Natalia Piergies

List of Publications by Year
in descending order

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	Design cytotoxicity: The effect of silver nanoparticles stabilized by selected antioxidants on melanoma cells. Journal of Applied Toxicology, 2022, 42, 570-587.	1.4	11
2	Surface Functionalization of Poly(l-lactide-co-glycolide) Membranes with RGD-Grafted Poly(2-oxazoline) for Periodontal Tissue Engineering. Journal of Functional Biomaterials, 2022, 13, 4.	1.8	11
3	Spectral signature of multiple sclerosis. Preliminary studies of blood fraction by ATR FTIR technique. Biochemical and Biophysical Research Communications, 2022, 593, 40-45.	1.0	8
4	In search of the correlation between nanomechanical and biomolecular properties of prostate cancer cells with different metastatic potential. Archives of Biochemistry and Biophysics, 2021, 697, 108718.	1.4	8
5	Nanoparticle stabilizer as a determining factor of the drug/gold surface interaction: SERS and AFM-SEIRA studies. Applied Surface Science, 2021, 537, 147897.	3.1	14
6	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. Cells, 2021, 10, 953.	1.8	5
7	Antioxidantâ€modulated cytotoxicity of silver nanoparticles. Journal of Applied Toxicology, 2021, 41, 1863-1878.	1.4	8
8	Tracking of the biochemical changes upon pleomorphic adenoma progression using vibrational microspectroscopy. Scientific Reports, 2021, 11, 18010.	1.6	7
9	Spectroscopic Investigations of 316L Stainless Steel under Simulated Inflammatory Conditions for Implant Applications: The Effect of Tryptophan as Corrosion Inhibitor/Hydrophobicity Marker. Coatings, 2021, 11, 1097.	1.2	6
10	Spectroscopic insights into the effect of pH, temperature, and stabilizer on erlotinib adsorption behavior onto Ag nanosurface. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 228, 117737.	2.0	8
11	Micro- and Nanoscale Spectroscopic Investigations of Threonine Influence on the Corrosion Process of the Modified Fe Surface by Cu Nanoparticles. Materials, 2020, 13, 4482.	1.3	6
12	Saliva as a first-line diagnostic tool: A spectral challenge for identification of cancer biomarkers. Journal of Molecular Liquids, 2020, 307, 112961.	2.3	26
13	Nanoscale image of the drug/metal mono-layer interaction: Tapping AFM-IR investigations. Nano Research, 2020, 13, 1020-1028.	5.8	18
14	Nanoscale infrared probing of amyloid formation within the pleomorphic adenoma tissue. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129677.	1.1	10
15	Gold nanoparticles deposited on silica microparticles - Electrokinetic characteristics and application in SERS. Colloids and Interface Science Communications, 2019, 33, 100219.	2.0	17
16	Vibrational Fingerprint of Erlotinib: FTIR, RS, and DFT Studies. Journal of Spectroscopy, 2019, 2019, 1-10.	0.6	10
17	Characterization of the Brain Penetrant Neuropeptide Y Y2 Receptor Antagonist SF-11. ACS Chemical Neuroscience, 2019, 10, 3454-3463.	1.7	7
18	Polarization effect in tip-enhanced infrared nanospectroscopy studies of the selective Y5 receptor antagonist Lu AA33810. Nano Research, 2018, 11, 4401-4411.	5.8	13

#	Article	IF	Citations
19	Identification of erlotinib adsorption pattern onto silver nanoparticles: SERS studies. Journal of Raman Spectroscopy, 2018, 49, 1265-1273.	1.2	9
20	Vibrational microspectroscopy analysis of human lenses. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 188, 332-337.	2.0	16
21	Erythrocyte hemeâ€'oxygenation status indicated as a risk factor in prehypertension by Raman spectroscopy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3659-3663.	1.8	4
22	Triglycerides as indicators of erythrocyte hemoglobin oxygen-binding properties1. Clinical Hemorheology and Microcirculation, 2018, 69, 289-294.	0.9	2
23	Identification of Corrosion Products on Fe and Cu Metals using Spectroscopic Methods. Acta Physica Polonica A, 2018, 133, 286-288.	0.2	5
24	Differentiation of protein secondary structure in clear and opaque human lenses: AFM â€“ IR studies. Journal of Pharmaceutical and Biomedical Analysis, 2017, 139, 125-132.	1.4	28
25	Monitoring the Interfacial Behavior of Selective Y5 Receptor Antagonist on Colloidal Gold Nanoparticle Surfaces: Surface-Enhanced Vibrational Spectroscopy Studies. Journal of Physical Chemistry C, 2017, 121, 17276-17288.	1.5	15
26	SERS characterization of neuropeptide Y and its C-terminal fragments deposited onto colloidal gold nanoparticle surface. Colloids and Surfaces B: Biointerfaces, 2017, 149, 80-88.	2.5	4
27	Characterization of the surface geometry of acetyl-[Leu 28,31]-NPY(24-36), a selective Y 2 receptor agonist, onto the Ag and Au surfaces. Vibrational Spectroscopy, 2016, 85, 1-6.	1.2	5
28	Potential-dependant SERS interaction of ortho-substituted N-benzylamino(boronphenyl)methylphosphonic acid with Ag, Au, and Cu electrode surfaces. Vibrational Spectroscopy, 2016, 83, 94-100.	1.2	5
29	Analysis of Human Lenses by Raman Microspectroscopy. Acta Physica Polonica A, 2016, 129, 244-246.	0.2	4
30	Neuropeptide Y and its C-terminal fragments acting on Y2 receptor: Raman and SERS spectroscopy studies. Journal of Colloid and Interface Science, 2015, 437, 111-118.	5.0	15
31	Structure Characterization of [N-Phenylamino(2-boronphenyl)-R-methyl]phosphonic Acid by Vibrational Spectroscopy and Density Functional Theory Calculations. Journal of Spectroscopy, 2014, 2014, 1-8.	0.6	7
32	Interaction of Nâ€benzylamino(boronphenyl)methylphosphonic acid analogs with the gold colloidal surface under different concentration and pH conditions. Journal of Raman Spectroscopy, 2014, 45, 581-590.	1.2	10
33	Influence of Substituent Type and Position on the Adsorption Mechanism of Phenylboronic Acids: Infrared, Raman, and Surface-Enhanced Raman Spectroscopy Studies. Journal of Physical Chemistry A, 2013, 117, 5693-5705.	1.1	31
34	Investigation of adsorption mode of a novel group of N-benzylamino(boronphenyl)methylphosphonic acids using SERS. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 103, 167-172.	2.0	9
35	Vibrational and Theoretical Studies of the Structure and Adsorption Mode of m-Nitrophenyl Î±-Guanidinomethylphosphonic Acid Analogues on Silver Surfaces. Journal of Physical Chemistry A, 2013, 117, 4963-4972.	1.1	8
36	Fourier Transform Infrared and Raman and Surface-Enhanced Raman Spectroscopy Studies of a Novel Group of Boron Analogues of Aminophosphonic Acids. Journal of Physical Chemistry A, 2012, 116, 10004-10014.	1.1	19

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37	Vibrational Characterization of <scp>l</scp>-Leucine Phosphonate Analogues: FT-IR, FT-Raman, and SERS Spectroscopy Studies and DFT Calculations. Journal of Physical Chemistry A, 2011, 115, 11067-11078.	1.1	28