

# C S Raman

## List of Publications by Year in descending order

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33  
papers

4,856  
citations

236925

25  
h-index

414414

32  
g-index

37  
all docs

37  
docs citations

37  
times ranked

5173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mutations in smooth muscle $\alpha$ -actin (ACTA2) lead to thoracic aortic aneurysms and dissections. <i>Nature Genetics</i> , 2007, 39, 1488-1493.	21.4	767
2	Crystal Structure of Constitutive Endothelial Nitric Oxide Synthase. <i>Cell</i> , 1998, 95, 939-950.	28.9	636
3	Mutations in Smooth Muscle Alpha-Actin (ACTA2) Cause Coronary Artery Disease, Stroke, and Moyamoya Disease, Along with Thoracic Aortic Disease. <i>American Journal of Human Genetics</i> , 2009, 84, 617-627.	6.2	466
4	Isothermal Titration Calorimetry of Protein-Protein Interactions. <i>Methods</i> , 1999, 19, 213-221.	3.8	442
5	Mutations in Transforming Growth Factor- $\beta$ 2 Receptor Type II Cause Familial Thoracic Aortic Aneurysms and Dissections. <i>Circulation</i> , 2005, 112, 513-520.	1.6	335
6	Factors Determining the Selectivity of Protein Tyrosine Nitration. <i>Archives of Biochemistry and Biophysics</i> , 1999, 371, 169-178.	3.0	306
7	Structural insights into the evolutionary paths of oxylipin biosynthetic enzymes. <i>Nature</i> , 2008, 455, 363-368.	27.8	254
8	MYH11 mutations result in a distinct vascular pathology driven by insulin-like growth factor 1 and angiotensin II. <i>Human Molecular Genetics</i> , 2007, 16, 2453-2462.	2.9	243
9	Crystal Structures of Zinc-free and -bound Heme Domain of Human Inducible Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 21276-21284.	3.4	196
10	Femtomolar Sensitivity of a NO Sensor from <i>Clostridium botulinum</i> . <i>Science</i> , 2004, 306, 1550-1553.	12.6	195
11	A Redox-controlled Molecular Switch Revealed by the Crystal Structure of a Bacterial Heme PAS Sensor. <i>Journal of Biological Chemistry</i> , 2004, 279, 20186-20193.	3.4	154
12	MAT2A Mutations Predispose Individuals to Thoracic Aortic Aneurysms. <i>American Journal of Human Genetics</i> , 2015, 96, 170-177.	6.2	92
13	Diffusion-limited rates for monoclonal antibody binding to cytochrome c. <i>Biochemistry</i> , 1992, 31, 10370-10379.	2.5	82
14	Crystal Structure of Nitric Oxide Synthase Bound to Nitro Indazole Reveals a Novel Inactivation Mechanism. <i>Biochemistry</i> , 2001, 40, 13448-13455.	2.5	78
15	Crystallographic Studies on Endothelial Nitric Oxide Synthase Complexed with Nitric Oxide and Mechanism-Based Inhibitors. <i>Biochemistry</i> , 2001, 40, 5399-5406.	2.5	78
16	Structural basis of hereditary coproporphyrinuria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14232-14237.	7.1	72
17	The C331A Mutant of Neuronal Nitric-Oxide Synthase Is Defective in Arginine Binding. <i>Journal of Biological Chemistry</i> , 1998, 273, 34799-34805.	3.4	58
18	Human Ig heavy chain CDR3 regions in adult bone marrow pre-B cells display an adult phenotype of diversity: evidence for structural selection of DH amino acid sequences. <i>International Immunology</i> , 1997, 9, 1503-1515.	4.0	54

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19	High Hydrostatic Pressure Induces the Dissociation of cpn60 Tetradecamers and Reveals a Plasticity of the Monomers. <i>Journal of Biological Chemistry</i> , 1995, 270, 2061-2066.	3.4	51
20	Enthalpy of Antibody-Cytochrome c Binding. <i>Biochemistry</i> , 1995, 34, 5831-5838.	2.5	49
21	Heme-mediated oxygen activation in biology: cytochrome c oxidase and nitric oxide synthase. <i>Current Opinion in Chemical Biology</i> , 1999, 3, 131-137.	6.1	47
22	Zinc Content of Escherichia coli-expressed Constitutive Isoforms of Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 1999, 274, 14537-14540.	3.4	34
23	Mapping the active site polarity in structures of endothelial nitric oxide synthase heme domain complexed with isothioureas. <i>Journal of Inorganic Biochemistry</i> , 2000, 81, 133-139.	3.5	28
24	Implications for Isoform-selective Inhibitor Design Derived from the Binding Mode of Bulky Isothioureas to the Heme Domain of Endothelial Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2001, 276, 26486-26491.	3.4	25
25	Structural Basis for Pterin Antagonism in Nitric-oxide Synthase. <i>Journal of Biological Chemistry</i> , 2001, 276, 49133-49141.	3.4	25
26	Picosecond to Second Dynamics Reveals a Structural Transition in <i>Clostridium botulinum</i> NO-Sensor Triggered by the Activator BAY-41-2272. <i>ACS Chemical Biology</i> , 2012, 7, 2046-2054.	3.4	22
27	Analogies and surprising differences between recombinant nitric oxide synthase-like proteins from <i>Staphylococcus aureus</i> and <i>Bacillus anthracis</i> in their interactions with l-arginine analogs and iron ligands. <i>Journal of Inorganic Biochemistry</i> , 2006, 100, 2024-2033.	3.5	20
28	The reaction mechanism of allene oxide synthase: Interplay of theoretical QM/MM calculations and experimental investigations. <i>Archives of Biochemistry and Biophysics</i> , 2011, 507, 14-25.	3.0	17
29	Dynamics of NO rebinding to the heme domain of NO synthase-like proteins from bacterial pathogens. <i>Nitric Oxide - Biology and Chemistry</i> , 2006, 15, 312-327.	2.7	14
30	Human coproporphyrinogen oxidase. Biochemical characterization of recombinant normal and R231W mutated enzymes expressed in <i>E. coli</i> as soluble, catalytically active homodimers. <i>Cellular and Molecular Biology</i> , 1997, 43, 47-58.	0.9	10
31	Antibody-detected folding: Kinetics of surface epitope formation are distinct from other folding phases. <i>Protein Science</i> , 2000, 9, 129-137.	7.6	2
32	MPSA short communications. <i>The Protein Journal</i> , 1994, 13, 431-512.	1.1	0
33	S1d2-2 Nitric Oxide Signaling : Controversies and Open Questions(S1-d2: "Dynamical Structures and) Tj ETQq1 1 0.784314 rgBT /Over	0.1	0