VladimÃ-r Kopecký

List of Publications by Year in descending order

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43 939 19 30 papers citations h-index g-index

46 46 46 1206 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Conformational Flexibility ofl-Alanine Zwitterion Determines Shapes of Raman and Raman Optical Activity Spectral Bands. Journal of Physical Chemistry A, 2006, 110, 4689-4696.	2.5	90
2	Proline Zwitterion Dynamics in Solution, Glass, and Crystalline State. Journal of the American Chemical Society, 2006, 128, 13451-13462.	13.7	82
3	Structure of human $\hat{l}\pm 1$ -acid glycoprotein and its high-affinity binding site. Biochemical and Biophysical Research Communications, 2003, 300, 41-46.	2.1	80
4	Random protein sequences can form defined secondary structures and are well-tolerated in vivo. Scientific Reports, 2017, 7, 15449.	3.3	68
5	Anharmonic effects in IR, Raman, and Raman optical activity spectra of alanine and proline zwitterions. Journal of Chemical Physics, 2007, 126, 224513.	3.0	61
6	Structure of the ring in drop coating deposited proteins and its implication for Raman spectroscopy of biomolecules. Vibrational Spectroscopy, 2006, 42, 184-187.	2.2	52
7	Molecular architecture of mouse activating NKR-P1 receptors. Journal of Structural Biology, 2011, 175, 434-441.	2.8	34
8	Molecular Characterization of Binding of Calcium and Carbohydrates by an Early Activation Antigen of Lymphocytes CD69â€. Biochemistry, 2003, 42, 9295-9306.	2.5	33
9	Slit-Enhanced Chiral- and Broadband Infrared Ultra-Sensing. ACS Photonics, 2018, 5, 3238-3245.	6.6	30
10	Simulation of Raman and Raman optical activity of saccharides in solution. Physical Chemistry Chemical Physics, 2020, 22, 1983-1993.	2.8	29
11	Eight Amino Acids Form the ATP Recognition Site of Na+/K+-ATPaseâ€. Biochemistry, 2003, 42, 6446-6452.	2.5	27
12	Soluble recombinant CD69 receptors optimized to have an exceptional physical and chemical stability display prolonged circulation and remain intact in the blood of mice. FEBS Journal, 2008, 275, 5589-5606.	4.7	26
13	Observation of Giant Infrared Circular Dichroism in Plasmonic 2D-Metamaterial Arrays. ACS Photonics, 2018, 5, 1176-1180.	6.6	26
14	Study of Chaperone-Like Activity of Human Haptoglobin: Conformational Changes under Heat Shock Conditions and Localization of Interaction Sites. Biological Chemistry, 2002, 383, 1667-76.	2.5	24
15	Structure of the dimeric N-glycosylated form of fungal \hat{l}^2 -N-acetylhexosaminidase revealed by computer modeling, vibrational spectroscopy, and biochemical studies. BMC Structural Biology, 2007, 7, 32.	2.3	24
16	Complex of Amyloid \hat{l}^2 Peptides with 24-Hydroxycholesterol and Its Effect on Hemicholinium-3 Sensitive Carriers. Neurochemical Research, 2008, 33, 412-421.	3.3	23
17	Two-dimensional correlation analysis of Raman optical activity $\hat{a} \in Basic$ rules and data treatment. Vibrational Spectroscopy, 2012, 60, 193-199.	2.2	23
18	Structural analysis of natural killer cell receptor protein 1 (NKR-P1) extracellular domains suggests a conserved long loop region involved in ligand specificity. Journal of Molecular Modeling, 2011, 17, 1353-1370.	1.8	22

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19	Drop coating deposition Raman spectroscopy of proteinogenic amino acids compared with their solution and crystalline state. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 185, 207-216.	3.9	21
20	Raman Spectroscopy Adds Complementary Detail to the High-Resolution X-Ray Crystal Structure of Photosynthetic PsbP from Spinacia oleracea. PLoS ONE, 2012, 7, e46694.	2.5	20
21	Phe475 and Glu446 but not Ser445 participate in ATP-binding to the $\hat{l}\pm$ -subunit of Na+/K+-ATPase. Biochemical and Biophysical Research Communications, 2002, 297, 154-159.	2.1	19
22	Instability of cerebrospinal fluid after delayed storage and repeated freezing: a holistic study by drop coating deposition Raman spectroscopy. Clinical Chemistry and Laboratory Medicine, 2014, 52, 657-64.	2.3	16
23	Interaction of Halictine-Related Antimicrobial Peptides with Membrane Models. International Journal of Molecular Sciences, 2019, 20, 631.	4.1	12
24	Vibrational spectroscopy and computer modeling of proteins: solving structure of î± ₁ -acid glycoprotein. Spectroscopy, 2004, 18, 323-330.	0.8	11
25	Protonation Effect of Tyrosine in a Segment of the SRF Transcription Factor: A Combined Optical Spectroscopy, Molecular Dynamics, and Density Functional Theory Calculation Study. Journal of Physical Chemistry B, 2013, 117, 16086-16095.	2.6	9
26	Membrane activity of the pentaene macrolide didehydroroflamycoin in model lipid bilayers. Biochimica Et Biophysica Acta - Biomembranes, 2015, 1848, 444-452.	2.6	9
27	Thermal stability of the human blood serum acid $\hat{l}\pm 1$ -glycoprotein in acidic media. Biophysical Chemistry, 2003, 103, 25-33.	2.8	7
28	Structure and dynamics of the N-terminal loop of PsbQ from photosystem II of Spinacia oleracea. Biochemical and Biophysical Research Communications, 2006, 345, 287-291.	2.1	7
29	Antimicrobial Peptide from the Eusocial Bee <i>Halictus sexcinctus</i> Interacting with Model Membranes. Spectroscopy, 2012, 27, 497-502.	0.8	7
30	ATP-binding is stabilized by a stacking interaction within the binding site of Na+/K+-ATPase. Biochemical and Biophysical Research Communications, 2003, 306, 416-420.	2.1	6
31	Structural and dynamic changes of the serum response element and the core domain of serum response factor induced by their association. Biochemical and Biophysical Research Communications, 2010, 391, 203-208.	2.1	6
32	Influence of ligand binding on structure and thermostability of human \hat{l}_{\pm} ₁ -acid glycoprotein. Journal of Molecular Recognition, 2016, 29, 70-79.	2.1	6
33	Production of recombinant soluble dimeric C-type lectin-like receptors of rat natural killer cells. Scientific Reports, 2019, 9, 17836.	3.3	6
34	Secondary and tertiary structure of nucleotide-binding domain of αsubunit of Na+/K+-ATPase. Biopolymers, 2002, 67, 242-246.	2.4	5
35	Raman spectroscopy study of acid-base and structural properties of 9-[2-(phosphonomethoxy)ethyl]adenine in aqueous solutions. Biopolymers, 2002, 67, 285-288.	2.4	5
36	Pathways of carrier recombination in Si/SiO2 nanocrystal superlattices. Journal of Applied Physics, 2019, 126, 163101.	2.5	4

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37	DNA Electric Charge Oscillations Govern Protein–DNA Recognition. PLoS ONE, 2015, 10, e0124444.	2.5	3
38	Organization of the MADS Box from Human SRF Revealed by Tyrosine Perturbation. Journal of Physical Chemistry B, 2015, 119, 1793-1801.	2.6	2
39	Dynamics of lipid layers with/without bounded antimicrobial peptide halictine-1. Vibrational Spectroscopy, 2017, 93, 42-51.	2.2	2
40	Oligomerization of adenosinâ€5′â€ <i>O</i> àâ€ylmethylphosphonate, an isopolar AMP analogue: Evaluation of the route to short oligoadenylates. Biopolymers, 2010, 93, 277-289.	2.4	1
41	Structural changes of human RNase L upon homodimerization investigated by Raman spectroscopy. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2012, 1824, 1039-1044.	2.3	1
42	The Role of Cysteine Residues in Catalysis of Phosphoenolpyruvate Carboxykinase from Mycobacterium tuberculosis. PLoS ONE, 2017, 12, e0170373.	2.5	0
43	Correction to Slit-Enhanced Chiral- and Broadband Infrared Ultra-Sensing. ACS Photonics, 2018, 5, 4186-4186.	6.6	O