kinetics, and protein engineering. 2006 , 14, 1801-9 | 93 |
| 994 | Rational drug design via intrinsically disordered protein. 2006 , 24, 435-42 | 199 |
| 993 | Kinetic analysis and modelling of the allosteric behaviour of liver and muscle glycogen phosphorylases. 2006 , 19, 451-7 | 5 |

| | | |
|-----|---|-----|
| 992 | New aspects of glycogen metabolism. 1971 , 34, 285-443 | 25 |
| 991 | Threonine deaminases. 1973 , 37, 349-95 | 20 |
| 990 | Conformational adaptability in enzymes. 1973 , 37, 397-648 | 31 |
| 989 | Anthranilate synthetase. 1973 , 38, 1-39 | 24 |
| 988 | Pyruvate carboxylase: an evaluation of the relationships between structure and mechanism and between structure and catalytic activity. 1975 , 42, 1-72 | 16 |
| 987 | Acetylcholinesterase. 1975 , 43, 103-218 | 132 |
| 986 | Phosphofructokinase. 1979 , 48, 193-244 | 106 |
| 985 | Phytoalexins: enzymology and molecular biology. 1983 , 55, 1-136 | 137 |
| 984 | Aspartate transcarbamylase from Escherichia coli: activity and regulation. 1994 , 68, 67-151 | 58 |
| 983 | CHAPTER 1 Molecular stereospecific recognition and reduction in cell biology. 2006 , 40, 1-26 | |
| 982 | CHAPTER 9 Conformation changes and information flow in protein edifices. 2006 , 185-225 | |
| 981 | Intersubunit signaling in glutamate-1-semialdehyde-aminomutase. 2006 , 103, 13688-93 | 30 |
| 980 | Whence cometh the allosterome?. 2006 , 103, 10533-5 | 82 |
| 979 | Apo- and holo-structures of 3alpha-hydroxysteroid dehydrogenase from Pseudomonas sp. B-0831. Loop-helix transition induced by coenzyme binding. 2006 , 281, 31876-84 | 16 |
| 978 | A malleable catalyst dominates the metabolism of drugs. 2006 , 103, 13565-6 | 53 |
| 977 | Statistical Mechanics of Organization, Information, and Emergence in Protein Networks. 2006 , 31, | 1 |
| 976 | Markov propagation of allosteric effects in biomolecular systems: application to GroEL-GroES. 2006 , 2, 36 | 125 |
| 975 | Hidden stochastic nature of a single bacterial motor. 2006 , 96, 058105 | 58 |

| | | |
|-----|--|-----|
| 974 | Asymmetric cooperativity in a symmetric tetramer: human hemoglobin. 2006 , 281, 11441-3 | 41 |
| 973 | Molecular basis of partial agonism at the neurotransmitter alpha2A-adrenergic receptor and Gi-protein heterotrimer. 2006 , 281, 24506-11 | 81 |
| 972 | Receptor Targets in Drug Discovery. 2006 , | |
| 971 | Investigation of cooperativity in the binding of ligands to the D(2) dopamine receptor. 2006 , 69, 226-35 | 39 |
| 970 | Allosteric coupling of two different functional active sites in monomeric Plasmodium falciparum glyoxalase I. 2007 , 282, 28419-28430 | 40 |
| 969 | Pharmacology of the GABAA Receptor. 2007 , | 4 |
| 968 | Chaperonin GroEL: structure and reaction cycle. 2007 , 8, 418-25 | 22 |
| 967 | Role of cooperativity in protein folding and protein mosaic assemblage relevance for protein conformational diseases. 2007 , 8, 460-70 | 12 |
| 966 | Mechanochemical coupling in the myosin motor domain. II. Analysis of critical residues. 2007 , 3, e23 | 60 |
| 965 | Resolving the fast kinetics of cooperative binding: Ca ²⁺ buffering by calretinin. 2007 , 5, e311 | 72 |
| 964 | Functional dynamics of response regulators using NMR relaxation techniques. 2007 , 423, 149-65 | 37 |
| 963 | Mathematical models and the design of biochemical reactors. 2007 , 32, 59-72 | 31 |
| 962 | Nonequilibrium dynamic mechanism for allosteric effect. 2007 , 99, 168103 | 19 |
| 961 | Theory of conformational transitions of viral shells. 2007 , 76, 061911 | 30 |
| 960 | Differential effects of serotonin and dopamine on human 5-HT3A receptor kinetics: interpretation within an allosteric kinetic model. 2007 , 27, 13151-60 | 42 |
| 959 | Concerted ATP-induced allosteric transitions in GroEL facilitate release of protein substrate domains in an all-or-none manner. 2007 , 104, 3119-24 | 20 |
| 958 | Large-scale allosteric conformational transitions of adenylate kinase appear to involve a population-shift mechanism. 2007 , 104, 18496-501 | 216 |
| 957 | Structural analysis of the bacterial HPr kinase/phosphorylase V267F mutant gives insights into the allosteric regulation mechanism of this bifunctional enzyme. 2007 , 282, 34952-7 | 8 |

| | | | |
|-----|---|-----|-----|
| 956 | Statistical Thermodynamics of Proteins and Protein Denaturation. 2007 , 363-413 | | 7 |
| 955 | Binding Sites. 2007 , 19-64 | | |
| 954 | Allosteric enhancers, allosteric agonists and ago-allosteric modulators: where do they bind and how do they act?. 2007 , 28, 366-73 | | 141 |
| 953 | Allosteric activation of DegS, a stress sensor PDZ protease. 2007 , 131, 572-83 | | 101 |
| 952 | Propagation of dynamic changes in barnase upon binding of barstar: an NMR and computational study. 2007 , 367, 1079-92 | | 48 |
| 951 | A switch in the mechanism of communication between the two DNA-binding sites in the Sfil restriction endonuclease. 2007 , 373, 1169-83 | | 17 |
| 950 | Predicting allosteric communication in myosin via a pathway of conserved residues. 2007 , 373, 1361-73 | | 51 |
| 949 | An allosteric rheostat in HIV-1 gp120 reduces CCR5 stoichiometry required for membrane fusion and overcomes diverse entry limitations. 2007 , 374, 64-79 | | 21 |
| 948 | Biological Membrane Ion Channels. 2007 , | | 36 |
| 947 | Phosphorylation energy hypothesis: open chemical systems and their biological functions. 2007 , 58, 113-42 | | 190 |
| 946 | Ternary complex formation and induced asymmetry in orotate phosphoribosyltransferase. <i>Biochemistry</i> , 2007 , 46, 14075-86 | 3.2 | 39 |
| 945 | Activation mechanism of a signaling protein at atomic resolution from advanced computations. 2007 , 129, 10261-8 | | 44 |
| 944 | Enzyme kinetics of muscle glycogen phosphorylase b. <i>Biochemistry</i> , 2007 , 46, 11957-68 | 3.2 | 10 |
| 943 | Intrinsic disorder as a mechanism to optimize allosteric coupling in proteins. 2007 , 104, 8311-5 | | 326 |
| 942 | Protein free energy landscapes remodeled by ligand binding. 2007 , 93, 579-85 | | 14 |
| 941 | Glutamate receptors as seen by light: spectroscopic studies of structure-function relationships. 2007 , 40, 1419-27 | | 5 |
| 940 | Control of the Catalytic Activity of Enzymes by the Near and Remote Environment of a Polyatomic Framework. 2007 , 177-227 | | |
| 939 | Hemoglobin. 2007 , | | |

| | | |
|-----|---|-----|
| 938 | Temporal, Spatial, and Functional Order in Regulated Biochemical and Cellular Systems. 2007 , 363-413 | 10 |
| 937 | Electronic reorganization: origin of sigma trans promotion effect. 2007 , 28, 423-41 | 10 |
| 936 | Overcoming the inadequacies or limitations of experimental structures as drug targets by using computational modeling tools and molecular dynamics simulations. 2007 , 2, 1388-401 | 32 |
| 935 | Cooperative equilibrium curves generated by ordered ligand binding to multi-site molecules. 2007 , 129, 284-8 | 9 |
| 934 | Modelling dynamic processes in yeast. 2007 , 24, 943-59 | 21 |
| 933 | Local motions in a benchmark of allosteric proteins. 2007 , 67, 385-99 | 90 |
| 932 | F1-ATPase rotates by an asymmetric, sequential mechanism using all three catalytic subunits. 2007 , 14, 841-6 | 89 |
| 931 | Oxygen binding and its allosteric control in hemoglobin of the primitive branchiopod crustacean <i>Triops cancriformis</i> . 2007 , 274, 3374-91 | 5 |
| 930 | Intrinsic dynamics of enzymes in the unbound state and relation to allosteric regulation. 2007 , 17, 633-40 | 253 |
| 929 | Photoaffinity Labeling of the N-methyltransferase Domains of Cyclosporin Synthetase η . 2007 , 77, 129-137 | 1 |
| 928 | Evolution of allosteric models for hemoglobin. 2007 , 59, 586-99 | 93 |
| 927 | The lactose repressor system: paradigms for regulation, allosteric behavior and protein folding. 2007 , 64, 3-16 | 136 |
| 926 | On allosteric control model of bone turnover cycle containing osteocyte regulation loop. 2007 , 90, 295-308 | 9 |
| 925 | Allosteric control model of bone remodelling containing periodical modes. 2007 , 127, 194-212 | 8 |
| 924 | Minimal models of multi-site ligand-binding kinetics. 2008 , 255, 396-403 | 9 |
| 923 | Partial agonism at the human alpha(2A)-autoreceptor: role of binding duration. 2008 , 378, 17-26 | 9 |
| 922 | Role of ionization of the phosphate cosubstrate on phosphorolysis by purine nucleoside phosphorylase (PNP) of bacterial (<i>E. coli</i>) and mammalian (human) origin. 2008 , 37, 153-64 | 10 |
| 921 | An alternative theoretical formula for hemoglobin oxygenation. 2008 , 37, 823-7 | 4 |

| | | |
|-----|---|-----|
| 920 | Fast dynamics perturbation analysis for prediction of protein functional sites. 2008 , 8, 5 | 25 |
| 919 | Ligand binding to proteins: the binding landscape model. 1997 , 6, 2166-79 | 126 |
| 918 | Contact rearrangements form coupled networks from local motions in allosteric proteins. 2008 , 71, 455-66 | 75 |
| 917 | Allosteric regulation of proteases. 2008 , 9, 2920-8 | 62 |
| 916 | Cooperativity and allostery in haemoglobin function. 2008 , 60, 112-23 | 16 |
| 915 | Confocal Raman microscopy on single living young and old erythrocytes. 2008 , 89, 951-9 | 22 |
| 914 | Expanding the Concepts in Protein Structure-Function Relationships and Enzyme Kinetics: Teaching using Morpheesins. 2008 , 36, 274-283 | 26 |
| 913 | Ligand reactivity and allosteric regulation of hemoglobin-based oxygen carriers. 2008 , 1784, 1365-77 | 20 |
| 912 | Protein dynamics explain the allosteric behaviors of hemoglobin. 2008 , 1784, 1146-58 | 69 |
| 911 | The concerted nature between three catalytic subunits driving the F1 rotary motor. 2008 , 93, 68-77 | 3 |
| 910 | Shape shifting leads to small-molecule allosteric drug discovery. 2008 , 15, 586-96 | 55 |
| 909 | Thermal fluctuations biased for directional motion in molecular motors. 2008 , 93, 34-8 | 8 |
| 908 | From discrete protein kinetics to continuous Brownian dynamics: a new perspective. 2002 , 11, 1-5 | 12 |
| 907 | High and low oxygen affinity conformations of T state hemoglobin. 2001 , 10, 2401-7 | 69 |
| 906 | Oxygen binding by $\alpha(\text{Fe}^{2+})_2\beta(\text{Ni}^{2+})_2$ hemoglobin crystals. 2000 , 9, 683-92 | 12 |
| 905 | Allosteric regulation and catalysis emerge via a common route. 2008 , 4, 474-82 | 532 |
| 904 | A coupled equilibrium shift mechanism in calmodulin-mediated signal transduction. 2008 , 16, 736-46 | 105 |
| 903 | Untangling the glutamate dehydrogenase allosteric nightmare. 2008 , 33, 557-64 | 81 |

| | | | |
|-----|---|-----|-----|
| 902 | The cardiac Ca ²⁺ -sensitive regulatory switch, a system in dynamic equilibrium. 2008 , 95, 4772-89 | | 15 |
| 901 | Allostery and cooperativity revisited. 2008 , 17, 1295-307 | | 511 |
| 900 | Coupling between global dynamics and signal transduction pathways: a mechanism of allostery for chaperonin GroEL. 2008 , 4, 287-92 | | 87 |
| 899 | Allosteric Regulatory Enzymes. 2008 , | | 68 |
| 898 | Applied Bioinformatics. 2008 , | | 5 |
| 897 | Allostery: absence of a change in shape does not imply that allostery is not at play. 2008 , 378, 1-11 | | 369 |
| 896 | Allosteric signaling in the biotin repressor occurs via local folding coupled to global dampening of protein dynamics. 2008 , 381, 89-101 | | 21 |
| 895 | Nicotinic receptors, allosteric proteins and medicine. 2008 , 14, 93-102 | | 92 |
| 894 | Mycobacterium tuberculosis beta-ketoacyl-ACP reductase: alpha-secondary kinetic isotope effects and kinetic and equilibrium mechanisms of substrate binding. 2008 , 471, 1-10 | | 13 |
| 893 | Switch-like control of SREBP-2 transport triggered by small changes in ER cholesterol: a delicate balance. 2008 , 8, 512-21 | | 359 |
| 892 | Chemical interplay in the mechanism of partial agonist activation in alpha-amino-3-hydroxy-5-methyl-4-isoxazolepropionic acid receptors. <i>Biochemistry</i> , 2008 , 47, 398-404 | 3.2 | 12 |
| 891 | Self-assembly by mutual association: basic thermodynamic properties. 2008 , 112, 16193-204 | | 34 |
| 890 | EP-2104R: a fibrin-specific gadolinium-Based MRI contrast agent for detection of thrombus. 2008 , 130, 6025-39 | | 184 |
| 889 | Variations in clique and community patterns in protein structures during allosteric communication: investigation of dynamically equilibrated structures of methionyl tRNA synthetase complexes. <i>Biochemistry</i> , 2008 , 47, 11398-407 | 3.2 | 67 |
| 888 | Probing the oligomeric assemblies of pea porphobilinogen synthase by analytical ultracentrifugation. <i>Biochemistry</i> , 2008 , 47, 10649-56 | 3.2 | 20 |
| 887 | Binding synergy and cooperativity in dihydrodipicolinate reductase: implications for mechanism and the design of biligand inhibitors. <i>Biochemistry</i> , 2008 , 47, 9966-80 | 3.2 | 6 |
| 886 | New insights into the alternative D-glucarate degradation pathway. 2008 , 283, 15638-46 | | 28 |
| 885 | The unusual state-dependent affinity of P2X3 receptors can be explained by an allosteric two-open-state model. 2008 , 73, 224-34 | | 17 |

| | | |
|-----|--|-----|
| 884 | Kinetic model of phosphofructokinase-1 from Escherichia coli. 2008 , 6, 843-67 | 9 |
| 883 | A lifetime of kinetics. 2008 , 283, 19873-8 | 4 |
| 882 | Reassessing a sparse energetic network within a single protein domain. 2008 , 105, 4679-84 | 79 |
| 881 | Direct analysis of cooperativity in multisubunit allosteric proteins. 2008 , 105, 11697-702 | 41 |
| 880 | Silicon uptake in diatoms revisited: a model for saturable and nonsaturable uptake kinetics and the role of silicon transporters. 2008 , 146, 1397-407 | 133 |
| 879 | Two-state models and the analysis of the allosteric effect of gallamine at the M2 muscarinic receptor. 2008 , 325, 1039-60 | 23 |
| 878 | Bioluminescence resonance energy transfer assays reveal ligand-specific conformational changes within preformed signaling complexes containing delta-opioid receptors and heterotrimeric G proteins. 2008 , 283, 15078-88 | 91 |
| 877 | Cooperativity, sensitivity, and noise in biochemical signaling. 2008 , 100, 258101 | 65 |
| 876 | Functional Motions in Biomolecules: Insights from Computational Studies at Multiple Scales. 2008 , 253-297 | 3 |
| 875 | Computational Models of Metabolism: Stability and Regulation in Metabolic Networks. 2008 , 105-251 | 21 |
| 874 | Effect of Cetyltrimethylammonium Bromide on the Oxidation of α -Alanine by N-Bromophthalimide in Acidic Medium. 2008 , 45, 213-221 | 11 |
| 873 | Nicotinic receptors containing the alpha7 subunit: a model for rational drug design. 2008 , 15, 2921-32 | 33 |
| 872 | Sensitivity amplification in the phosphorylation-dephosphorylation cycle: nonequilibrium steady states, chemical master equation, and temporal cooperativity. 2008 , 129, 015104 | 13 |
| 871 | Binding equilibria. 250-280 | |
| 870 | Bibliography. 296-306 | |
| 869 | . 2009 , | |
| 868 | Allosteric role of the large-scale domain opening in biological catch-binding. 2009 , 79, 051913 | 19 |
| 867 | Trapping moving targets with small molecules. 2009 , 324, 213-5 | 133 |

| | | |
|-----|---|-----|
| 866 | Coarse-grained modeling of allosteric regulation in protein receptors. 2009 , 106, 14253-8 | 42 |
| 865 | Conformational ensemble modulates cooperativity in the rate-determining catalytic step in the E1 component of the Escherichia coli pyruvate dehydrogenase multienzyme complex. 2009 , 284, 33122-9 | 13 |
| 864 | Examining cooperative gating phenomena in voltage-dependent potassium channels: taking the energetic approach. 2009 , 466, 179-209 | 11 |
| 863 | Intra and inter-molecular communications through protein structure network. 2009 , 10, 146-60 | 131 |
| 862 | GPCR and G proteins: drug efficacy and activation in live cells. 2009 , 23, 590-9 | 64 |
| 861 | The Hill coefficient: inadequate resolution of cooperativity in human hemoglobin. 2009 , 455, 193-212 | 20 |
| 860 | Structure-based predictive models for allosteric hot spots. 2009 , 5, e1000531 | 49 |
| 859 | Allosteric communication occurs via networks of tertiary and quaternary motions in proteins. 2009 , 5, e1000293 | 80 |
| 858 | Computation of conformational coupling in allosteric proteins. 2009 , 5, e1000484 | 46 |
| 857 | Towards the engineering of in vitro systems. 2009 , 6 Suppl 4, S507-21 | 37 |
| 856 | Folding and stability of globular proteins and implications for function. 2009 , 19, 3-7 | 16 |
| 855 | The origin of allosteric functional modulation: multiple pre-existing pathways. 2009 , 17, 1042-50 | 309 |
| 854 | Structure and signaling mechanism of Per-ARNT-Sim domains. 2009 , 17, 1282-94 | 364 |
| 853 | Allosteric models for the interaction of 2,3-diphosphoglyceric acid with hemoglobin. 1973 , 5, 27-31 | 3 |
| 852 | The structural basis of allosteric regulation in proteins. 2009 , 583, 1692-8 | 148 |
| 851 | Engineering allosteric regulation into biological catalysts. 2009 , 10, 2824-35 | 31 |
| 850 | Linear response theory in dihedral angle space for protein structural change upon ligand binding. 2009 , 30, 2602-8 | 18 |
| 849 | Millisecond dynamics in the allosteric enzyme imidazole glycerol phosphate synthase (IGPS) from Thermotoga maritima. 2009 , 45, 73-84 | 24 |

| | | | |
|-----|---|-----|-----|
| 848 | Theoretical analysis of the relationship between positive/negative cooperativity and enzyme activation/inhibition. 2009 , 1, 204-13 | | 2 |
| 847 | Functional aspects of protein flexibility. 2009 , 66, 2231-47 | | 161 |
| 846 | Cooperative binding of transition states in enzymatic catalysis. 2009 , 36, 301-309 | | |
| 845 | Opposite allosteric mechanisms in TetR and CAP. 2009 , 18, 775-81 | | 3 |
| 844 | Structure of relaxed-state human hemoglobin: insight into ligand uptake, transport and release. 2009 , 65, 41-8 | | 27 |
| 843 | Conformational changes in alpha 7 acetylcholine receptors underlying allosteric modulation by divalent cations. 2009 , 9, 1 | | 9 |
| 842 | Non-competitive interaction between raclopride and spiperone on human D-receptors in intact Chinese hamster ovary cells. 2010 , 24, 283-91 | | 3 |
| 841 | Hemoglobin, an "evergreen" red protein. 2009 , 1794, 1317-24 | | 14 |
| 840 | Fluorescence measurements of nucleotide association with the Na(+)/K(+)-ATPase. 2009 , 1794, 1549-57 | | 7 |
| 839 | Hydrogen exchange and ligand binding: ligand-dependent and ligand-independent protection in the Src SH3 domain. 2005 , 14, 81-8 | | 31 |
| 838 | Ligand structure controlled allostery in cAMP-dependent protein kinase catalytic subunit. 2009 , 4, 131-141 | | 2 |
| 837 | Apo and nickel-bound forms of the <i>Pyrococcus horikoshii</i> species of the metalloregulatory protein: NikR characterized by molecular dynamics simulations. <i>Biochemistry</i> , 2009 , 48, 12024-33 | 3.2 | 13 |
| 836 | Dynamic disorder-driven substrate inhibition and bistability in a simple enzymatic reaction. 2009 , 113, 13421-8 | | 9 |
| 835 | Energetics of allosteric negative coupling in the zinc sensor <i>S. aureus</i> CzrA. 2009 , 131, 17860-70 | | 30 |
| 834 | A sequential binding mechanism in a PDZ domain. <i>Biochemistry</i> , 2009 , 48, 7089-97 | 3.2 | 41 |
| 833 | Guanidine hydrochloride-induced unfolding of the three heme coordination states of the CO-sensing transcription factor, <i>CooA</i> . <i>Biochemistry</i> , 2009 , 48, 6585-97 | 3.2 | 9 |
| 832 | Biological regulation via ankyrin repeat folding. 2009 , 4, 19-22 | | 9 |
| 831 | Allosteric inhibition of human porphobilinogen synthase. 2009 , 284, 35807-17 | | 27 |

| | | |
|-----|--|-----|
| 830 | Kinetic and X-ray structural evidence for negative cooperativity in substrate binding to nicotinate mononucleotide adenyltransferase (NMAT) from <i>Bacillus anthracis</i> . 2009 , 385, 867-88 | 13 |
| 829 | OMP peptides modulate the activity of DegS protease by differential binding to active and inactive conformations. 2009 , 33, 64-74 | 41 |
| 828 | Rejuvenation of CcdB-poisoned gyrase by an intrinsically disordered protein domain. 2009 , 35, 154-63 | 118 |
| 827 | Computational biochemistry: systems biology minireview series. 2009 , 284, 5425-6 | 6 |
| 826 | Protein allostery, signal transmission and dynamics: a classification scheme of allosteric mechanisms. 2009 , 5, 207-16 | 278 |
| 825 | Handbook of Single-Molecule Biophysics. 2009 , | 49 |
| 824 | Introduction. 2009 , 3-17 | |
| 823 | Mechanism of partial agonism in AMPA-type glutamate receptors. 2017 , 8, 14327 | 14 |
| 822 | Escapement mechanisms and the conversion of disequilibria; the engines of creation. 2017 , 677, 1-60 | 50 |
| 821 | Evolutionary fine-tuning of conformational ensembles in FimH during host-pathogen interactions. 2017 , 3, e1601944 | 32 |
| 820 | An integrated perspective on RNA aptamer ligand-recognition models: clearing muddy waters. 2017 , 19, 6921-6932 | 8 |
| 819 | Altering the allosteric pathway in IGPS suppresses millisecond motions and catalytic activity. 2017 , 114, E3414-E3423 | 40 |
| 818 | Mechanistic Models Fit to Variable Temperature Calorimetric Data Provide Insights into Cooperativity. 2017 , 112, 1328-1338 | 4 |
| 817 | Molecular Dynamics-Markov State Model of Protein Ligand Binding and Allostery in CRIB-PDZ: Conformational Selection and Induced Fit. 2017 , 121, 5509-5514 | 26 |
| 816 | Dynamical persistence of active sites identified in maltose-binding protein. 2017 , 23, 167 | 1 |
| 815 | Rigidity theory for biomolecules: concepts, software, and applications. 2017 , 7, e1311 | 21 |
| 814 | Dynamical differences of hemoglobin and the ionotropic glutamate receptor in different states revealed by a new dynamics alignment method. 2017 , 85, 1507-1517 | 5 |
| 813 | Allosteric effects of gold nanoparticles on human serum albumin. 2017 , 9, 380-390 | 40 |

| | | |
|-----|---|-----|
| 812 | Signalling assemblies: the odds of symmetry. 2017 , 45, 599-611 | 6 |
| 811 | Protein Reviews. 2017 , | |
| 810 | Allosteric regulation of proteins. 2017 , 22, 37-50 | 5 |
| 809 | A self-consistent structural perturbation approach for determining the magnitude and extent of allosteric coupling in proteins. 2017 , 474, 2379-2388 | 14 |
| 808 | Hidden electrostatic basis of dynamic allostery in a PDZ domain. 2017 , 114, E5825-E5834 | 58 |
| 807 | A DNA Nanodevice That Loads and Releases a Cargo with Hemoglobin-Like Allosteric Control and Cooperativity. 2017 , 17, 3225-3230 | 15 |
| 806 | Assessing cooperativity in supramolecular systems. 2017 , 46, 2622-2637 | 150 |
| 805 | Enzymatic Catalysis. 2017 , 269-298 | 1 |
| 804 | Diversity of Secondary Structure in Catalytic Peptides with Turn-Biased Sequences. 2017 , 139, 492-516 | 81 |
| 803 | Complementary oligonucleotides regulate induced fit ligand binding in duplexed aptamers. 2017 , 8, 2251-2256 | 20 |
| 802 | The Allostery Model of TCR Regulation. 2017 , 198, 47-52 | 30 |
| 801 | A General Mechanism for the Propagation of Mutational Effects in Proteins. <i>Biochemistry</i> , 2017 , 56, 294-305 | 40 |
| 800 | Proteins with Multiple Binding Sites. 2017 , 75-115 | |
| 799 | Musings on mechanism: quest for a quark theory of proteins?. 2017 , 31, 4207-4215 | 3 |
| 798 | Back to the future: Rational maps for exploring acetylcholine receptor space and time. 2017 , 1865, 1522-1528 | 5 |
| 797 | Identification of potential allosteric communication pathways between functional sites of the bacterial ribosome by graph and elastic network models. 2017 , 1861, 3131-3141 | 17 |
| 796 | A Universal Pattern in the Percolation and Dissipation of Protein Structural Perturbations. 2017 , 8, 4779-4784 | 31 |
| 795 | Tertiary and quaternary structural basis of oxygen affinity in human hemoglobin as revealed by multiscale simulations. 2017 , 7, 10926 | 13 |

| | | |
|-----|---|--------|
| 794 | Allosteric modulation as a unifying mechanism for receptor function and regulation. 2017 , 19 Suppl 1, 4-21 | 31 |
| 793 | Formulation, construction and analysis of kinetic models of metabolism: A review of modelling frameworks. 2017 , 35, 981-1003 | 78 |
| 792 | Direct observation of conformational population shifts in crystalline human hemoglobin. 2017 , 292, 18258-18289 | |
| 791 | Allostery in enzyme catalysis. 2017 , 47, 123-130 | 37 |
| 790 | Epigenetic control via allosteric regulation of mammalian protein arginine methyltransferases. 2017 , 114, 10101-10106 | 36 |
| 789 | Phthalide Derivatives from <i>Angelica Sinensis</i> Decrease Hemoglobin Oxygen Affinity: A New Allosteric-Modulating Mechanism and Potential Use as 2,3-BPG Functional Substitutes. 2017 , 7, 5504 | 5 |
| 788 | Hill equation and Hatze's muscle activation dynamics complement each other: enhanced pharmacological and physiological interpretability of modelled activity-pCa curves. 2017 , 431, 11-24 | 10 |
| 787 | Calcium-Mediated Control of S100 Proteins: Allosteric Communication via an Agitator/Signal Blocking Mechanism. 2017 , 139, 11460-11470 | 10 |
| 786 | Symmetry breaking during homodimeric assembly activates an E3 ubiquitin ligase. 2017 , 7, 1789 | 12 |
| 785 | Transmembrane allosteric energetics characterization for strong coupling between proton and potassium ion binding in the KcsA channel. 2017 , 114, 8788-8793 | 29 |
| 784 | Design of Elastic Networks with Evolutionary Optimized Long-Range Communication as Mechanical Models of Allosteric Proteins. 2017 , 113, 558-571 | 30 |
| 783 | A simple simulator to teach enzyme kinetics dynamics. Application in a problem-solving exercise. 2017 , 2, 14-27 | 2 |
| 782 | Ensemble- and Rigidity Theory-Based Perturbation Approach To Analyze Dynamic Allostery. 2017 , 13, 6343-6357 | 20 |
| 781 | Dynamic Modulation of Binding Affinity as a Mechanism for Regulating Interferon Signaling. 2017 , 429, 2571-2589 | 10 |
| 780 | Kinetic processivity of the two-step oxidations of progesterone and pregnenolone to androgens by human cytochrome P450 17A1. 2017 , 292, 13168-13185 | 29 |
| 779 | Cooperativity and Allosteric Enzymes. 2017 , 27-53 | |
| 778 | Analyzing the Folding and Binding Steps of an Intrinsically Disordered Protein by Protein Engineering. <i>Biochemistry</i> , 2017 , 56, 3780-3786 | 3.2 22 |
| 777 | High performance enzyme kinetics of turnover, activation and inhibition for translational drug discovery. 2017 , 12, 17-37 | 6 |

| | | |
|-----|---|----|
| 776 | Fine Sampling of the R->T Quaternary-Structure Transition of a Tetrameric Hemoglobin. 2017 , 23, 605-613 | 6 |
| 775 | Uncoupling of an ammonia channel as a mechanism of allosteric inhibition in anthranilate synthase of <i>Serratia marcescens</i> : dynamic and graph theoretical analysis. 2016 , 13, 142-155 | 10 |
| 774 | Interactive Enzyme and Molecular Regulation. 2017 , 535-628 | 1 |
| 773 | Survey of solution dynamics in Src kinase reveals allosteric cross talk between the ligand binding and regulatory sites. 2017 , 8, 2160 | 29 |
| 772 | Design and Synthesis of Cannabinoid 1 Receptor (CB1R) Allosteric Modulators: Drug Discovery Applications. 2017 , 593, 281-315 | 10 |
| 771 | The Ribosome as an Allosterically Regulated Molecular Machine. 2017 , 82, 1557-1571 | 3 |
| 770 | Genetically tunable frustration controls allostery in an intrinsically disordered transcription factor. 2017 , 6, | 57 |
| 769 | Using the MWC model to describe heterotropic interactions in hemoglobin. 2017 , 12, e0182871 | 7 |
| 768 | Dependence of prevalence of contiguous pathways in proteins on structural complexity. 2017 , 12, e0188616 | 3 |
| 767 | Entropy Transfer between Residue Pairs and Allostery in Proteins: Quantifying Allosteric Communication in Ubiquitin. 2017 , 13, e1005319 | 26 |
| 766 | New Aspects of the Structure of d-Amino Acid Oxidase from Porcine Kidney in Solution: Molecular Dynamics Simulation and Photoinduced Electron Transfer. 2017 , | |
| 765 | Allosteric Modulators. 2017 , 276-296 | 4 |
| 764 | . 2017 , | 29 |
| 763 | CAMERA: An analysis tool for the computation of conformational dynamics by evaluating residue-residue associations. 2018 , 39, 1568-1578 | 11 |
| 762 | An overview of recent molecular dynamics applications as medicinal chemistry tools for the undruggable site challenge. 2018 , 9, 920-936 | 21 |
| 761 | Self-organization, entropy and allostery. 2018 , 46, 587-597 | 12 |
| 760 | Recognition of protein allosteric states and residues: Machine learning approaches. 2018 , 39, 1481-1490 | 16 |
| 759 | Expanding the Paradigm: Intrinsically Disordered Proteins and Allosteric Regulation. 2018 , 430, 2309-2320 | 82 |

| | | |
|-----|--|----|
| 758 | Multiple Pathways and Time Scales for Conformational Transitions in apo-Adenylate Kinase. 2018 , 14, 1716-1726 | 13 |
| 757 | Mechanisms of bacterial membrane permeabilization by crotalicidin (Ctn) and its fragment Ctn(15-34), antimicrobial peptides from rattlesnake venom. 2018 , 293, 1536-1549 | 51 |
| 756 | Characterizing protein conformations by correlation analysis of coarse-grained contact matrices. 2018 , 148, 025101 | 6 |
| 755 | Unified understanding of folding and binding mechanisms of globular and intrinsically disordered proteins. 2018 , 10, 163-181 | 22 |
| 754 | Study on the mechanism of isomerization of oxaspirohexane catalyzed by Zeise's Dimer. 2018 , 452, 247-259 | 6 |
| 753 | Structural basis for the catalytic mechanism and α -ketoglutarate cooperativity of glutamate dehydrogenase. 2018 , 293, 6241-6258 | 22 |
| 752 | Structure and function of haemoglobins. 2018 , 70, 13-42 | 62 |
| 751 | Systems Approaches to Understanding and Designing Allosteric Proteins. <i>Biochemistry</i> , 2018 , 57, 376-383.2 | 11 |
| 750 | GABA Type A Receptor Activation in the Allosteric Coagonist Model Framework: Relationship between EC and Basal Activity. 2018 , 93, 90-100 | 21 |
| 749 | A low cost mobile phone dark-field microscope for nanoparticle-based quantitative studies. 2018 , 99, 513-518 | 18 |
| 748 | Enzyme functioning: Along the lines of nonequilibrium phase transitions. 2018 , 8, 125326 | 3 |
| 747 | Designed Elastic Networks: Models of Complex Protein Machinery. 2018 , 19, | 11 |
| 746 | Understanding Allostery to Design New Drugs. 2018 , 281-300 | |
| 745 | Markov State Models in Drug Design. 2018 , 67-86 | 2 |
| 744 | Assessing Allostery in Intrinsically Disordered Proteins With Ensemble Allosteric Model. 2018 , 611, 531-557 | 4 |
| 743 | Millisecond Timescale Motions Connect Amino Acid Interaction Networks in Alpha Tryptophan Synthase. 2018 , 5, 92 | 5 |
| 742 | Allosteric Control of Photofoldamers for Selecting between Anion Regulation and Double-to-Single Helix Switching. 2018 , 140, 17711-17723 | 52 |
| 741 | Dynamics based clustering of globin family members. 2018 , 13, e0208465 | 3 |

| | | |
|-----|---|----|
| 740 | A comprehensive ensemble model for comparing the allosteric effect of ordered and disordered proteins. 2018 , 14, e1006393 | 12 |
| 739 | Dynamics of Quaternary Structure Transitions in R-State Carbonmonoxyhemoglobin Unveiled in Time-Resolved X-ray Scattering Patterns Following a Temperature Jump. 2018 , 122, 11488-11496 | 10 |
| 738 | Theoretical analysis of inducer and operator binding for cyclic-AMP receptor protein mutants. 2018 , 13, e0204275 | 4 |
| 737 | Quantifying Asymmetry of Multimeric Proteins. 2018 , 122, 7924-7930 | 1 |
| 736 | Computational Studies for Structure-Based Drug Designing Against Transmembrane Receptors: pLGICs and Class A GPCRs. 2018 , 6, | 4 |
| 735 | Combinatorial Coarse-Graining of Molecular Dynamics Simulations for Detecting Relationships between Local Configurations and Overall Conformations. 2018 , 14, 6026-6034 | 4 |
| 734 | Dynamical comparison between myoglobin and hemoglobin. 2018 , 86, 1176-1183 | 3 |
| 733 | Occupancies in the DNA-Binding Pathways of Intrinsically Disordered Helix-Loop-Helix Leucine-Zipper Proteins. 2018 , 122, 11460-11467 | 9 |
| 732 | Allosterism and signal transfer in DNA. 2018 , 46, 7554-7565 | 15 |
| 731 | Markov models for the elucidation of allosteric regulation. 2018 , 373, | 17 |
| 730 | Substrate Sequence Determines Catalytic Activities, Domain-Binding Preferences, and Allosteric Mechanisms in Pin1. 2018 , 122, 6521-6527 | 8 |
| 729 | Complex Reaction Kinetics in Chemistry: A Unified Picture Suggested by Mechanics in Physics. 2018 , 2018, 1-16 | 2 |
| 728 | Elucidating Allosteric Communications in Proteins with Difference Contact Network Analysis. 2018 , 58, 1325-1330 | 18 |
| 727 | LOV Domains in the Design of Photoresponsive Enzymes. 2018 , 13, 1914-1920 | 15 |
| 726 | Analysis and Quantification of GPCR Allosteric Receptor Receptor Interactions Using Radioligand Binding Assays: The A2AR-D2R Heteroreceptor Complex Example. 2018 , 1-14 | |
| 725 | Allostery and cooperativity in multimeric proteins: bond-to-bond propensities in ATCase. 2018 , 8, 11079 | 8 |
| 724 | Chloroplast Glutamine Synthetase, the Key Regulator of Nitrogen Metabolism in Wheat, Performs Its Role by Fine Regulation of Enzyme Activity via Negative Cooperativity of Its Subunits. 2018 , 9, 191 | 20 |
| 723 | Enzymes can adapt to cold by wiggling regions far from their active site. 2018 , 558, 195-196 | 4 |

| | | | |
|-----|--|-----|----|
| 722 | Determining the Structural and Energetic Basis of Allostery in a De Novo Designed Metalloprotein Assembly. 2018 , 140, 10043-10053 | | 15 |
| 721 | Singular value decomposition for the correlation of atomic fluctuations with arbitrary angle. 2018 , 86, 1075-1087 | | 5 |
| 720 | Disordered linkers in multidomain allosteric proteins: Entropic effect to favor the open state or enhanced local concentration to favor the closed state?. 2018 , 27, 1600-1610 | | 18 |
| 719 | Interplay of self-association and conformational flexibility in regulating protein function. 2018 , 373, | | 5 |
| 718 | Allostery and molecular machines. 2018 , 373, | | 10 |
| 717 | The nicotinic acetylcholine receptor: a typical 'allosteric machine'. 2018 , 373, | | 45 |
| 716 | Unpicking allosteric mechanisms of homo-oligomeric proteins by determining their successive ligand binding constants. 2018 , 373, | | 12 |
| 715 | Ensemble allosteric model: energetic frustration within the intrinsically disordered glucocorticoid receptor. 2018 , 373, | | 19 |
| 714 | Heat Capacity of DPPC/Cholesterol Mixtures: Comparison of Single Bilayers with Multibilayers and Simulations. 2018 , 34, 9798-9809 | | 9 |
| 713 | How humans and rising seas affect each other. 2018 , 558, 196-197 | | 1 |
| 712 | Structural Basis of Sequential Allosteric Transitions in Tetrameric d-Lactate Dehydrogenases from Three Gram-Negative Bacteria. <i>Biochemistry</i> , 2018 , 57, 5388-5406 | 3.2 | 4 |
| 711 | Intracellular Binding Site for a Positive Allosteric Modulator of the Dopamine D1 Receptor. 2018 , 94, 1232-1245 | | 16 |
| 710 | Determinants of human glucokinase activation and implications for small molecule allosteric control. 2018 , 1862, 1902-1912 | | |
| 709 | How calcium ion binding induces the conformational transition of the calmodulin N-terminal domain-an atomic level characterization. 2019 , 21, 19795-19804 | | 3 |
| 708 | Signal transduction in photoreceptor histidine kinases. 2019 , 28, 1923-1946 | | 32 |
| 707 | Handling complexity in biological interactions. 2019 , 138, 3229-3248 | | 4 |
| 706 | The TCR is an allosterically regulated macromolecular machinery changing its conformation while working. 2019 , 291, 8-25 | | 28 |
| 705 | Colloquium: Proteins: The physics of amorphous evolving matter. 2019 , 91, | | 12 |

| | | | |
|-----|--|-----|----|
| 704 | Inter-Active Site Communication Mediated by the Dimer Interface Sheet in the Half-the-Sites Enzyme, Thymidylate Synthase. <i>Biochemistry</i> , 2019 , 58, 3302-3313 | 3.2 | 6 |
| 703 | Mechanics of Allostery: Contrasting the Induced Fit and Population Shift Scenarios. 2019 , 117, 1954-1962 | | 4 |
| 702 | Probing Protein Allostery as a Residue-Specific Concept via Residue Response Maps. 2019 , 59, 4691-4705 | | 9 |
| 701 | Protein Allostery in Drug Discovery. 2019 , | | 5 |
| 700 | Binding-induced folding under unfolding conditions: Switching between induced fit and conformational selection mechanisms. 2019 , 294, 16942-16952 | | 13 |
| 699 | Single-molecule FRET methods to study the dynamics of proteins at work. 2019 , 12, 8-17 | | 47 |
| 698 | Structural and Functional Characterization of Dynamic Oligomerization in HMG-CoA Reductase. <i>Biochemistry</i> , 2019 , 58, 3960-3970 | 3.2 | 3 |
| 697 | Oligomeric Receptor Complexes and Their Allosteric Receptor-Receptor Interactions in the Plasma Membrane Represent a New Biological Principle for Integration of Signals in the CNS. 2019 , 12, 230 | | 17 |
| 696 | Low-barrier hydrogen bonds in enzyme cooperativity. 2019 , 573, 609-613 | | 31 |
| 695 | Dynamic regulatory features of the protein tyrosine kinases. 2019 , 47, 1101-1116 | | 12 |
| 694 | Duplexed aptamers: history, design, theory, and application to biosensing. 2019 , 48, 1390-1419 | | 89 |
| 693 | Deciphering General Characteristics of Residues Constituting Allosteric Communication Paths. 2019 , 245-258 | | |
| 692 | Hinge Twists and Population Shifts Deliver Regulated Catalysis for ATP-PRT in Histidine Biosynthesis. 2019 , 116, 1887-1897 | | 2 |
| 691 | Allosteric Regulation of Oligomerization by a B Trafficking G-Protein Is Corrupted in Methylmalonic Aciduria. 2019 , 26, 960-969.e4 | | 6 |
| 690 | Figure 1 Theory Meets Figure 2 Experiments in the Study of Gene Expression. 2019 , 48, 121-163 | | 31 |
| 689 | Conformational selection dominates binding of steroids to human cytochrome P450 17A1. 2019 , 294, 10028-10041 | | 24 |
| 688 | Symmetry, Rigidity, and Allosteric Signaling: From Monomeric Proteins to Molecular Machines. 2019 , 119, 6788-6821 | | 41 |
| 687 | Ligand-Binding-Site Structure Shapes Allosteric Signal Transduction and the Evolution of Allostery in Protein Complexes. 2019 , 36, 1711-1727 | | 19 |

| | | |
|-----|--|-----|
| 686 | Synchronized On/Off Switching of Four Binding Sites for Water in a Molecular Solomon Link. 2019 , 131, 8137-8141 | 3 |
| 685 | From Quantum Chemistry to Networks in Biology: A Graph Spectral Approach to Protein Structure Analyses. 2019 , 59, 1715-1727 | 5 |
| 684 | Reaction Chemical Kinetics in Biology. 2019 , 179-217 | 2 |
| 683 | Exploring Allosteric Pathways of a V-Type Enzyme with Dynamical Perturbation Networks. 2019 , 123, 3452-3461 | 14 |
| 682 | Synchronized On/Off Switching of Four Binding Sites for Water in a Molecular Solomon Link. 2019 , 58, 8053-8057 | 13 |
| 681 | Allostery in Its Many Disguises: From Theory to Applications. 2019 , 27, 566-578 | 158 |
| 680 | Dissecting a novel allosteric mechanism of cruzain: A computer-aided approach. 2019 , 14, e0211227 | 9 |
| 679 | Interaction Force Fluctuations in Antigen-Antibody Biorecognition Studied by Atomic Force Spectroscopy. 2019 , 4, 3627-3634 | 2 |
| 678 | Toward Comprehensive Allosteric Control over Protein Activity. 2019 , 27, 866-878.e1 | 41 |
| 677 | Allosteric Modulator Discovery: From Serendipity to Structure-Based Design. 2019 , 62, 6405-6421 | 78 |
| 676 | Fluctuation correlations as major determinants of structure- and dynamics-driven allosteric effects. 2019 , 21, 5200-5214 | 8 |
| 675 | GroEL Allostery Illuminated by a Relationship between the Hill Coefficient and the MWC Model. 2019 , 117, 1915-1921 | 6 |
| 674 | . 2019 , | 3 |
| 673 | Cooperativity transitions driven by higher-order oligomer formations in ligand-induced receptor dimerization. 2019 , 100, 062407 | 2 |
| 672 | Torque transmission mechanism of the curved bacterial flagellar hook revealed by cryo-EM. 2019 , 26, 941-945 | 16 |
| 671 | On the perturbation nature of allostery: sites, mutations, and signal modulation. 2019 , 56, 18-27 | 55 |
| 670 | Cooperativity in proton sensing by PIP aquaporins. 2019 , 286, 991-1002 | 6 |
| 669 | Streptavidin cooperative allostery upon binding biotin observed by differential changes in intrinsic fluorescence. 2019 , 17, 127-131 | 2 |

| | | | |
|-----|--|-----|----|
| 668 | The missing links within troponin. 2019 , 663, 95-100 | | 3 |
| 667 | How to Determine Lipid Interactions in Membranes from Experiment Through the Ising Model. 2019 , 35, 21-40 | | 12 |
| 666 | Perspective: The promises of a holistic view of proteins-impact on antibody engineering and drug discovery. 2019 , 39, | | 17 |
| 665 | Allosteric transitions in hemoglobin revisited. 2020 , 1864, 129335 | | 13 |
| 664 | Contrasting theories of life: Historical context, current theories. In search of an ideal theory. 2020 , 188, 104063 | | 21 |
| 663 | Allosteric Cooperativity in Proton Energy Conversion in A1-Type Cytochrome c Oxidase. 2020 , 432, 534-551 | | 2 |
| 662 | How does evolution design functional free energy landscapes of proteins? A case study on the emergence of regulation in the Cyclin Dependent Kinase family. 2020 , 5, 392-400 | | |
| 661 | Evaluation of structurally different brominated flame retardants interacting with the transthyretin and their toxicity on HepG2 cells. 2020 , 246, 125749 | | 6 |
| 660 | Allosteric control of metal-responsive transcriptional regulators in bacteria. 2020 , 295, 1673-1684 | | 9 |
| 659 | Quantifying GPCR allostery and biased signaling. 2020 , 143-169 | | |
| 658 | NMR and computational methods for molecular resolution of allosteric pathways in enzyme complexes. 2020 , 12, 155-174 | | 21 |
| 657 | Hemoglobin S polymerization and sickle cell disease: A retrospective on the occasion of the 70th anniversary of Pauling's Science paper. 2020 , 95, 205-211 | | 19 |
| 656 | Structural Energy Landscapes and Plasticity of the Microstates of Apo cAMP Receptor Protein. <i>Biochemistry</i> , 2020 , 59, 460-470 | 3.2 | 1 |
| 655 | Structure dictates the mechanism of ligand recognition in the histidine and maltose binding proteins. 2020 , 2, 180-190 | | 1 |
| 654 | A Time-Dependent Quantum Approach to Allostery and a Comparison With Light-Harvesting in Photosynthetic Phenomenon. 2020 , 7, 156 | | 0 |
| 653 | Unified dimensionless transformation in enzyme kinetics: Application to mathematical analyses of ten biochemical reaction systems. 2020 , 610, 113794 | | 1 |
| 652 | Synergistic Allostery in Multiligand-Protein Interactions. 2020 , 119, 1833-1848 | | 12 |
| 651 | Long-Range Charge Reorganization as an Allosteric Control Signal in Proteins. 2020 , 142, 20456-20462 | | 9 |

| | | |
|-----|---|-------|
| 650 | Analyzing the Relationship Between the Activation of the Edema Factor and Its Interaction With Calmodulin. 2020 , 7, 586544 | |
| 649 | Discovery of allosteric binding sites by crystallographic fragment screening. 2020 , 65, 209-216 | 5 |
| 648 | An Automated Model Reduction Method for Biochemical Reaction Networks. 2020 , 12, 1321 | 2 |
| 647 | 1. ITS AN ALLOSTERIC WORLD. 2020 , 3-34 | |
| 646 | Protein Allostery at Atomic Resolution. 2020 , 59, 22132-22139 | 6 |
| 645 | Protein Allostery at Atomic Resolution. 2020 , 132, 22316-22323 | |
| 644 | Enzyme Kinetics by Isothermal Titration Calorimetry: Allostery, Inhibition, and Dynamics. 2020 , 7, 583826 | 14 |
| 643 | Quantifying the distribution of protein oligomerization degree reflects cellular information capacity. 2020 , 10, 17689 | 3 |
| 642 | The Catalytic Mechanics of Dynamic Surfaces: Stimulating Methods for Promoting Catalytic Resonance. 2020 , 10, 12666-12695 | 18 |
| 641 | Dissection of enzymatic kinetics and elucidation of detailed parameters based on the Michaelis-Menten model. Kinetic and thermodynamic connections. 2020 , 2, e12223 | |
| 640 | Cooperative Heteroligand Interaction with G-Quadruplexes Shows Evidence of Allosteric Binding. <i>Biochemistry</i> , 2020 , 59, 3438-3446 | 3.2 2 |
| 639 | Supertertiary protein structure affects an allosteric network. 2020 , 117, 24294-24304 | 9 |
| 638 | Allomorphy as a mechanism of post-translational control of enzyme activity. 2020 , 11, 5538 | 1 |
| 637 | A hybrid approach reveals the allosteric regulation of GTP cyclohydrolase I. 2020 , 117, 31838-31849 | 4 |
| 636 | Surveying the Side-Chain Network Approach to Protein Structure and Dynamics: The SARS-CoV-2 Spike Protein as an Illustrative Case. 2020 , 7, 596945 | 4 |
| 635 | Allosteric inhibition explained through conformational ensembles sampling distinct "mixed" states. 2020 , 18, 3803-3818 | 16 |
| 634 | Mechanisms of ligand binding. 2020 , 1, 011303 | 10 |
| 633 | Theory of Allosteric Regulation in Hsp70 Molecular Chaperones. 2020 , 1, | 3 |

| | | |
|-----|--|----|
| 632 | Theory of Allosteric Regulation in Hsp70 Molecular Chaperones. 2020 , | |
| 631 | Theory of Allosteric Regulation in Hsp70 Molecular Chaperones. 2020 , | |
| 630 | Theory of Allosteric Regulation in Hsp70 Molecular Chaperones. 2020 , | |
| 629 | Theory of Allosteric Regulation in Hsp70 Molecular Chaperones. 2020 , | |
| 628 | Theory of Allosteric Regulation in Hsp70 Molecular Chaperones. 2020 , | |
| 627 | Theory of Allosteric Regulation in Hsp70 Molecular Chaperones. 2020 , | |
| 626 | Insight to Functional Conformation and Noncovalent Interactions of Protein-Protein Assembly Using MALDI Mass Spectrometry. 2020 , 25, | 2 |
| 625 | Understanding the Binding Induced Folding of Intrinsically Disordered Proteins by Protein Engineering: Caveats and Pitfalls. 2020 , 21, | 4 |
| 624 | Cardiac troponin and tropomyosin bind to F-actin cooperatively, as revealed by fluorescence microscopy. 2020 , 10, 1362-1372 | 1 |
| 623 | Controlled binding of organic guests by stimuli-responsive macrocycles. 2020 , 49, 3834-3862 | 33 |
| 622 | Finding acceptable parameter regions of stochastic Hill functions for multisite phosphorylation mechanism. 2020 , 152, 124108 | |
| 621 | Allosteric Modulation of Neurotransmitter Transporters as a Therapeutic Strategy. 2020 , 41, 446-463 | 21 |
| 620 | Negative cooperativity upon hydrogen bond-stabilized O adsorption in a redox-active metal-organic framework. 2020 , 11, 3087 | 22 |
| 619 | Conformational spread and dynamics in allostery of NMDA receptors. 2020 , 117, 3839-3847 | 14 |
| 618 | Cytochrome P450 2E1 and its roles in disease. 2020 , 322, 109056 | 21 |
| 617 | An allosteric pathway explains beneficial fitness in yeast for long-range mutations in an essential TIM barrel enzyme. 2020 , 29, 1911-1923 | 3 |
| 616 | Current Advances in Allosteric Modulation of Muscarinic Receptors. 2020 , 10, | 11 |
| 615 | Protein topology and allostery. 2020 , 62, 158-165 | 12 |

| | | |
|-----|--|----|
| 614 | Nanosecond-Timescale Dynamics and Conformational Heterogeneity in Human GCK Regulation and Disease. 2020 , 118, 1109-1118 | 2 |
| 613 | Allostery as Structure-Encoded Collective Dynamics. 2020 , 125-141 | 1 |
| 612 | The role of cooperativity in a p53-miR34 dynamical mathematical model. 2020 , 495, 110252 | 0 |
| 611 | Allosteric communication in molecular machines via information exchange: what can be learned from dynamical modeling. 2020 , 12, 443-452 | 11 |
| 610 | Residue-Level Allostery Propagates through the Effective Coarse-Grained Hessian. 2020 , 16, 3385-3395 | 9 |
| 609 | Protein-ligand interactions. 2020 , 351-399 | |
| 608 | Both intra and inter-domain interactions define the intrinsic dynamics and allosteric mechanism in DNMT1s. 2020 , 18, 749-764 | 12 |
| 607 | Allosteric autoactivation of SOS and its kinetic mechanism. 2021 , 12, 44-59 | 3 |
| 606 | State-dependent sequential allostery exhibited by chaperonin TRiC/CCT revealed by network analysis of Cryo-EM maps. 2021 , 160, 104-120 | 5 |
| 605 | Explicit Treatment of Non-Michaelis-Menten and Atypical Kinetics in Early Drug Discovery*. 2021 , 16, 899-918 | 3 |
| 604 | Evolution-Structure Paradigm of Protein Complexes. 2021 , 153-196 | |
| 603 | Transients generate memory and break hyperbolicity in stochastic enzymatic networks. 2021 , 154, 035101 | 1 |
| 602 | Potential Allosteric Sites Captured in Glycolytic Enzymes Via Residue-Based Network Models: Phosphofruktokinase, Glyceraldehyde-3-Phosphate Dehydrogenase and Pyruvate Kinase. | |
| 601 | Moving beyond static snapshots: Protein dynamics and the Protein Data Bank. 2021 , 296, 100749 | 7 |
| 600 | Molecular Dynamics Simulation in Drug Discovery: Opportunities and Challenges. 2021 , 295-316 | 2 |
| 599 | OBSOLETE: Drug Metabolism: Cytochrome P450. 2021 , | |
| 598 | Discriminating between Concerted and Sequential Allosteric Mechanisms by Comparing Equilibrium and Kinetic Hill Coefficients. 2021 , 125, 70-73 | 2 |
| 597 | Protein Function Allostery in Proteins: Canonical Models and New Insights. 2021 , 27-43 | |

- 596 Allosteric in Proteins as Point-to-Point Telecommunication in a Network: Frequency Decomposed Signal-to-Noise Ratio and Channel Capacity Analysis.
- 595 The Perturbed Free-Energy Landscape: Linking Ligand Binding to Biomolecular Folding. **2021**, 22, 1499-1516 2
- 594 Engineering an Allosteric Control of Protein Function. **2021**, 125, 1806-1814 7
- 593 Designed leucine-rich repeat proteins bind two muramyl dipeptide ligands. **2021**, 30, 804-817 2
- 592 Salt stress of two rice varieties: root border cell response and multi-logistic quantification. **2021**, 258, 1119-1131 2
- 591 Unraveling the Coupling between Conformational Changes and Ligand Binding in Ribose Binding Protein Using Multiscale Molecular Dynamics and Free-Energy Calculations. **2021**, 125, 2898-2909 2
- 590 Supramolecular Polymers, Based on Electronic Interactions. **2021**, 195-237
- 589 The Influence of Cofactor Binding on the Intramolecular Dynamics of Glyceraldehyde-3-Phosphate Dehydrogenase. **2021**, 66, 192-201 1
- 588 Subsets of adjacent nodes (SOAN): a fast method for computing suboptimal paths in protein dynamic networks. e1893847 3
- 587 On the emergence of orientational order in folded proteins with implications for allostery.
- 586 On the Emergence of Orientational Order in Folded Proteins with Implications for Allostery. **2021**, 13, 770 3
- 585 The Speed of Allosteric Signaling Within a Single-Domain Protein. **2021**, 12, 4262-4267 7
- 584 Combining Small-Molecule Bioconjugation and Hydrogen-Deuterium Exchange Mass Spectrometry (HDX-MS) to Expose Allostery: the Case of Human Cytochrome P450 3A4. **2021**, 16, 882-890 1
- 583 Exploring the Allosteric Territory of Protein Function. **2021**, 125, 3763-3780 10
- 582 Allostery and Drug Discovery. 1-78
- 581 Iain Donald Campbell. 24 April 1941– March 2014.
- 580 Substitution of a Surface-Exposed Residue Involved in an Allosteric Network Enhances Tryptophan Synthase Function in Cells. **2021**, 8, 679915 3
- 579 Microsecond Folding of preQ Riboswitch and Its Biological Significance Revealed by Two-Dimensional Fluorescence Lifetime Correlation Spectroscopy. **2021**, 143, 7968-7978 2

| | | |
|-----|--|----|
| 578 | Investigating the Mechanism of Sodium Binding to SERT Using Direct Simulations. 2021 , 15, 673782 | 2 |
| 577 | Allostery through DNA drives phenotype switching. 2021 , 12, 2967 | 5 |
| 576 | Extreme parsimony in ATP consumption by 20S complexes in the global disassembly of single SNARE complexes. 2021 , 12, 3206 | 5 |
| 575 | Common cardiac medications potently inhibit ACE2 binding to the SARS-CoV-2 Spike, and block virus penetration into human lung cells. | 2 |
| 574 | Rational design of allosteric modulators: Challenges and successes. 2021 , 11, e1529 | 11 |
| 573 | Allosteric Type and Pathways Are Governed by the Forces of Protein-Ligand Binding. 2021 , 12, 5404-5412 | 4 |
| 572 | Chemical and Biophysical Approaches to Allosteric Modulation. 2021 , 2021, 4245-4259 | |
| 571 | Estradiol induces allosteric coupling and partitioning of sex-hormone-binding globulin monomers among conformational states. 2021 , 24, 102414 | 3 |
| 570 | Roles of Fe-Histidine bonds in stability of hemoglobin: Recognition of protein flexibility by Q Sepharose. 2021 , 120, 2734-2745 | 2 |
| 569 | Allosteric conformational ensembles have unlimited capacity for integrating information. 2021 , 10, | 5 |
| 568 | Novel insights into ATP-Stimulated Cleavage of branched DNA and RNA Substrates through Structure-Guided Studies of the Holliday Junction Resolvase RuvX. 2021 , 433, 167014 | 0 |
| 567 | Topology Protects Chiral Edge Currents in Stochastic Systems. 2021 , 11, | 1 |
| 566 | From Selection to Instruction and Back: Competing Conformational Selection and Induced Fit Pathways in Abiotic Hosts. 2021 , 133, 20095-20101 | 2 |
| 565 | From Selection to Instruction and Back: Competing Conformational Selection and Induced Fit Pathways in Abiotic Hosts. 2021 , 60, 19942-19948 | 3 |
| 564 | A Framework for Investigating Rules of Life by Establishing Zones of Influence. 2021 , | 1 |
| 563 | Thermodynamic profile of mutual subunit control in a heteromeric receptor. 2021 , 118, | 1 |
| 562 | Impact of hemoglobin biophysical studies on molecular pathogenesis and drug therapy for sickle cell disease. 2021 , 84, 100971 | 2 |
| 561 | Comparative Analysis of Structural and Dynamical Features of Ribosome Upon Association With mRNA Reveals Potential Role of Ribosomal Proteins. 2021 , 8, 654164 | 1 |

| | | |
|-----|---|---|
| 560 | Cooperative Sorption on Porous Materials. 2021 , 37, 10279-10290 | 5 |
| 559 | Ion Mobility Mass Spectrometry Analysis of Oxygen Affinity-Associated Structural Changes in Hemoglobin. 2021 , 32, 2528-2535 | 0 |
| 558 | Dissecting the role of interprotomer cooperativity in the activation of oligomeric high-temperature requirement A2 protein. 2021 , 118, | 5 |
| 557 | Dynamic Cellular Cartography: Mapping the Local Determinants of Oligodendrocyte Transcription Factor 2 (OLIG2) Function in Live Cells Using Massively Parallel Fluorescence Correlation Spectroscopy Integrated with Fluorescence Lifetime Imaging Microscopy (mpFCS/FLIM). 2021 , 93, 12011-12021 | 1 |
| 556 | Conformational equilibria in allosteric control of Hsp70 chaperones. 2021 , 81, 3919-3933.e7 | 3 |
| 555 | Biochemical, structural and dynamical studies reveal strong differences in the thermal-dependent allosteric behavior of two extremophilic lactate dehydrogenases. 2021 , 213, 107769 | 1 |
| 554 | Role of hemoglobin structural-functional relationships in oxygen transport. 2021 , 84, 101022 | 4 |
| 553 | Single-molecule imaging reveals the concerted release of myosin from regulated thin filaments. 2021 , 10, | |
| 552 | Intrinsically disordered proteins: Chronology of a discovery. 2021 , 279, 106694 | 3 |
| 551 | Analysis of co-evolved interaction network of E.coli aspartokinase III and regulation of allosteric progress using energy transduction. 2022 , 429, 132151 | |
| 550 | Stepwise as Opposed to Concerted Conformational Changes Optimize Signal Transmission in Allosteric Dimers. 2021 , 959-989 | |
| 549 | Allosteric binding of sodium deoxycholate by a bis(β -cyclodextrin)-2,2'-bipyridine receptor. | |
| 548 | Drug Metabolism: Cytochrome P450. 2021 , | 0 |
| 547 | Allosteric Proteins and Drug Discovery. 2003 , 295-317 | 1 |
| 546 | Receptor Targets in Drug Discovery and Development. 2003 , 319-355 | 2 |
| 545 | Oxygen Delivery by Allosteric Effectors of Hemoglobin, Blood Substitutes, and Plasma Expanders. 2003 , 385-441 | 1 |
| 544 | A practical guide to the temperature-jump method for measuring the rate of fast reactions. 1971 , 20, 169-350 | 9 |
| 543 | Metal Ion Reconstituted Hybrid Hemoglobins. 563-684 | 4 |

| | | |
|-----|---|----|
| 542 | Six years of protein structure determination by NMR spectroscopy: what have we learned?. 1991 , 161, 136-45; discussion 145-9 | 4 |
| 541 | The acetylcholine receptor: a model of an allosteric membrane protein mediating intercellular communication. 1992 , 164, 66-89; discussion 87-97 | 5 |
| 540 | The Macroscopic Effects of Microscopic Heterogeneity in Cell Signaling. 373-396 | 4 |
| 539 | Allosteric Effectors of Hemoglobin: Past, Present and Future. 285-300 | 7 |
| 538 | The Nature of Enzymes. 4-72 | 1 |
| 537 | Kinetics of Multi-Enzyme Systems. 121-136 | 5 |
| 536 | The Nature of Enzymes. 2001 , 4-72 | 1 |
| 535 | Probing the Energy Landscape of Protein-Binding Reactions by Dynamic Force Spectroscopy. 2009 , 407 | 5 |
| 534 | Enzyme Kinetics: Theory and Practice. 2009 , 71-103 | 20 |
| 533 | Allostery: The Rebound of Proteins. 2021 , 2253, 1-6 | 1 |
| 532 | Oxygen carrier proteins. 1985 , 263-331 | 7 |
| 531 | Identification of Receptors Using Direct Radioligand Binding Techniques. 1996 , 61-122 | 6 |
| 530 | Complex Binding Phenomena. 1996 , 123-167 | 2 |
| 529 | ENDOR Spectroscopy in Photobiology and Biochemistry. 1987 , 129-247 | 20 |
| 528 | Modulation of Enzyme Activity. 1980 , 135-169 | 3 |
| 527 | Data Analysis from Michaelis-Menten Kinetics: Ins and Outs. 1981 , 353-373 | 3 |
| 526 | Is There a Preferential Pathway for Antibody-Mediated Enzyme Activation?. 1983 , 233-241 | 2 |
| 525 | Multisubunit Allosteric Proteins. 1998 , 27-35 | 1 |

| | | |
|-----|--|----|
| 524 | Carrier-Mediated Transport Processes. 1971 , 683-819 | 2 |
| 523 | Functional non-equivalence of and hemes in human hemoglobins. 1972 , 28, 65-76 | 6 |
| 522 | Theory of Radioimmunoassays and Hormone-Receptor Interactions:. 1973 , 327-341 | 19 |
| 521 | Enzyme Kinetics. 1981 , 265-337 | 5 |
| 520 | Acetylcholine Receptor. 1984 , 295-364 | 1 |
| 519 | Membrane Topology of Cytochromes P-450: Elements and Measurement by Spectroscopic Techniques. 1991 , 93-113 | 1 |
| 518 | Membrane Topology of Cytochromes P-450: Oligomers and Cooperativity. 1991 , 115-133 | 2 |
| 517 | Membrane Receptors for Polypeptide Hormones. 1975 , 81-146 | 63 |
| 516 | Identification of Receptors Using Direct Radioligand Binding Techniques. 1986 , 51-96 | 17 |
| 515 | Rat-Liver Glucokinase as a Mnemonical Enzyme. 1984 , 29-41 | 3 |
| 514 | Zero-order Ultrasensitivity in Interconvertible Enzyme Systems. 1990 , 173-182 | 7 |
| 513 | The Nature and Role of Theory in Metabolic Control. 1990 , 31-40 | 4 |
| 512 | Coupled Reactions and Channelling: their Role in the Control of Metabolism. 1990 , 259-270 | 3 |
| 511 | Role of allosteric changes in cyclic AMP receptor protein function. 1995 , 24, 303-21 | 6 |
| 510 | Molecular Structure, Gating, and Regulation. 2014 , 17-38 | 2 |
| 509 | Expanding the conformational selection paradigm in protein-ligand docking. 2012 , 819, 59-74 | 10 |
| 508 | Illuminating allostery in metal sensing transcriptional regulators. 2012 , 875, 165-92 | 6 |
| 507 | Hemoglobin: Structure, Function and Allostery. 2020 , 94, 345-382 | 28 |

| | | |
|-----|--|----|
| 506 | Multisite Mechanisms for Ultrasensitivity in Signal Transduction. 2013 , 199-224 | 5 |
| 505 | Allosteric Regulation and Intrinsic Disorder in Nuclear Hormone Receptors. 2015 , 73-91 | 2 |
| 504 | Facilitated Oxygen Transport. 2011 , 79-105 | 1 |
| 503 | Inhibitors Around the Antimycin-Sensitive Site in the Respiratory Chain. 1969 , 282-300 | 13 |
| 502 | Cooperative Phenomena in Yeast Glyceraldehyde-3-Phosphate Dehydrogenase. 1970 , 199-208 | 1 |
| 501 | Conformational Effects of NAD ⁺ on Yeast Glyceraldehyde-3-Phosphate Dehydrogenase. 1970 , 209-216 | 3 |
| 500 | Recent Studies on the Allosteric Glyceraldehyde-3-Phosphate Dehydrogenase from Yeast. 1970 , 217-228 | 5 |
| 499 | Kinetics. 1970 , 3-13 | 0 |
| 498 | Kinetics and Mechanism of Glutamate Dehydrogenase. 1970 , 245-256 | 2 |
| 497 | Optical Probes for Glutamate Dehydrogenase. 1970 , 257-269 | 6 |
| 496 | The Stereoselective Inhibition of Functional -SH Groups of Dehydrogenases. 1970 , 91-101 | 2 |
| 495 | Structure, Function and Dynamics of a Regulatory Enzyme Δ Aspartate Transcarbamylase. 1972 , 17-56 | 7 |
| 494 | Oxygen Binding to Haemocyanin: A Tentative Analysis in the Framework of a Concerted Model. 1977 , 189-192 | 4 |
| 493 | The Use of Snake Toxins for the Study of the Acetylcholine Receptor and its Ion-Conductance Modulator. 1979 , 377-402 | 9 |
| 492 | Blue Light-Effects on Enzymes of the Carbohydrate Metabolism in Chlorella 1. Pyruvate Kinase. 1980 , 361-367 | 9 |
| 491 | Role of Digestive Enzymes in the Permeability of the Enterocyte. 1984 , 31-117 | 2 |
| 490 | A General Treatment of Ligand Binding to the Acetylcholine Receptor. 1986 , 129-146 | 1 |
| 489 | Enzymkinetik. 1989 , 72-132 | 3 |

| | | |
|-----|--|----|
| 488 | Oxygen Carriers as Molecular Models of Allosteric Behavior. 1992 , 1-21 | 2 |
| 487 | Dynamics of enzyme reactions and metabolic networks in living cells. A physico-chemical approach. 1994 , 13, 1-80 | 2 |
| 486 | Cooperativity and Allostery. 1975 , 236-280 | 1 |
| 485 | Glucocorticoid receptors. 1979 , 12, 49-77 | 42 |
| 484 | Allosteric and competitive steroid-receptor interactions. 1979 , 12, 123-33 | 5 |
| 483 | The Structure of Oxygenated and Deoxygenated Myoglobin. 1968 , 37-66 | 5 |
| 482 | Challenges for Computer Simulations in Drug Design. 2010 , 431-463 | 2 |
| 481 | How Evolutionary Biology Presently Pervades Cell and Molecular Biology. 2010 , 59-66 | 1 |
| 480 | Synthetic Optically Active Polymers as Catalysts for Asymmetric Syntheses. 1979 , 357-401 | 7 |
| 479 | Hormones: A Complex Communication Network. 1990 , 1-172 | 3 |
| 478 | Cooperativity in the Ca ²⁺ -Regulation of Skeletal Muscle Contraction. 2002 , 247-269 | 2 |
| 477 | Regulation of Enzyme Activity. 2018 , 461-492 | 1 |
| 476 | Allosteric Modulation of Intrinsically Disordered Proteins. 2019 , 1163, 335-357 | 4 |
| 475 | Engineering Allostery into Proteins. 2019 , 1163, 359-384 | 6 |
| 474 | Characteristics of Allosteric Proteins, Sites, and Modulators. 2019 , 1163, 107-139 | 11 |
| 473 | Advances in the Computational Identification of Allosteric Sites and Pathways in Proteins. 2019 , 1163, 141-169 | 12 |
| 472 | Biochemical effects of molecular crowding. 2004 , 69, 1239-1251 | 12 |
| 471 | Allosteric Regulation. 2004 , 68-73 | 1 |

| | | |
|-----|--|-----|
| 470 | A FLUOROGENIC REAGENT AS A PROBE FOR THE SUBUNIT STRUCTURE OF GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE. 1972 , 161-169 | 3 |
| 469 | Deamination of Nucleosides and Nucleotides and Related Reactions. 1999 , 71-100 | 2 |
| 468 | Membrane cooperative enzymes as a tool for the investigation of membrane structure and related phenomena. 1980 , 17, 251-82 | 49 |
| 467 | Regulation of Enzyme Activity in Metabolic Pathways. 1976 , 277-336 | 4 |
| 466 | Conformational Aspects of Enzyme Regulation. 1969 , 1, 1-27 | 29 |
| 465 | Regulation of the Biosynthesis of the Branched-Chain Amino Acids. 1969 , 57-76 | 24 |
| 464 | The Aspartokinases and Homoserine Dehydrogenases of Escherichia coli. 1969 , 1, 183-231 | 40 |
| 463 | The Regulation of Branched and Converging Pathways. 1971 , 3, 1-115 | 15 |
| 462 | Glutamine phosphoribosylpyrophosphate amidotransferase. 1972 , 5, 135-76 | 22 |
| 461 | The Regulatory Influence of Allosteric Effectors on Deoxycytidylate Deaminases. 1972 , 5, 177-228 | 19 |
| 460 | On Allosteric Models. 1972 , 6, 209-226 | 43 |
| 459 | Flip-Flop Mechanisms and Half-Site Enzymes. 1972 , 6, 267-310 | 66 |
| 458 | Molecular adaptation to physiological requirements: the hemoglobin system of trout. 1975 , 9, 1-39 | 179 |
| 457 | L-threonine dehydrase as a model of allosteric control involving ligand-induced oligomerization. 1975 , 9, 65-101 | 42 |
| 456 | The role of negative cooperativity and half-of-the-sites reactivity in enzyme regulation. 1976 , 10, 1-40 | 118 |
| 455 | Regulation of the glycogen phosphorylase system--from physical measurements to biological speculations. 1976 , 10, 89-160 | 58 |
| 454 | Regulation of biodegradative threonine deaminase. 1976 , 11, 99-146 | 20 |
| 453 | Interconvertible enzyme cascades in metabolic regulation. 1978 , 13, 53-95 | 124 |

| | | |
|-----|--|----|
| 452 | Glycogen synthase and glycogen synthase kinases. 1981 , 20, 45-105 | 94 |
| 451 | Calmodulin and dynamics of interactions of cytosolic enzymes. 1992 , 33, 105-26 | 16 |
| 450 | Hemoglobin and Myoglobin. 1979 , 445-472 | 1 |
| 449 | The Tricarboxylic Acid Cycle. 1967 , 146-270 | 26 |
| 448 | Regulation of Tryptophan Synthesis. 1971 , 389-446 | 8 |
| 447 | Protein Structure in Relation to Cell Dynamics and Differentiation. 1966 , 217-249 | 6 |
| 446 | Binding of Protons and Other Ions. 1970 , 365-436 | 4 |
| 445 | Small-Angle X-ray Scattering. 1973 , 141-243 | 13 |
| 444 | The Present Status of Genetic Regulation by Hormones. 1972 , 1-20 | 9 |
| 443 | The Mineralocorticoid Receptor. 1985 , 385-431 | 10 |
| 442 | Formation and Structure of Casein Micelles. 1971 , 3-85 | 57 |
| 441 | X-Ray Structure of Proteins. 1977 , 403-590 | 27 |
| 440 | Conformational Forms of the Estrogen Receptor. 1978 , 33-61 | 13 |
| 439 | Cooperative Processes in Biological Systems. 1972 , 213-302 | 7 |
| 438 | Lymphocytic Receptors for Antigens. 1975 , 189-269 | 5 |
| 437 | Enzyme Regulation. 1987 , 69-105 | 1 |
| 436 | Hemoglobin and Methemoglobin. 1975 , 753-797 | 3 |
| 435 | Interaction of Oxygen and Carbon Dioxide with Hemoglobin at the Molecular Level. 1975 , 825-839 | 2 |

| | | |
|-----|--|-----|
| 434 | THE POSSIBILITY OF CONFORMATIONAL CHANGES IN ACETYLCHOLINESTERASE. 1971 , 1-18 | 2 |
| 433 | Organized Polymeric Enzyme Systems: Catalytic Properties. 1985 , 177-240 | 5 |
| 432 | Jeffries Wyman and Myself: a Story of Two Interacting Lives. 1986 , 36, 99-195 | 3 |
| 431 | Band 3 quaternary states and allosteric control of function. 1992 , 2, 191-205 | 9 |
| 430 | The allosteric control mechanism of bacterial glycogen biosynthesis disclosed by cryoEM. 2020 , 2, 89-103 | 1 |
| 429 | Allostery in membrane proteins. 2020 , 62, 197-204 | 10 |
| 428 | Regulation of enzymes by fatty acyl coenzyme A. Site-specific binding of fatty acyl coenzyme A by citrate synthase—spin-labeling study.. 1979 , 254, 2800-2806 | 20 |
| 427 | Kinetic studies on the cooperative ligand binding by hemoglobin M Milwaukee. 1979 , 254, 2353-2357 | 11 |
| 426 | Biosynthesis of bacterial glycogen. The nature of the binding of substrates and effectors to ADP-glucose synthase.. 1979 , 254, 127-136 | 49 |
| 425 | Regulatory properties of the alpha-ketoglutarate dehydrogenase complex of <i>Acetobacter xylinum</i> . In situ studies and localization of the allosteric response in the E1 component. 1978 , 253, 5678-5684 | 6 |
| 424 | The effect of pH on the cooperative behavior of aspartate transcarbamylase from <i>Escherichia coli</i> . 1978 , 253, 4624-4630 | 67 |
| 423 | Binding of acetyl-CoA to chicken liver pyruvate carboxylase.. 1977 , 252, 51-56 | 13 |
| 422 | Negative cooperativity among beta-adrenergic receptors in frog erythrocyte membranes.. 1976 , 251, 5007-5014 | 87 |
| 421 | Interactions of oxytocin and vasopressin with bovine neurophysins I and II. Effects of hormone binding on the protein quaternary structure: a simple model.. 1976 , 251, 3965-3971 | 35 |
| 420 | Comparison of initial velocity and binding data for allosteric adenosine monophosphate nucleosidase.. 1976 , 251, 3417-3424 | 29 |
| 419 | Site-site interactions among insulin receptors. Characterization of the negative cooperativity.. 1976 , 251, 1877-1888 | 394 |
| 418 | Biosynthesis of bacterial glycogen. Incorporation of pyridoxal phosphate into the allosteric activator site and an ADP-glucose-protected pyridoxal phosphate binding site of <i>Escherichia coli</i> B ADP-glucose synthase.. 1978 , 253, 6197-6202 | 62 |
| 417 | Self-association of glucagon as measured by the optical properties of rhodamine 6G.. 1978 , 253, 1353-1356 | 11 |

| | | |
|-----------------|---|-----|
| 4 ¹⁶ | Simple inhibition studies for distinction between homodimeric and heterodimeric isoenzymes of glutathione transferase.. 1986 , 261, 1048-1051 | 48 |
| 4 ¹⁵ | Biphasic recombination of photodissociated CO compound of cytochrome o(s) from <i>Vitreoscilla</i> .. 1985 , 260, 15526-15529 | 5 |
| 4 ¹⁴ | Inhibition of fructose-1,6-biphosphatase by the photoaffinity AMP analog, 8-azidoadenosine 5'-monophosphate.. 1979 , 254, 259-261 | 19 |
| 4 ¹³ | Treatment of enzyme kinetic data. Extension of the concerted allosteric model to the two-substrate case.. 1977 , 252, 4546-4551 | 9 |
| 4 ¹² | Alpha-ketoglutarate dehydrogenase complex of <i>Acetobacter xylinum</i> . Purification and regulatory properties.. 1977 , 252, 2940-2947 | 17 |
| 4 ¹¹ | Transient kinetic studies on the allosteric transition of phosphoglycerate dehydrogenase.. 1977 , 252, 1527-1538 | 17 |
| 4 ¹⁰ | Calorimetric evidence for allosteric subunit interactions associated with inhibitor binding to band 3 transporter.. 1994 , 269, 59-61 | 15 |
| 4 ⁰⁹ | Ultrasensitivity in biochemical systems controlled by covalent modification. Interplay between zero-order and multistep effects.. 1984 , 259, 14441-14447 | 160 |
| 4 ⁰⁸ | Cooperativity in highly aggregated enzyme systems. A slow transition model for the pyruvate dehydrogenase complex from <i>Escherichia coli</i> .. 1984 , 259, 2457-2465 | 12 |
| 4 ⁰⁷ | 5'-p-Fluorosulfonylbenzoyl guanosine as a probe for the GTP-binding protein in alpha 2-adrenergic receptor-adenylate cyclase systems.. 1983 , 258, 10289-10293 | 8 |
| 4 ⁰⁶ | Evidence that human platelet alpha-adrenergic receptors coupled to inhibition of adenylate cyclase are not associated with the subunit of adenylate cyclase ADP-ribosylated by cholera toxin.. 1982 , 257, 10471-10478 | 43 |
| 4 ⁰⁵ | Purification and properties of glycine N-methyltransferase from rat liver.. 1982 , 257, 3447-3452 | 74 |
| 4 ⁰⁴ | Allosteric regulation of yeast phosphofructokinase. Correlation between equilibrium binding, spectroscopic and kinetic data.. 1979 , 254, 7515-7520 | 29 |
| 4 ⁰³ | Crystallographic symmetry and coenzyme binding properties of D-glyceraldehyde-3-phosphate dehydrogenase from the tail muscle of <i>Palinurus vulgaris</i> .. 1979 , 254, 8004-8006 | 12 |
| 4 ⁰² | Rat liver glycine methyltransferase. Cooperative binding of S-adenosylmethionine and loss of cooperativity by removal of a short NH2-terminal segment.. 1988 , 263, 13381-13385 | 19 |
| 4 ⁰¹ | In situ cross-linking of human erythrocyte band 3 by bis(sulfosuccinimidyl)suberate. Evidence for ligand modulation of two alternate quaternary forms: covalent band 3 dimers and noncovalent tetramers formed by the association of two covalent dimers.. 1990 , 265, 17688-17693 | 40 |
| 4 ⁰⁰ | ATP sulfurylase from <i>Penicillium chrysogenum</i> . Molecular basis of the sigmoidal velocity curves induced by sulfhydryl group modification.. 1987 , 262, 16279-16288 | 21 |
| 399 | Acetate kinase from <i>Veillonella alcalescens</i> . Regulation by succinate and substrates.. 1979 , 254, 6698-6702 | 3 |

| | | |
|-----|--|-----|
| 398 | Calorimetry of alkaline phosphatase. Stability of the monomer and effect of metal ion and phosphate binding on dimer stability.. 1979 , 254, 5745-5753 | 23 |
| 397 | Positive cooperativity in guanosine 3':5'-monophosphate binding to guanosine 3':5'-monophosphate-dependent protein kinase.. 1979 , 254, 5083-5091 | 43 |
| 396 | Kinetic mechanism and regulation of ADP-glucose pyrophosphorylase from barley (<i>Hordeum vulgare</i>) leaves.. 1993 , 268, 6228-6233 | 56 |
| 395 | Allosteric inhibition of methylenetetrahydrofolate reductase by adenosylmethionine. Effects of adenosylmethionine and NADPH on the equilibrium between active and inactive forms of the enzyme and on the kinetics of approach to equilibrium.. 1987 , 262, 2485-2493 | 103 |
| 394 | Evidence for Multiple Thyroxine-binding Sites in Human Prealbumin. 1971 , 246, 6098-6105 | 49 |
| 393 | Multiple Molecular Forms of Uridine Diphosphate Glucose Pyrophosphorylase from <i>Salmonella typhimurium</i> . 1971 , 246, 4386-4396 | 24 |
| 392 | Kinetic Mechanism of Potato Phosphorylase. 1971 , 246, 3444-3450 | 26 |
| 391 | The Quaternary Structure of Proteins Composed of Identical Subunits. 1971 , 246, 3092-3102 | 51 |
| 390 | The Characterization of Chemically Modified Hemoglobins. 1971 , 246, 2602-2608 | 6 |
| 389 | Regulatory Mechanisms Involving Nicotinamide Adenine Nucleotides as Allosteric Effectors. 1971 , 246, 1689-1699 | 33 |
| 388 | Pyruvate Kinase of the Spore-forming Bacterium, <i>Bacillus licheniformis</i> . 1971 , 246, 1746-1755 | 32 |
| 387 | Purification and Properties of the Wild Type and a Feedback-resistant Phosphoribosyladenosine Triphosphate. 1971 , 246, 899-908 | 22 |
| 386 | Conformational Changes in Aspartate Transcarbamylase. 1971 , 246, 762-771 | 29 |
| 385 | The Influence of Binding Domains on the Nature of Subunit Interactions in Oligomeric Proteins. 1970 , 245, 6241-6250 | 41 |
| 384 | Kinetic Aspects of Regulation of Metabolic Processes. 1970 , 245, 5788-5799 | 465 |
| 383 | The Enzymology of Prephenate Dehydrogenase in <i>Bacillus subtilis</i> . 1970 , 245, 3763-3770 | 35 |
| 382 | The Kinetic Properties of Spinach Leaf Glyoxylic Acid Reductase. 1970 , 245, 3831-3839 | 28 |
| 381 | Some Kinetic Properties of Liver Pyruvate Kinase (Type L). 1970 , 245, 3901-3905 | 29 |

- 380 Crystallization and Properties of Phosphofructokinase from *Clostridium pasteurianum*. **1970**, 245, 3315-3324 49
- 379 Kinetic Mechanism of Rabbit Muscle Glycogen Phosphorylase a. **1970**, 245, 2564-2572 36
- 378 Deoxycytidine Kinase. **1970**, 245, 2285-2294 75
- 377 The Anthranilate Synthetase-Anthranilate 5-Phosphoribosylpyrophosphate Phosphoribosyltransferase Aggregate. **1970**, 245, 1416-1423 56
- 376 The Role of Cations in Yeast Phosphofructokinase Catalysis. **1970**, 245, 674-680 44
- 375 The Subunit Structure and Subunit Interactions of Cytidine Triphosphate Synthetase. **1970**, 245, 80-87 84
- 374 Allosteric Properties of Glutaraldehyde-modified Glycogen Phosphorylase b. **1970**, 245, 176-182 25
- 373 Adenosine Triphosphate: Uridine Monophosphate-Cytidine Monophosphate Phosphotransferase from *Tetrahymena pyriformis*. **1969**, 244, 5994-6002 17
- 372 Regulation of Mitochondrial Glutamic Dehydrogenase by Divalent Metals, Nucleotides, and β -Ketoglutarate. **1969**, 244, 5346-5356 34
- 371 Allosteric interactions between the ribosomal transfer RNA-binding sites A and E.. **1986**, 261, 9133-9139 67
- 370 Biosynthesis of Bacterial Glycogen. **1969**, 244, 2539-2548 30
- 369 Phosphoenolpyruvate Carboxylase of *Salmonella*. **1969**, 244, 2549-2557 32
- 368 Lactate Dehydrogenase of Lobster (*Homarus americanus*) Tail Muscle. **1969**, 244, 2902-2910 20
- 367 Malic Enzyme of *Escherichia coli*. **1969**, 244, 1824-1830 32
- 366 Regulatory Mechanisms Involving Nicotinamide Adenine Nucleotides as Allosteric Effectors. **1969**, 244, 1838-1845 24
- 365 Effects of Feedback Modifiers on Mutationally Altered Threonine Deaminases of *Rhodospseudomonas spheroides*. **1969**, 244, 858-864 11
- 364 Some Kinetic Properties of Liver Pyruvate Kinase (Type L). **1969**, 244, 3142-3147 78
- 363 Regulatory Properties and Subunit Structure of Chick Embryo Deoxycytidylate Deaminase. **1968**, 243, 4506-4512 38

| | | |
|-----|---|-----|
| 362 | Adenylate Deaminase. 1968 , 243, 3409-3415 | 33 |
| 361 | Allosteric Interactions of a Regulatory Nicotinamide Adenine Dinucleotide-specific Glutamate Dehydrogenase from <i>Blastocladiella</i> . 1968 , 243, 3447-3457 | 59 |
| 360 | Studies of Parameters Affecting the Allosteric Nature of Phosphoenolpyruvate Carboxylase of <i>Escherichia coli</i> . 1968 , 243, 3517-3525 | 65 |
| 359 | Conformational Changes in Aspartate Transcarbamylase. 1968 , 243, 2855-2862 | 51 |
| 358 | Studies on Heart Phosphofructokinase. 1968 , 243, 2523-2533 | 60 |
| 357 | Role of Enzyme-Enzyme Interactions in the Regulation of Glycolysis. 1968 , 243, 2710-2717 | 12 |
| 356 | The Mechanism of End Product Inhibition of Serine Biosynthesis. 1968 , 243, 2081-2089 | 101 |
| 355 | The Mechanism of End Product Inhibition of Serine Biosynthesis. 1968 , 243, 2090-2098 | 52 |
| 354 | The Mechanism of End Product Inhibition of Serine Biosynthesis. 1968 , 243, 2099-2107 | 36 |
| 353 | Biosynthesis of Bacterial Glycogen. 1968 , 243, 5882-5891 | 46 |
| 352 | Treatment of Enzyme Kinetic Data. 1967 , 242, 4045-4052 | 122 |
| 351 | Models for Cooperative Effects in Proteins Containing Subunits. 1967 , 242, 4192-4205 | 72 |
| 350 | Studies on the Chemistry of Hemoglobin. 1967 , 242, 3694-3703 | 40 |
| 349 | Studies on the Chemistry of Hemoglobin. 1967 , 242, 3704-3712 | 36 |
| 348 | Allosteric Properties of Phosphorylase b. 1967 , 242, 3301-3307 | 92 |
| 347 | Molecular Sieve Studies of Interacting Protein Systems. 1967 , 242, 3026-3034 | 58 |
| 346 | Allosteric Activation of Sheep Kidney Pyruvate Carboxylase by the Magnesium Ion (Mg^{2+}) and the Magnesium Adenosine Triphosphate Ion ($MgATP^{2-}$). 1967 , 242, 1983-1987 | 46 |
| 345 | Adenylate Deaminase. 1967 , 242, 607-615 | 97 |

| | | |
|-----|---|-----|
| 344 | The Regulation of Pyruvate Kinase of Escherichia coli by Fructose Diphosphate and Adenylic Acid. 1968 , 243, 448-450 | 63 |
| 343 | Multivalent Feedback Inhibition of Aspartokinase in Bacillus polymyxa. 1967 , 242, 4980-4986 | 37 |
| 342 | Threonine Deaminase of Clostridium tetanomorphum. 1966 , 241, 4881-4889 | 34 |
| 341 | Threonine Deaminase of Clostridium tetanomorphum. 1966 , 241, 4890-4898 | 24 |
| 340 | Adenosine Diphosphate Glucose Pyrophosphorylase. 1966 , 241, 4491-4504 | 208 |
| 339 | The Activation of Muscle Adenylate Deaminase by Substrate. 1971 , 246, 6631-6637 | 14 |
| 338 | Affinity labeling of the allosteric activator site(s) of spinach leaf ADP-glucose pyrophosphorylase.. 1988 , 263, 633-637 | 57 |
| 337 | Glycogen phosphorylase. The structural basis of the allosteric response and comparison with other allosteric proteins.. 1990 , 265, 2409-2412 | 56 |
| 336 | On the role of substrate and GTP in the regulation of argininosuccinase activity.. 1975 , 250, 7225-7230 | 12 |
| 335 | pH dependence of the cooperative interactions and conformation of tryptophan oxygenase. 1975 , 250, 6208-6213 | 5 |
| 334 | Determination of the pK values for the alpha-amino groups of human hemoglobin.. 1975 , 250, 4398-4404 | 76 |
| 333 | Kinetic and equilibrium studies on the activation of Escherichia coli K12 tryptophanase by pyridoxal 5'-phosphate and monovalent cations.. 1975 , 250, 3352-3358 | 31 |
| 332 | Subunit interactions in aspartate transcarbamylase. A model for the allosteric mechanism. 1975 , 250, 668-674 | 23 |
| 331 | Rotational Correlation Time of Concanavalin A after Interaction with a Fluorescent Probe. 1974 , 249, 7018-7023 | 28 |
| 330 | Heme-Spin Label Studies of Hemoglobin. 1974 , 249, 4504-4509 | 27 |
| 329 | Kinetics of Oxygen Binding to Human Hemoglobin. 1974 , 249, 2959-2973 | 33 |
| 328 | Cat Hemoglobin. 1974 , 249, 1323-1329 | 21 |
| 327 | The Mechanism of End Product Inhibition of Serine Biosynthesis. 1974 , 249, 1348-1355 | 20 |

| | | |
|-----|--|-----|
| 326 | Chicken Liver Phosphofructokinase. 1974 , 249, 1490-1496 | 20 |
| 325 | Evidence for Interdependent Action of Glucagon and Nucleotides on the Hepatic Adenylate Cyclase System. 1974 , 249, 59-65 | 176 |
| 324 | Cooperative Interactions in the Binding of Allosteric Effectors to Phosphoenolpyruvate Carboxylase. 1974 , 249, 182-190 | 16 |
| 323 | The Mechanism of Action of 5?-Adenylic Acid-activated Threonine Dehydrase. 1973 , 248, 8189-8199 | 18 |
| 322 | The Mechanism of Action of 5?-Adenylic Acid-activated Threonine Dehydrase. 1973 , 248, 8200-8206 | 22 |
| 321 | Treatment of Enzyme Kinetic Data. 1973 , 248, 7878-7884 | 28 |
| 320 | Catalytic and Allosteric Properties of Glycerol Kinase from Escherichia coli. 1973 , 248, 3922-3932 | 65 |
| 319 | Biosynthesis of Bacterial Glycogen. 1973 , 248, 1731-1740 | 53 |
| 318 | Separate Phosphodiesterases for the Hydrolysis of Cyclic Adenosine 3',5'-Monophosphate and Cyclic Guanosine 3',5'-Monophosphate in Rat Liver. 1973 , 248, 1334-1340 | 178 |
| 317 | Sodium-Potassium-activated Adenosine Triphosphatase of Electrophorus Electric Organ. 1973 , 248, 777-784 | 31 |
| 316 | The Mechanism of Escherichia coli Deoxyribonucleic Acid Polymerase I. 1972 , 247, 6784-6794 | 81 |
| 315 | Transients and Cooperativity. 1972 , 247, 7088-7096 | 186 |
| 314 | Ligand Binding and Release of an Analogue of 2,3-Diphosphoglycerate from Human Hemoglobin. 1972 , 247, 5686-5694 | 71 |
| 313 | Phosphoenolpyruvate Carboxylase of Escherichia coli. 1972 , 247, 5785-5792 | 35 |
| 312 | Anthranilate Synthetase from Serratia marcescens. 1972 , 247, 5996-6003 | 9 |
| 311 | Conformational Changes in Aspartate Transcarbamylase. 1972 , 247, 3829-3837 | 13 |
| 310 | Kinetic and Molecular Properties of Lysine-sensitive Aspartokinase. 1972 , 247, 2433-2438 | 10 |
| 309 | Structure-Function Studies on Glyceraldehyde 3-Phosphate Dehydrogenase. 1972 , 247, 1074-1079 | 23 |

| | | |
|-----|---|-----|
| 308 | β-isopropylmalate Synthase from Salmonella typhimurium. 1972 , 247, 1089-1095 | 23 |
| 307 | T2r+ Bacteriophage-induced Enzymes. 1972 , 247, 940-945 | 17 |
| 306 | Allosteric Properties of Skeletal Muscle Pyruvate Kinase. 1971 , 246, 7284-7288 | 67 |
| 305 | Oxygen equilibrium studies of cross-linked iron-cobalt hybrid hemoglobins. Models for partially ligated intermediates of cobalt hemoglobin.. 1993 , 268, 23031-23040 | 10 |
| 304 | Global conformational changes in allosteric proteins. A study of Escherichia coli cAMP receptor protein and muscle pyruvate kinase.. 1992 , 267, 3200-3204 | 32 |
| 303 | ATP induces non-identity of two rings in chaperonin GroEL.. 1994 , 269, 23869-23871 | 25 |
| 302 | Biosynthesis of bacterial glycogen. Characterization of the subunit structure of Escherichia coli B glucose-1-phosphate adenylyltransferase (EC 2.7.7.27). 1976 , 251, 7880-7885 | 60 |
| 301 | Biosynthesis of bacterial glycogen. Activator-induced oligomerization of a mutant Escherichia coli ADP-glucose synthase. 1976 , 251, 7886-7892 | 16 |
| 300 | Functional Aspects of the Subunit Association-Dissociation Equilibria of Hemoglobin. 1970 , 245, 4372-4381 | 134 |
| 299 | The structure of partially oxygenated hemoglobin. A highly reactive intermediate toward a sulfhydryl titrant.. 1982 , 257, 163-168 | 12 |
| 298 | Kinetics of aspartate transcarbamylase from Escherichia coli for the reverse direction of reaction.. 1981 , 256, 11428-11433 | 24 |
| 297 | Steady state kinetics of erythrocyte anion exchange. Evidence for site-site interactions.. 1981 , 256, 11080-11088 | 58 |
| 296 | Relationship between reversible antagonist occupancy and the functional capacity of the acetylcholine receptor.. 1981 , 256, 6692-6699 | 102 |
| 295 | Calorimetric estimate of the enthalpy change for the substrate-promoted conformational transition of aspartate transcarbamoylase from Escherichia coli.. 1981 , 256, 5005-5015 | 20 |
| 294 | Kinetic evidence for a two-state, hybrid model for the trypsin activation by modifiers.. 1981 , 256, 1661-1668 | 11 |
| 293 | Conformational studies of hemoglobins using intrinsic fluorescence measurements.. 1981 , 256, 1080-1083 | 47 |
| 292 | Equilibrium binding of inducer to lac repressor-operator DNA complex.. 1980 , 255, 10107-10114 | 63 |
| 291 | The relationship between agonist occupation and the permeability response of the cholinergic receptor revealed by bound cobra alpha-toxin.. 1980 , 255, 10144-10156 | 89 |

| | | |
|-----|--|-----|
| 290 | The role of tryptophan in aspartate transcarbamylase.. 1980 , 255, 5154-5158 | 13 |
| 289 | Membrane potential-dependent binding of scorpion toxin to the action potential Na ⁺ ionophore. Studies with a toxin derivative prepared by lactoperoxidase-catalyzed iodination. 1977 , 252, 8660-8668 | 156 |
| 288 | Activation of the action potential Na ⁺ ionophore by neurotoxins. An allosteric model. 1977 , 252, 8669-8676 | 175 |
| 287 | Evidence for self-association of prothrombin fragment 1 in the absence of calcium ions. Implications for the interpretation of cooperativity of calcium binding.. 1987 , 262, 13472-13475 | 7 |
| 286 | Threonine Deaminase from <i>Bacillus subtilis</i> . 1970 , 245, 1742-1747 | 51 |
| 285 | Conformational Changes in Aspartate Transcarbamylase. 1969 , 244, 36-42 | 28 |
| 284 | A Simple Method for Derivation of Rate Equations for Enzyme-catalyzed Reactions under the Rapid Equilibrium Assumption or Combined Assumptions of Equilibrium and Steady State. 1968 , 243, 820-825 | 234 |
| 283 | Substrate activation of phenylalanine hydroxylase. A kinetic characterization.. 1980 , 255, 4793-4800 | 104 |
| 282 | Equilibrium and kinetic studies of the association of catalytic and regulatory subunits of aspartate transcarbamoylase.. 1980 , 255, 1962-1970 | 18 |
| 281 | Allosteric control by calcium and mechanism of desensitization of phosphoenolpyruvate carboxykinase of <i>Escherichia coli</i> .. 1980 , 255, 1399-1405 | 42 |
| 280 | Comparative study of oxygen and carbon monoxide binding by hemoglobin.. 1980 , 255, 1617-1622 | 8 |
| 279 | <i>Escherichia coli</i> phosphoenolpyruvate carboxylase. Studies on the mechanism of synergistic activation by nucleotides.. 1980 , 255, 1635-1642 | 9 |
| 278 | Kinetic studies of crystalline enzymes by single crystal microspectrophotometry. Analysis of a single catalytic turnover in a D-glyceraldehyde-3-phosphate dehydrogenase crystal.. 1979 , 254, 8480-8486 | 20 |
| 277 | Characterization of skeletal muscle calsequestrin by ¹ H NMR spectroscopy.. 1984 , 259, 11876-11881 | 36 |
| 276 | Regulation through phosphorylation/dephosphorylation cascade systems.. 1984 , 259, 12252-12259 | 53 |
| 275 | Regulatory Properties of Hepatic Tryptophan Oxygenase. 1972 , 247, 5333-5337 | 40 |
| 274 | Kinetic Evidence for an Induced Fit Mechanism in the Binding of the Substrate Camphor by Cytochrome P450. 2021 , 11, 639-649 | 5 |
| 273 | Roles of active-site residues in catalysis, substrate binding, cooperativity, and the reaction mechanism of the quinoprotein glycine oxidase. 2020 , 295, 6472-6481 | 1 |

| | | |
|-----|--|-----|
| 272 | Supertertiary protein structure affects an allosteric network. | 1 |
| 271 | Allostery through DNA drives phenotype switching. | 1 |
| 270 | Allosteric conformational ensembles have unlimited capacity for integrating information. | 1 |
| 269 | 7-Transmembrane Helical (7TMH) Proteins: Pseudo-Symmetry and Conformational Plasticity. | 1 |
| 268 | Pyrimidine metabolism in microorganisms. 1970 , 34, 278-343 | 277 |
| 267 | Autotrophic CO ₂ assimilation and the evolution of ribulose diphosphate carboxylase. 1973 , 37, 289-319 | 67 |
| 266 | Purification and regulatory properties of pyruvate kinase from <i>Veillonella parvula</i> . 1975 , 122, 1274-82 | 15 |
| 265 | D-Lactate dehydrogenase of <i>Peptostreptococcus elsdenii</i> . 1975 , 124, 1454-61 | 28 |
| 264 | Kinetic properties of <i>Serratia marcescens</i> adenosine 5'-diphosphate glucose pyrophosphorylase. 1976 , 127, 193-203 | 10 |
| 263 | A Theorem and Proposal to Detect Directly Asymmetric Conformation in an Allosteric Protein Solution. 1974 , 36, 532-536 | 1 |
| 262 | Control of Enzyme Activity. 2015 , 141-169 | 1 |
| 261 | RNA and Proteins: Mutual Respect. 2017 , 6, 345 | 6 |
| 260 | Allosteric communication across the native and mutated KIT receptor tyrosine kinase. 2012 , 8, e1002661 | 45 |
| 259 | Structure-Based Statistical Mechanical Model Accounts for the Causality and Energetics of Allosteric Communication. 2016 , 12, e1004678 | 76 |
| 258 | Rigid Residue Scan Simulations Systematically Reveal Residue Entropic Roles in Protein Allostery. 2016 , 12, e1004893 | 22 |
| 257 | Long-Range Signaling in MutS and MSH Homologs via Switching of Dynamic Communication Pathways. 2016 , 12, e1005159 | 6 |
| 256 | Conformational diversity analysis reveals three functional mechanisms in proteins. 2017 , 13, e1005398 | 28 |
| 255 | Discovery of intramolecular signal transduction network based on a new protein dynamics model of energy dissipation. 2012 , 7, e31529 | 9 |

| | | |
|-----|--|----|
| 254 | A linear framework for time-scale separation in nonlinear biochemical systems. 2012 , 7, e36321 | 74 |
| 253 | Reaction trajectory revealed by a joint analysis of protein data bank. 2013 , 8, e77141 | 10 |
| 252 | Reverse engineering the cooperative machinery of human hemoglobin. 2013 , 8, e77363 | 6 |
| 251 | Does metabolite channeling accelerate enzyme-catalyzed cascade reactions?. 2017 , 12, e0172673 | 34 |
| 250 | Dissimilar flexibility of α and β subunits of human adult hemoglobin influences the protein dynamics and its alteration induced by allosteric effectors. 2018 , 13, e0194994 | 2 |
| 249 | Fractional Cooperativity of a Few-State System in the Environment. 2015 , 60, 1163-1176 | 2 |
| 248 | Photoaffinity labeling of the N-methyltransferase domains of cyclosporin synthetase. 2003 , 77, 129-37 | 7 |
| 247 | Understanding the mechanism of binding between Gab2 and the C terminal SH3 domain from Grb2. 2017 , 8, 82344-82351 | 7 |
| 246 | Molecular Mechanism of Allostery: MWC or KNF Model?-Approach by Theoretical Model Calculation. 2009 , 49, 132-134 | 0 |
| 245 | Recapturing the Correlated Motions of Protein Using Coarse- Grained Models. 2015 , 22, 654-9 | 2 |
| 244 | Fungal Biotransformation: An Efficient Approach for Stereoselective Chemical Reactions. 2020 , 24, 2902-2953 | 2 |
| 243 | On the Measurement of Cooperativity and the Physico-Chemical Meaning of the Hill Coefficient. 2019 , 20, 861-872 | 3 |
| 242 | MORPHEEINS - A NEW PATHWAY FOR ALLOSTERIC DRUG DISCOVERY. 2010 , 1, 1-6 | 12 |
| 241 | Integrated Computational Approaches and Tools forAllosteric Drug Discovery. 2020 , 21, | 41 |
| 240 | Ligand discrimination and gating in cyclic nucleotide-gated ion channels from apo and partial agonist-bound cryo-EM structures. 2018 , 7, | 28 |
| 239 | The allosteric activation of cGAS underpins its dynamic signaling landscape. 2018 , 7, | 35 |
| 238 | Nicotinic receptors: From protein allostery to computational neuropharmacology. 2021 , 84, 101044 | 1 |
| 237 | How Macromolecules Associate. 2001 , 325-377 | |

- 236 Proteinfunktion. **2001**, 213-255
- 235 Kinetics of Multi-Enzyme Systems. **2001**, 121-136 2
- 234 Hemoglobin.
- 233 Aminosäuren, Peptide und Proteine. **2003**, 65-103
- 232 Allosteric Enzymes. **2004**, 31-38
- 231 Apo- and Holo-structures of 3-Hydroxysteroid Dehydrogenase from Pseudomonas sp. B-0831. **2006**, 281, 31876-31884 2
- 230 Enzyme Activity: Allosteric Regulation.
- 229 An Interest in Chemotaxis, Not Jeans: the Work of Daniel E. Koshland. **2007**, 282, e29-e31
- 228 Extreme pH Sensitivity in the Binding of Oxygen to Some Fish Hemoglobins: The Root Effect. **2008**, 219-234
- 227 Reaction, Diffusion and Dimensionality. **2008**, 123-146
- 226 Protein Structures and Structure-Based Rational Drug Design. **2008**, 117-137
- 225 Enzyme Catalysis.
- 224 The E. coli GroE Chaperone.
- 223 Energy utilization for control. **1975**, 369-92
- 222 Nuclear magnetic resonance studies of macromolecules with fluorine nuclei as probes. **1971**, 2, 239-79
- 221 The chemical properties of out-of-equilibrium states of proteins and the role of these states in protein functioning. **1977**, 47-54
- 220 Principles and Kinetics of Biological Processes. **2009**, 1-57
- 219 Single Molecule Measurement, a Tool for Exploring the Dynamic Mechanism of Biomolecules. **2010**, 219-236

218 Control and Energetics. **2010**, 223-253

217 Stochastic-Process Approach to Nonequilibrium Thermodynamics and Biological Signal Transduction. **2010**, 61-81

216 Noisy Signal Transduction in Cellular Systems. **2011**, 297-324

215 Single-Channel Structure-Function Dynamics: The Gating of Potassium Channels. **2011**, 79-105

214 Proteinfunktion. **2011**, 201-241

213 Hemoglobin Reactivity and Regulation. 9-22

1

212 Molecular Basis of Allosteric Transitions: GroEL. **2012**, 79-86

211 Single-Molecular Gating Dynamics for the KcsA Potassium Channel. 147-193

2

210 Biochemistry of Hemoglobin. **2013**, 55-73

1

209 Pharmacology of Detrusor Activity. **2013**, 133-146

208 Molecular Life Sciences. **2014**, 1-7

207 Allosteric Enzymes. **2014**, 59-71

1

206 Chemical Relaxation in Liquid Systems. **1968**, 1069-1108

205 Kinetik schneller Reaktionen in Lösung und chemische Relaxation. **1968**, 417-457

1

204 Metabolic Interconversions of Enzymes: Relation to the Hysteretic Response. **1972**, 391-400

203 Metabolic Interconversions of Enzymes: Relation to the Hysteretic Response. **1972**, 391-404

202 OBSERVATION OF ALLOSTERIC TRANSITION IN HEMOGLOBIN. **1972**, 129-131

1

201 SUBUNIT INTERACTIONS IN ALLOSTERIC CONTROL. **1972**, 139-148

- 200 Regulation of L-Threonine Dehydrase Via Ligand-Induced Oligomerization. **1974**, 349-360
- 199 Regulation of Enzymatic Activity by Hormones. **1974**, 295-309
- 198 On the Role of the Conformation Changes at the Active Site for Allosteric Interactions. **1975**, 127-135
- 197 Enzyme. **1975**, 177-248
- 196 Chemical Relaxation in Liquid Systems. **1975**, 1069-1108
- 195 Cooperative Regulation of Hormone Binding Affinity for Cell Surface Receptors. **1976**, 215-226
- 194 Chemical Relaxation in Complex Systems. **1976**, 158-177
- 193 Biochemical and Molecular Characteristics of β Adrenergic Receptor Binding Sites. **1976**, 387-404
- 192 Binding of Ligands to Receptors: Theory. **1976**, 19-41
- 191 References. **1976**, 194-197
- 190 Calcium Binding and Cardiac Myofibril Activation. **1977**, 80-89
- 189 The Kinetics of Allosteric Enzymes. **1977**, 202-244 1
- 188 Cooperative Properties of Enzymes. **1977**, 415-481 1
- 187 Enzyme Kinetics. **1978**, 31-41
- 186 Structure of Enzymes. **1978**, 3-19
- 185 The Oxygenation of Hemoglobin. **1978**, 153-203 1
- 184 Problems and Approaches in Noncatalytic Biochemistry. **1979**, 311-335
- 183 Einführung in die Enzyme. **1979**, 77-101

182 Grundlagen des Intermediärstoffwechsels. **1979**, 289-304

181 Allgemeine Charakterisierung der Enzyme. **1979**, 29-107

180 Enzyme Flexibility as a Molecular Basis for Metabolic Control. **1980**, 31-80

179 Regulation of Enzyme Activity. **1980**, 1-42

178 RESPIRATORY PROTEINS: MOLECULAR INTERFACES BETWEEN THE ORGANISM AND ITS ENVIRONMENT. **1980**, 157-170

177 Principles of the Regulation of Enzyme Activity. **1980**, 203-297

176 Kinetics and Thermodynamics of Enzyme Action and Regulation. **1980**, 207-220

175 Kinetics of Oxygen Binding to Hemoglobin: Theory. **1980**, 71-91

174 Kinetic aspects of soluble dehydrogenases requiring nicotinamide coenzymes. **1980**, 36, 1-39

2

173 Conformational and Configurational Changes of Biopolymers. **1981**, 49-91

172 Chemotaxis Signalaufnahme und Respons einzelliger Lebewesen. **1982**, 25-62

171 The Two-State Model of Hemoglobin. **1982**, 205-209

170 Protein Folding - Pages 522-556. **1982**, 522-556

169 Intracellular Receptors. **1984**, 99-127

168 REFERENCES. **1984**, 230-294

167 Mikrobielles Wachstum als Abbild des Konformationsgleichgewichts eines wachstumbestimmenden oligomeren Proteins. **1984**, 24, 289-303

166 Patterns of Nonequilibrium Sensitivity in Biological Systems. **1984**, 214-222

1

165 Immunochemical evidence for extensive ligand-induced conformational changes in *Lactobacillus casei* dihydrofolate reductase.. **1984**, 259, 1082-1085

1

- 164 Grundlagen des Intermedi stoffwechsels. **1985**, 289-304
- 163 Complex Binding Phenomena. **1986**, 97-131
- 162 Bibliography. **1986**, 463-477
- 161 Analysis of Enzymatic Reactions in Closed System. **1986**, 89-163
- 160 A Cooperative Model for Ligand Binding as Applied to Oxygen Carriers. **1986**, 375-381 1
- 159 Catalytic-regulatory subunit interactions and allosteric effects in aspartate transcarbamylase.. **1987**, 262, 312-318 11
- 158 Die Enzyme  ine Einf rung. **1987**, 81-104
- 157 Introduction: A History of the Biochemistry of Plant Respiration. **1987**, 1-38
- 156 Escherichia Coli Aspartate Transcarbamylase: The Relationship Between Structure and Function. **1989**, 35-48
- 155 Sp1 can displace GHF-1 from its distal binding site and stimulate transcription from the growth hormone gene promoter. **1990**, 10, 1811-1814 13
- 154 Mathematical analysis of enzymic reaction systems using optimization principles. **1991**, 167-187 2
- 153 Simple Systems with Interactions. **1992**, 105-189
- 152 Evidence for two conformers of the beta subunit of tryptophan synthase in solution. **1992**, 267, 23309-23317 4
- 151 Anhang. **1995**, 697-713
- 150 Recollections: Vacillation of a Classical Enzymologist. **1995**, 163-191
- 149 R ntgenstrahlen in der Biochemie. **1995**, 402-426
- 148 Friends and Neighbors  interactions in a System: Phase Equilibria. **1998**, 228-248
- 147 What Can NMR Tell Us about Protein Motions?. **1998**, 103-128

- 146 Receptor and Nonreceptor Membrane-Mediated Effects of THC and Cannabinoids. **1999**, 781-805 3
- 145 The General Modifier Mechanism. **2015**, 65-125
- 144 Web-based Computational Tools Used in Protein Surface Analysis and Characterization. Applications for Protein-Protein and Protein-Ligand Interactions. **2015**, 203-227
- 143 The Deviations from Classical Kinetics Determined by Multitude of Binding Sites. **2015**, 111-128
- 142 Illuminating allosteric conformational change with an environmentally sensitive fluorescent probe. **2015**, 2015, c1-4
- 141 Multi-Electron Transfer in Biological Systems. **2015**, 1-34
- 140 Prediction of allosteric sites and mediating interactions through bond-to-bond propensities.
- 139 Development and Application of Equilibrium Thermodynamic Models Describing Coupled Protein Oligomerization and Ligand Binding.
- 138 Entropy Transfer between Residue Pairs Shows that Allostery is an Intrinsic Property of Proteins: Quantifying Allosteric Communication in Ubiquitin. 0
- 137 Gating Dynamics of the Potassium Channel Pore ?. **2017**, 1
- 136 Monod-Wyman-Changeux Analysis of Ligand-Gated Ion Channel Mutants.
- 135 Pharmacology of Gastric Dysmotility. **2017**, 163-172
- 134 Theoretical Analysis of Inducer and Operator Binding for Cyclic-AMP Receptor Protein Mutants.
- 133 Molecular Life Sciences. **2018**, 3-8
- 132 Enzymkinetik. **2018**, 1-44
- 131 Structure and Function of Protein. **2018**, 71-80
- 130 Probing Protein Allostery as a Residue-specific Concept via Residue Perturbation Maps.
- 129 Single molecule imaging reveals the concerted release of myosin from regulated thin filaments.

- 128 Allosteric and cooperativity in multimeric proteins: bond-to-bond propensities in ATCase.
- 127 A comprehensive ensemble model for comparing the allosteric effect of ordered and disordered proteins. 2
- 126 Towards comprehensive allosteric control over protein activity. 1
- 125 Concestor kinase activation mechanism uncovers the cyclin dependence of CDK family kinases.
- 124 Novel Strategies Targeting G-Protein-Coupled Receptors: An Overview. 1-9
- 123 Progress in Allosteric Database. **2019**, 1163, 65-87 3
- 122 Intramolecular Communication and Allosteric Sites in Enzymes Unraveled by Time-Dependent Linear Response Theory. 1
- 121 Mechanics of allostery: contrasting the induced fit and population shift scenarios. 0
- 120 Residue-Level Allostery Propagates Through the Effective Coarse-Grained Hessian.
- 119 Information propagation in time through allosteric signaling. **2020**, 2,
- 118 On Allosteric Models. **1973**, 207-223
- 117 Activation of carbamoyl phosphate synthetase by cryoprotectants. **1983**, 279-298
- 116 References. **1983**, 209-229
- 115 Hemoglobin Oxygen Binding, Erythrocyte Shape Transformations, and Modeling of Cell Differentiation as Examples of Theoretical Approaches in Studying the Structure-Function Relationship in Biological Systems. **1983**, 275-308
- 114 The nature of the allosteric transition. **1983**, 89-94
- 113 Conformational Fluctuations and Enzymatic Activity. **1983**, 271-282
- 112 A HEURISTIC APPROACH TO MATHEMATICAL MODELS OF BLOOD OXYGEN DISSOCIATION. **1983**, 149-152
- 111 Potential allosteric sites captured in glycolytic enzymes via residue-based network models: Phosphofructokinase, glyceraldehyde-3-phosphate dehydrogenase and pyruvate kinase. **2022**, 280, 106701 2

| | | |
|-----|--|----|
| 110 | The allosteric control mechanism of bacterial glycogen biosynthesis disclosed by cryoEM. | |
| 109 | Mechanism-based enzyme activating compounds. | 0 |
| 108 | Modeling Catalysis in Allosteric Enzymes: Capturing Conformational Consequences. 1 | 2 |
| 107 | Structural analysis of a novel substrate-free form of the aminoglycoside 6'-N-acetyltransferase from <i>Enterococcus faecium</i> . 2020 , 76, 364-371 | |
| 106 | Saturation of Hemoglobin with Oxygen at Equilibrium. 2002 , 37-64 | |
| 105 | Ligand-Gated Ion Channels: Permeation and Activation1. 2007 , 335-367 | |
| 104 | References for 2. 2028-2029 | |
| 103 | Aminosäuren, Peptide und Proteine. 2005 , 61-98 | |
| 102 | Hybrid Dynamic/Static Method for Large-Scale Simulation of Metabolism and its Implementation to the E-CELL System. 2005 , 221-232 | |
| 101 | Consistent Mechanisms for Diverse Protein-based Machines: The Efficient Comprehensive Hydrophobic Effect. 2006 , 102-217 | |
| 100 | Synchronous and Asynchronous Response in Dynamically Perturbed Proteins. | |
| 99 | Double-headed protease inhibitors from black-eyed peas. V. Analysis of the energetics of protease-inhibitor interactions.. 1976 , 251, 763-768 | 3 |
| 98 | Mitochondrial aspartate aminotransferase-independent function of the catalytic binding sites.. 1975 , 250, 5604-5608 | 27 |
| 97 | The Effect of 2,3-Diphosphoglyceric Acid on the Changes in H ₂ O Interactions in Hemoglobin during Oxygenation. 1971 , 246, 7790-7793 | 13 |
| 96 | Intermediate filaments from Chinese hamster ovary cells contain a single protein. Comparison with more complex systems from baby hamster kidney and mouse epidermal cells.. 1981 , 256, 1428-1431 | 16 |
| 95 | APPENDIX. 1970 , 245, 1753-1754 | 5 |
| 94 | Purification and characterization of solubilized peroxygenase from microsomes of pea seeds.. 1979 , 254, 8427-8433 | 4 |
| 93 | The cooperative binding of fructose-1,6-bisphosphate to yeast pyruvate kinase. 1992 , 11, 3811-4 | 7 |

| | | |
|----|--|---|
| 92 | Study of Functional and Allosteric Sites in Protein Superfamilies. 2015 , 7, 34-45 | 8 |
| 91 | CASBench: A Benchmarking Set of Proteins with Annotated Catalytic and Allosteric Sites in Their Structures. 2019 , 11, 74-80 | 1 |
| 90 | From hemoglobin allostery to hemoglobin-based oxygen carriers. 2021 , 101050 | 2 |
| 89 | Common cardiac medications potently inhibit ACE2 binding to the SARS-CoV-2 Spike, and block virus penetration and infectivity in human lung cells. 2021 , 11, 22195 | 1 |
| 88 | Ligand-induced changes in dynamics mediate long-range allostery in the lac repressor. | 0 |
| 87 | Kinetic studies on the mechanism of the relative catalytic activities of surfactants in the oxidation of amino-acids by chloramine-T. 1994 , 106, 887-891 | 1 |
| 86 | Large Chaperone Complexes Through the Lens of Nuclear Magnetic Resonance Spectroscopy.. 2022 , | 1 |
| 85 | Structural-Energetic Basis for Coupling between Equilibrium Fluctuations and Phosphorylation in a Protein Native Ensemble.. 2022 , 8, 282-293 | 1 |
| 84 | The Inherent Coupling of Intrinsically Disordered Regions in the Multidomain Receptor Tyrosine Kinase KIT.. 2022 , 23, | 2 |
| 83 | Lipase-catalyzed esterification in water enabled by nanomicelles. Applications to 1-pot multi-step sequences.. 2022 , 13, 1440-1445 | 7 |
| 82 | Chaperonin Mechanisms: Multiple and (Mis)Understood?. 2022 , | 1 |
| 81 | Elucidating the mechanisms underlying protein conformational switching using NMR spectroscopy.. 2022 , 10-11, 100034 | 0 |
| 80 | Hypoxanthine-guanine phosphoribosyltransferase is activated via positive cooperativity between guanine and IMP.. 2022 , | 0 |
| 79 | Allosteric Modulation of Adenosine A Receptors as a New Therapeutic Avenue.. 2022 , 23, | 3 |
| 78 | Molecular snapshots of drug release from tubulin over eleven orders of magnitude in time. | 1 |
| 77 | Emerging Methods and Applications to Decrypt Allostery in Proteins and Nucleic Acids.. 2022 , 167518 | 1 |
| 76 | Allosteric differences dictate GroEL complementation of E. coli.. 2022 , 36, e22198 | 0 |
| 75 | Development of the Sequential Binding Model and Application for Anticooperative Protein Adsorption onto Charged Dendrimers.. 2022 , | 0 |

| | | |
|----|--|---|
| 74 | From Distinct to Differential Conformational Dynamics to Map Allosteric Communication Pathways in Proteins.. 2022 , | 0 |
| 73 | Mechanism of homotropic cooperativity from nearest-neighbor statistical thermodynamic modelling and native mass spectrometry of ring-shaped homo-oligomeric ligand binding proteins. | |
| 72 | Allosteric transitions of rabbit skeletal muscle lactate dehydrogenase induced by pH-dependent dissociation of the tetrameric enzyme.. 2022 , | 1 |
| 71 | Partitioning the Hill coefficient into contributions from ligand-promoted conformational changes and subunit heterogeneity.. 2022 , 31, e4298 | 0 |
| 70 | An Analysis of Models of Cooperative Oxygen Binding by Hemoglobin. 2021 , 66, 905-912 | 1 |
| 69 | Hidden allosteric sites and De-Novo drug design.. 2021 , 1-13 | 1 |
| 68 | Allosteric Inhibition of ATP Phosphoribosyltransferase by Protein:Dipeptide and Protein:Protein Interactions.. 2021 , | 0 |
| 67 | Entropy in the Molecular Recognition of Membrane Protein-Lipid Interactions.. 2021 , 12, 12218-12224 | 3 |
| 66 | Structural origin of cooperativity in human hemoglobin: a view from different roles of α and β subunits in the tetramer.. 2022 , 14, 483-498 | 0 |
| 65 | Liquid-liquid phase separation as an organizing principle of intracellular space: overview of the evolution of the cell compartmentalization concept.. 2022 , 79, 251 | 9 |
| 64 | High-Throughput Native Mass Spectrometry Screening in Drug Discovery.. 2022 , 9, 837901 | 3 |
| 63 | CHAPTER 6. A Unifying Approach to the Duality of Energetic Versus Conformational Formulations of Allosteric Coupling: Mechanistic Implications for GPCR Allostery. 131-155 | |
| 62 | Data_Sheet_1.PDF. 2020 , | |
| 61 | Data_Sheet_1.pdf. 2020 , | |
| 60 | Table_1.DOCX. 2020 , | |
| 59 | Image1.pdf. 2018 , | |
| 58 | The Origin of Kinetic Cooperativity in Prebiotic Catalysts. 1996 , 43, 315-325 | |
| 57 | Structures of oxygen dissociation intermediates of 400 kDa V2 hemoglobin provide coarse snapshots of the protein allostery. 2022 , | |

- 56 Micellar inhibited hydrolysis of esters—evaluation of binding constant and cooperativity index. **1984**, 93, 1
- 55 On the Emergence of Single Versus Multi-State Allostery. 0
- 54 Domino effect in allosteric signaling of peptide binding. **2022**, 167661 0
- 53 Unmasking allosteric binding sites: Novel targets for GPCR drug discovery. 0
- 52 Molecular Dynamics Simulations Establish the Molecular Basis for the Broad Allostery Hotspot Distributions in the Tetracycline Repressor. **2022**, 144, 10870-10887 4
- 51 Prediction of allosteric communication pathways in proteins. 0
- 50 The linear framework: using graph theory to reveal the algebra and thermodynamics of biomolecular systems. **2022**, 12, 0
- 49 Roles of cytochrome P450 enzymes in pharmacology and toxicology: Past, present, and future. **2022**, 1
- 48 Allosteric hotspots in the main protease of SARS-CoV-2. **2022**, 167748 0
- 47 Protein as evolvable functionally-constrained amorphous matter. 0
- 46 Unravelling Enzymatic Features in a Supramolecular Iridium Catalyst by Computational Calculations. 0
- 45 Study on the Interaction Mechanism Between Soybean Protein Isolates and Lemon Flavor: Isomerization and Degradation of Citral. 9, 0
- 44 Chapter 12. Methyl-TROSY NMR Spectroscopy in the Investigation of Allosteric Cooperativity in Large Biomolecular Complexes. **2022**, 303-345 0
- 43 Cooperative Oxygen Binding with Hemoglobin as a General Model in Molecular Biophysics. **2022**, 67, 327-337 1
- 42 The gateway to guanine nucleotides: Allosteric regulation of IMP dehydrogenases. **2022**, 31, 0
- 41 Cooperativity in ATP Hydrolysis by MopR Is Modulated by Its Signal Reception Domain and by Its Protein and Phenol Concentrations. **2022**, 204, 0
- 40 Conformational Selection Governs Carrier Domain Positioning in Staphylococcus aureus Pyruvate Carboxylase. 0
- 39 Subunit promotion energies for channel opening in heterotetrameric olfactory CNG channels. **2022**, 18, e1010376 0

| | | |
|----|--|---|
| 38 | Multiscale Allostery: Basic Mechanisms and Versatility in Diagnostics and Drug Design. 2022 , 434, 167751 | 1 |
| 37 | Binding of ATP to GroEL: a Case for Variable-Temperature Native Mass Spectrometry Thermodynamic Studies. | 1 |
| 36 | Lysozyme allosteric interactions with β -blocker drugs. 2022 , 366, 120370 | 1 |
| 35 | Modeling ligand-macromolecular interactions as eigenvalue-based transition-state dissociation constants may offer insights into biochemical function of the resulting complexes. 2022 , 19, 13252-13275 | 0 |
| 34 | A New Model of Hemoglobin Oxygenation. 2022 , 24, 1214 | 2 |
| 33 | Thermodynamic coupling between neighboring binding sites in homo-oligomeric ligand sensing proteins from mass resolved ligand-dependent population distributions. 2022 , 31, | 2 |
| 32 | Protein Conformational Space at the Edge of Allostery: Turning a Nonallosteric Malate Dehydrogenase into an Allosterized Enzyme Using Evolution-Guided Punctual Mutations. 2022 , 39, | 1 |
| 31 | Allosteric regulation of substrate channeling: Salmonella typhimurium tryptophan synthase. 9, | 1 |
| 30 | Arrestin and G Protein Interactions with GPCRs: A Structural Perspective. 2022 , 109-179 | 0 |
| 29 | A retrospective on statistical mechanical models for hemoglobin allostery. | 1 |
| 28 | Binding and Functional Folding (BFF): A Physiological Framework for Studying Biomolecular Interactions and Allostery. 2022 , 167872 | 0 |
| 27 | Variable Regions of p53 Isoforms Allosterically Hard Code DNA Interaction. 2022 , 126, 8495-8507 | 0 |
| 26 | Origin of Correlations between Local Conformational States of Consecutive Amino Acid Residues and Their Role in Shaping Protein Structures and in Allostery. | 1 |
| 25 | Structural Basis of Sequential and Concerted Cooperativity. 2022 , 12, 1651 | 0 |
| 24 | Intrinsic disorder and allosteric regulation. 2023 , 327-352 | 0 |
| 23 | Chemical and Physical Principles. 2016 , 3-11 | 0 |
| 22 | Kinetic and thermodynamic allostery in the Ras protein family. | 0 |
| 21 | Water Dynamics around T0 vs. R4 of Hemoglobin from Local Hydrophobicity Analysis. | 1 |

- 20 Slow dynamics measured by phosphorescence lifetime reveals global conformational changes in human adult hemoglobin induced by allosteric effectors. **2022**, 17, e0278417 ○
- 19 Protein as evolvable functionally constrained amorphous matter. **2022**, 47, ○
- 18 Modulation of molecular and kinetic properties of enzymes upon immobilization. **1978**, 3, 223-240 1
- 17 Realization of the structural fluctuation of biomolecules in solution: Generalized Langevin mode analysis. ○
- 16 Interaction at a Distance: Xenon Migration in Mb. ○
- 15 Recent applications of computational methods to allosteric drug discovery. 9, ○
- 14 Allostery Frustrates the Experimentalist. **2023**, 435, 167934 ○
- 13 Data-driven model of glycolysis identifies the role of allostery in maintaining ATP homeostasis. ○
- 12 TRPV1 Opening is Stabilized Equally by Its Four Subunits. ○
- 11 Biological Calorimetry: Old Friend, New Insights. **2023**, 3, 21-34 ○
- 10 The 'Violin model' Looking at community networks for dynamic allostery. **2023**, 158, 081001 ○
- 9 Cooperativity in Enzyme Catalysis. **2023**, 439-454 ○
- 8 Fitting Parameters of a Modified Hill Equation and Their Influence on the Shape of the Model Hemoglobin Oxygenation Curve. **2023**, 3, 90-101 ○
- 7 Ligand-specific changes in conformational flexibility mediate long-range allostery in the lac repressor. **2023**, 14, ○
- 6 Bounds on the Ultrasensitivity of Biochemical Reaction Cascades. ○
- 5 Isothermal titration calorimetry. **2023**, 3, ○
- 4 The origin of genetic and metabolic systems: Evolutionary structural insights. **2023**, 9, e14466 ○
- 3 Single Turnover of Transient of Reactants Supports a Complex Interplay of Conformational States in the Mode of Action of Mycobacterium tuberculosis Enoyl Reductase. **2023**, 3, 379-391 ○

- 2 Cooperativity in regulation of membrane protein function: phenomenological analysis of the effects of pH and phospholipids.. ○
- 1 Ligand-Based Regulation of Dynamics and Reactivity of Hemoproteins. **2023**, 13, 683 ○