

# Petr Peřinka

## List of Publications by Year in descending order

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Version: 2024-02-01

32  
papers

1,239  
citations

567281

15  
h-index

414414

32  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1261  
citing authors

#	ARTICLE	IF	CITATIONS
1	DNA tetraplex formation in the control region of c-myc. <i>Nucleic Acids Research</i> , 1998, 26, 1167-1172.	14.5	525
2	The Presence and Localization of G-Quadruplex Forming Sequences in the Domain of Bacteria. <i>Molecules</i> , 2019, 24, 1711.	3.8	75
3	Role of tumor suppressor p53 domains in selective binding to supercoiled DNA. <i>Nucleic Acids Research</i> , 2002, 30, 4966-4974.	14.5	57
4	In-Depth Bioinformatic Analyses of Nidovirales Including Human SARS-CoV-2, SARS-CoV, MERS-CoV Viruses Suggest Important Roles of Non-canonical Nucleic Acid Structures in Their Lifecycles. <i>Frontiers in Microbiology</i> , 2020, 11, 1583.	3.5	57
5	The Amino Acid Composition of Quadruplex Binding Proteins Reveals a Shared Motif and Predicts New Potential Quadruplex Interactors. <i>Molecules</i> , 2018, 23, 2341.	3.8	51
6	Characterization of p53 Family Homologs in Evolutionary Remote Branches of Holozoa. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6.	4.1	40
7	Enhancement of p53 sequence-specific binding by DNA supercoiling. <i>Oncogene</i> , 2004, 23, 2119-2127.	5.9	37
8	Preferential Binding of Hot Spot Mutant p53 Proteins to Supercoiled DNA In Vitro and in Cells. <i>PLoS ONE</i> , 2013, 8, e59567.	2.5	34
9	A Single-Surface Electrochemical Biosensor for the Detection of DNA Triplet Repeat Expansion. <i>Electroanalysis</i> , 2006, 18, 141-151.	2.9	33
10	DNA topology influences p53 sequence-specific DNA binding through structural transitions within the target sites. <i>Biochemical Journal</i> , 2008, 412, 57-63.	3.7	33
11	Analyses of viral genomes for G-quadruplex forming sequences reveal their correlation with the type of infection. <i>Biochimie</i> , 2021, 186, 13-27.	2.6	33
12	G-Quadruplexes in the Archaea Domain. <i>Biomolecules</i> , 2020, 10, 1349.	4.0	31
13	Microanalysis of DNA by stripping transfer voltammetry. <i>Bioelectrochemistry</i> , 2004, 63, 249-252.	4.6	26
14	Selective binding of tumor suppressor p53 protein to topologically constrained DNA: Modulation by intercalative drugs. <i>Biochemical and Biophysical Research Communications</i> , 2010, 393, 894-899.	2.1	22
15	SARS-CoV-2 hot-spot mutations are significantly enriched within inverted repeats and CpG island loci. <i>Briefings in Bioinformatics</i> , 2021, 22, 1338-1345.	6.5	20
16	Bioinformatics analyses and in vitro evidence for five and six stacked G-quadruplex forming sequences. <i>Biochimie</i> , 2018, 150, 70-75.	2.6	17
17	Unheeded SARS-CoV-2 proteins? A deep look into negative-sense RNA. <i>Briefings in Bioinformatics</i> , 2022, 23, .	6.5	15
18	Amino Acid Composition in Various Types of Nucleic Acid-Binding Proteins. <i>International Journal of Molecular Sciences</i> , 2021, 22, 922.	4.1	14

#	ARTICLE	IF	CITATIONS
19	G-Quadruplex in Gene Encoding Large Subunit of Plant RNA Polymerase II: A Billion-Year-Old Story. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7381.	4.1	13
20	Regulation of Phenolic Compound Production by Light Varying in Spectral Quality and Total Irradiance. <i>International Journal of Molecular Sciences</i> , 2022, 23, 6533.	4.1	13
21	Tracing dsDNA Virus-Host Coevolution through Correlation of Their G-Quadruplex-Forming Sequences. <i>International Journal of Molecular Sciences</i> , 2021, 22, 3433.	4.1	11
22	Searching for New Z-DNA/Z-RNA Binding Proteins Based on Structural Similarity to Experimentally Validated Z $\alpha$ Domain. <i>International Journal of Molecular Sciences</i> , 2022, 23, 768.	4.1	11
23	DNA modification with cisplatin affects sequence-specific DNA binding of p53 and p73 proteins in a target site-dependent manner. <i>FEBS Journal</i> , 2006, 273, 4693-4706.	4.7	9
24	The Changes in the p53 Protein across the Animal Kingdom Point to Its Involvement in Longevity. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8512.	4.1	9
25	Transcriptomic and Proteomic Analysis of Drought Stress Response in Opium Poppy Plants during the First Week of Germination. <i>Plants</i> , 2021, 10, 1878.	3.5	9
26	Are There Hidden Genes in DNA/RNA Vaccines?. <i>Frontiers in Immunology</i> , 2022, 13, 801915.	4.8	9
27	Impact of cadmium, cobalt and nickel on sequence-specific DNA binding of p63 and p73 in vitro and in cells. <i>Biochemical and Biophysical Research Communications</i> , 2015, 456, 29-34.	2.1	7
28	Searching for G-Quadruplex-Binding Proteins in Plants: New Insight into Possible G-Quadruplex Regulation. <i>BioTech</i> , 2021, 10, 20.	2.6	7
29	p53 Binds Preferentially to Non-B DNA Structures Formed by the Pyrimidine-Rich Strands of GAA-TTC Trinucleotide Repeats Associated with Friedreich's Ataxia. <i>Molecules</i> , 2019, 24, 2078.	3.8	6
30	Electrochemical Activity of Wedelolactone and Probing its Interaction with DNA Using Voltammetry at a Carbon Electrode. <i>Electroanalysis</i> , 2015, 27, 2268-2271.	2.9	5
31	Liver regeneration during the associating liver partition and portal vein ligation for staged hepatectomy procedure in <i>Sus scrofa</i> is positively modulated by stem cells. <i>Oncology Letters</i> , 2018, 15, 6309-6321.	1.8	2
32	Letter to the Editor: Significant mutation enrichment in inverted repeat sites of new SARS-CoV-2 strains. <i>Briefings in Bioinformatics</i> , 2021, 22, .	6.5	2