Anna Tarakanova

List of Publications by Year
in descending order

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25 papers	1,171 citations	471509 17 h-index	580821 25 g-index
25 all docs	25 docs citations	25 times ranked	1477 citing authors

#	Article	IF	Citations
1	Changes in elastin structure and extensibility induced by hypercalcemia and hyperglycemia. Acta Biomaterialia, 2023, 163, 131-145.	8.3	3
2	Tropoelastin and Elastin Assembly. Frontiers in Bioengineering and Biotechnology, 2021, 9, 643110.	4.1	71
3	Fuzzy binding model of molecular interactions between tropoelastin and integrin alphaVbeta3. Biophysical Journal, 2021, 120, 3138-3151.	0.5	4
4	Modeling coronavirus spike protein dynamics: implications for immunogenicity and immune escape. Biophysical Journal, 2021, 120, 5592-5618.	0.5	17
5	DSResSol: A Sequence-Based Solubility Predictor Created with Dilated Squeeze Excitation Residual Networks. International Journal of Molecular Sciences, 2021, 22, 13555.	4.1	35
6	Cartilage and collagen mechanics under large-strain shear within in vivo and at supraphysiogical temperatures. Journal of the Mechanical Behavior of Biomedical Materials, 2020, 103, 103595.	3.1	8
7	Transglutaminase-Mediated Cross-Linking of Tropoelastin to Fibrillin Stabilises the Elastin Precursor Prior to Elastic Fibre Assembly. Journal of Molecular Biology, 2020, 432, 5736-5751.	4.2	17
8	Molecular Design of Soluble Zein Protein Sequences. Biophysical Journal, 2020, 118, 45a.	0.5	4
9	The Order-Disorder Continuum: Linking Predictions of Protein Structure and Disorder through Molecular Simulation. Scientific Reports, 2020, 10, 2068.	3.3	13
10	Allysine modifications perturb tropoelastin structure and mobility on a local and global scale. Matrix Biology Plus, 2019, 2, 100002.	3.5	12
11	Spider dragline silk as torsional actuator driven by humidity. Science Advances, 2019, 5, eaau9183.	10.3	108
12	Tropoelastin is a Flexible Molecule that Retains its Canonical Shape. Macromolecular Bioscience, 2019, 19, 1800250.	4.1	19
13	Multiscale Modeling of Silk and Silkâ€Based Biomaterialsâ€”A Review. Macromolecular Bioscience, 2019, 19, e1800253.	4.1	40
14	Multiscale modeling of keratin, collagen, elastin and related human diseases: Perspectives from atomistic to coarse-grained molecular dynamics simulations. Extreme Mechanics Letters, 2018, 20, 112-124.	4.1	39
15	Fabrication and Characterization of Recombinant Silkâ€Elastinâ€Likeâ€Protein (SELP) Fiber. Macromolecular Bioscience, 2018, 18, e1800265.	4.1	26
16	Molecular model of human tropoelastin and implications of associated mutations. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 7338-7343.	7.1	35
17	Unraveling the molecular mechanisms of thermo-responsive properties of silk-elastin-like proteins by integrating multiscale modeling and experiment. Journal of Materials Chemistry B, 2018, 6, 3727-3734.	5.8	21
18	Computational smart polymer design based on elastin protein mutability. Biomaterials, 2017, 127, 49-60.	11.4	49

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19	Synergistic Integration of Experimental and Simulation Approaches for the de Novo Design of Silk-Based Materials. Accounts of Chemical Research, 2017, 50, 866-876.	15.6	45
20	Modeling and Experiment Reveal Structure and Nanomechanics across the Inverse Temperature Transition in B. mori Silk-Elastin-like Protein Polymers. ACS Biomaterials Science and Engineering, 2017, 3, 2889-2899.	5.2	20
21	Design of Multistimuli Responsive Hydrogels Using Integrated Modeling and Genetically Engineered Silkâ€“Elastinâ€Like Proteins. Advanced Functional Materials, 2016, 26, 4113-4123.	14.9	83
22	Subtle balance of tropoelastin molecular shape and flexibility regulates dynamics and hierarchical assembly. Science Advances, 2016, 2, e1501145.	10.3	43
23	Molecular modeling of protein materials: case study of elastin. Modelling and Simulation in Materials Science and Engineering, 2013, 21, 063001.	2.0	18
24	Nonlinear material behaviour of spider silk yields robust webs. Nature, 2012, 482, 72-76.	27.8	383
25	A Materiomics Approach to Spider Silk: Protein Molecules to Webs. Jom, 2012, 64, 214-225.	1.9	58