## Antonio Trovato

## List of Publications by Year in descending order

Source: https:/|exaly.com/author-pdf/3160033/publications.pdf
Version: 2024-02-01
PASTA 2.0: an improved server for protein aggregation prediction. Nucleic Acids Research, 2014, 42,
6 Phase diagram of force-induced DNA unzipping in exactly solvable models. Physical Review E, 2001, 64,
031901.
A Condensation-Ordering Mechanism in Nanoparticle-Catalyzed Peptide Aggregation. PLoS
$7 \quad \begin{aligned} & \text { A Condensation-Ordering Mechanism in Nan } \\ & \text { Computational Biology, 2009, 5, el000458. }\end{aligned}$
3.2
90

8 Geometry and physics of proteins. Proteins: Structure, Function and Bioinformatics, 2002, 47, 315-322.

REPETITA: detection and discrimination of the periodicity of protein solenoid repeats by discrete
12 Fourier transform. Bioinformatics, 2009, 25, i289-i295.
4.1

57

13 Common attributes of native-state structures of proteins, disordered proteins, and amyloid.
$7.1 \quad 48$

14 A simple and efficient statistical potential for scoring ensembles of protein structures. Scientific
3.3

48
Reports, 2012, 2, .
3.4

44

[^0]Exploring the correlation between the folding rates of proteins and the entanglement of their native
states. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 504001.
2.1

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17 Quorum vs. diffusion sensing: a quantitative analysis of the relevance of absorbing or reflecting
boundaries. FEMS Microbiology Letters, 2014, 352, 198-203.
1.8

39
19 Linking in domain-swapped protein dimers. Scientific Reports, 2016, 6, 33872.

| 25 | BACHSCORE. A tool for evaluating efficiently and reliably the quality of large sets of protein structures. Computer Physics Communications, 2013, 184, 2860-2865. | 7.5 | 20 |
| :---: | :---: | :---: | :---: |
| 26 | Modeling quorum sensing trade-offs between bacterial cell density and system extension from open boundaries. Scientific Reports, 2016, 6, 39142. | 3.3 | 20 |
| 27 | A variational approach to the localization transition of heteropolymers at interfaces. Europhysics Letters, 1999, 46, 301-306. | 2.0 | 19 |
| 28 | Native fold and docking pose discrimination by the same residueâ€based scoring function. Proteins: Structure, Function and Bioinformatics, 2015, 83, 621-630. | 2.6 | 17 |
| 29 | A new perspective on analysis of helix-helix packing preferences in globular proteins. Proteins: Structure, Function and Bioinformatics, 2004, 55, 1014-1022. | 2.6 | 16 |
| 30 | Continuum model for polymers with finite thickness. Journal of Physics A, 2005, 38, L277-L283. | 1.6 | 16 |
| 31 | When a DNA triple helix melts: an analogue of the Efimov state. New Journal of Physics, 2010, 12, 083057. | 2.9 | 16 |
| 32 | Simplified Exactly Solvable Model for<mml:math xmlns:mml="http:/\|www.w3.org/1998/Math/MathML" display="inline">[mml:mi](mml:mi) ${ }^{2}$ </mml:mi></mml:math>-Amyloid Aggregation. Physical Review Letters, 2010, 105, 108102. | 7.8 | 15 |
| 33 | Universality for interacting oriented self-avoiding walk: A transfer matrix calculation. Physical Review E, 1997, 56, 131-143. | 2.1 | 14 |

34 Geometry of proteins: Hydrogen bonding, sterics, and marginally compact tubes. Physical Review E,

Symmetry, shape, and order. Proceedings of the National Academy of Sciences of the United States of

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        An Efficient Algorithm to Perform Local Concerted Movements of a Chain Molecule. PLoS ONE, 2015,
        10, e0118342.


49 Marginal compactness of protein native structures. Journal of Physics Condensed Matter, 2006, 18,
    S297-S306.

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Aggregation of natively folded proteins: a theoretical approach. Journal of Physics Condensed


[^0]:    Amyloidogenic Potential of Transthyretin Variants. Journal of Biological Chemistry, 2009, 284,
    15 25832-25841.

