Petr Stadlbauer

List of Publications by Year
in descending order

25	1,180	471509 17	610901 24
papers	citations	h-index	g-index

29	29	29	1078
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Exploring Sequence Space to Design Controllable G-Quadruplex Topology Switches. CCS Chemistry, 2022, 4, 3036-3050.	7.8	6
2	Early steps of oxidative damage in DNA quadruplexes are position-dependent: Quantum mechanical and molecular dynamics analysis of human telomeric sequence containing ionized guanine. International Journal of Biological Macromolecules, 2022, 194, 882-894.	7.5	2
3	Insights into G-Quadruplexâ€“Hemin Dynamics Using Atomistic Simulations: Implications for Reactivity and Folding. Journal of Chemical Theory and Computation, 2021, 17, 1883-1899.	5.3	19
4	Gâ€Quadruplex Formation by DNA Sequences Deficient in Guanines: Two Tetrad Parallel Quadruplexes Do Not Fold Intramolecularly. Chemistry - A European Journal, 2021, 27, 12115-12125.	3.3	15
5	The beginning and the end: flanking nucleotides induce a parallel G-quadruplex topology. Nucleic Acids Research, 2021, 49, 9548-9559.	14.5	27
6	Molecular dynamics simulations of G-quadruplexes: The basic principles and their application to folding and ligand binding. Annual Reports in Medicinal Chemistry, 2020, , 197-241.	0.9	6
7	Stability of Two-Quartet G-Quadruplexes and Their Dimers in Atomistic Simulations. Journal of Chemical Theory and Computation, 2020, 16, 3447-3463.	5.3	16
8	Parallel G-triplexes and G-hairpins as potential transitory ensembles in the folding of parallel-stranded DNA G-Quadruplexes. Nucleic Acids Research, 2019, 47, 7276-7293.	14.5	42
9	Structural Dynamics of Lateral and Diagonal Loops of Human Telomeric G-Quadruplexes in Extended MD Simulations. Journal of Chemical Theory and Computation, 2018, 14, 5011-5026.	5.3	28
10	Structural dynamics of propeller loop: towards folding of RNA G-quadruplex. Nucleic Acids Research, 2018, 46, 8754-8771.	14.5	29
11	Structure of a Stable G-Hairpin. Journal of the American Chemical Society, 2017, 139, 3591-3594.	13.7	51
12	Exploring the Dynamics of Propeller Loops in Human Telomeric DNA Quadruplexes Using Atomistic Simulations. Journal of Chemical Theory and Computation, 2017, 13, 2458-2480.	5.3	39
13	Folding of guanine quadruplex moleculesâ€“funnel-like mechanism or kinetic partitioning? An overview from MD simulation studies. Biochimica Et Biophysica Acta - General Subjects, 2017, 1861, 1246-1263.	2.4	89
14	Effect of Monovalent Ion Parameters on Molecular Dynamics Simulations of G-Quadruplexes. Journal of Chemical Theory and Computation, 2017, 13, 3911-3926.	5.3	50
15	Conformations of Human Telomeric G-Quadruplex Studied Using a Nucleotide-Independent Nitroxide Label. Biochemistry, 2016, 55, 360-372.	2.5	19
16	Coarse-Grained Simulations Complemented by Atomistic Molecular Dynamics Provide New Insights into Folding and Unfolding of Human Telomeric G-Quadruplexes. Journal of Chemical Theory and Computation, 2016, 12, 6077-6097.	5.3	50
17	Can We Execute Reliable MM-PBSA Free Energy Computations of Relative Stabilities of Different Guanine Quadruplex Folds?. Journal of Physical Chemistry B, 2016, 120, 2899-2912.	2.6	32
18	Frontispiece: Tetraloop-like Geometries Could Form the Basis of the Catalytic Activity of the Most Ancient Ribooligonucleotides. Chemistry - A European Journal, 2015, 21, n/a-n/a.	3.3	0

#	Article	IF	Citations
19	Tetraloopâ€like Geometries Could Form the Basis of the Catalytic Activity of the Most Ancient Ribooligonucleotides. Chemistry - A European Journal, 2015, 21, 3596-3604.	3.3	9
20	Extended molecular dynamics of ac-kitpromoter quadruplex. Nucleic Acids Research, 2015, 43, 8673-8693.	14.5	49
21	Hairpins participating in folding of human telomeric sequence quadruplexes studied by standard and T-REMD simulations. Nucleic Acids Research, 2015, 43, gkv994.	14.5	47
22	Triplex intermediates in folding of human telomeric quadruplexes probed by microsecond-scale molecular dynamics simulations. Biochimie, 2014, 105, 22-35.	2.6	72
23	Molecular Dynamics Simulations of Nucleic Acids. From Tetranucleotides to the Ribosome. Journal of Physical Chemistry Letters, 2014, 5, 1771-1782.	4.6	139
24	Structural dynamics of possible late-stage intermediates in folding of quadruplex DNA studied by molecular simulations. Nucleic Acids Research, 2013, 41, 7128-7143.	14.5	111
25	Reference Simulations of Noncanonical Nucleic Acids with Different Ï‡ Variants of the AMBER Force Field: Quadruplex DNA, Quadruplex RNA, and Z-DNA. Journal of Chemical Theory and Computation, 2012, 8, 2506-2520.	5.3	231