Joanna Depciuch

List of Publications by Year
in descending order

83	1,934	257101 24	315357 38
papers	citations	h-index	g-index

87	87	87	2418
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Applications of Noble Metal-Based Nanoparticles in Medicine. International Journal of Molecular Sciences, 2018, 19, 4031.	1.8	172
2	FTIR-ATR spectroscopy of pollen and honey as a tool for unifloral honey authentication. The case study of rape honey. Food Control, 2018, 84, 33-40.	2.8	99
3	Application of Raman Spectroscopy and Infrared Spectroscopy in the Identification of Breast Cancer. Applied Spectroscopy, 2016, 70, 251-263.	1.2	92
4	Green synthesis and antibacterial effects of aqueous colloidal solutions of silver nanoparticles using camomile terpenoids as a combined reducing and capping agent. Bioprocess and Biosystems Engineering, 2016, 39, 1213-1223.	1.7	80
5	The classification of lung cancers and their degree of malignancy by FTIR, PCA-LDA analysis, and a physics-based computational model. Talanta, 2018, 186, 337-345.	2.9	61
6	Varied-shaped gold nanoparticles with nanogram killing efficiency as potential antimicrobial surface coatings for the medical devices. Scientific Reports, 2021, 11, 12546.	1.6	61
7	Effect of plant sample preparation and measuring methods on ATR-FTIR spectra results. Environmental and Experimental Botany, 2020, 169, 103915.	2.0	54
8	Use of FTIR spectroscopy and PCA-LDC analysis to identify cancerous lesions within the human colon. Journal of Pharmaceutical and Biomedical Analysis, 2017, 134, 259-268.	1.4	45
9	FTIR analysis of molecular composition changes in hazel pollen from unpolluted and urbanized areas. Aerobiologia, 2017, 33, 1-12.	0.7	43
10	Analysis of morphological and molecular composition changes in allergenic Artemisia vulgaris L. pollen under traffic pollution using SEM and FTIR spectroscopy. Environmental Science and Pollution Research, 2016, 23, 23203-23214.	2.7	42
11	Phospholipid-protein balance in affective disorders: Analysis of human blood serum using Raman and FTIR spectroscopy. A pilot study. Journal of Pharmaceutical and Biomedical Analysis, 2016, 131, 287-296.	1.4	40
12	ROS-Mediated Apoptosis and Autophagy in Ovarian Cancer Cells Treated with Peanut-Shaped Gold Nanoparticles. International Journal of Nanomedicine, 2021, Volume 16, 1993-2011.	3.3	40
13	Raman and FTIR spectroscopy in determining the chemical changes in healthy brain tissues and glioblastoma tumor tissues. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 225, 117526.	2.0	39
14	Comparing paraffined and deparaffinized breast cancer tissue samples and an analysis of Raman spectroscopy and infrared methods. Infrared Physics and Technology, 2016, 76, 217-226.	1.3	38
15	Lipid droplets in mammalian eggs are utilized during embryonic diapause. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	37
16	FPA-FTIR Microspectroscopy for Monitoring Chemotherapy Efficacy in Triple-Negative Breast Cancer. Scientific Reports, 2016, 6, 37333.	1.6	36
17	Identification of birch pollen species using FTIR spectroscopy. Aerobiologia, 2018, 34, 525-538.	0.7	33
18	Assessment of structural protein expression by FTIR and biochemical assays as biomarkers of metabolites response in gastric and colon cancer. Talanta, 2021, 231, 122353.	2.9	33

#	Article	IF	Citations
19	Monitoring breast cancer treatment using a Fourier transform infrared spectroscopy-based computational model. Journal of Pharmaceutical and Biomedical Analysis, 2017, 143, 261-268.	1.4	29
20	Green synthesis and antibacterial effects of aqueous colloidal solutions of silver nanoparticles using clove eugenol. Applied Organometallic Chemistry, 2018, 32, e4276.	1.7	29
21	Characterization of Covid-19 infected pregnant women sera using laboratory indexes, vibrational spectroscopy, and machine learning classifications. Talanta, 2022, 237, 122916.	2.9	29
22	Fourier Transform Infrared (FTIR) spectroscopy of paraffin and deparafinnized bone tissue samples as a diagnostic tool for Ewing sarcoma of bones. Infrared Physics and Technology, 2017, 85, 364-371.	1.3	27
23	Fe₃O₄@SiO₂@Au nanoparticles for MRI-guided chemo/NIR photothermal therapy of cancer cells. RSC Advances, 2020, 10, 26508-26520.	1.7	26
24	Bactericidal Properties of Rod-, Peanut-, and Star-Shaped Gold Nanoparticles Coated with Ceragenin CSA-131 against Multidrug-Resistant Bacterial Strains. Pharmaceutics, 2021, 13, 425.	2.0	25
25	Application of infrared spectroscopy for the identification of squamous cell carcinoma (lung) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf	1.8	24
26	The role of zinc deficiency-induced changes in the phospholipid-protein balance of blood serum in animal depression model by Raman, FTIR and UVâ€“vis spectroscopy. Biomedicine and Pharmacotherapy, 2017, 89, 549-558.	2.5	22
27	Design and assembly of ternary Pt/Re/SnO2 NPs by controlling the zeta potential of individual Pt, Re, and SnO2 NPs. Journal of Nanoparticle Research, 2018, 20, 144.	0.8	22
28	Spectroscopic analysis of normal and neoplastic (WI-FTC) thyroid tissue. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 204, 18-24.	2.0	21
29	FTIR and Raman Spectroscopy-Based Biochemical Profiling Reflects Genomic Diversity of Clinical Candida Isolates That May Be Useful for Diagnosis and Targeted Therapy of Candidiasis. International Journal of Molecular Sciences, 2019, 20, 988.	1.8	21
30	Development of novel spectroscopic and machine learning methods for the measurement of periodic changes in COVID-19 antibody level. Measurement: Journal of the International Measurement Confederation, 2022, 196, 111258.	2.5	21
31	Distinguishing Ewing sarcoma and osteomyelitis using FTIR spectroscopy. Scientific Reports, 2018, 8, 15081.	1.6	20
32	Platinumâ€“gold nanoraspberries as effective photosensitizer in anticancer photothermal therapy. Journal of Nanobiotechnology, 2019, 17, 107.	4.2	20
33	Size effect of platinum nanoparticles in simulated anticancer photothermal therapy. Photodiagnosis and Photodynamic Therapy, 2020, 29, 101594.	1.3	20
34	From spherical to bone-shaped gold nanoparticlesâ€”Time factor in the formation of Au NPs, their optical and photothermal properties. Photodiagnosis and Photodynamic Therapy, 2020, 30, 101670.	1.3	20
35	Spectrochemical and biochemical assay comparison study of the healing effect of the Aloe vera and Hypericum perforatum loaded nanofiber dressings on diabetic wound. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 254, 119639.	2.0	18
36	Olfactory bulbectomy-induced changes in phospholipids and protein profiles in the hippocampus and prefrontal cortex of rats. A preliminary study using a FTIR spectroscopy. Pharmacological Reports, 2016, 68, 521-528.	1.5	17

#	Article	IF	Citations
37	Structural, chemical and optical properties of SnO 2 NPs obtained by three different synthesis routes. Journal of Physics and Chemistry of Solids, 2017, 107, 100-107.	1.9	17
38	Simultaneous FTIR and Raman Spectroscopy in Endometrial Atypical Hyperplasia and Cancer. International Journal of Molecular Sciences, 2020, 21, 4828.	1.8	17
39	Temperature-controlled synthesis of hollow, porous gold nanoparticles with wide range light absorption. Journal of Materials Science, 2020, 55, 5257-5267.	1.7	17
40	Identification of polycystic ovary syndrome from blood serum using hormone levels via Raman spectroscopy and multivariate analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 273, 121029.	2.0	17
41	Comparing dried and liquid blood serum samples of depressed patients: An analysis by Raman and infrared spectroscopy methods. Journal of Pharmaceutical and Biomedical Analysis, 2018, 150, 80-86.	1.4	16
42	Synthesis and characterization of new functionalized polymer-Fe3O4 nanocomposite particles. EXPRESS Polymer Letters, 2017, 11, 2-13.	1.1	15
43	Spectroscopic identification of benign (follicular adenoma) and cancerous lesions (follicular) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 321-326.	1.4	15
44	Fancy-Shaped Goldâ€“Platinum Nanocauliflowers for Improved Proton Irradiation Effect on Colon Cancer Cells. International Journal of Molecular Sciences, 2020, 21, 9610.	1.8	15
45	Diagnosis of endometriosis using endometrioma volume and vibrational spectroscopy with multivariate methods as a noninvasive method. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 264, 120246.	2.0	15
46	FTIR Spectroscopy of Cerebrospinal Fluid Reveals Variations in the Lipid: Protein Ratio at Different Stages of Alzheimerâ€™s Disease. Journal of Alzheimer's Disease, 2019, 68, 281-293.	1.2	14
47	Biochemical assay and spectroscopic analysis of oxidative/antioxidative parameters in the blood and serum of substance use disorders patients. A methodological comparison study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 240, 118625.	2.0	14
48	Ternary Pt/Re/SnO2/C catalyst for EOR: Electrocatalytic activity and durability enhancement. Nano Research, 2020, 13, 832-842.	5.8	14
49	Spectroscopic evaluation of carcinogenesis in endometrial cancer. Scientific Reports, 2021, 11, 9079.	1.6	14
50	Assessment of the effect of endocrine abnormalities on biomacromolecules and lipids by FT-IR and biochemical assays as biomarker of metabolites in early Polycystic ovary syndrome women. Journal of Pharmaceutical and Biomedical Analysis, 2021, 204, 114250.	1.4	14
51	Correlation between endometriomas volume and Raman spectra. Attempting to use Raman spectroscopy in the diagnosis of endometrioma. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 274, 121119.	2.0	14
52	Verification of the effectiveness of the Fourier transform infrared spectroscopy computational model for colorectal cancer. Journal of Pharmaceutical and Biomedical Analysis, 2017, 145, 611-615.	1.4	13
53	Qualitative and quantitative changes in phospholipids and proteins investigated by spectroscopic techniques in olfactory bulbectomy animal depression model. Journal of Pharmaceutical and Biomedical Analysis, 2018, 148, 24-31.	1.4	13
54	Rod-shaped gold nanoparticles exert potent candidacidal activity and decrease the adhesion of fungal cells. Nanomedicine, 2020, 15, 2733-2752.	1.7	13

#	Article	IF	Citations
55	Application of iron-based magnetic nanoparticles stabilized with triethanolammonium oleate for theranostics. Journal of Materials Science, 2022, 57, 4716-4737.	1.7	13
56	Differential of cholangiocarcinoma disease using Raman spectroscopy combined with multivariate analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 272, 121006.	2.0	13
57	Control of Arms of Au Stars Size and its Dependent Cytotoxicity and Photosensitizer Effects in Photothermal Anticancer Therapy. International Journal of Molecular Sciences, 2019, 20, 5011.	1.8	12
58	Identification of chemical changes in healthy breast tissue caused by chemotherapy using Raman and FTIR spectroscopy: A preliminary study. Infrared Physics and Technology, 2019, 102, 102989.	1.3	12
59	Predicting Ewing Sarcoma Treatment Outcome Using Infrared Spectroscopy and Machine Learning. Molecules, 2019, 24, 1075.	1.7	12
60	Detection of the chemical changes in blood, liver, and brain caused by electromagnetic field exposure using Raman spectroscopy, biochemical assays combined with multivariate analyses. Photodiagnosis and Photodynamic Therapy, 2022, 38, 102779.	1.3	12
61	Qualitative and quantitative changes in phospholipids and proteins investigated by spectroscopic techniques in animal depression model. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 176, 30-37.	2.0	11
62	Synthesis methodâ€dependent photothermal effects of colloidal solutions of platinum nanoparticles used in photothermal anticancer therapy. Applied Organometallic Chemistry, 2020, 34, e5401.	1.7	11
63	Size-dependent theoretical and experimental photothermal conversion efficiency of spherical gold nanoparticles. Photodiagnosis and Photodynamic Therapy, 2022, 39, 102979.	1.3	11
64	Changes in Chemical Composition and Accumulation of Cryoprotectants as the Adaptation of Anholocyclic Aphid Cinara tujafilina to Overwintering. International Journal of Molecular Sciences, 2021, 22, 511.	1.8	10
65	Ternary Pt/Re/SnO2 nanoparticles for ethanol oxidation reaction: Understanding the correlation between the synthesis route and the obtained material. Applied Catalysis A: General, 2019, 570, 319-328.	2.2	8
66	Gold nanodahlias: potential nanophotosensitizer in photothermal anticancer therapy. Journal of Materials Science, 2020, 55, 2530-2543.	1.7	8
67	Gold Nanopeanuts as Prospective Support for Cisplatin in Glioblastoma Nano-Chemo-Radiotherapy. International Journal of Molecular Sciences, 2020, 21, 9082.	1.8	7
68	Gold-Decorated Platinum and Palladium Nanoparticles as Modern Nanocomplexes to Improve the Effectiveness of Simulated Anticancer Proton Therapy. Pharmaceutics, 2021, 13, 1726.	2.0	7
69	Determination of idiopathic female infertility from infrared spectra of follicle fluid combined with gonadotrophin levels, multivariate analysis and machine learning methods. Photodiagnosis and Photodynamic Therapy, 2022, 38, 102883.	1.3	7
70	In vitro study of effects of ELF-EMF on testicular tissues of roe deer (Capreolus capreolus) - FTIR and FT-Raman spectroscopic investigation. Animal Reproduction Science, 2020, 213, 106258.	0.5	5
71	Effect of Ascophyllum nodosum Alga Application on Microgreens, Yield, and Yield Components in Oats Avena sativa L.. Agronomy, 2021, 11, 1446.	1.3	5
72	Peanut-Shaped Gold Nanoparticles with Shells of Ceragenin CSA-131 Display the Ability to Inhibit Ovarian Cancer Growth In Vitro and in a Tumor Xenograft Model. Cancers, 2021, 13, 5424.	1.7	5

#	Article	IF	Citations
73	Ceragenin-Coated Non-Spherical Gold Nanoparticles as Novel Candidacidal Agents. Pharmaceutics, 2021, 13, 1940.	2.0	5
74	Pd decorated Coâ€“Ni nanowires as a highly efficient catalyst for direct ethanol fuel cells. International Journal of Hydrogen Energy, 2022, 47, 41279-41293.	3.8	5
75	Electromagnetic field of extremely low frequency has an impact on selected chemical components of the honeybee. Polish Journal of Veterinary Sciences, 2020, 23, 537-544.	0.2	5
76	Treating honey bees with an extremely low frequency electromagnetic field and pesticides: Impact on the rate of disappearance of azoxystrobin and Î»-cyhalothrin and the structure of some functional groups of the probabilistic molecules. Environmental Research, 2020, 190, 109989.	3.7	4
77	The Spectroscopic Similarity between Breast Cancer Tissues and Lymph Nodes Obtained from Patients with and without Recurrence: A Preliminary Study. Molecules, 2020, 25, 3295.	1.7	4
78	Similarities in the General Chemical Composition of Colon Cancer Cells and Their Microvesicles Investigated by Spectroscopic Methods-Potential Clinical Relevance. International Journal of Molecular Sciences, 2020, 21, 1826.	1.8	4
79	Targeting bacteria causing otitis media using nanosystems containing nonspherical gold nanoparticles and ceragenins. Nanomedicine, 2021, 16, 2657-2678.	1.7	4
80	N-Acetyl-Cysteine Increases Activity of Peanut-Shaped Gold Nanoparticles Against Biofilms Formed by Clinical Strains of Pseudomonas aeruginosa Isolated from Sputum of Cystic Fibrosis Patients. Infection and Drug Resistance, 2022, Volume 15, 851-871.	1.1	4
81	Apocynin reduces cytotoxic effects of monosodium glutamate in the brain: A spectroscopic, oxidative load, and machine learning study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 279, 121495.	2.0	4
82	Ascophyllum nodosum Application and Pre-Sowing Stimulation with Low-Frequency Magnetic Field as Factors Influencing Oat Grains (Avena sativa L.) Composition. Agronomy, 2020, 10, 1164.	1.3	1
83	Applying spectrochemical analyses on venous disease patients treated by N-Butyl Cyanoacrylate Ablation Surgery. Technology and Health Care, 2022, , 1-16.	0.5	1