

Nikolay Brandt

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

398
citations

933447

10
h-index

794594

19
g-index

42
all docs

42
docs citations

42
times ranked

537
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Optimization of the Rolling-Circle Filter for Raman Background Subtraction. <i>Applied Spectroscopy</i> , 2006, 60, 288-293. | 2.2 | 116 |
| 2 | Terahertz time-domain and Raman spectroscopy of the sulfur-containing peptide dimers: Low-frequency markers of disulfide bridges. <i>Vibrational Spectroscopy</i> , 2008, 47, 53-58. | 2.2 | 50 |
| 3 | Photobleaching as a method of increasing the accuracy in measuring carotenoid concentration in human skin by Raman spectroscopy. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2014, 10, 10-14. | 1.0 | 1 |
| 4 | Raman spectroscopy of disulfide bridges in thrombin. <i>Biomedical Spectroscopy and Imaging</i> , 2014, 3, 287-292. | 1.2 | 16 |
| 5 | Raman study of the cleavage of disulphide bonds in albumin, chymotrypsin, and thrombin. <i>Vibrational Spectroscopy</i> , 2017, 89, 75-80. | 2.2 | 16 |
| 6 | ATR-FTIR and FT Raman spectroscopy and laser cleaning of old paper samples with foxings. <i>Laser Physics</i> , 2009, 19, 483-492. | 1.2 | 15 |
| 7 | Photoinduced formation of thiols in human hair. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2016, 164, 43-48. | 3.8 | 13 |
| 8 | Terahertz time-domain and FTIR spectroscopic study of interaction of $\hat{1}\pm$ -chymotrypsin and protonated tris with 18-crown-6. <i>Chemical Physics Letters</i> , 2013, 560, 55-59. | 2.6 | 12 |
| 9 | Ricin, ricin agglutinin, and the ricin binding subunit structural comparison by Raman spectroscopy. <i>Journal of Molecular Structure</i> , 2005, 735-736, 293-298. | 3.6 | 11 |
| 10 | Raman spectroscopy of tris-(hydroxymethyl)aminomethane as a model system for the studies of $\hat{1}\pm$ -chymotrypsin activation by crown ether in organic solvents. <i>Journal of Molecular Structure</i> , 2003, 648, 177-182. | 3.6 | 10 |
| 11 | Effect of thermal denaturation, inhibition, and cleavage of disulfide bonds on the low-frequency Raman and FTIR spectra of chymotrypsin and albumin. <i>Journal of Biomedical Optics</i> , 2014, 20, 051015. | 2.6 | 10 |
| 12 | CARS and Raman spectroscopy of function-related conformational changes of chymotrypsin. <i>Journal of Raman Spectroscopy</i> , 2000, 31, 731-737. | 2.5 | 8 |
| 13 | Optoacoustic measurements of the porosity of paper samples with foxings. <i>Applied Physics Letters</i> , 2012, 101, 174101. | 3.3 | 8 |
| 14 | Raman Microspectroscopy of Old Paper Samples with Foxing. <i>Applied Spectroscopy</i> , 2014, 68, 495-501. | 2.2 | 8 |
| 15 | Conformational difference between ricin and ricin agglutinin in solution and crystal. <i>Doklady Biochemistry and Biophysics</i> , 2001, 376, 26-28. | 0.9 | 7 |
| 16 | Raman microspectroscopy of blue-green historical beads: Comparative study of undamaged and strongly degraded samples. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 506-512. | 2.5 | 6 |
| 17 | Terahertz time-domain and FTIR spectroscopy of tris-crown interaction. <i>Chemical Physics Letters</i> , 2012, 554, 201-207. | 2.6 | 5 |
| 18 | Laser ablation of paper: Raman identification of products. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1865-1871. | 2.3 | 5 |

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|----|---|-----|-----------|
| 19 | Raman microspectroscopy of nanodiamond-induced structural changes in albumin. Journal of Biomedical Optics, 2015, 20, 047004. | 2.6 | 5 |
| 20 | The problem of manifestation of tertiary structure in the vibrational spectra of proteins. Vibrational Spectroscopy, 2021, 114, 103250. | 2.2 | 5 |
| 21 | BROADBAND BACKGROUND IN RAMAN SPECTRA OF PROTEINS: DETERMINISTIC SIGNAL OR NOISE?. Fluctuation and Noise Letters, 2005, 05, L233-L241. | 1.5 | 4 |
| 22 | Variations in the IR spectra of yellow ochre due to mixing with binding medium and drying. Journal of Applied Spectroscopy, 2011, 78, 183-188. | 0.7 | 4 |
| 23 | THz and IR Spectroscopy of Molecular Systems That Simulate Function-Related Structural Changes of Proteins. Spectroscopy, 2012, 27, 429-432. | 0.8 | 4 |
| 24 | Raman and IR spectra and DFT calculations of potassium antimonyl silicate. Journal of Molecular Structure, 2019, 1193, 477-481. | 3.6 | 4 |
| 25 | Raman microspectroscopy of fresco fragments from the Annunciation Church at Gorodishche at Veliky Novgorod. European Physical Journal Plus, 2021, 136, 1. | 2.6 | 4 |
| 26 | Low-frequency vibrational motions in proteins: Physical mechanisms and effect on functioning. European Physical Journal B, 2008, 65, 419-424. | 1.5 | 3 |
| 27 | IR spectroscopy of structural changes of $\hat{1}\pm$ -chymotrypsin related to the changes of function in organic solvents. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo) Tj ETQq1 1 0.784314 rgB4 /Overlock 10 T | | |
| 28 | Laser Raman spectroscopy of the effect of solvent on the low-frequency oscillations of organic molecules. Laser Physics, 2007, 17, 1133-1137. | 1.2 | 2 |
| 29 | Raman spectroscopy of the components of 18th-century icon painting. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2009, 64, 600-604. | 0.4 | 2 |
| 30 | Comparison of vibrational spectra of proteins with similar secondary and different tertiary structures. Vibrational Spectroscopy, 2022, 120, 103375. | 2.2 | 2 |
| 31 | Background photobleaching in raman spectra of aqueous solutions of plant toxins. , 2002, 4749, 349. | | 1 |
| 32 | Photoinduced transformations of p-azido-benzo-18-crown-6. Chemical Physics Letters, 2005, 415, 79-84. | 2.6 | 1 |
| 33 | Terahertz time-domain spectroscopy and spectrochronography of amino acids and polypeptides. , 2006, , . | | 1 |
| 34 | Laser control of the structure of a photosensitive substrate for enzymatic reaction. Laser Physics, 2007, 17, 1262-1265. | 1.2 | 1 |
| 35 | Terahertz time-domain and FTIR spectroscopy of tris and its complexes with crown ether. , 2012, , . | | 1 |
| 36 | Kinetics of photobleaching of aqueous solutions of ricin agglutinin in the presence of guanidine chloride. , 2002, 4749, 343. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | <title>Raman spectroscopic measurements of beta-carotene and lycopene in human skin</title>. , 2004, 5474, 20. | | 0 |
| 38 | Resolution of the time-resolved absorption spectra of three-component systems into spectral components and determination of transition constants. Laser Physics, 2006, 16, 1658-1663. | 1.2 | 0 |
| 39 | Terahertz Time-Domain and Raman Studies of Sulfur-Containing Polypeptides. , 2006, , . | | 0 |
| 40 | Effect of Laser Radiation on 19th Century Paper. Restaurator, 2013, 34, . | 0.2 | 0 |
| 41 | Raman spectroscopy of albumin interaction with nanodiamond films. Moscow University Physics Bulletin (English Translation of Vestnik Moskovskogo Universiteta, Fizika), 2014, 69, 552-557. | 0.4 | 0 |
| 42 | Influence of the measurement configuration on the results of Raman microspectroscopy of human hair. Quantum Electronics, 2022, 52, 36-41. | 1.0 | 0 |