

Vladimír Kopec^{1/2}

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5904358/publications.pdf>

Version: 2024-02-01

43
papers

939
citations

394421

19
h-index

454955

30
g-index

46
all docs

46
docs citations

46
times ranked

1206
citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of Raman and Raman optical activity of saccharides in solution. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 1983-1993.	2.8	29
2	Pathways of carrier recombination in Si/SiO ₂ nanocrystal superlattices. <i>Journal of Applied Physics</i> , 2019, 126, 163101.	2.5	4
3	Interaction of Halictine-Related Antimicrobial Peptides with Membrane Models. <i>International Journal of Molecular Sciences</i> , 2019, 20, 631.	4.1	12
4	Production of recombinant soluble dimeric C-type lectin-like receptors of rat natural killer cells. <i>Scientific Reports</i> , 2019, 9, 17836.	3.3	6
5	Observation of Giant Infrared Circular Dichroism in Plasmonic 2D-Metamaterial Arrays. <i>ACS Photonics</i> , 2018, 5, 1176-1180.	6.6	26
6	Correction to Slit-Enhanced Chiral- and Broadband Infrared Ultra-Sensing. <i>ACS Photonics</i> , 2018, 5, 4186-4186.	6.6	0
7	Slit-Enhanced Chiral- and Broadband Infrared Ultra-Sensing. <i>ACS Photonics</i> , 2018, 5, 3238-3245.	6.6	30
8	Drop coating deposition Raman spectroscopy of proteinogenic amino acids compared with their solution and crystalline state. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 185, 207-216.	3.9	21
9	Random protein sequences can form defined secondary structures and are well-tolerated in vivo. <i>Scientific Reports</i> , 2017, 7, 15449.	3.3	68
10	Dynamics of lipid layers with/without bounded antimicrobial peptide halictine-1. <i>Vibrational Spectroscopy</i> , 2017, 93, 42-51.	2.2	2
11	The Role of Cysteine Residues in Catalysis of Phosphoenolpyruvate Carboxykinase from <i>Mycobacterium tuberculosis</i> . <i>PLoS ONE</i> , 2017, 12, e0170373.	2.5	0
12	Influence of ligand binding on structure and thermostability of human α -acid glycoprotein. <i>Journal of Molecular Recognition</i> , 2016, 29, 70-79.	2.1	6
13	Organization of the MADS Box from Human SRF Revealed by Tyrosine Perturbation. <i>Journal of Physical Chemistry B</i> , 2015, 119, 1793-1801.	2.6	2
14	Membrane activity of the pentaene macrolide didehydroroflomycoin in model lipid bilayers. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 444-452.	2.6	9
15	DNA Electric Charge Oscillations Govern Protein-DNA Recognition. <i>PLoS ONE</i> , 2015, 10, e0124444.	2.5	3
16	Instability of cerebrospinal fluid after delayed storage and repeated freezing: a holistic study by drop coating deposition Raman spectroscopy. <i>Clinical Chemistry and Laboratory Medicine</i> , 2014, 52, 657-64.	2.3	16
17	Protonation Effect of Tyrosine in a Segment of the SRF Transcription Factor: A Combined Optical Spectroscopy, Molecular Dynamics, and Density Functional Theory Calculation Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 16086-16095.	2.6	9
18	Structural changes of human RNase L upon homodimerization investigated by Raman spectroscopy. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 1039-1044.	2.3	1

#	ARTICLE	IF	CITATIONS
19	Antimicrobial Peptide from the Eusocial Bee <i>Halictus sexcinctus</i> Interacting with Model Membranes. <i>Spectroscopy</i> , 2012, 27, 497-502.	0.8	7
20	Two-dimensional correlation analysis of Raman optical activity – Basic rules and data treatment. <i>Vibrational Spectroscopy</i> , 2012, 60, 193-199.	2.2	23
21	Raman Spectroscopy Adds Complementary Detail to the High-Resolution X-Ray Crystal Structure of Photosynthetic PsbP from <i>Spinacia oleracea</i> . <i>PLoS ONE</i> , 2012, 7, e46694.	2.5	20
22	Molecular architecture of mouse activating NKR-P1 receptors. <i>Journal of Structural Biology</i> , 2011, 175, 434-441.	2.8	34
23	Structural analysis of natural killer cell receptor protein 1 (NKR-P1) extracellular domains suggests a conserved long loop region involved in ligand specificity. <i>Journal of Molecular Modeling</i> , 2011, 17, 1353-1370.	1.8	22
24	Oligomerization of adenosine 5'-methylphosphonate, an isopolar AMP analogue: Evaluation of the route to short oligoadenylates. <i>Biopolymers</i> , 2010, 93, 277-289.	2.4	1
25	Structural and dynamic changes of the serum response element and the core domain of serum response factor induced by their association. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 203-208.	2.1	6
26	Complex of Amyloid β Peptides with 24-Hydroxycholesterol and Its Effect on Hemicholinium-3 Sensitive Carriers. <i>Neurochemical Research</i> , 2008, 33, 412-421.	3.3	23
27	Soluble recombinant CD69 receptors optimized to have an exceptional physical and chemical stability display prolonged circulation and remain intact in the blood of mice. <i>FEBS Journal</i> , 2008, 275, 5589-5606.	4.7	26
28	Anharmonic effects in IR, Raman, and Raman optical activity spectra of alanine and proline zwitterions. <i>Journal of Chemical Physics</i> , 2007, 126, 2245-2253.	3.0	61
29	Structure of the dimeric N-glycosylated form of fungal β -N-acetylhexosaminidase revealed by computer modeling, vibrational spectroscopy, and biochemical studies. <i>BMC Structural Biology</i> , 2007, 7, 32.	2.3	24
30	Conformational Flexibility of l-Alanine Zwitterion Determines Shapes of Raman and Raman Optical Activity Spectral Bands. <i>Journal of Physical Chemistry A</i> , 2006, 110, 4689-4696.	2.5	90
31	Proline Zwitterion Dynamics in Solution, Glass, and Crystalline State. <i>Journal of the American Chemical Society</i> , 2006, 128, 13451-13462.	13.7	82
32	Structure and dynamics of the N-terminal loop of PsbQ from photosystem II of <i>Spinacia oleracea</i> . <i>Biochemical and Biophysical Research Communications</i> , 2006, 345, 287-291.	2.1	7
33	Structure of the ring in drop coating deposited proteins and its implication for Raman spectroscopy of biomolecules. <i>Vibrational Spectroscopy</i> , 2006, 42, 184-187.	2.2	52
34	Vibrational spectroscopy and computer modeling of proteins: solving structure of β -acid glycoprotein. <i>Spectroscopy</i> , 2004, 18, 323-330.	0.8	11
35	Thermal stability of the human blood serum acid β -1-glycoprotein in acidic media. <i>Biophysical Chemistry</i> , 2003, 103, 25-33.	2.8	7
36	Eight Amino Acids Form the ATP Recognition Site of Na ⁺ /K ⁺ -ATPase. <i>Biochemistry</i> , 2003, 42, 6446-6452.	2.5	27

#	ARTICLE	IF	CITATIONS
37	Structure of human α 1-acid glycoprotein and its high-affinity binding site. <i>Biochemical and Biophysical Research Communications</i> , 2003, 300, 41-46.	2.1	80
38	ATP-binding is stabilized by a stacking interaction within the binding site of Na ⁺ /K ⁺ -ATPase. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 416-420.	2.1	6
39	Molecular Characterization of Binding of Calcium and Carbohydrates by an Early Activation Antigen of Lymphocytes CD69. <i>Biochemistry</i> , 2003, 42, 9295-9306.	2.5	33
40	Study of Chaperone-Like Activity of Human Haptoglobin: Conformational Changes under Heat Shock Conditions and Localization of Interaction Sites. <i>Biological Chemistry</i> , 2002, 383, 1667-76.	2.5	24
41	Phe475 and Glu446 but not Ser445 participate in ATP-binding to the α -subunit of Na ⁺ /K ⁺ -ATPase. <i>Biochemical and Biophysical Research Communications</i> , 2002, 297, 154-159.	2.1	19
42	Secondary and tertiary structure of nucleotide-binding domain of α -subunit of Na ⁺ /K ⁺ -ATPase. <i>Biopolymers</i> , 2002, 67, 242-246.	2.4	5
43	Raman spectroscopy study of acid-base and structural properties of 9-[2-(phosphonomethoxy)ethyl]adenine in aqueous solutions. <i>Biopolymers</i> , 2002, 67, 285-288.	2.4	5