

Young Kee Kang

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papers

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112
ext. papers

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ext. citations

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avg, IF

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L-index

#	Paper	IF	Citations
109	Physics-based protein-structure prediction using a hierarchical protocol based on the UNRES force field: assessment in two blind tests. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 7547-52	11.5	120
108	Free energies of hydration of solute molecules. 1. Improvement of the hydration shell model by exact computations of overlapping volumes. <i>The Journal of Physical Chemistry</i> , 1987 , 91, 4105-4109		118
107	Additivity of atomic static polarizabilities and dispersion coefficients. <i>Theoretica Chimica Acta</i> , 1982 , 61, 41-48		111
106	Ab initio MO and density functional studies on trans and cis conformers of N-methylacetamide. <i>Computational and Theoretical Chemistry</i> , 2001 , 546, 183-193		92
105	Free energies of hydration of solute molecules. 4. Revised treatment of the hydration shell model. <i>The Journal of Physical Chemistry</i> , 1988 , 92, 4739-4742		87
104	Positional preference of proline in alpha-helices. <i>Protein Science</i> , 1999 , 8, 1492-9	6.3	81
103	Conformational preferences of non-prolyl and prolyl residues. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21338-48	3.4	73
102	Free energies of hydration of solute molecules. 3. Application of the hydration shell model to charged organic molecules. <i>The Journal of Physical Chemistry</i> , 1987 , 91, 4118-4120		73
101	Internal rotation about the C-N bond of amides. <i>Computational and Theoretical Chemistry</i> , 2004 , 676, 171-176		65
100	Cis-trans isomerization and puckering of proline residue. <i>Biophysical Chemistry</i> , 2004 , 111, 135-42	3.5	63
99	Free energies of hydration of solute molecules. 2. Application of the hydration shell model to nonionic organic molecules. <i>The Journal of Physical Chemistry</i> , 1987 , 91, 4109-4117		61
98	Imide Cis-Trans Isomerization of N-Acetyl-N-methylprolineamide and Solvent Effects. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 5436-5439	2.8	57
97	Pseudorotation in heterocyclic five-membered rings: tetrahydrofuran and pyrrolidine. <i>Computational and Theoretical Chemistry</i> , 1996 , 369, 157-165		46
96	Assessment of density functionals with long-range and/or empirical dispersion corrections for conformational energy calculations of peptides. <i>Journal of Computational Chemistry</i> , 2010 , 31, 2915-23	3.5	44
95	Conformational preferences of proline oligopeptides. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17645-55		43
94	Cis-Trans Isomerization and Puckering of Pseudoproline Dipeptides. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2074-2082	3.4	41
93	Which Functional Form Is Appropriate for Hydrogen Bond of Amides?. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8321-8326	3.4	41

92	Ab Initio Molecular Orbital Calculations on Low-Energy Conformers of N-Acetyl-N-methylprolineamide. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 11589-11595		40
91	Ab initio and DFT conformational study of proline dipeptide. <i>Computational and Theoretical Chemistry</i> , 2004 , 675, 37-45		37
90	Ring Flip of Proline Residue via the Transition State with an Envelope Conformation. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 5463-5465	3.4	36
89	Thiazole-based building blocks as reverse-turn mimetic to design a gramicidin S analogue: conformational and biological evaluation. <i>Chemistry - A European Journal</i> , 2014 , 20, 6713-20	4.8	35
88	A pseudrotation model and ring-puckering of cyclopentane. <i>Computational and Theoretical Chemistry</i> , 1996 , 362, 243-255		35
87	Puckering transition of proline residue in water. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10550-6	3.4	34
86	Assessment of CCSD(T), MP2, DFT-D, CBS-QB3, and G4(MP2) methods for conformational study of alanine and proline dipeptides. <i>Chemical Physics Letters</i> , 2014 , 600, 112-117	2.5	30
85	Conformational preferences and pK(a) value of selenocysteine residue. <i>Biopolymers</i> , 2011 , 95, 345-53	2.2	30
84	Intrinsic Torsional Potential Parameters for Conformational Analysis of Peptides and Proteins. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15588-15598		29
83	Conformational preferences of proline analogues with different ring size. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 3496-507	3.4	28
82	A Fast Method for Calculating Geometry-Dependent Net Atomic Charges for Polypeptides. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 3624-3634	3.4	26
81	Conformational preference and cis-trans isomerization of 4(R)-substituted proline residues. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1915-27	3.4	25
80	Determination of Nonbonded Potential Parameters for Peptides. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 13019-13027		25
79	12/10-Helical Peptide with Dynamic Folding Propensity: Coexistence of Right- and Left-Handed Helices in an Enantiomeric Foldamer. <i>Journal of the American Chemical Society</i> , 2016 , 138, 13390-13395	16.4	24
78	Conformational preference and cis-trans isomerization of 4-methylproline residues. <i>Biopolymers</i> , 2011 , 95, 51-61	2.2	24
77	Puckering transition of 4-substituted proline residues. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16982-3	3.4	24
76	Local control of the cis-trans isomerization and backbone dihedral angles in peptides using trifluoromethylated pseudoproline. <i>Journal of Physical Chemistry B</i> , 2012 , 116, 4069-79	3.4	22
75	Conformational preferences and cis-trans isomerization of azaproline residue. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5377-85	3.4	21

74	Conformational preferences of pseudoproline residues. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12551-62	3.4	19
73	cis \leftrightarrow trans Isomerization of N -acetyl- N γ -methylamides of 5-methylproline and 5,5-dimethylproline. <i>Computational and Theoretical Chemistry</i> , 2002 , 585, 209-221		19
72	Ab initio conformational study of N-acetyl-L-proline-N γ -N δ -dimethylamide: a model for polyproline. <i>Biophysical Chemistry</i> , 2005 , 113, 93-101	3.5	19
71	Comparative conformational study of N-acetyl-N γ -methylprolineamide with different basis sets. <i>Computational and Theoretical Chemistry</i> , 2002 , 593, 55-64		18
70	Computationally designed β -turn foldamers of β -peptides based on 2-(aminomethyl)cyclohexanecarboxylic acid. <i>Biopolymers</i> , 2012 , 97, 1018-25	2.2	17
69	Conformational preferences of β -aminobutyric acid in the gas phase and in water. <i>Journal of Molecular Structure</i> , 2012 , 1024, 163-169	3.4	16
68	Altering the Cyclization Modes: Temperature-Dependent Intramolecular 7-Endo-Dig vs 6-Endo-Dig Electrophilic Ring Closures. <i>Organic Letters</i> , 2017 , 19, 1474-1477	6.2	15
67	The triple helical structure and stability of collagen model peptide with 4(S)-hydroxyprolyl-Pro-Gly units. <i>Biopolymers</i> , 2012 , 98, 111-21	2.2	15
66	Transition of prolyl puckering in a model of polyproline. <i>Computational and Theoretical Chemistry</i> , 2005 , 718, 17-21		15
65	Remote Stereoinductive Intramolecular Nitrile Oxide Cycloaddition: Asymmetric Total Synthesis and Structure Revision of (-)-11 β -Hydroxycurcularin. <i>Journal of Organic Chemistry</i> , 2016 , 81, 2612-7	4.2	14
64	Preferred conformations of RGD χ tetrapeptides to inhibit the binding of fibrinogen to platelets. <i>Biopolymers</i> , 2002 , 63, 298-313	2.2	14
63	Puckering transitions of pseudoproline residues. <i>Biopolymers</i> , 2009 , 91, 444-55	2.2	13
62	Conformational preferences and cis-trans isomerization of L-lactic acid residue. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 9126-34	3.4	13
61	Conformational study of the dinucleotide dGpdCp-tetrapeptide Ala χ complex. <i>Macromolecules</i> , 1984 , 17, 138-147	5.5	13
60	Prospect of Thiazole-based β -peptide Foldamers in Enamine Catalysis: Exploration of the Nitro-Michael Addition. <i>Chemistry - A European Journal</i> , 2019 , 25, 7396-7401	4.8	12
59	Conformational preferences and prolyl cis-trans isomerization of phosphorylated Ser/Thr-Pro motifs. <i>Biopolymers</i> , 2010 , 93, 330-9	2.2	12
58	An efficient method for calculating atomic charges of peptides and proteins from electronic populations. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 5470-8	3.4	12
57	Determination of Potential Parameters for Amino Acid Zwitterions. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 17670-17677		12

56	A mechanistic study supports a two-step mechanism for peptide bond formation on the ribosome. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 14931-5	3.6	11
55	Conformation and hydration of acetylcholine. <i>Journal of Molecular Structure</i> , 1992 , 269, 231-241	3.4	11
54	Conformational preferences of X-Pro sequences: Ala-Pro and Aib-Pro motifs. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 14077-86	3.4	10
53	Conformation and hydration of aspartame. <i>International Journal of Peptide and Protein Research</i> , 1991 , 38, 79-83		10
52	Conformational preferences and cis-trans isomerization of L-3,4-dehydroproline residue. <i>Biopolymers</i> , 2009 , 92, 387-98	2.2	10
51	Conformational preferences and pKa value of cysteine residue. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11189-93	3.4	10
50	Strength of CH \cdots interactions in the C-terminal subdomain of villin headpiece. <i>Biopolymers</i> , 2012 , 97, 778-88	2.2	9
49	Conformational study of asialo-GM1 (GA1) ganglioside. <i>Biopolymers</i> , 1997 , 42, 19-35	2.2	9
48	Conformational Preferences of Glycerol in the Gas Phase and in Water. <i>Bulletin of the Korean Chemical Society</i> , 2012 , 33, 917-924	1.2	9
47	C Ribbon-Like Structures in Hybrid Peptides Alternating β - and Thiazole-Based α -Amino Acids. <i>Chemistry - A European Journal</i> , 2017 , 23, 17584-17591	4.8	8
46	Conformational preferences of helix foldamers of β -peptides based on 2-(aminomethyl)cyclohexanecarboxylic acid. <i>Biopolymers</i> , 2014 , 101, 87-95	2.2	8
45	Conformational study of trinucleoside tetraphosphate d(pCpGpCp): Transition of right-handed form to left-handed form. <i>Biopolymers</i> , 1984 , 23, 511-536	2.2	8
44	Propensities of peptides containing the Asn-Gly segment to form β -turn and β -hairpin structures. <i>Biopolymers</i> , 2016 , 105, 653-64	2.2	8
43	Helix foldamers of β -peptides based on 2-aminocyclohexylacetic acid: a computational study. <i>New Journal of Chemistry</i> , 2014 , 38, 966	3.6	7
42	Conformational preferences of the 2-methylproline residue and its role in stabilizing β -turn and polyproline II structures of peptides. <i>New Journal of Chemistry</i> , 2014 , 38, 2831	3.6	7
41	Helix foldamers of β -peptides based on 2-aminocyclopentylacetic acid. <i>New Journal of Chemistry</i> , 2015 , 39, 3241-3249	3.6	7
40	Conformational preferences of 4-chloroproline residues. <i>Biopolymers</i> , 2012 , 97, 629-41	2.2	7
39	Conformational study on proline-containing tripeptides of ribonuclease T1. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 9248-9258		7

38	Tailoring the Physicochemical Properties of Antimicrobial Peptides onto a Thiazole-Based β -Peptide Foldamer. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 9168-9180	8.3	7
37	Which DFT levels of theory are appropriate in predicting the prolyl cis-trans isomerization in solution?. <i>New Journal of Chemistry</i> , 2019 , 43, 17159-17173	3.6	7
36	Binding free energies of inhibitors to iron porphyrin complex as a model for Cytochrome P450. <i>Biopolymers</i> , 2012 , 97, 219-28	2.2	6
35	Assessment of CCSD(T), MP2, and DFT methods for the calculations of structures and interaction energies of the peptide backbone with water molecules. <i>Chemical Physics Letters</i> , 2017 , 687, 23-30	2.5	6
34	A histidine substitution confers metal binding affinity to a Schistosoma japonicum Glutathione S-transferase. <i>Protein Expression and Purification</i> , 2010 , 73, 74-7	2	6
33	Preferred conformations of a linear RGD tripeptide. <i>Chemical Biology and Drug Design</i> , 2000 , 56, 360-72		6
32	Ab initio MO study on model compounds of malonyl-CoA: malonic acid and malonyl methyl sulfide. <i>Computational and Theoretical Chemistry</i> , 1996 , 369, 145-156		6
31	Low-energy conformations of two lysine-containing tetrapeptides of collagen: implications for posttranslational lysine hydroxylation. <i>Biopolymers</i> , 1987 , 26, 1781-8	2.2	6
30	Exploring conformational preferences of alanine tetrapeptide by CCSD(T), MP2, and dispersion-corrected DFT methods. <i>Chemical Physics Letters</i> , 2018 , 702, 69-75	2.5	6
29	Conformational preferences of taurine in the gas phase and in water. <i>Computational and Theoretical Chemistry</i> , 2013 , 1025, 8-15	2	5
28	Allylic Azide Rearrangements Investigated by Density Functional Theory Calculations. <i>Bulletin of the Korean Chemical Society</i> , 2017 , 38, 1419-1426	1.2	5
27	Influence of substituents on conformational preferences of helix foldamers of β -dipeptides. <i>Biopolymers</i> , 2014 , 101, 1077-87	2.2	5
26	Preferred conformations of cyclic Ac-Cys-Pro-Xaa-Cys-NHMe peptides: a model for chain reversal and active site of disulfide oxidoreductase. <i>Biophysical Chemistry</i> , 2003 , 105, 89-104	3.5	5
25	Conformation and sweet tastes of L-aspartyl dipeptide methyl esters. <i>Biopolymers</i> , 1994 , 34, 1037-48	2.2	5
24	Puckering transitions in cyclohexane: Revisited. <i>Chemical Physics Letters</i> , 2018 , 702, 82-89	2.5	5
23	Conformational preferences and antimicrobial activities of alkanediols. <i>Computational and Theoretical Chemistry</i> , 2015 , 1064, 15-24	2	4
22	Conformational preferences of β -sheet structures in cyclopropane-containing β -peptides. <i>New Journal of Chemistry</i> , 2015 , 39, 4640-4646	3.6	4
21	Conformational preferences of N-methoxycarbonyl proline dipeptide. <i>Journal of Computational Chemistry</i> , 2009 , 30, 1116-27	3.5	4

20	Ab Initio Molecular Orbital Calculations on N-Mercaptoethylacetamide and Its Derivatives as Model Compounds of Coenzyme A (CoA), Acetyl-CoA, and Malonyl-CoA. <i>Journal of Physical Chemistry B</i> , 1997 , 101, 7001-7006	3.4	4
19	Conformational analysis of poly(2-hydroxyethyl methacrylate). <i>Journal of Polymer Science Part A</i> , 1991 , 29, 393-398	2.5	3
18	Conformational analysis of some antibacterial agent 4-aminodiphenyl sulfones. <i>Archives of Pharmacal Research</i> , 1990 , 13, 43-50	6.1	3
17	Conformational preferences of cationic β -peptide in water studied by CCSD(T), MP2, and DFT methods. <i>Heliyon</i> , 2020 , 6, e04721	3.6	3
16	Mechanistic study of hemicucurbit[6]uril formation by step-growth oligomerization and end-to-end cyclization. <i>Chemical Physics Letters</i> , 2017 , 669, 92-98	2.5	2
15	Organocatalytic Asymmetric Addition of Aldehyde to Nitroolefin by H-d-Pro-Pro-Glu-NH: A Mechanistic Study. <i>ACS Omega</i> , 2019 , 4, 8862-8873	3.9	2
14	Hairpin formation promoted by the heterochiral dinipeptotic acid segment: A DFT study. <i>Biopolymers</i> , 2015 , 103, 609-17	2.2	2
13	Conformation and activity of +H ₂ -Pro-Leu-Gly-NH ₂ and its analogues modified at the leucyl residue. <i>International Journal of Peptide and Protein Research</i> , 1995 , 46, 381-90		2
12	Effects of isosteric substitutions on the conformational preference and cis/trans isomerization of proline-containing peptides. <i>New Journal of Chemistry</i> , 2017 , 41, 6593-6606	3.6	1
11	Reply to "comment on binding free energies of inhibitors to iron porphyrin complex as a model for cytochrome P450R. <i>Biopolymers</i> , 2012 , 97, 649-50	2.2	1
10	The rate enhancement for prolyl cis-to-trans isomerization of cyclic CPFC peptide is caused by an increase in the vibrational entropy of the transition state. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 3287-9	3.4	1
9	Semiempirical MO study on malonyl-CoA. Part 2. Malonyl-AMP. <i>Computational and Theoretical Chemistry</i> , 1996 , 365, 201-209		1
8	Exploring Helical Folding in Oligomers of Cyclopentane-Based β -Amino Acids: A Computational Study.. <i>ChemistryOpen</i> , 2022 , e202100253	2.3	1
7	Conformational Preferences of Cyclopentane-Based Oligo- β -peptides in the Gas Phase and in Solution. <i>ChemPlusChem</i> , 2021 , 86, 533-539	2.8	1
6	Puckering transition of the proline residue along the pseudorotational path: revisited. <i>New Journal of Chemistry</i> , 2021 , 45, 9780-9793	3.6	1
5	Reagent-free intramolecular hydrofunctionalization: a regioselective 6-endo-dig cyclization of o-alkynoylphenols. <i>Green Chemistry</i> , 2022 , 24, 2376-2384	10	1
4	PMFF: Development of a Physics-Based Molecular Force Field for Protein Simulation and Ligand Docking. <i>Journal of Physical Chemistry B</i> , 2020 , 124, 974-989	3.4	0
3	Propensities to form the β -turn and β -hairpin structures of D-Pro-Gly and Aib-D-Ala containing peptides: a computational study. <i>New Journal of Chemistry</i> , 2016 , 40, 8565-8578	3.6	0

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