## Krzysztof Kuczera

## List of Publications by Year

 in descending orderSource: https:/|exaly.com/author-pdf/8310002/publications.pdf
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| 45 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| papers |

Observing reorientation dynamics with Time－Resolved fluorescence and molecular dynamics in
1 varying periodic boundary conditions．Journal of Biomolecular Structure and Dynamics，2022， 40 ， 10614－10628．

2 Simulation analysis of selective alanine mutation effect on stability of human prion protein．Journal of Biomolecular Structure and Dynamics，2022，，1－11．

Length Dependent Folding Kinetics of Alanine－Based Helical Peptides from Optimal Dimensionality
Reduction．Life，2021，11， 385.

Free energy simulations to understand the effect of Met ât＇Ala mutations at positions 205， 206 and 213
Free energy simulations to understand the effect of Met ât＇Ala mutations at pos
on stability of human prion protein．Biophysical Chemistry，2021，275，106620．
Probing the Internal Dynamics and Shape of Simple Peptides in Urea，Guanidinium Hydrochloride，and
$8 \quad$ Proline Solutions with Time－Resolved Fluorescence Anisotropy and Atomistic Cosolvent Simulations． Journal of Physical Chemistry B，2021，125，10972－10984．

9 Dissecting Multiple Pathways in the Relaxation Dynamics of Helix $\langle==>$ Coil Transitions with Optimum
9 Dimensionality Reduction．Biomolecules，2021，11， 1351.

10 Oligomeric States and Hydrodynamic Properties of Lysyl Oxidase－Like 2．Biomolecules，2021，11， 1846.
4.0

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Unassisted N－acetyl－phenylalanine－amide transport across membrane with varying lipid size and
composition：kinetic measurements and atomistic molecular dynamics simulation．Journal of
Biomolecular Structure and Dynamics，2020，，1－16．
Reorientation motions of＜i＞ 12 ＜／i＞－acetyl－tryptophan－amide（NATA dipeptide）in aqueous solution and
with co－solvents：Molecular dynamics vs hydrodynamic model．Physics of Fluids，2020，32，．
 dimensionality reduction．Journal of Chemical＇Physics，2019，150， 074902.

Dynamic elements and kinetics：Most favorable conformations of peptides in solution with
14 measurements and simulations．Journal of Chemical Physics，2019，151， 225102.
3.0

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Simulating the free energy of passive membrane permeation for small molecules．Molecular
Simulation，2018，44，1147－1157．
2.0

Helixấ＂Coil Transition Courses Through Multiple Pathways and Intermediates：Fast Kinetic Measurements and Dimensionality Reduction．Journal of Physical Chemistry B，2018，122，10806－10816．
2.6

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17 Deprotonation of a Single Amino Acid Residue Induces Significant Stability in an $\hat{I} \pm$－Helical
Heteropeptide．Journal of Physical Chemistry B，2018，122，11508－11518．
2.6

9

2.8

1

Permeation of the three aromatic dipeptides through lipid bilayers: Experimental and computational study. Journal of Chemical Physics, 2016, 144, 245103.

Publisherâ $€^{T M}$ s Note: â€œPermeation of the three aromatic dipeptides through lipid bilayers: Experimental
21 and computational studyâ€[J. Chem. Phys. 144, 245103 (2016)]. Journal of Chemical Physics, 2016, 145,
$3.0 \quad 1$ 059902.

Probing Selection Mechanism of the Most Favorable Conformation of a Dipeptide in Chaotropic and Kosmotropic Solution. Journal of Physical Chemistry B, 2016, 120, 6939-6950.
Reorientation Motion and Preferential Interactions of a Peptide in Denaturants and Osmolyte. Journal
of Physical Chemistry B, 2016, 120, 3089-3099.

24 Molecular Modeling of Peptides. Methods in Molecular Biology, 2015, 1268, 15-41.25 Observation and Comprehensive Molecular Dynamics. Journal of Physical Chemistry B, 2014, 118,2.6639-647.
26 Detailed Microscopic Unfolding Pathways of an $\hat{I} \pm$-Helix and a $\hat{1}$-Hairpin: Direct Observation and Molecular Dynamics. Journal of Physical Chemistry B, 2014, 118, 7233-7246.
29 Experiments and Comprehensive Simulations of the Formation of a Helical Turn. Journal of Physical Chemistry B, 2012, 116, 6598-6610.$30 \quad \begin{aligned} & \text { Unassisted Transport of }\langle\mathrm{i}\rangle \mathrm{N}</ \mathrm{i}\rangle- \text { Acetyl-<scp>|</scp>-tryptophanamide through Membrane: Experiment } \\ & \text { and Simulation of Kinetics. Journal of Physical Chemistry B, 2012, 116, 2739-2750. }\end{aligned}$2.6Reorientations of Aromatic Amino Acids and Their Side Chain Models: Anisotropy Measurements and
Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2010, 114, 133-142.
2.5 ..... 15Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2010, 114, 133-142.Helix Formation in a Pentapeptide: Experiment and Force-field Dependent Dynamics. Journal of PhysicalChemistry A, 2010, 114, 12391-12402.
Divergence in proteinsâ€•Study of Cytochrome b5 isoforms using coreâ€swap mutants. FASEB Journal, 33 2010, 24,521.6.Kinetics of Helix Unfolding: Molecular Dynamics Simulations with Milestoning. Journal of Physical

| \# | Article | IF | Citations |
| :---: | :---: | :---: | :---: |
| 37 | Molecular Dynamics Simulations of Conformational Behavior of Linear RGD Peptidomimetics and Cyclic Prodrugs in Aqueous and Octane Solutions. Journal of Biomolecular Structure and Dynamics, 2002, 19, 775-788. | 3.5 | 12 |
| 38 | Computational Characterization of Substrate Binding and Catalysis in $\langle\mathrm{i}\rangle \mathrm{S}\langle\mathrm{i}\rangle$-Adenosylhomocysteine Hydrolase. Biochemistry, 2001, 40, 15143-15152. | 2.5 | 17 |
| 39 | Structure and Dynamics of Calcium-activated Calmodulin in Solution. Journal of Biomolecular Structure and Dynamics, 2001, 19, 247-271. | 3.5 | 40 |
| 40 | Structure and Function of S-Adenosylhomocysteine Hydrolase. Cell Biochemistry and Biophysics, 2000, 33, 101-125. | 1.8 | 148 |
| 41 | Transitions from $\hat{I} \pm$ to $̈ €$ Helix Observed in Molecular Dynamics Simulations of Synthetic Peptidesâ€. Biochemistry, 2000, 39, 13737-13747. | 2.5 | 51 |
| 42 | Conformational free energy surface of the linear DPDPE peptide: cost of pre-organization for disulfide bond formation. Theoretical Chemistry Accounts, 1999, 101, 274-281. | 1.4 | 6 |
| 43 | One-Electron Photooxidation ofN-Methionyl Peptides. Mechanism of Sulfoxide and Azasulfonium Diastereomer Formation through Reaction of Sulfide Radical Cation Complexes with Oxygen or Superoxide. Journal of the American Chemical Society, 1998, 120, 3345-3356. | 13.7 | 68 |
| 44 | Unusual Encapsulation of Two Nitrates in a Single Bicyclic Cage. Journal of the American Chemical Society, 1998, 120, 8899-8900. | 13.7 | 140 |
| 45 | Picosecond Time-Resolved Fourier-Transform Raman Spectroscopy and Normal-Mode Analysis of the Ground State and Singlet Excited State of Anthraceneâ€. The Journal of Physical Chemistry, 1996, 100, 11857-11862. | 2.9 | 15 |

