# Jin Hae Kim

## List of Publications by Citations



| | | | |
|---|---|---|---|
| 19 papers | 634 citations | 13 h-index | 19 g-index |
| 19 ext. papers | 718 ext. citations | 7.8 avg, IF | 3.98 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 19 | [2Fe-2S]-ferredoxin binds directly to cysteine desulfurase and supplies an electron for iron-sulfur cluster assembly but is displaced by the scaffold protein or bacterial frataxin. *Journal of the American Chemical Society*, **2013**, 135, 8117-20 | 16.4 | 76 |
| 18 | Structure and dynamics of the iron-sulfur cluster assembly scaffold protein IscU and its interaction with the cochaperone HscB. *Biochemistry*, **2009**, 48, 6062-71 | 3.2 | 73 |
| 17 | Dynamical Structures of Hsp70 and Hsp70-Hsp40 Complexes. *Structure*, **2016**, 24, 1014-30 | 5.2 | 71 |
| 16 | Disordered form of the scaffold protein IscU is the substrate for iron-sulfur cluster assembly on cysteine desulfurase. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 454-9 | 11.5 | 62 |
| 15 | Metamorphic protein IscU alternates conformations in the course of its role as the scaffold protein for iron-sulfur cluster biosynthesis and delivery. *FEBS Letters*, **2013**, 587, 1172-9 | 3.8 | 57 |
| 14 | Role of IscX in iron-sulfur cluster biogenesis in Escherichia coli. *Journal of the American Chemical Society*, **2014**, 136, 7933-42 | 16.4 | 47 |
| 13 | Human mitochondrial chaperone (mtHSP70) and cysteine desulfurase (NFS1) bind preferentially to the disordered conformation, whereas co-chaperone (HSC20) binds to the structured conformation of the iron-sulfur cluster scaffold protein (ISCU). *Journal of Biological Chemistry*, **2013**, 288, 28755-70 | 5.4 | 44 |
| 12 | Specialized Hsp70 chaperone (HscA) binds preferentially to the disordered form, whereas J-protein (HscB) binds preferentially to the structured form of the iron-sulfur cluster scaffold protein (IscU). *Journal of Biological Chemistry*, **2012**, 287, 31406-13 | 5.4 | 37 |
| 11 | Mechanistic basis for the recognition of a misfolded protein by the molecular chaperone Hsp90. *Nature Structural and Molecular Biology*, **2017**, 24, 407-413 | 17.6 | 34 |
| 10 | Three-dimensional structure and determinants of stability of the iron-sulfur cluster scaffold protein IscU from Escherichia coli. *Biochemistry*, **2012**, 51, 5557-63 | 3.2 | 34 |
| 9 | Tangled web of interactions among proteins involved in iron-sulfur cluster assembly as unraveled by NMR, SAXS, chemical crosslinking, and functional studies. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2015**, 1853, 1416-28 | 4.9 | 30 |
| 8 | The specialized Hsp70 (HscA) interdomain linker binds to its nucleotide-binding domain and stimulates ATP hydrolysis in both cis and trans configurations. *Biochemistry*, **2014**, 53, 7148-59 | 3.2 | 20 |
| 7 | Nucleotide-dependent interactions within a specialized Hsp70/Hsp40 complex involved in Fe-S cluster biogenesis. *Journal of the American Chemical Society*, **2014**, 136, 11586-9 | 16.4 | 20 |
| 6 | Structure of Monomeric Transthyretin Carrying the Clinically Important T119M Mutation. *Angewandte Chemie - International Edition*, **2016**, 55, 16168-16171 | 16.4 | 10 |
| 5 | pH-induced conformational change of IscU at low pH correlates with protonation/deprotonation of two conserved histidine residues. *Biochemistry*, **2014**, 53, 5290-7 | 3.2 | 6 |
| 4 | Transthyretin Misfolding, A Fatal Structural Pathogenesis Mechanism. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 5 |
| 3 | The cytotoxicity of gallium maltolate in glioblastoma cells is enhanced by metformin through combined action on mitochondrial complex 1. *Oncotarget*, **2020**, 11, 1531-1544 | 3.3 | 4 |

# List of Publications

| | | | |
|---|---|---|---|
| 2 | Diphenyl-Methane Based Thyromimetic Inhibitors for Transthyretin Amyloidosis. *International Journal of Molecular Sciences*, **2021**, 22, | 6.3 | 3 |
| 1 | Aggregation-Prone Structural Ensembles of Transthyretin Collected With Regression Analysis for NMR Chemical Shift. *Frontiers in Molecular Biosciences*, **2021**, 8, 766830 | 5.6 | 1 |