

Young Kee Kang

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.

109
papers

2,292
citations

27
h-index

43
g-index

112
ext. papers

2,406
ext. citations

3.4
avg, IF

5.21
L-index

#	Paper	IF	Citations
109	Exploring Helical Folding in Oligomers of Cyclopentane-Based γ -Amino Acids: A Computational Study.. <i>ChemistryOpen</i> , 2022 , e202100253	2.3	1
108	Reagent-free intramolecular hydrofunctionalization: a regioselective 6-endo-dig cyclization of o-alkynoylphenols. <i>Green Chemistry</i> , 2022 , 24, 2376-2384	10	1
107	Exploring Helical Folding in Oligomers of Cyclopentane-Based γ -Amino Acids: A Computational Study.. <i>ChemistryOpen</i> , 2022 , 11, e202200035	2.3	
106	Conformational Preferences of Cyclopentane-Based Oligo-Peptides in the Gas Phase and in Solution. <i>ChemPlusChem</i> , 2021 , 86, 533-539	2.8	1
105	Puckering transition of the proline residue along the pseudorotational path: revisited. <i>New Journal of Chemistry</i> , 2021 , 45, 9780-9793	3.6	1
104	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
103	Conformational preferences of cationic peptide in water studied by CCSD(T), MP2, and DFT methods. <i>Heliyon</i> , 2020 , 6, e04721	3.6	3
102	Tailoring the Physicochemical Properties of Antimicrobial Peptides onto a Thiazole-Based Peptide Foldamer. <i>Journal of Medicinal Chemistry</i> , 2020 , 63, 9168-9180	8.3	7
101	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
100	Prospect of Thiazole-based Peptide Foldamers in Enamine Catalysis: Exploration of the Nitro-Michael Addition. <i>Chemistry - A European Journal</i> , 2019 , 25, 7396-7401	4.8	12
99	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
98	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
97	Puckering transitions in cyclohexane: Revisited. <i>Chemical Physics Letters</i> , 2018 , 702, 82-89	2.5	5
96	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
95	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
94	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
93	C Ribbon-Like Structures in Hybrid Peptides Alternating β - and Thiazole-Based β -Amino Acids. <i>Chemistry - A European Journal</i> , 2017 , 23, 17584-17591	4.8	8

92	Allylic Azide Rearrangements Investigated by Density Functional Theory Calculations. <i>Bulletin of the Korean Chemical Society</i> , 2017 , 38, 1419-1426	1.2	5
91	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
90	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
89	12/10-Helical β -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
88	Remote Stereoinductive Intramolecular Nitrile Oxide Cycloaddition: Asymmetric Total Synthesis and Structure Revision of (-)-11 β -Hydroxycurvularin. <i>Journal of Organic Chemistry</i> , 2016 , 81, 2612-7	4.2	14
87	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
86	Conformational preferences and antimicrobial activities of alkanediols. <i>Computational and Theoretical Chemistry</i> , 2015 , 1064, 15-24	2	4
85	Conformational preferences of β -sheet structures in cyclopropane-containing β -peptides. <i>New Journal of Chemistry</i> , 2015 , 39, 4640-4646	3.6	4
84	Hairpin formation promoted by the heterochiral dinipeptotic acid segment: A DFT study. <i>Biopolymers</i> , 2015 , 103, 609-17	2.2	2
83	Helix Foldamers of β -peptides based on 2-aminocyclopentylacetic acid. <i>New Journal of Chemistry</i> , 2015 , 39, 3241-3249	3.6	7
82	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
81	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
80	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
79	Thiazole-based β -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
78	Conformational preferences of helix foldamers of β -peptides based on 2-(aminomethyl)cyclohexanecarboxylic acid. <i>Biopolymers</i> , 2014 , 101, 87-95	2.2	8
77	Influence of substituents on conformational preferences of helix foldamers of β -dipeptides. <i>Biopolymers</i> , 2014 , 101, 1077-87	2.2	5
76	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
75	Conformational preferences of taurine in the gas phase and in water. <i>Computational and Theoretical Chemistry</i> , 2013 , 1025, 8-15	2	5

74	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
73	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
72	Computationally designed β -turn foldamers of β -peptides based on 2-(aminomethyl)cyclohexanecarboxylic acid. <i>Biopolymers</i> , 2012 , 97, 1018-25	2.2	17
71	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
70	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
69	Reply to "comment on binding free energies of inhibitors to iron porphyrin complex as a model for cytochrome P450". <i>Biopolymers</i> , 2012 , 97, 649-50	2.2	1
68	Conformational preferences of 4-chloroproline residues. <i>Biopolymers</i> , 2012 , 97, 629-41	2.2	7
67	Strength of CH \cdots O interactions in the C-terminal subdomain of villin headpiece. <i>Biopolymers</i> , 2012 , 97, 778-88	2.2	9
66	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
65	Conformational preference and cis-trans isomerization of 4-methylproline residues. <i>Biopolymers</i> , 2011 , 95, 51-61	2.2	24
64	Conformational preferences and pK(a) value of selenocysteine residue. <i>Biopolymers</i> , 2011 , 95, 345-53	2.2	30
63	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
62	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
61	Conformational preferences and prolyl cis-trans isomerization of phosphorylated Ser/Thr-Pro motifs. <i>Biopolymers</i> , 2010 , 93, 330-9	2.2	12
60	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
59	Conformational preferences of N-methoxycarbonyl proline dipeptide. <i>Journal of Computational Chemistry</i> , 2009 , 30, 1116-27	3.5	4
58	Puckering transitions of pseudoproline residues. <i>Biopolymers</i> , 2009 , 91, 444-55	2.2	13
57	Conformational preferences and cis-trans isomerization of L-3,4-dehydroproline residue. <i>Biopolymers</i> , 2009 , 92, 387-98	2.2	10

56	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
55	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
54	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
53	Conformational preferences and pKa value of cysteine residue. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 11189-93	3-4	10
52	Puckering transition of proline residue in water. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 10550-6	3-4	34
51	Conformational preferences and cis-trans isomerization of azaproline residue. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 5377-85	3-4	21
50	Conformational preferences of proline analogues with different ring size. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 3496-507	3-4	28
49	Conformational preferences of pseudoproline residues. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 12551-62	3-4	19
48	Conformational preferences of proline oligopeptides. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 17645-554	3-4	43
47	Conformational preferences of non-prolyl and prolyl residues. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 21338-48	3-4	73
46	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
45	Puckering transition of 4-substituted proline residues. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 16982-3	3-4	24
44	Transition of prolyl puckering in a model of polyproline. <i>Computational and Theoretical Chemistry</i> , 2005 , 718, 17-21		15
43	Ab initio conformational study of N-acetyl-L-proline-N,N-dimethylamide: a model for polyproline. <i>Biophysical Chemistry</i> , 2005 , 113, 93-101	3-5	19
42	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
41	Ab initio and DFT conformational study of proline dipeptide. <i>Computational and Theoretical Chemistry</i> , 2004 , 675, 37-45		37
40	Internal rotation about the C-N bond of amides. <i>Computational and Theoretical Chemistry</i> , 2004 , 676, 171-176		65
39	Cis-trans isomerization and puckering of proline residue. <i>Biophysical Chemistry</i> , 2004 , 111, 135-42	3-5	63

38	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
37	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
36	Preferred conformations of RGDX tetrapeptides to inhibit the binding of fibrinogen to platelets. <i>Biopolymers</i> , 2002 , 63, 298-313	2-2	14
35	cis \rightleftharpoons trans Isomerization of N-acetyl-N [?] -methylamides of 5-methylproline and 5,5-dimethylproline. <i>Computational and Theoretical Chemistry</i> , 2002 , 585, 209-221		19
34	Comparative conformational study of N-acetyl-N [?] -methylprolineamide with different basis sets. <i>Computational and Theoretical Chemistry</i> , 2002 , 593, 55-64		18
33	Cis \rightleftharpoons trans Isomerization and Puckering of Pseudoproline Dipeptides. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2074-2082	3-4	41
32	Proline puckering and cis-trans isomerization of proline-containing peptides 2002 , 420-421		
31	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
30	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
29	Preferred conformations of a linear RGD tripeptide. <i>Chemical Biology and Drug Design</i> , 2000 , 56, 360-72		6
28	Which Functional Form Is Appropriate for Hydrogen Bond of Amides?. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8321-8326	3-4	41
27	Positional preference of proline in alpha-helices. <i>Protein Science</i> , 1999 , 8, 1492-9	6-3	81
26	Imide Cis \rightleftharpoons trans Isomerization of N-Acetyl-N [?] -methylprolineamide and Solvent Effects. <i>Journal of Physical Chemistry A</i> , 1999 , 103, 5436-5439	2-8	57
25	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
24	Conformational study of asialo-GM1 (GA1) ganglioside. <i>Biopolymers</i> , 1997 , 42, 19-35	2-2	9
23	Determination of Potential Parameters for Amino Acid Zwitterions. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 17670-17677		12
22	Intrinsic Torsional Potential Parameters for Conformational Analysis of Peptides and Proteins. <i>The Journal of Physical Chemistry</i> , 1996 , 100, 15588-15598		29
21	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

20	A pseudotation model and ring-puckering of cyclopentane. <i>Computational and Theoretical Chemistry</i> , 1996 , 362, 243-255		35
19	Semiempirical MO study on malonyl-CoA. Part 2. Malonyl-AMP. <i>Computational and Theoretical Chemistry</i> , 1996 , 365, 201-209		1
18	Pseudorotation in heterocyclic five-membered rings: tetrahydrofuran and pyrrolidine. <i>Computational and Theoretical Chemistry</i> , 1996 , 369, 157-165		46
17	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
16	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
15	Determination of Nonbonded Potential Parameters for Peptides. <i>The Journal of Physical Chemistry</i> , 1995 , 99, 13019-13027		25
14	Conformation and sweet tastes of L-aspartyl dipeptide methyl esters. <i>Biopolymers</i> , 1994 , 34, 1037-48	2.2	5
13	Conformational study on proline-containing tripeptides of ribonuclease T1. <i>The Journal of Physical Chemistry</i> , 1993 , 97, 9248-9258		7
12	Conformation and hydration of acetylcholine. <i>Journal of Molecular Structure</i> , 1992 , 269, 231-241	3.4	11
11	Conformation and hydration of aspartame. <i>International Journal of Peptide and Protein Research</i> , 1991 , 38, 79-83		10
10	Conformational analysis of poly(2-hydroxyethyl methacrylate). <i>Journal of Polymer Science Part A</i> , 1991 , 29, 393-398	2.5	3
9	Conformational analysis of some antibacterial agent 4-aminodiphenyl sulfones. <i>Archives of Pharmacal Research</i> , 1990 , 13, 43-50	6.1	3
8	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
7	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
6	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
5	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
4	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
3	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

- 2 Conformational study of the dinucleotide dGpdCp-tetrapeptide Ala4 complex. *Macromolecules*, **1984**, 17, 138-147 5.5 13
- 1 Additivity of atomic static polarizabilities and dispersion coefficients. *Theoretica Chimica Acta*, **1982**, 61, 41-48 111