

Jotaro Igarashi

List of Publications by Year in Descending Order

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

36
papers

961
citations

18
h-index

30
g-index

40
ext. papers

1,030
ext. citations

4.4
avg, IF

3.38
L-index

#	Paper	IF	Citations
36	Interdomain Electron Transfer in Flavohemoglobin from <i>Candida norvegensis</i> with Antibiotic Azole Compounds.. <i>FEBS Letters</i> , 2022 ,	3.8	1
35	Identification and Characterization of a Redox Sensor Phosphodiesterase from sp. PN-J185 Containing Bacterial Hemerythrin and HD-GYP Domains. <i>Biochemistry</i> , 2020 , 59, 983-991	3.2	5
34	Leu65 in the heme distal side is critical for the stability of the Fe(II)-O ₂ complex of YddV, a globin-coupled oxygen sensor diguanylate cyclase. <i>Journal of Inorganic Biochemistry</i> , 2012 , 108, 163-70	4.2	22
33	Hydrogen sulfide stimulates the catalytic activity of a heme-regulated phosphodiesterase from <i>Escherichia coli</i> (Ec DOS). <i>Journal of Inorganic Biochemistry</i> , 2012 , 109, 66-71	4.2	10
32	73 Emerging Roles of Heme as a Signal and a Gas-Sensing Site: Heme-Sensing and Gas-Sensing Proteins. <i>Handbook of Porphyrin Science</i> , 2011 , 399-460	0.3	5
31	Phosphorylation of a heme-regulated eukaryotic initiation factor 2 kinase enhances the interaction with heat-shock protein 90 and substantially upregulates kinase activity. <i>Protein and Peptide Letters</i> , 2011 , 18, 1251-7	1.9	6
30	Autophosphorylation of heme-regulated eukaryotic initiation factor 2 kinase and the role of the modification in catalysis. <i>FEBS Journal</i> , 2011 , 278, 918-28	5.7	9
29	A hydrogen-bonding network formed by the B10-E7-E11 residues of a truncated hemoglobin from <i>Tetrahymena pyriformis</i> is critical for stability of bound oxygen and nitric oxide detoxification. <i>Journal of Biological Inorganic Chemistry</i> , 2011 , 16, 599-609	3.7	24
28	Heme-binding characteristics of the isolated PAS-B domain of mouse Per2, a transcriptional regulatory factor associated with circadian rhythms. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2011 , 1814, 326-33	4	20
27	Identification and functional and spectral characterization of a globin-coupled histidine kinase from <i>Anaeromyxobacter</i> sp. Fw109-5. <i>Journal of Biological Chemistry</i> , 2011 , 286, 35522-35534	5.4	38
26	Catalysis and oxygen binding of Ec DOS: a haem-based oxygen-sensor enzyme from <i>Escherichia coli</i> . <i>Journal of Biochemistry</i> , 2010 , 148, 693-703	3.1	18
25	Important roles of Tyr43 at the putative heme distal side in the oxygen recognition and stability of the Fe(II)-O ₂ complex of YddV, a globin-coupled heme-based oxygen sensor diguanylate cyclase. <i>Biochemistry</i> , 2010 , 49, 10381-93	3.2	61
24	Heme-regulated Transcriptional Factors Associated with Circadian Rhythms. <i>Seibutsu Butsuri</i> , 2010 , 50, 034-035	0	
23	Selective neuronal nitric oxide synthase inhibitors and the prevention of cerebral palsy. <i>Annals of Neurology</i> , 2009 , 65, 209-17	9.4	71
22	Role of Phe113 at the distal side of the heme domain of an oxygen-sensor (Ec DOS) in the characterization of the heme environment. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 989-96	4.2	7
21	The FG loop of a heme-based gas sensor enzyme, Ec DOS, functions in heme binding, autoxidation and catalysis. <i>Journal of Inorganic Biochemistry</i> , 2009 , 103, 1380-5	4.2	7
20	Crystal structures of constitutive nitric oxide synthases in complex with de novo designed inhibitors. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 2060-6	8.3	18

19	Heme-binding characteristics of the isolated PAS-A domain of mouse Per2, a transcriptional regulatory factor associated with circadian rhythms. <i>Biochemistry</i> , 2008 , 47, 6157-68	3.2	50
18	Arg97 at the heme-distal side of the isolated heme-bound PAS domain of a heme-based oxygen sensor from Escherichia coli (Ec DOS) plays critical roles in autoxidation and binding to gases, particularly O ₂ . <i>Biochemistry</i> , 2008 , 47, 8874-84	3.2	39
17	Minimal pharmacophoric elements and fragment hopping, an approach directed at molecular diversity and isozyme selectivity. Design of selective neuronal nitric oxide synthase inhibitors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 3900-14	16.4	88
16	Elucidation of the heme binding site of heme-regulated eukaryotic initiation factor 2alpha kinase and the role of the regulatory motif in heme sensing by spectroscopic and catalytic studies of mutant proteins. <i>Journal of Biological Chemistry</i> , 2008 , 283, 18782-91	5.4	70
15	Identification of Cys385 in the isolated kinase insertion domain of heme-regulated eIF2 alpha kinase (HRI) as the heme axial ligand by site-directed mutagenesis and spectral characterization. <i>Journal of Inorganic Biochemistry</i> , 2007 , 101, 1172-9	4.2	11
14	Eukaryotic initiation factor 2alpha kinase is a nitric oxide-responsive mercury sensor enzyme: potent inhibition of catalysis by the mercury cation and reversal by nitric oxide. <i>FEBS Letters</i> , 2007 , 581, 4109-14	3.8	9
13	Characterization of heme-regulated eIF2alpha kinase: roles of the N-terminal domain in the oligomeric state, heme binding, catalysis, and inhibition. <i>Biochemistry</i> , 2006 , 45, 9894-905	3.2	45
12	Critical roles of Leu99 and Leu115 at the heme distal side in auto-oxidation and the redox potential of a heme-regulated phosphodiesterase from Escherichia coli. <i>FEBS Journal</i> , 2006 , 273, 1210-23	5.7	7
11	Spectroscopic and DNA-binding characterization of the isolated heme-bound basic helix-loop-helix-PAS-A domain of neuronal PAS protein 2 (NPAS2), a transcription activator protein associated with circadian rhythms. <i>FEBS Journal</i> , 2006 , 273, 2528-39	5.7	33
10	Structural studies of constitutive nitric oxide synthases with diatomic ligands bound. <i>Journal of Biological Inorganic Chemistry</i> , 2006 , 11, 753-68	3.7	50
9	Exploring the binding conformations of bulkier dipeptide amide inhibitors in constitutive nitric oxide synthases. <i>Biochemistry</i> , 2005 , 44, 15222-9	3.2	18
8	Dual Effects of the Substrate and Pterins on the Kinetics of CO Binding to Neuronal Nitric Oxide Synthase: A Laser Flash Photolysis Study. <i>Chemistry Letters</i> , 2005 , 34, 752-753	1.7	1
7	Spectroscopic characterization of the isolated heme-bound PAS-B domain of neuronal PAS domain protein 2 associated with circadian rhythms. <i>FEBS Journal</i> , 2005 , 272, 4153-62	5.7	20
6	Binding of oxygen and carbon monoxide to a heme-regulated phosphodiesterase from Escherichia coli. Kinetics and infrared spectra of the full-length wild-type enzyme, isolated PAS domain, and Met-95 mutants. <i>Journal of Biological Chemistry</i> , 2004 , 279, 3340-7	5.4	45
5	Activation of heme-regulated eukaryotic initiation factor 2alpha kinase by nitric oxide is induced by the formation of a five-coordinate NO-heme complex: optical absorption, electron spin resonance, and resonance raman spectral studies. <i>Journal of Biological Chemistry</i> , 2004 , 279, 15752-62	5.4	56
4	Analysis of the kinetics of CO binding to neuronal nitric oxide synthase by flash photolysis: dual effects of substrates, inhibitors, and tetrahydrobiopterin. <i>Journal of Inorganic Biochemistry</i> , 2004 , 98, 1210-6	4.2	5
3	SOUL in mouse eyes is a new hexameric heme-binding protein with characteristic optical absorption, resonance Raman spectral, and heme-binding properties. <i>Biochemistry</i> , 2004 , 43, 14189-98	3.2	48
2	CO binding study of mouse heme-regulated eIF-2alpha kinase: kinetics and resonance Raman spectra. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1650, 99-104	4	13

- 1 A primitive myoglobin from *Tetrahymena pyriformis*: its heme environment, autoxidizability, and genomic DNA structure. *BBA - Proteins and Proteomics*, **2000**, 1543, 131-45

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