

Wojciech Kwiatek

List of Publications by Citations

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169
papers

1,520
citations

19
h-index

28
g-index

183
ext. papers

1,769
ext. citations

3.5
avg, IF

4.6
L-index

#	Paper	IF	Citations
169	Molecular characterization of DNA double strand breaks with tip-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 169-72	16.4	73
168	Biological applications of synchrotron radiation infrared spectromicroscopy. <i>Biotechnology Advances</i> , 2012 , 30, 1390-404	17.8	58
167	Analysis of human cancer prostate tissues using FTIR microspectroscopy and SRIXE techniques. <i>Journal of Molecular Structure</i> , 2001 , 565-566, 329-334	3.4	42
166	Comparative endothelial profiling of doxorubicin and daunorubicin in cultured endothelial cells. <i>Toxicology in Vitro</i> , 2015 , 29, 512-21	3.6	37
165	Trace element measurements using white synchrotron radiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 24-25, 400-404	1.2	37
164	Trace elements distribution in renal cell carcinoma depending on stage of disease. <i>European Urology</i> , 2002 , 42, 475-80	10.2	33
163	Composite structure of wood cells in petrified wood. <i>Materials Science and Engineering C</i> , 2005 , 25, 119-130	1.3	33
162	Synchrotron FTIR shows evidence of DNA damage and lipid accumulation in prostate adenocarcinoma PC-3 cells following proton irradiation. <i>Journal of Molecular Structure</i> , 2014 , 1073, 134-141	3.4	28
161	Cancerous tissues analyzed by SRIXE. <i>Journal of Alloys and Compounds</i> , 2005 , 401, 173-177	5.7	27
160	Application of SRIXE and XANES to the determination of the oxidation state of iron in prostate tissue sections. <i>Journal of Alloys and Compounds</i> , 2004 , 362, 83-87	5.7	27
159	Renal stone studies using vibrational spectroscopy and trace element analysis. <i>Biospectroscopy</i> , 1997 , 3, 403-407		26
158	Energy Dissipation in the AFM Elasticity Measurements. <i>Acta Physica Polonica A</i> , 2009 , 115, 548-551	0.6	24
157	Monitoring UVR induced damage in single cells and isolated nuclei using SR-FTIR microspectroscopy and 3D confocal Raman imaging. <i>Analyst, The</i> , 2014 , 139, 4200-9	5	23
156	Correlation of concentrations of selected trace elements with Gleason grade of prostate tissues. <i>Journal of Biological Inorganic Chemistry</i> , 2010 , 15, 1147-55	3.7	23
155	Nonpolynomial approximation of background in X-ray spectra. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 22, 78-81	1.2	23
154	SR-FTIR spectroscopic preliminary findings of non-cancerous, cancerous, and hyperplastic human prostate tissues. <i>Vibrational Spectroscopy</i> , 2007 , 43, 237-242	2.1	22
153	Preliminary study on the distribution of selected elements in cancerous and non-cancerous kidney tissues. <i>Journal of Trace Elements in Medicine and Biology</i> , 2002 , 16, 155-60	4.1	21

152	Comparison of spectral and spatial denoising techniques in the context of High Definition FT-IR imaging hyperspectral data. <i>Scientific Reports</i> , 2018 , 8, 14351	4.9	20
151	Differentiation of protein secondary structure in clear and opaque human lenses: AFM - IR studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2017 , 139, 125-132	3.5	19
150	Sporicidal activity of ceragenin CSA-13 against <i>Bacillus subtilis</i> . <i>Scientific Reports</i> , 2017 , 7, 44452	4.9	19
149	A new approach to studying the effects of ionising radiation on single cells using FTIR synchrotron microspectroscopy. <i>Radiation Physics and Chemistry</i> , 2013 , 93, 135-141	2.5	19
148	Morphology and the chemical make-up of the inorganic components of black corals. <i>Materials Science and Engineering C</i> , 2009 , 29, 1029-1038	8.3	19
147	X-ray fluorescence with synchrotron radiation. <i>Ultramicroscopy</i> , 1988 , 24, 313-28	3.1	19
146	Trace element analysis by means of synchrotron radiation, XRF, and PIXE: selection of sample preparation procedure. <i>Journal of Alloys and Compounds</i> , 2001 , 328, 283-288	5.7	18
145	FTIR Microspectroscopy in Studies of DNA Damage Induced by Proton Microbeam in Single PC-3 Cells. <i>Acta Physica Polonica A</i> , 2012 , 121, 506-509	0.6	17
144	Direct Determination of Metal Complexes Interaction with DNA by Atomic Telemetry and Multiscale Molecular Dynamics. <i>Journal of Physical Chemistry Letters</i> , 2017 , 8, 805-811	6.4	16
143	Development of a compact laser-produced plasma soft X-ray source for radiobiology experiments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 364, 27-32	1.2	16
142	Saliva as a first-line diagnostic tool: A spectral challenge for identification of cancer biomarkers. <i>Journal of Molecular Liquids</i> , 2020 , 307, 112961	6	16
141	Mid-infrared spectroscopy and microscopy of subcellular structures in eukaryotic cells with atomic force microscopy - infrared spectroscopy.. <i>RSC Advances</i> , 2018 , 8, 2786-2794	3.7	16
140	Novel in situ methodology to observe the interactions of chemotherapeutical Pt drugs with DNA under physiological conditions. <i>Dalton Transactions</i> , 2014 , 43, 13839-44	4.3	16
139	Taking a snapshot of the triplet excited state of an OLED organometallic luminophore using X-rays. <i>Nature Communications</i> , 2020 , 11, 2131	17.4	15
138	Raman spectral signatures of urinary extracellular vesicles from diabetic patients and hyperglycemic endothelial cells as potential biomarkers in diabetes. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 17, 137-149	6	14
137	Lipid droplets in prostate cancer cells and effect of irradiation studied by Raman microspectroscopy. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2020 , 1865, 158753	5	14
136	Revealing Chemical Heterogeneity of CNT Fiber Nanocomposites via Nanoscale Chemical Imaging. <i>Chemistry of Materials</i> , 2018 , 30, 1856-1864	9.6	14
135	Distribution of selected elements in atherosclerotic plaques of apoE/LDLR-double knockout mice assessed by synchrotron radiation-induced micro-XRF spectrometry. <i>X-Ray Spectrometry</i> , 2008 , 37, 495-502	0.9	14

134	XANES as a tool for iron oxidation state determination in tissues. <i>Journal of Alloys and Compounds</i> , 2001 , 328, 276-282	5.7	14
133	Trace element analysis of tissue section by means of synchrotron radiation: the use of GNUPLLOT for SRIXE spectra analysis. <i>Journal of Alloys and Compounds</i> , 2001 , 328, 135-138	5.7	14
132	Investigation of trace elements in cancer kidney tissues by SRIXE and PIXE. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 109-110, 284-288	1.2	14
131	Exploring subcellular responses of prostate cancer cells to X-ray exposure by Raman mapping. <i>Scientific Reports</i> , 2019 , 9, 8715	4.9	13
130	Distribution of selected elements in calcific human aortic valves studied by microscopy combined with SR-XRF: influence of lipids on progression of calcification. <i>Micron</i> , 2014 , 67, 141-148	2.3	13
129	Is it possible to find presence of lactose in pharmaceuticals? - Preliminary studies by ATR-FTIR spectroscopy and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017 , 171, 280-286	4.4	13
128	Lead pollution in the Antarctic region. <i>X-Ray Spectrometry</i> , 1998 , 27, 232-235	0.9	13
127	Double strand break formation as a response to X-ray and targeted proton-irradiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007 , 260, 159-163	1.2	13
126	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	3.8	12
125	Iron and other elements studies in cancerous and non-cancerous prostate tissues. <i>Journal of Alloys and Compounds</i> , 2005 , 401, 178-183	5.7	12
124	Vibrational microspectroscopy analysis of human lenses. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 188, 332-337	4.4	12
123	Potential drug nanosensor conjugates: Raman, infrared absorption, surface enhanced Raman, and density functional theory investigations of indolic molecules. <i>Applied Surface Science</i> , 2017 , 404, 168-179	6.7	11
122	Infrared nanospectroscopic mapping of a single metaphase chromosome. <i>Nucleic Acids Research</i> , 2019 , 47, e108	20.1	11
121	Influence of denoising on classification results in the context of hyperspectral data: High Definition FT-IR imaging. <i>Analytica Chimica Acta</i> , 2019 , 1085, 39-47	6.6	11
120	Investigating DNA Radiation Damage Using X-Ray Absorption Spectroscopy. <i>Biophysical Journal</i> , 2016 , 110, 1304-11	2.9	11
119	Nanoscale image of the drug/metal mono-layer interaction: Tapping AFM-IR investigations. <i>Nano Research</i> , 2020 , 13, 1020-1028	10	10
118	Polarization effect in tip-enhanced infrared nanospectroscopy studies of the selective Y5 receptor antagonist Lu AA33810. <i>Nano Research</i> , 2018 , 11, 4401-4411	10	10
117	Affinity of alkylphosphocholines to biological membrane of prostate cancer: studies in natural and model systems. <i>Journal of Membrane Biology</i> , 2014 , 247, 581-9	2.3	10

116	The pituitary gland under infrared light - in search of a representative spectrum for homogeneous regions. <i>Analyst, The</i> , 2015 , 140, 2156-63	5	10
115	FT-Raman, FT-IR spectroscopy and PIXE analysis applied to gallstones specimens. <i>Cellular and Molecular Biology</i> , 1998 , 44, 65-73	1.1	10
114	SR-FTIR Coupled with Principal Component Analysis Shows Evidence for the Cellular Bystander Effect. <i>Radiation Research</i> , 2015 , 184, 73-82	3.1	9
113	Molecular Characterization of DNA Double Strand Breaks with Tip-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , 2014 , 126, 173-176	3.6	9
112	Zinc in native tissues and cultured cell lines of human prostate studied by SR-XRF and XANES. <i>X-Ray Spectrometry</i> , 2009 , 38, 557-562	0.9	9
111	Micro-Spectrometric Investigations of Inorganic Components of the Black Corals for Biomedical Applications. <i>Key Engineering Materials</i> , 2005 , 284-286, 297-300	0.4	9
110	Denosing influence on discrete frequency classification results for quantum cascade laser based infrared microscopy. <i>Analytica Chimica Acta</i> , 2019 , 1051, 24-31	6.6	9
109	Surface characterization of medieval silver coins minted by the early Piasts: FT-IR mapping and SEM/EDX studies. <i>Surface and Interface Analysis</i> , 2018 , 50, 78-86	1.5	9
108	Iron content (PIXE) in competent and incompetent veins is related to the vein wall morphology and tissue antioxidant enzymes. <i>Bioelectrochemistry</i> , 2012 , 87, 114-23	5.6	8
107	Bioactivity of a Chitosan Based Nanocomposite. <i>Journal of Biomimetics, Biomaterials, and Tissue Engineering</i> , 2011 , 10, 95-106		8
106	Changes in cellular response to the damage induced in PC-3 prostate cancer cells by proton microbeam irradiation. <i>General Physiology and Biophysics</i> , 2012 , 31, 11-8	2.1	8
105	Application of linear discriminant analysis in prostate cancer research by synchrotron radiation-induced X-ray emission. <i>Analytical Chemistry</i> , 2007 , 79, 6670-4	7.8	8
104	Elemental concentrations in bones from an ancient egyptian mummy and from a contemporary man. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 22, 423-425	1.2	8
103	Multianalytical approach for surface- and tip-enhanced infrared spectroscopy study of a molecule-metal conjugate: deducing its adsorption geometry. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 27992-28000	3.6	8
102	Nanoscale Investigation into the Cellular Response of Glioblastoma Cells Exposed to Protons. <i>Analytical Chemistry</i> , 2018 , 90, 7644-7650	7.8	8
101	Application of ATR-FTIR mapping to identification and distribution of pigments, binders and degradation products in a 17th century painting. <i>Vibrational Spectroscopy</i> , 2019 , 103, 102928	2.1	7
100	High-resolution label-free studies of molecular distribution and orientation in ultrathin, multicomponent model membranes with infrared nano-spectroscopy AFM-IR. <i>Journal of Colloid and Interface Science</i> , 2019 , 542, 347-354	9.3	7
99	Determination of oxidation state of iron in normal and pathologically altered human aortic valves. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 364, 70-75	1.2	7

98	Distinguishing Prostate Cancer from Hyperplasia. <i>Acta Physica Polonica A</i> , 2006 , 109, 377-381	0.6	7
97	Preliminary Study on Chemical Speciation of Sulphur in Cancerous Tissues. <i>Acta Physica Polonica A</i> , 2006 , 109, 383-387	0.6	7
96	Sulphur XANES Analysis of Cultured Human Prostate Cancer Cells. <i>Acta Physica Polonica A</i> , 2008 , 114, 463-470	0.6	7
95	Assessment of cellular response to drug/nanoparticles conjugates treatment through FTIR imaging and PLS regression study. <i>Sensors and Actuators B: Chemical</i> , 2020 , 313, 128039	8.5	7
94	Identification of erlotinib adsorption pattern onto silver nanoparticles: SERS studies. <i>Journal of Raman Spectroscopy</i> , 2018 , 49, 1265-1273	2.3	6
93	DNA strand breaks induced by soft X-ray pulses from a compact laser plasma source. <i>Radiation Physics and Chemistry</i> , 2016 , 120, 17-25	2.5	6
92	Computed microtomography and numerical study of porous rock samples. <i>Radiation Physics and Chemistry</i> , 2013 , 93, 59-66	2.5	6
91	A comparison between the unfolding of fibronectin and contactin. <i>Journal of Physics Condensed Matter</i> , 2006 , 18, 10157-10164	1.8	6
90	Determination of vanadium in animal tissues by PIXE and AAS. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2001 , 247, 175-178	1.5	6
89	The new PIXE setup at the Institute of Nuclear Physics in Kraków. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 109-110, 109-112	1.2	6
88	Applications of the Cracow X-Ray Microprobe in Tomography. <i>Acta Physica Polonica A</i> , 2009 , 115, 537-540.	0.6	6
87	Biomedical Applications of Synchrotron X-Ray Fluorescence. <i>Acta Physica Polonica A</i> , 1994 , 86, 695-703	0.6	6
86	Mechanism of hydrolysis of a platinum(IV) complex discovered by atomic telemetry. <i>Journal of Inorganic Biochemistry</i> , 2018 , 187, 56-61	4.2	5
85	Influence of vanadium-organic ligands treatment on selected metal levels in kidneys of STZ rats. <i>Biological Trace Element Research</i> , 2013 , 153, 319-28	4.5	5
84	Analysis of synchrotron radiation induced X-ray emission spectra with R environment. <i>Radiation Physics and Chemistry</i> , 2013 , 93, 82-86	2.5	5
83	Technical aspects of Zn microanalysis of human prostate cancer tissues and cells. <i>Radiation Physics and Chemistry</i> , 2009 , 78, S53-S57	2.5	5
82	Distribution of selected elements in atherosclerotic plaques of apoE/LDLR-double knockout mice subjected to dietary and pharmacological treatments. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 1072-1077	2.5	5
81	Micro and bulk analysis of prostate tissues classified as hyperplasia. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007 , 62, 707-710	3.1	5

80	Trace element relations to renal stones phases. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990 , 49, 234-237	1.2	5
79	Trace element distribution in the rat cerebellum. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990 , 49, 561-565	1.2	5
78	Selection of the experimental conditions for white-light SRIXE measurements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1990 , 50, 347-352	1.2	5
77	Correlation of trace elements in hair of patients with colon cancer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1987 , 22, 166-171	1.2	5
76	The Study of Human Osteoblast-Like MG 63 Cells Proliferation on Resorbable Polymer-Based Nanocomposites Modified with Ceramic and Carbon Nanoparticles. <i>Acta Physica Polonica A</i> , 2012 , 121, 546-550	0.6	5
75	Physico-chemical analysis of molecular binding to the colloidal metal nanostructure: Multiple micro- and nanospectroscopy study. <i>Applied Surface Science</i> , 2020 , 499, 143975	6.7	5
74	Macromolecular Orientation in Biological Tissues Using a Four-Polarization Method in FT-IR Imaging. <i>Analytical Chemistry</i> , 2020 , 92, 13313-13318	7.8	5
73	Nanoscale infrared probing of amyloid formation within the pleomorphic adenoma tissue. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129677	4	4
72	Comparison between high definition FT-IR, Raman and AFM-IR for subcellular chemical imaging of cholesteryl esters in prostate cancer cells. <i>Journal of Biophotonics</i> , 2020 , 13, e201960094	3.1	4
71	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	6.9	4
70	Nanoscale AFM-IR spectroscopic imaging of lipid heterogeneity and effect of irradiation in prostate cancer cells. <i>Nanotechnology</i> , 2019 , 30, 425502	3.4	4
69	PrP (58-93) peptide from unstructured N-terminal domain of human prion protein forms amyloid-like fibrillar structures in the presence of Zn ions.. <i>RSC Advances</i> , 2019 , 9, 22211-22219	3.7	4
68	Chemical species of sulfur in prostate cancer cells studied by XANES spectroscopy. <i>Radiation Physics and Chemistry</i> , 2013 , 93, 154-159	2.5	4
67	X-ray microprobe – A new facility for cell irradiations in Kraków. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2009 , 267, 2273-2276	1.2	4
66	Elemental Mapping of Prostate Tissue by Micro-SRIXE. <i>Acta Physica Polonica A</i> , 2006 , 109, 323-328	0.6	4
65	X-Ray Absorption Near Edge Structure and Mössbauer Spectroscopy in Study of Iron Valence States in Tissues. <i>Acta Physica Polonica A</i> , 2006 , 109, 341-345	0.6	4
64	Surface Study of Selected Biomaterials Using Vibrational Spectroscopy. <i>Acta Physica Polonica A</i> , 2009 , 115, 533-536	0.6	4
63	Application of FTIR-SR Spectroscopy to Prostate Tissue Analysis. <i>Acta Physica Polonica A</i> , 2009 , 115, 602-605	0.6	4

62	Analysis of Human Lenses by Raman Microspectroscopy. <i>Acta Physica Polonica A</i> , 2016 , 129, 244-246	0.6	4
61	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	4.4	4
60	Development of continuous CNT fibre-reinforced PMMA filaments for additive manufacturing: A case study by AFM-IR nanoscale imaging. <i>Materials Letters</i> , 2020 , 262, 127182	3.3	4
59	Noise-free simulation of an FT-IR imaging hyperspectral dataset of pancreatic biopsy core bound by experiment. <i>Scientific Data</i> , 2019 , 6, 239	8.2	4
58	Vibrational Fingerprint of Erlotinib: FTIR, RS, and DFT Studies. <i>Journal of Spectroscopy</i> , 2019 , 2019, 1-10	1.5	3
57	Investigating the Distribution of Chemical Forms of Sulfur in Prostate Cancer Tissue Using X-ray Absorption Spectroscopy. <i>Applied Spectroscopy</i> , 2016 , 70, 264-71	3.1	3
56	Utility of FT-IR imaging spectroscopy in estimating differences between the quality of bovine blastocysts. <i>Journal of Molecular Structure</i> , 2013 , 1049, 227-232	3.4	3
55	Using micro-synchrotron radiation induced X-ray emission distribution maps to determine correlation between elements in prostate tissue. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2008 , 63, 957-961	3.1	3
54	Importance of matrix changes in PIXE elemental analysis. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1996 , 114, 345-349	1.2	3
53	Application of FTIR, PIXE, and EBS for trace element analysis in biological samples. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 64, 512-516	1.2	3
52	The use of a SiTek position sensitive detector for synchrotron radiation beam monitoring and alignment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1987 , 260, 529-533	1.2	3
51	Preliminary Investigations of Elemental Content, Microporosity, and Specific Surface Area of Porous Rocks Using PIXE and X-ray Microtomography Techniques. <i>Acta Physica Polonica A</i> , 2012 , 121, 474-479	0.6	3
50	Determination of Changes in Sulphur Oxidation States in Prostate Cancer Cells. <i>Acta Physica Polonica A</i> , 2012 , 121, 497-501	0.6	3
49	FTIR Study of Multifunctional Coatings. <i>Acta Physica Polonica A</i> , 2012 , 121, 551-554	0.6	3
48	Chemical Composition of Atherosclerotic Plaques β apoE/LDLR-Double Knockout Mice by Synchrotron Radiation FTIR Microspectroscopy. <i>Acta Physica Polonica A</i> , 2012 , 121, 555-560	0.6	3
47	Saliva as a non-invasive material for early diagnosis. <i>Acta Biochimica Polonica</i> , 2019 , 66, 383-388	2	3
46	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	6.7	3
45	Electronic properties of a PrP-Cu(ii) complex as a marker of 5-fold Cu(ii) coordination. <i>Metallomics</i> , 2019 , 11, 632-642	4.5	2

44	Triglycerides as indicators of erythrocyte hemoglobin oxygen-binding properties1. <i>Clinical Hemorheology and Microcirculation</i> , 2018 , 69, 289-294	2.5	2
43	Electronic structure of Fe, Fe_2O_3 and $\text{Fe}(\text{NO}_3)_3 \cdot \text{H}_2\text{O}$ determined using RXES. <i>Chemical Physics</i> , 2017 , 493, 49-55	2.3	2
42	The use of Resonant X-ray Emission Spectroscopy (RXES) for the electronic analysis of metal complexes and their interactions with biomolecules. <i>Drug Discovery Today: Technologies</i> , 2015 , 16, 1-6	7.1	2
41	Neoplastic disorders of prostate glands in the light of synchrotron radiation and multivariate statistical analysis. <i>Journal of Biological Inorganic Chemistry</i> , 2011 , 16, 1187-96	3.7	2
40	First approach to studies of sulphur electron DOS in prostate cancer cell lines and tissues studied by XANES. <i>Radiation Physics and Chemistry</i> , 2011 , 80, 1104-1108	2.5	2
39	Sample preparation procedure for PIXE elemental analysis on soft tissues. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 1997 , 223, 247-249	1.5	2
38	Iron valence states in organic samples and tissues investigated by XANES and Mössbauer spectroscopy. <i>X-Ray Spectrometry</i> , 2008 , 37, 219-225	0.9	2
37	Investigation of Trace Element Concentration in Diabetic Rat's Tissues. <i>Acta Physica Polonica A</i> , 2009 , 115, 556-560	0.6	2
36	Identification of Corrosion Products on Fe and Cu Metals using Spectroscopic Methods. <i>Acta Physica Polonica A</i> , 2018 , 133, 286-288	0.6	2
35	Effect of Magnetite Composite on the Amount of Double Strand Breaks Induced with X-Rays. <i>Acta Physica Polonica A</i> , 2016 , 129, 174-175	0.6	2
34	Comparison of the new Mie Extinction Extended Multiplicative Scattering Correction and Resonant Mie Extended Multiplicative Scattering Correction in transmission infrared tissue image scattering correction. <i>Infrared Physics and Technology</i> , 2020 , 107, 103291	2.7	2
33	Influence of interference effects on the spectral quality and histological classification by FT-IR imaging in transfection geometry. <i>Analyst, The</i> , 2021 , 146, 646-654	5	2
32	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	4.1	2
31	Determination of Crystal-Field Splitting Induced by Thermal Oxidation of Titanium. <i>Journal of Physical Chemistry A</i> , 2021 , 125, 50-56	2.8	2
30	Cross-section determination for one- and two-photon absorption of cobalt at hard-x-ray energies. <i>Physical Review A</i> , 2019 , 99,	2.6	1
29	Pre-processing of Fourier transform infrared spectra by means of multivariate analysis implemented in the R environment. <i>Analyst, The</i> , 2015 , 140, 2810-4	5	1
28	In situ observation of charge transfer and crystal field formation via high energy resolution X-ray spectroscopy during temperature programmed oxidation. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 14731-14735	3.6	1
27	Preliminary results of human PrP C protein studied by spectroscopic techniques. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 411, 121-128	1.2	1

26	Molecular structure of human aortic valve by μ SR- FTIR microscopy. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2017 , 411, 129-135	1.2	1
25	X-Ray Spectroscopy on Biological Systems 2017 ,		1
24	Microanalysis using synchrotron radiation. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1992 , 68, 122-124	1.2	1
23	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	3.4	1
22	Infrared Spectroscopy in Molecular Study of the Piezoelectric Effect in Pig's Shin Bone. <i>Acta Physica Polonica A</i> , 2012 , 121, 539-542	0.6	1
21	Synchrotron Radiation Induced X-Ray Emission - SRIXE. <i>Acta Physica Polonica A</i> , 1992 , 82, 263-271	0.6	1
20	Zn(II) binding causes interdomain changes in the structure and flexibility of the human prion protein. <i>Scientific Reports</i> , 2021 , 11, 21703	4.9	1
19	X-Ray Microscopy Using Collimated and Focussed Synchrotron Radiation*. <i>Advances in X-ray Analysis</i> , 1987 , 31, 59-68		1
18	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,	3.5	1
17	Stearoyl-CoA Desaturase 1 Activity Determines the Maintenance of DNMT1-Mediated DNA Methylation Patterns in Pancreatic β Cells. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	1
16	Physicochemical damage and early-stage biological response to X-ray radiation studied in prostate cancer cells by Raman spectroscopy. <i>Journal of Biophotonics</i> , 2020 , 13, e202000252	3.1	1
15	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,	7.9	1
14	Exploring subcellular responses of prostate cancer cells to clinical doses of X-rays by Raman microspectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021 , 255, 119653	4.4	1
13	Tracking of the biochemical changes upon pleomorphic adenoma progression using vibrational microspectroscopy. <i>Scientific Reports</i> , 2021 , 11, 18010	4.9	1
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