

# Natalia Piergies

## List of Publications by Year in descending order

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37  
papers

417  
citations

758635

12  
h-index

887659

17  
g-index

37  
all docs

37  
docs citations

37  
times ranked

445  
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of Substituent Type and Position on the Adsorption Mechanism of Phenylboronic Acids: Infrared, Raman, and Surface-Enhanced Raman Spectroscopy Studies. <i>Journal of Physical Chemistry A</i> , 2013, 117, 5693-5705.	1.1	31
2	Vibrational Characterization of <i>L</i> -Leucine Phosphonate Analogues: FT-IR, FT-Raman, and SERS Spectroscopy Studies and DFT Calculations. <i>Journal of Physical Chemistry A</i> , 2011, 115, 11067-11078.	1.1	28
3	Differentiation of protein secondary structure in clear and opaque human lenses: AFM $\mu$ -IR studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017, 139, 125-132.	1.4	28
4	Saliva as a first-line diagnostic tool: A spectral challenge for identification of cancer biomarkers. <i>Journal of Molecular Liquids</i> , 2020, 307, 112961.	2.3	26
5	Fourier Transform Infrared and Raman and Surface-Enhanced Raman Spectroscopy Studies of a Novel Group of Boron Analogues of Aminophosphonic Acids. <i>Journal of Physical Chemistry A</i> , 2012, 116, 10004-10014.	1.1	19
6	Nanoscale image of the drug/metal mono-layer interaction: Tapping AFM-IR investigations. <i>Nano Research</i> , 2020, 13, 1020-1028.	5.8	18
7	Gold nanoparticles deposited on silica microparticles - Electrokinetic characteristics and application in SERS. <i>Colloids and Interface Science Communications</i> , 2019, 33, 100219.	2.0	17
8	Vibrational microspectroscopy analysis of human lenses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018, 188, 332-337.	2.0	16
9	Neuropeptide Y and its C-terminal fragments acting on Y2 receptor: Raman and SERS spectroscopy studies. <i>Journal of Colloid and Interface Science</i> , 2015, 437, 111-118.	5.0	15
10	Monitoring the Interfacial Behavior of Selective Y5 Receptor Antagonist on Colloidal Gold Nanoparticle Surfaces: Surface-Enhanced Vibrational Spectroscopy Studies. <i>Journal of Physical Chemistry C</i> , 2017, 121, 17276-17288.	1.5	15
11	Nanoparticle stabilizer as a determining factor of the drug/gold surface interaction: SERS and AFM-SEIRA studies. <i>Applied Surface Science</i> , 2021, 537, 147897.	3.1	14
12	Polarization effect in tip-enhanced infrared nanospectroscopy studies of the selective Y5 receptor antagonist Lu AA33810. <i>Nano Research</i> , 2018, 11, 4401-4411.	5.8	13
13	Design cytotoxicity: The effect of silver nanoparticles stabilized by selected antioxidants on melanoma cells. <i>Journal of Applied Toxicology</i> , 2022, 42, 570-587.	1.4	11
14	Surface Functionalization of Poly(l-lactide-co-glycolide) Membranes with RGD-Grafted Poly(2-oxazoline) for Periodontal Tissue Engineering. <i>Journal of Functional Biomaterials</i> , 2022, 13, 4.	1.8	11
15	Interaction of <i>N</i> -benzylamino(boronphenyl)methylphosphonic acid analogs with the gold colloidal surface under different concentration and pH conditions. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 581-590.	1.2	10
16	Vibrational Fingerprint of Erlotinib: FTIR, RS, and DFT Studies. <i>Journal of Spectroscopy</i> , 2019, 2019, 1-10.	0.6	10
17	Nanoscale infrared probing of amyloid formation within the pleomorphic adenoma tissue. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129677.	1.1	10
18	Investigation of adsorption mode of a novel group of <i>N</i> -benzylamino(boronphenyl)methylphosphonic acids using SERS. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2013, 103, 167-172.	2.0	9

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19	Identification of erlotinib adsorption pattern onto silver nanoparticles: SERS studies. <i>Journal of Raman Spectroscopy</i> , 2018, 49, 1265-1273.	1.2	9
20	Vibrational and Theoretical Studies of the Structure and Adsorption Mode of <i>m</i> -Nitrophenyl $\hat{\pm}$ -Guanidinomethylphosphonic Acid Analogues on Silver Surfaces. <i>Journal of Physical Chemistry A</i> , 2013, 117, 4963-4972.	1.1	8
21	Spectroscopic insights into the effect of pH, temperature, and stabilizer on erlotinib adsorption behavior onto Ag nanosurface. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020, 228, 117737.	2.0	8
22	In search of the correlation between nanomechanical and biomolecular properties of prostate cancer cells with different metastatic potential. <i>Archives of Biochemistry and Biophysics</i> , 2021, 697, 108718.	1.4	8
23	Antioxidant-modulated cytotoxicity of silver nanoparticles. <i>Journal of Applied Toxicology</i> , 2021, 41, 1863-1878.	1.4	8
24	Spectral signature of multiple sclerosis. Preliminary studies of blood fraction by ATR FTIR technique. <i>Biochemical and Biophysical Research Communications</i> , 2022, 593, 40-45.	1.0	8
25	Structure Characterization of [N-Phenylamino(2-boronphenyl)-R-methyl]phosphonic Acid by Vibrational Spectroscopy and Density Functional Theory Calculations. <i>Journal of Spectroscopy</i> , 2014, 2014, 1-8.	0.6	7
26	Characterization of the Brain Penetrant Neuropeptide Y Y2 Receptor Antagonist SF-11. <i>ACS Chemical Neuroscience</i> , 2019, 10, 3454-3463.	1.7	7
27	Tracking of the biochemical changes upon pleomorphic adenoma progression using vibrational microspectroscopy. <i>Scientific Reports</i> , 2021, 11, 18010.	1.6	7
28	Micro- and Nanoscale Spectroscopic Investigations of Threonine Influence on the Corrosion Process of the Modified Fe Surface by Cu Nanoparticles. <i>Materials</i> , 2020, 13, 4482.	1.3	6
29	Spectroscopic Investigations of 316L Stainless Steel under Simulated Inflammatory Conditions for Implant Applications: The Effect of Tryptophan as Corrosion Inhibitor/Hydrophobicity Marker. <i>Coatings</i> , 2021, 11, 1097.	1.2	6
30	Characterization of the surface geometry of acetyl-[Leu 28,31]-NPY(24-36), a selective Y2 receptor agonist, onto the Ag and Au surfaces. <i>Vibrational Spectroscopy</i> , 2016, 85, 1-6.	1.2	5
31	Potential-dependant SERS interaction of ortho-substituted N-benzylamino(boronphenyl)methylphosphonic acid with Ag, Au, and Cu electrode surfaces. <i>Vibrational Spectroscopy</i> , 2016, 83, 94-100.	1.2	5
32	The Impact of Preprocessing Methods for a Successful Prostate Cell Lines Discrimination Using Partial Least Squares Regression and Discriminant Analysis Based on Fourier Transform Infrared Imaging. <i>Cells</i> , 2021, 10, 953.	1.8	5
33	Identification of Corrosion Products on Fe and Cu Metals using Spectroscopic Methods. <i>Acta Physica Polonica A</i> , 2018, 133, 286-288.	0.2	5
34	SERS characterization of neuropeptide Y and its C-terminal fragments deposited onto colloidal gold nanoparticle surface. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 149, 80-88.	2.5	4
35	Erythrocyte heme-oxygenation status indicated as a risk factor in prehypertension by Raman spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2018, 1864, 3659-3663.	1.8	4
36	Analysis of Human Lenses by Raman Microspectroscopy. <i>Acta Physica Polonica A</i> , 2016, 129, 244-246.	0.2	4

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37	Triglycerides as indicators of erythrocyte hemoglobin oxygen-binding properties1. Clinical Hemorheology and Microcirculation, 2018, 69, 289-294.	0.9	2