Infrared spectroscopy of exfoliated human cervical cells changes during carcinogenesis.

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Citation Report

#	Article	IF	CITATIONS
1	Binding of calcium to sulfogalactosylceramide and the sequential effects on the lipid dynamics. Biochemistry, 1992, 31, 11902-11907.	2.5	23
2	Bio-analytical applications of Fourier transform infrared spectroscopy. TrAC - Trends in Analytical Chemistry, 1992, 11, 206-210.	11.4	4
3	Study of the fluorescence properties of normal and neoplastic human cervical tissue. Lasers in Surgery and Medicine, 1993, 13, 647-655.	2.1	106
4	Near-infrared fourier transform Raman microspectroscopy at high external pressures. Journal of Raman Spectroscopy, 1993, 24, 471-473.	2.5	7
5	Photothermal infrared spectroscopy: applications to medicine. Journal of Molecular Structure, 1993, 300, 239-244.	3.6	5
6	Pressure-Tuning FT-IR Study of Human Cervical Tissues. Applied Spectroscopy, 1993, 47, 1058-1063.	2.2	64
7	Infrared Spectroscopic Characterization of Alzheimer Plaques. Applied Spectroscopy, 1993, 47, 1513-1518.	2.2	78
8	Normal and Malignant Human Colonic Tissues Investigated by Pressure-Tuning FT-IR Spectroscopy. Applied Spectroscopy, 1993, 47, 1830-1836.	2.2	40
9	Pressure-Tuning Vibrational Spectroscopy: Applications from Basic Molecular Spectroscopy to Human Cancer Research. , 1993, , 171-189.		0
10	High pressure FT-IR spectroscopy for biomedical and cancer research. AIP Conference Proceedings, 1994, , .	0.4	2
11	Detecting Retinoic Acid-Induced Biochemical Alterations in Squamous Cell Carcinoma Using Intrinsic Fluorescence Spectroscopy. Laryngoscope, 1994, 104, 278???282.	2.0	24
12	Pressure-induced correlation field splitting of vibrational modes: structural and dynamic properties in lipid bilayers and biomembranes. Biophysical Journal, 1994, 66, 1505-1514.	0.5	19
13	Identification of Breast Carcinomatous Tissue by Near-Infrared Reflectance Spectroscopy. Applied Spectroscopy, 1994, 48, 190-193.	2.2	25
14	In vivo diagnosis of cervical intraepithelial neoplasia using 337-nm-excited laser-induced fluorescence Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 10193-10197.	7.1	269
15	Fourier-transform infrared spectroscopy and gas chromatography-mass spectrometry reveal a remarkable degree of structural damage in the DNA of wild fish exposed to toxic chemicals Proceedings of the National Academy of Sciences of the United States of America, 1994, 91, 13038-13041.	7.1	43
16	<title>Fourier-transform infrared spectroscopic comparison of cultured human fibroblast and fibrosarcoma cells</title> . , 1995, , .		10
17	A comparative infrared spectroscopic study of human breast tumors and breast tumor cell xenografts. Biospectroscopy, 1995, 1, 37-45.	0.6	139
18	Characterization of exfoliated cells and tissues from human endocervix and ectocervix by FTIR and ATR/FTIR Spectroscopy. Biospectroscopy, 1995, 1, 357-364.	0.6	56

#	Article	IF	CITATIONS
19	FT-IR spectroscopic studies on molecular interactions of cryoprotectant agents with bacteria. Biospectroscopy, 1995, 1, 365-373.	0.6	3
20	FT-IR spectroscopy of methylmercury-exposed mouse lung. Molecular and Cellular Biochemistry, 1995, 145, 75-79.	3.1	13
21	Second Primary Malignancies in the Head and Neck Cancer Patient. Annals of Otology, Rhinology and Laryngology, 1995, 104, 946-954.	1.1	139
22	A Fourier-Transform Infrared Spectroscopic Comparison of Cultured Human Fibroblast and Fibrosarcoma Cells: A New Method for Detection of Malignancies. Photomedicine and Laser Surgery, 1995, 13, 55-59.	0.9	14
23	Non-destructive analysis of the protein conformational structure of human pituitary adenomas using reflectance FT-IR microspectroscopy. Cancer Letters, 1995, 94, 65-69.	7.2	17
24	Screening Pap Smears with Near-Infrared Spectroscopy. Applied Spectroscopy, 1995, 49, 432-436.	2.2	32
25	Detecting Structural Changes at the Molecular Level with Fourier Transform Infrared Spectroscopy. Acta Cytologica, 1996, 40, 664-668.	1.3	47
26	Biomedical Applications of Infrared and Raman Microscopy. Applied Spectroscopy Reviews, 1996, 31, 193-249.	6.7	35
27	Infrared Spectroscopy of Normal and Abnormal Cervical Smears: Evaluation by Principal Component Analysis. Gynecologic Oncology, 1997, 66, 59-65.	1.4	83
28	Comparison of Fourier-Transform Infrared Spectroscopic Screening of Exfoliated Cervical Cells with Standard Papanicolaou Screening. Gynecologic Oncology, 1997, 66, 10-15.	1.4	63
29	Multivariate Classification of the Infrared Spectra of Cell and Tissue Samples. Applied Spectroscopy, 1997, 51, 340-345.	2.2	63
30	Determination of the Relative Amount of Nucleic Acids and Proteins in Leukemic and Normal Lymphocytes by Means of Fourier Transform Infrared Microspectroscopy. Applied Spectroscopy, 1997, 51, 792-797.	2.2	150
31	Different Mapping Algorithms for the Analysis of Exfoliated Cervical Cells by Infrared Microscopy. Microscopy and Microanalysis, 1997, 3, 827-828.	0.4	0
32	Infra-red (ATR/FT) spectroscopic study on the conformational structure of the isolated human gastric mucus pretreated with ethanol. Journal of Gastroenterology and Hepatology (Australia), 1997, 12, 707-712.	2.8	8
33	Safety Analysis: Relative Risks of Ultraviolet Exposure from Fluorescence Spectroscopy and Colposcopy Are Comparable*. Photochemistry and Photobiology, 1997, 65, 1020-1025.	2.5	19
34	Infrared spectroscopy of human tissue. III. Spectral differences between squamous and columnar tissue and cells from the human cervix. Biospectroscopy, 1997, 3, 253-257.	0.6	29
35	Infrared Spectroscopic Analysis of Biomedical Specimens Using Glass Substrates. Analytical Biochemistry, 1998, 259, 181-186.	2.4	23
36	Cancer grading by Fourier transform infrared spectroscopy. , 1998, 4, 37-46.		122

#	Article	IF	CITATIONS
37	Infrared spectroscopy of human tissue. I. Differentiation and maturation of epithelial cells in the human cervix. Biospectroscopy, 1998, 4, 47-53.	0.6	175
38	Infrared spectroscopy of human tissue. II. A comparative study of spectra of biopsies of cervical squamous epithelium and of exfoliated cervical cells. , 1998, 4, 55-59.		68
39	FTIR microspectroscopic study of cell types and potential confounding variables in screening for cervical malignancies. Biospectroscopy, 1998, 4, 75-91.	0.6	174
40	Thermal stability and reversibility of secondary conformation of α-crystallin membrane during repeated heating processes. Biophysical Chemistry, 1998, 74, 1-10.	2.8	20
41	Cytologically normal cells from neoplastic cervical samples display extensive structural abnormalities on IR spectroscopy: Implications for tumor biology. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 15327-15332.	7.1	150
42	An investigation into FTIR spectroscopy as a biodiagnostic tool for cervical cancer. Biospectroscopy, 1996, 2, 143-153.	0.6	108
43	<title>Discrimination and quantitation using IR spectra: novel methods for serum analysis and for cervical dysplasia screening</title> . , 1998, , .		5
44	<title>Imaging of human colon carcinoma thin sections by FT-IR microspectrometry</title> . , 1998, 3257, 187.		13
45	Pressure-tuning fourier transform infrared spectroscopic study of carcinogenesis in human endometrium. Biospectroscopy, 1998, 2, 155-165.	0.6	54
46	Cancer diagnostics using Fourier transform fiber optic infrared evanescent wave spectroscopy (FTIR-FEWS). , 1998, 3262, 185.		8
47	Highly resolved chemical imaging of living cells by using synchrotron infrared microspectrometry. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4837-4840.	7.1	242
48	Infrared spectroscopic determination of hepatic nuclei oxidation. Biospectroscopy, 1998, 2, 39-45.	0.6	1
49	Human Breast Carcinomal Tissues Display Distinctive FTIR Spectra: Implication for the Histological Characterization of Carcinomas. Analytical Cellular Pathology, 1999, 18, 87-93.	2.1	58
50	Fourier Transform Infrared microspectroscopy and chemometrics as a tool for the discrimination of cyanobacterial strains. Phytochemistry, 1999, 52, 407-417.	2.9	201
51	Estimation of glycogen levels in human colorectal cancer tissue: relationship with cell cycle and tumor outgrowth. Journal of Gastroenterology, 1999, 34, 474-480.	5.1	45
52	A study on the differences between oral squamous cell carcinomas and normal oral mucosas measured by Fourier transform infrared spectroscopy. , 1999, 5, 117-126.		61
53	Infrared spectroscopy of human tissue. V. Infrared spectroscopic studies of myeloid leukemia (ML-1) cells at different phases of the cell cycle. , 1999, 5, 219-227.		148
54	II Clinical-translational perspective of the potential for optical technologies to improve women's health. Academic Radiology, 1999, 6, S167-S170.	2.5	0

#	Article	IF	CITATIONS
55	Infrared Spectroscopy of Cells and Tissues: Shining Light onto a Novel Subject. Applied Spectroscopy, 1999, 53, 148A-161A.	2.2	296
56	<title>Synchrotron IR microspectroscopy of malignant tissue</title> . , 1999, , .		0
57	Infrared microspectroscopy of benign and neoplastic prostate: correlation of spectral patterns with histopathology. , 2000, 3918, 222.		1
58	Individual human cell responses to low doses of chemicals studied by synchrotron infrared spectromicroscopy. , 2000, , .		12
59	Direct Measurement of Human Lung Cancerous and Noncancerous Tissues by Fourier Transform Infrared Microscopy: Can an Infrared Microscope Be Used as a Clinical Tool?. Analytical Biochemistry, 2000, 287, 218-225.	2.4	127
60	Analysis of biomedical spectra and images: from data to diagnosis. Computational and Theoretical Chemistry, 2000, 500, 129-138.	1.5	9
61	Infrared spectroscopic study of cervical smears in patients with HIV: Implications for cervical carcinogenesis. Translational Research, 2000, 135, 26-31.	2.3	29
62	Quantitative Determination of the Biodegradable Polymer Poly(β-hydroxybutyrate) in a Recombinant Escherichia coli Strain by Use of Mid-Infrared Spectroscopy and Multivariative Statistics. Applied and Environmental Microbiology, 2000, 66, 3415-3420.	3.1	128
63	Infrared Spectroscopy of Human Cells and Tissue. Part VI: A Comparative Study of Histopathology and Infrared Microspectroscopy of Normal, Cirrhotic, and Cancerous Liver Tissue. Applied Spectroscopy, 2000, 54, 1-8.	2.2	79
64	Low-Dose Responses to 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Single Living Human Cells Measured by Synchrotron Infrared Spectromicroscopy. Environmental Science & Technology, 2000, 34, 2513-2517.	10.0	43
65	Effects of high hydrostatic pressures on living cells: A consequence of the properties of macromolecules and macromolecule-associated water. International Review of Cytology, 2001, 201, 1-84.	6.2	57
66	Application of FTIR microscopy for the characterization of malignancy: H-ras transfected murine fibroblasts as an example. Journal of Proteomics, 2001, 50, 33-42.	2.4	30
67	<title>Combined spectroscopic imaging and chemometric approach for automatically partitioning tissue types in human prostate tissue biopsies</title> ., 2001, 4259, 47.		3
68	FOURIER TRANSFORM INFRARED SPECTROSCOPY: A MOLECULAR APPROACH TO AN ORGANISMAL QUESTION. Journal of Phycology, 2001, 37, 197-199.	2.3	11
69	FOURIER TRANSFORM INFRARED SPECTROSCOPY AS A NOVEL TOOL TO INVESTIGATE CHANGES IN INTRACELLULAR MACROMOLECULAR POOLS IN THE MARINE MICROALGA CHAETOCEROS MUELLERII (BACILLARIOPHYCEAE). Journal of Phycology, 2001, 37, 271-279.	2.3	258
70	FTIR spectroscopic analyses of human placental membranes. Biopolymers, 2001, 62, 22-28.	2.4	10
71	Distinguishing malignant from normal oral tissues using FTIR fiber-optic techniques. Biopolymers, 2001, 62, 185-192.	2.4	105
72	Cyanide-induced alterations to the biophysical conformations of the isolated fish liver. Ecotoxicology, 2001, 10, 71-77.	2.4	4

#	Article	IF	CITATIONS
73	A rapid method for detecting conformational changes during differentiation and apoptosis of HL60 cells by Fourier-transform infrared spectroscopy. Biotechnology and Applied Biochemistry, 2001, 33, 127.	3.1	69
74	Detailed account of confounding factors in interpretation of FTIR spectra of exfoliated cervical cells. Biopolymers, 2002, 67, 376-386.	2.4	34
75	FTIR spectroscopic method for detection of cells infected with herpes viruses. Biopolymers, 2002, 67, 406-412.	2.4	64
76	Observing the cyclical changes in cervical epithelium using infrared microspectroscopy. Vibrational Spectroscopy, 2002, 28, 167-175.	2.2	21
77	Applications of vibrational microspectroscopy to pathology specimens. Vibrational Spectroscopy, 2002, 28, 199-207.	2.2	10
78	Vibrational spectroscopy and medicine: an alliance in the making. Vibrational Spectroscopy, 2002, 30, 31-41.	2.2	66
79	The Up-Regulation of Endosomal-Lysosomal Components in Amyloid β-Resistant Cells. Journal of Neurochemistry, 2002, 73, 1477-1482.	3.9	25
80	Infrared spectroscopy as a tool for discrimination between sensitive and multiresistant K562 cells. FEBS Journal, 2002, 269, 1968-1973.	0.2	50
81	Infrared Spectral Features of Exfoliated Cervical Cells, Cervical Adenocarcinoma Tissue, and an Adenocarcinoma Cell Line (SiSo). Gynecologic Oncology, 2002, 85, 170-174.	1.4	61
82	Characterization of human cervical precancerous tissue through the fourier transform infrared microscopy with mapping method. Gynecologic Oncology, 2003, 91, 577-583.	1.4	35
83	A new approach for the detection of cervical cancer in Thai women. Gynecologic Oncology, 2003, 90, 10-14.	1.4	48
84	Removal of blood components from cervical smears: Implications for cancer diagnosis using FTIR spectroscopy. Biopolymers, 2003, 72, 69-76.	2.4	29
85	Distinguishing and grading human gliomas by IR spectroscopy. Biopolymers, 2003, 72, 464-471.	2.4	65
86	Infrared Microspectroscopic Characteristics of Radiation-Induced Apoptosis in Human Lymphocytes. Radiation Research, 2003, 160, 238-250.	1.5	56
87	Differences between infrared spectra of normal and neoplastic human gastric cells. Spectroscopy, 2004, 18, 59-66.	0.8	14
88	Molecular Markers for Early Detection of Cervical Neoplasia. Disease Markers, 2004, 20, 103-116.	1.3	12
89	A decade of vibrational micro-spectroscopy of human cells and tissue (1994–2004). Analyst, The, 2004, 129, 880-885.	3.5	253
90	Fourier transform infrared microspectroscopy as a quantitative diagnostic tool for assignment of premalignancy grading in cervical neoplasia. Journal of Biomedical Optics, 2004, 9, 558.	2.6	31

	Cı	tation Report	
#	Article	IF	CITATIONS
91	Characteristic Absorbance of Nucleic Acids in the Mid-IR Region as Possible Common Biomarkers for Diagnosis of Malignancy. Technology in Cancer Research and Treatment, 2004, 3, 629-638.	1.9	39
93	Possible common biomarkers from FTIR microspectroscopy of cervical cancer and melanoma. Journal of Microscopy, 2004, 215, 86-91.	1.8	106
94	Fourier transform infrared (FTIR) spectral mapping of the cervical transformation zone, and dysplastic squamous epithelium. Gynecologic Oncology, 2004, 93, 59-68.	1.4	217
95	Discrimination between normal and malignant human gastric tissues by Fourier transform infrared spectroscopy. Cancer Detection and Prevention, 2004, 28, 32-36.	2.1	141
96	Infrared microspectroscopy of individual human cervical cancer (HeLa) cells. Biopolymers, 2004, 74, 168-171.	2.4	24
97	Inflamatory bowel diseases as an intermediate stage between normal and cancer: A FTIR-microspectroscopy approach. Biopolymers, 2004, 75, 384-392.	2.4	70
98	Detection of abnormal proliferation in histologically â€~normal' colonic biopsies using FTIRâ€microspectroscopy. Scandinavian Journal of Gastroenterology, 2004, 39, 557-566.	1.5	24
99	The infrared spectrum of human glioma cells is related to their in vitro and in vivo behavior. Experimental Cell Research, 2004, 297, 294-301.	2.6	33
100	Molecular characterization of cyanobacterial silicification using synchrotron infrared micro-spectroscopy. Geochimica Et Cosmochimica Acta, 2004, 68, 729-741.	3.9	156
101	Infrared fiber optic spectroscopy: a novel tool for skin diagnosis. , 2004, 5321, 44.		3
102	The potential of vibrational spectroscopy in the early detection of cervical cancer: an exciting emerging field. Proceedings of SPIE, 2005, , .	0.8	7
103	A near-infrared Fourier transform Raman spectroscopy of epidermal keratinocytes: changes in the protein–DNA structure following malignant transformation. Spectrochimica Acta - Part A: Molecula and Biomolecular Spectroscopy, 2005, 61, 27-35.	r 3.9	16
104	Cell surface groups of two picocyanobacteria strains studied by zeta potential investigations, potentiometric titration, and infrared spectroscopy. Journal of Colloid and Interface Science, 2005, 286, 487-495.	9.4	156
105	Mapping of nutrient-induced biochemical changes in living algal cells using synchrotron infrared microspectroscopy. FEMS Microbiology Letters, 2005, 249, 219-225.	1.8	112
106	Infrared spectroscopic imaging for histopathologic recognition. Nature Biotechnology, 2005, 23, 469-474.	17.5	522
107	Classification of human gliomas by infrared imaging spectroscopy and chemometric image processing Vibrational Spectroscopy, 2005, 38, 143-149.	g. 2.2	61
108	Temporal alterations of Nannochloropsis salina (Eustigmatophyceae) grown under aqueous diesel fuel stress. Journal of Applied Phycology, 2005, 17, 161-170.	2.8	7
110	Fourier transform infrared spectroscopy in cancer detection. Future Oncology, 2005, 1, 635-647.	2.4	112

#	Article	IF	CITATIONS
111	Distinction of cervical cancer biopsies by use of infrared microspectroscopy and probabilistic neural networks. Applied Optics, 2005, 44, 3725.	2.1	54
112	Fourier Transform Infrared Attenuated Total Reflection Analysis of Human Hair: Comparison of Hair from Breast Cancer Patients with Hair from Healthy Subjects. Applied Spectroscopy, 2005, 59, 26-32.	2.2	42
113	Characterisation of uterine sarcoma cell lines exhibiting MDR phenotype by vibrational spectroscopy. Biochimica Et Biophysica Acta - General Subjects, 2005, 1726, 160-167.	2.4	27
114	Mie-Type Scattering and Non-Beer-Lambert Absorption Behavior of Human Cells in Infrared Microspectroscopy. Biophysical Journal, 2005, 88, 3635-3640.	0.5	215
117	Influence of H+ and Calcium Ions on Surface Functional Groups of Synechococcus PCC 7942 Cells. Langmuir, 2006, 22, 5435-5442.	3.5	35
118	High throughput assessment of cells and tissues: Bayesian classification of spectral metrics from infrared vibrational spectroscopic imaging data. Biochimica Et Biophysica Acta - Biomembranes, 2006, 1758, 830-845.	2.6	117
121	Analysis of human breast tissues with Raman microspectroscopy. , 2006, 6026, 130.		0
122	Detection of structural disorders in pancreatic tumour DNA with Fourier-transform infrared spectroscopy. Vibrational Spectroscopy, 2006, 40, 33-39.	2.2	17
123	Molecular heterogeneity inAphanizomenon flos-aquaeandAnabaena flos-aquae(Cyanophyta): a synchrotron-based Fourier-transform infrared study of lake micropopulations. European Journal of Phycology, 2006, 41, 201-212.	2.0	38
124	Classification of Cervical Cancer Cells using FTIR Data. , 2006, 2006, 5338-41.		29
125	Resolution of codominant phytoplankton species in a eutrophic lake using synchrotron-based Fourier transform infrared spectroscopy. Phycologia, 2007, 46, 151-159.	1.4	43
126	Detection of endogenous biomolecules in Barrett's esophagus by Fourier transform infrared spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 15864-15869.	7.1	88
127	Investigation of Spermatozoa and Seminal Plasma by Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2007, 61, 309-313.	2.2	20
128	ATR microspectroscopy with multivariate analysis segregates grades of exfoliative cervical cytology. Biochemical and Biophysical Research Communications, 2007, 352, 213-219.	2.1	71
129	IR microspectroscopy: potential applications in cervical cancer screening. Cancer Letters, 2007, 246, 1-11.	7.2	128
130	The effect of diabetes mellitus on rat skeletal extensor digitorum longus muscle tissue: An FTIR study. Spectroscopy, 2007, 21, 151-160.	0.8	13
131	Feasibility study for diagnosis of stomach adenoma and cancer using IR spectroscopy. Vibrational Spectroscopy, 2007, 44, 279-285.	2.2	19
132	Focal plane array infrared imaging: a new way to analyse leaf tissue. New Phytologist, 2007, 173, 216-225.	7.3	79

#	Article	IF	CITATIONS
133	Fourier-transform infrared spectroscopic study of characteristic molecular structure in cancer cells of esophagus: An exploratory study. Cancer Detection and Prevention, 2007, 31, 244-253.	2.1	105
134	Prediction of radiotherapy response in cervix cancer by Raman spectroscopy: A pilot study. Biopolymers, 2008, 89, 530-537.	2.4	54
135	Cytology by infrared micro-spectroscopy: Automatic distinction of cell types in urinary cytology. Vibrational Spectroscopy, 2008, 48, 101-106.	2.2	33
136	Detection of structural disorders in colorectal cancer DNA with Fourier-transform infrared spectroscopy. Vibrational Spectroscopy, 2008, 46, 150-157.	2.2	24
137	Molecular response of <i>Anabaena flosâ€aquae</i> to differing concentrations of phosphorus: A combined Fourier transform infrared and Xâ€ray microanalytical study. Phycological Research, 2008, 56, 193-201.	1.6	25
138	Infrared spectroscopy: a reagent-free method to distinguish Alzheimer's disease patients from normal-aging subjects. Translational Research, 2008, 152, 103-112.	5.0	37
139	Divalent cations stabilize the aggregation of sulfated glycoproteins in the adhesive nanofibers of the biofouling diatom Toxarium undulatum. Soft Matter, 2008, 4, 811.	2.7	34
140	Monitoring of viral cancer progression using FTIR microscopy: A comparative study of intact cells and tissues. Biochimica Et Biophysica Acta - General Subjects, 2008, 1780, 1038-1046.	2.4	41
141	Review: Optical Micrometer Resolution Scanning for Non-invasive Grading of Precancer in the Human Uterine Cervix. Technology in Cancer Research and Treatment, 2008, 7, 483-496.	1.9	21
145	Assessment of embryo viability in assisted reproductive technology: shortcomings of current approaches and the emerging role of metabolomics. Current Opinion in Obstetrics and Gynecology, 2008, 20, 234-241.	2.0	111
147	Analysis of postmortem metabolic changes in rat kidney cortex using Fourier transform infrared spectroscopy. Spectroscopy, 2008, 22, 21-31.	0.8	21
148	Rapid Differentiation of Bacillus Strains Using Hydrophobic Grid Membranes and Attenuated Total Reflectance Infrared Microspectroscopy. Journal of Food Protection, 2009, 72, 1909-1915.	1.7	9
149	Infrared spectroscopy characterization of normal and lung cancer cells originated from epithelium. Journal of Veterinary Science, 2009, 10, 299.	1.3	28
150	Physical and thermal properties of human teeth determined by photomechanical, photothermal images to rapidly diagnose. Proceedings of SPIE, 2009, , .	0.8	2
151	Tracking the cell hierarchy in the human intestine using biochemical signatures derived by mid-infrared microspectroscopy. Stem Cell Research, 2009, 3, 15-27.	0.7	60
153	Serum protein profile studies of cervical cancers in monitoring of tumor response to radiotherapy using HPLC-LIF: A pilot study. Medical Laser Application: International Journal for Laser Treatment and Research, 2009, 24, 165-174.	0.3	1
154	Optical diagnosis of peritoneal metastases by infrared microscopic imaging. Analytical and Bioanalytical Chemistry, 2009, 393, 1619-1627.	3.7	17
155	FOURIER TRANSFORM INFRARED SPECTROSCOPY OF MICROALGAE AS A NOVEL TOOL FOR BIODIVERSITY STUDIES, SPECIES IDENTIFICATION, AND THE ASSESSMENT OF WATER QUALITY ¹ . Journal of Phycology, 2009, 45, 522-531.	2.3	64

#	Article	IF	CITATIONS
156	Capability of new features from FTIR spectral of cervical cells for cervical precancerous diagnostic system using MLP networks. , 2009, , .		6
157	IR spectroscopy as a new tool for evidencing antitumor drug signatures. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 1263-1270.	2.6	100
158	Monitoring of Biochemical Changes through the C6 Gliomas Progression and Invasion by Fourier Transform Infrared (FTIR) Imaging. Analytical Chemistry, 2009, 81, 9247-9256.	6.5	23
159	Raman spectroscopic analysis of cytotoxic effect of cisplatin-treated leukemic cells. Proceedings of SPIE, 2009, , .	0.8	2
160	Vibrational spectroscopy: a clinical tool for cancer diagnostics. Analyst, The, 2009, 134, 1029.	3.5	257
161	Characterization of Barrett esophagus and esophageal adenocarcinoma by Fourier-transform infrared microscopy. Analyst, The, 2009, 134, 1240.	3.5	36
162	Investigation of the influence of high-risk human papillomavirus on the biochemical composition of cervical cancer cells using vibrational spectroscopy. Analyst, The, 2010, 135, 3087.	3.5	54
163	Evaluation of Gallbladder Lipid Level During Carcinogenesis by an Infrared Spectroscopic Method. Digestive Diseases and Sciences, 2010, 55, 2670-2675.	2.3	8
164	IR spectral imaging of secreted mucus: a promising new tool for the histopathological recognition of human colonic adenocarcinomas. Histopathology, 2010, 56, 921-931.	2.9	55
165	Spectral cytopathology of cervical samples: detecting cellular abnormalities in cytologically normal cells. Laboratory Investigation, 2010, 90, 1068-1077.	3.7	60
166	Molecular and chemical characterization by Fourier transform infrared spectroscopy of human breast cancer cells with estrogen receptor expressed and not expressed. Spectroscopy, 2010, 24, 501-510.	0.8	15
167	FT-IR spectromicroscopy of mammalian cell cultures during necrosis and apoptosis induced by drugs. Spectroscopy, 2010, 24, 535-546.	0.8	13
168	Effects of the confluence rate on the FTIR spectrum of PC-3 prostate cancer cells in culture. Analyst, The, 2010, 135, 3048.	3.5	21
169	FTIR spectral signature of the effect of cardiotonic steroids with antitumoral properties on a prostate cancer cell line. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2010, 1802, 1087-1094.	3.8	38
170	FTIR study of the effect of nTiO2 on the biochemical constituents of gill tissues of Zebrafish (Danio) Tj ETQq0 0 C) rgBT /Ove	erlggk 10 Tf 5
171	Characterisation of chondrogenic differentiation of human mesenchymal stem cells using synchrotron FTIR microspectroscopy. Analyst, The, 2011, 136, 2542.	3.5	26
172	Correlation of p16INK4A expression and HPV copy number with cellular FTIR spectroscopic signatures of cervical cancer cells. Analyst, The, 2011, 136, 1365.	3.5	46
173	Visualization and characterisation of defined hair follicle compartments by Fourier transform infrared (FTIR) imaging without labelling. Journal of Dermatological Science, 2011, 63, 191-198.	1.9	14

10	

#	Article	IF	CITATIONS
174	SynchrotronFTIR analysis of drug treated ovarian A2780 cells: an ability to differentiate cell response to different drugs?. Analyst, The, 2011, 136, 498-507.	3.5	57
175	Formation of Polyhydroxyalkanoate in Aerobic Anoxygenic Phototrophic Bacteria and Its Relationship to Carbon Source and Light Availability. Applied and Environmental Microbiology, 2011, 77, 7445-7450.	3.1	54
176	Rapid identification of community-associated methicillin-resistant Staphylococcus aureus by Fourier transform infrared spectroscopy. Diagnostic Microbiology and Infectious Disease, 2011, 70, 157-166.	1.8	23
177	Characterization of Melanoma Progression on Animal Model Using Fourier Transform Infrared Mapping. , 0, , .		1
178	Fourier Transform Infrared Microspectroscopy for Cancer Diagnostic of C6 Glioma on Animal Model. , 2011, , .		1
179	Enzymatic features of the glucose metabolism in tumor cells. FEBS Journal, 2011, 278, 2436-2459.	4.7	56
180	Infrared spectroscopy provides a green analytical chemistry tool for direct diagnosis of cancer. TrAC - Trends in Analytical Chemistry, 2011, 30, 864-874.	11.4	60
181	Two-photon autofluorescence spectroscopy of oral mucosa tissue. , 2011, , .		1
182	Advanced Vibrational Spectroscopic Imaging of Human Tissue in Life Science. Current Proteomics, 2012, 9, 132-142.	0.3	13
183	Remote Fourier transform-infrared spectral imaging system with hollow-optical fiber bundle. Applied Optics, 2012, 51, 6913.	1.8	12
184	Infrared spectral imaging by hollow-optical fiber bundle. Proceedings of SPIE, 2012, , .	0.8	0
185	Label-Free Biomedical Imaging With Mid-IR Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 1502-1513.	2.9	47
186	Raman spectroscopic study of transfected HEK293T cells. Inmunologia (Barcelona, Spain: 1987), 2012, 31, 115-118.	0.1	0
187	FT-IR Microspectroscopy of Mouse Colon Tissues. American Journal of Pathology, 2012, 181, 1961-1968.	3.8	12
188	Synchrotron Infrared Measurements of Protein Phosphorylation in Living Single PC12 Cells during Neuronal Differentiation. Analytical Chemistry, 2012, 84, 4118-4125.	6.5	57
189	Applications of Infrared and Raman Microspectroscopy of Cells and Tissue in Medical Diagnostics: Present Status and Future Promises. Spectroscopy, 2012, 27, 463-496.	0.8	77
190	Suitability of infrared microspectroscopic imaging for histopathology of the uterine cervix. Histopathology, 2012, 60, 1084-1098.	2.9	5
191	Intelligent classification of cervical pre-cancerous cells based on the FTIR spectra. Ain Shams Engineering Journal, 2012, 3, 61-70.	6.1	19

#	Article	IF	CITATIONS
192	The Changes of Fourier Transform Infrared Spectrum in Rat Brain*. Journal of Forensic Sciences, 2012, 57, 794-798.	1.6	19
193	Photosynthetic performance, lipid production and biomass composition in response to nitrogen limitation in marine microalgae. Plant Physiology and Biochemistry, 2012, 54, 70-77.	5.8	163
194	Oral cancer diagnostics based on infrared spectral markers and wax physisorption kinetics. Analytical and Bioanalytical Chemistry, 2013, 405, 1995-2007.	3.7	19
195	Molecular pathology <i>via</i> IR and Raman spectral imaging. Journal of Biophotonics, 2013, 6, 855-886.	2.3	167
196	The roles of macromolecules in imatinib resistance of chronic myeloid leukemia cells by Fourier transform infrared spectroscopy. Biomedicine and Pharmacotherapy, 2013, 67, 221-227.	5.6	13
197	Comparison of serum from gastric cancer patients and from healthy persons using FTIR spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2013, 116, 365-369.	3.9	49
198	Raman spectroscopic study on classification of cervical cell specimens. Vibrational Spectroscopy, 2013, 68, 115-121.	2.2	39
199	Biospectroscopy insights into the multi-stage process of cervical cancer development: probing for spectral biomarkers in cytology to distinguish grades. Analyst, The, 2013, 138, 3909.	3.5	35
200	Immobilization of the urease on eggshell membrane and its application in biosensor. Materials Science and Engineering C, 2013, 33, 850-854.	7.3	49
201	FTIR microspectroscopy for rapid screening and monitoring of polyunsaturated fatty acid production in commercially valuable marine yeasts and protists. Analyst, The, 2013, 138, 6016.	3.5	64
202	Application of Fourier Transform Infrared Spectroscopy for Tumor Diagnosis. Biotechnology and Biotechnological Equipment, 2013, 27, 4200-4207.	1.3	59
203	Multivariate Analysis for Fourier Transform Infrared Spectra of Complex Biological Systems and Processes. , 0, , .		30
204	Histology Verification Demonstrates That Biospectroscopy Analysis of Cervical Cytology Identifies Underlying Disease More Accurately than Conventional Screening: Removing the Confounder of Discordance. PLoS ONE, 2014, 9, e82416.	2.5	42
205	Intelligent Screening Systems for Cervical Cancer. Scientific World Journal, The, 2014, 2014, 1-15.	2.1	41
206	Role of water in chromosome spreading and swelling induced by acetic acid treatment: a FTIR spectroscopy study. European Journal of Histochemistry, 2014, 58, 2330.	1.5	7
208	Progress in Fourier Transform Infrared Spectroscopic Imaging Applied to Venereal Cancer Diagnosis. Veterinary Pathology, 2014, 51, 224-237.	1.7	20
209	Ectomycorrhizal identification in environmental samples of tree roots by Fourier-transform infrared (FTIR) spectroscopy. Frontiers in Plant Science, 2014, 5, 229.	3.6	22
210	FTIR Imaging of Tissues: Techniques and Methods of Analysis. Challenges and Advances in Computational Chemistry and Physics, 2014, , 419-473.	0.6	28

#	Article	IF	CITATIONS
211	Raman spectroscopy of human saliva for acute myocardial infarction detection. , 2014, , .		2
212	Vibrational Spectroscopy: Disease Diagnostics and Beyond. Challenges and Advances in Computational Chemistry and Physics, 2014, , 355-399.	0.6	10
213	Protective effects of desferrioxamine and deferiprone on the spleen tissue of aluminum intoxicated mice: A Fourier transform infrared spectroscopy study. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2014, 126, 148-156.	3.9	3
214	Optical Spectroscopy and Computational Methods in Biology and Medicine. Challenges and Advances in Computational Chemistry and Physics, 2014, , .	0.6	12
215	Processing ThinPrep cervical cytological samples for Raman spectroscopic analysis. Analytical Methods, 2014, 6, 7831-7841.	2.7	36
216	Discrimination of micromass-induced chondrocytes from human mesenchymal stem cells by focal plane array-Fourier transform infrared microspectroscopy. Talanta, 2014, 130, 39-48.	5.5	8
218	Immobilization of <i>Amano Lipase A</i> onto Stöber silica surface: process characterization and kinetic studies. Open Chemistry, 2015, 13, .	1.9	30
219	Quadratic of Half Ellipse Smoothing Technique for Cervical Cells FTIR Spectra in a Screening System. Procedia Computer Science, 2015, 59, 133-141.	2.0	2
220	A potential method for non-invasive acute myocardial infarction detection based on saliva Raman spectroscopy and multivariate analysis. Laser Physics Letters, 2015, 12, 125702.	1.4	10
222	Henry Horst Mantsch – A visionary biomedical spectroscopist and a true interdisciplinary professional. Biomedical Spectroscopy and Imaging, 2015, 4, 311-314.	1.2	Ο
223	Vibrational Microspectroscopy for Cancer Screening. Applied Sciences (Switzerland), 2015, 5, 23-35.	2.5	27
224	The evolution of biomedical vibrational spectroscopy: A personal perspective. Biomedical Spectroscopy and Imaging, 2015, 4, 315-329.	1.2	6
226	Chitin-Lignin Material as a Novel Matrix for Enzyme Immobilization. Marine Drugs, 2015, 13, 2424-2446.	4.6	70
227	Vitamin A deficiency induces structural and functional alterations in the molecular constituents of the rat hippocampus. British Journal of Nutrition, 2015, 113, 45-55.	2.3	7
228	Raman spectroscopy in cervical cancers: An update. Journal of Cancer Research and Therapeutics, 2015, 11, 10.	0.9	24
229	The detection and discrimination of human body fluids using ATR FT-IR spectroscopy. Forensic Science International, 2015, 252, e10-e16.	2.2	126
230	Fourier transform infrared spectroscopy for the distinction of MCF-7 cells treated with different concentrations of 5-fluorouracil. Journal of Translational Medicine, 2015, 13, 108.	4.4	34
231	Infrared hollow optical fiber probes for reflectance spectral imaging. Applied Optics, 2015, 54, 4602.	1.8	5

#	Article	IF	CITATIONS
232	Classification of malignant and benign tumors of the lung by infrared spectral histopathology (SHP). Laboratory Investigation, 2015, 95, 406-421.	3.7	48
233	Raman spectroscopy for screening and diagnosis of cervical cancer. Analytical and Bioanalytical Chemistry, 2015, 407, 8279-8289.	3.7	73
234	Applications of FT-IR Spectrophotometry in Cancer Diagnostics. Critical Reviews in Analytical Chemistry, 2015, 45, 156-165.	3.5	50
235	Candida antarctica Lipase B Immobilized onto Chitin Conjugated with POSS® Compounds: Useful Tool for Rapeseed Oil Conversion. International Journal of Molecular Sciences, 2016, 17, 1581.	4.1	13
236	Bladder cancer diagnosis from bladder wash by Fourier transform infrared spectroscopy as a novel test for tumor recurrence. Journal of Biophotonics, 2016, 9, 967-975.	2.3	31
237	<i>Luffa cylindrica</i> sponges as a thermally and chemically stable support for <i>Aspergillus niger</i> lipase. Biotechnology Progress, 2016, 32, 657-665.	2.6	20
238	Infrared spectroscopy and multivariate analysis: Classification of mixed fusarium species solani and oxysporum isolates at the species level. , 2016, , .		1
239	Automated cervical precancerous cells screening system based on Fourier transform infrared spectroscopy features. Journal of Biomedical Optics, 2016, 21, 075005.	2.6	11
240	Techniques for cervical cancer screening and diagnosis. , 2016, , 345-375.		2
241	Different behavior of Staphylococcus epidermidis in intracellular biosynthesis of silver and cadmium sulfide nanoparticles: more stability and lower toxicity of extracted nanoparticles. World Journal of Microbiology and Biotechnology, 2016, 32, 140.	3.6	10
242	ATR-FTIR analysis of spectral and biochemical changes in glioma cells induced by chlorotoxin. Vibrational Spectroscopy, 2016, 87, 164-172.	2.2	10
243	Probing suitable therapeutic nanoparticles for controlled drug delivery and diagnostic reproductive health biomarker development. Materials Science and Engineering C, 2016, 61, 235-245.	7.3	10
244	Raman spectroscopy for cytopathology of exfoliated cervical cells. Faraday Discussions, 2016, 187, 187-198.	3.2	35
245	A molecular and biophysical comparison of macromolecular changes in imatinib-sensitive and imatinib-resistant K562 cells exposed to ponatinib. Tumor Biology, 2016, 37, 2365-2378.	1.8	6
246	Raman and infra-red microspectroscopy: towards quantitative evaluation for clinical research by ratiometric analysis. Chemical Society Reviews, 2016, 45, 1879-1900.	38.1	104
247	FTIR spectral signature of anticancer drugs. Can drug mode of action be identified?. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2016, 1864, 85-101.	2.3	45
248	Developing Test Methodology to Identify Intrinsic Biomarkers in Biological Models Using Fourier Transform Infrared (FTIR) Spectroscopy. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 358-363.	2.9	3
249	Application of infrared spectroscopy in the identification of Ewing sarcoma: A preliminary report. Infrared Physics and Technology, 2017, 83, 200-205.	2.9	15

#	Article	IF	CITATIONS
250	Detection of antibiotic resistant Escherichia Coli bacteria using infrared microscopy and advanced multivariate analysis. Analyst, The, 2017, 142, 2136-2144.	3.5	47
251	Potential chemoprotective role of resveratrol against cisplatin induced testicular damage in mice. Chemico-Biological Interactions, 2017, 273, 200-211.	4.0	19
252	Using Infrared Spectroscopy and Multivariate Analysis to Detect Antibiotics' Resistant <i>Escherichia coli</i> Bacteria. Analytical Chemistry, 2017, 89, 8782-8790.	6.5	78
253	Lipase B from Candida antarctica Immobilized on a Silica-Lignin Matrix as a Stable and Reusable Biocatalytic System. Catalysts, 2017, 7, 14.	3.5	36
254	Synergy Effect of Combining Fluorescence and Mid Infrared Fiber Spectroscopy for Kidney Tumor Diagnostics. Sensors, 2017, 17, 2548.	3.8	16
255	Spongin-Based Scaffolds from Hippospongia communis Demosponge as an Effective Support for Lipase Immobilization. Catalysts, 2017, 7, 147.	3.5	35
256	Application of infrared spectroscopy for the identification of squamous cell carcinoma (lung) Tj ETQq0 0 0 rgBT	Overlock	10 Tf 50 502 24
257	Physicochemical and catalytic properties of acylase I from <i>aspergillus melleus</i> immobilized on amino―and carbonylâ€grafted stöber silica. Biotechnology Progress, 2018, 34, 767-777.	2.6	12
258	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.	5.5	61
259	FTIR Microspectroscopy Probes Particle-Radiation Effect on HCT116 cells (p53+/+, p53–/–). Radiation Research, 2018, 189, 156-164.	1.5	5
260	The effect of operational parameters on the biodegradation of bisphenols by Trametes versicolor laccase immobilized on Hippospongia communis spongin scaffolds. Science of the Total Environment, 2018, 615, 784-795.	8.0	143
261	Serum-based diagnostic prediction of oral submucous fibrosis using FTIR spectrometry. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 189, 322-329.	3.9	35
262	A study of hormonal effects in cervical smear samples using Raman spectroscopy. Journal of Biophotonics, 2018, 11, e201700240.	2.3	4
263	Distinguishing Ewing sarcoma and osteomyelitis using FTIR spectroscopy. Scientific Reports, 2018, 8, 15081.	3.3	20
264	Assessment of Radiation Resistance and Therapeutic Targeting of Cancer Stem Cells: A Raman Spectroscopic Study of Glioblastoma. Analytical Chemistry, 2018, 90, 12067-12074.	6.5	13
265	Transmission infrared micro-spectroscopic study of lactic acid production in cultured cells. Vibrational Spectroscopy, 2018, 98, 8-14.	2.2	0
266	Role of Infrared Spectroscopy and Imaging in Cancer Diagnosis. Current Medicinal Chemistry, 2018, 25, 1055-1072.	2.4	53
267	A FTIR microspectroscopy study of the structural and biochemical perturbations induced by natively folded and aggregated transthyretin in HL-1 cardiomyocytes. Scientific Reports, 2018, 8, 12508.	3.3	31

#	Article	IF	CITATIONS
268	Vibrational Spectroscopy Fingerprinting in Medicine: from Molecular to Clinical Practice. Materials, 2019, 12, 2884.	2.9	223
269	Application of metasurface-enhanced infra-red spectroscopy to distinguish between normal and cancerous cell types. Analyst, The, 2019, 144, 1115-1127.	3.5	23
270	Graphene oxide exhibits differential mechanistic action towards Gram-positive and Gram-negative bacteria. Colloids and Surfaces B: Biointerfaces, 2019, 181, 6-15.	5.0	99
271	Vibrational characterization of granulosa cells from patients affected by unilateral ovarian endometriosis: New insights from infrared and Raman microspectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019, 212, 206-214.	3.9	32
272	Investigation of human pancreatic cancer tissues by Fourier Transform Infrared Hyperspectral Imaging. Journal of Biophotonics, 2020, 13, e201960071.	2.3	39
273	Mesostructured cellular foam silica materials for laccase immobilization and tetracycline removal: A comprehensive study. Microporous and Mesoporous Materials, 2020, 291, 109688.	4.4	21
274	Quinazolinone derivative BNUAâ€3 ameliorated [NDEA+2â€AAF]â€induced liver carcinogenesis in SD rats by modulating AhR YP1B1â€Nrf2â€Keap1 pathway. Clinical and Experimental Pharmacology and Physiology, 2020, 47, 143-157.	1.9	11
275	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.	1.5	5
276	Simultaneous FTIR and Raman Spectroscopy in Endometrial Atypical Hyperplasia and Cancer. International Journal of Molecular Sciences, 2020, 21, 4828.	4.1	17
277	Vibrational spectroscopy of liquid biopsies for prostate cancer diagnosis. Therapeutic Advances in Medical Oncology, 2020, 12, 175883592091849.	3.2	31
278	Analysis of Hepatic Fibrosis Characteristics in Cirrhotic Patients with and without Hepatocellular Carcinoma by FTIR Spectral Imaging. Molecules, 2020, 25, 4092.	3.8	7
279	ATR-FTIR spectroscopy as adjunct method to the microscopic examination of hematoxylin and eosin-stained tissues in diagnosing lung cancer. PLoS ONE, 2020, 15, e0233626.	2.5	24
280	Immobilisation of Candida rugosa lipase on polyhydroxybutyrate via a combination of adsorption and cross-linking agents to enhance acylglycerol production. Process Biochemistry, 2020, 95, 174-185.	3.7	53
281	Facile Chemical Analysis of Live Cell Activities by Fourier Transform Infrared (FTIR) Spectroscopy in the Transmission Mode. Vibrational Spectroscopy, 2020, 109, 103068.	2.2	4
282	Infrared Spectroscopy of Blood. Applied Spectroscopy, 2021, 75, 611-646.	2.2	32
283	Novel insights in dimethyl carbonate-based extraction of polyhydroxybutyrate (PHB). Biotechnology for Biofuels, 2021, 14, 13.	6.2	19
284	Discrimination of menstrual and peripheral blood traces using attenuated total reflection Fourier transform-infrared (ATR FT-IR) spectroscopy and chemometrics for forensic purposes. Analytical and Bioanalytical Chemistry, 2021, 413, 2513-2522.	3.7	20
285	Biodiesel production from alternative raw materials using a heterogeneous low ordered biosilicified enzyme as biocatalyst. Biotechnology for Biofuels, 2021, 14, 67.	6.2	26

		CITATION REPORT		
#	Article		IF	CITATIONS
286	Spectroscopic evaluation of carcinogenesis in endometrial cancer. Scientific Reports, 2	2021, 11, 9079.	3.3	14
287	Pristine and Poly(Dimethylsiloxane) Modified Multi-Walled Carbon Nanotubes as Supp Immobilization. Materials, 2021, 14, 2874.	orts for Lipase	2.9	8
288	Analysis of Pathogenic Bacterial and Yeast Biofilms Using the Combination of Synchrot Microspectroscopy and Chemometric Approaches. Molecules, 2021, 26, 3890.	tron ATR-FTIR	3.8	28
289	Raman spectral cytopathology for cancer diagnostic applications. Nature Protocols, 20)21, 16, 3716-3735.	12.0	23
290	Imaging and SERS Study of the Au Nanoparticles Interaction with HPV and Carcinogen Tissues. Molecules, 2021, 26, 3758.	ic Cervical	3.8	5
291	FTIR combined with chemometric tools $\hat{a} \in$ "a potential approach for early screening of microalgal cultures. Journal of Applied Phycology, 2021, 33, 2709-2722.	grazers in	2.8	6
293	Diagnosis of endometriosis using endometrioma volume and vibrational spectroscopy multivariate methods as a noninvasive method. Spectrochimica Acta - Part A: Molecula Biomolecular Spectroscopy, 2022, 264, 120246.	with Ir and	3.9	15
294	Vibrational spectroscopic approaches for semen analysis in forensic investigation: Stat and way forward. Microchemical Journal, 2021, 171, 106810.	e of the art	4.5	1
295	Naringin, a natural flavonone glycoside attenuates N-nitrosodiethylamine- induced hep carcinoma in sprague-dawley rats. Pharmacognosy Magazine, 2021, 17, 196.	atocellular	0.6	2
296	Monitoring the effects of chemical stimuli on live cells with metasurface-enhanced infrareflection spectroscopy. Lab on A Chip, 2021, 21, 3991-4004.	ared	6.0	18
298	Medical Applications of Infrared Spectroscopy. , 1997, , 67-77.			5
299	The Behaviour of Proteins Under Pressure. , 1993, , 443-469.			20
300	High Pressure Vibrational Spectroscopic Studies of Aqueous Biological Systems: From to Intact Tissues. , 1993, , 511-543.	Model Systems		10
301	Infrared Spectroscopy and Multivariate Statistics applied to Medical and Biological Pro 475-478.	blems. , 1999, ,		2
302	Raman spectral signatures of cervical exfoliated cells from liquid-based cytology sample Biomedical Optics, 2017, 22, 1.	es. Journal of	2.6	13
303	Fourier-transform infrared spectroscopy: a pharmacotoxicologic tool for in vivo monito aggression. Canadian Journal of Physiology and Pharmacology, 2001, 79, 158-165.	pring radical	1.4	4
305	Use of Fourier-transform infrared spectroscopy to rapidly diagnose gastric endoscopic World Journal of Gastroenterology, 2005, 11, 3842.	biopsies.	3.3	26
306	Fourier transform infrared (FTIR) spectroscopy for identification of Chlorella vulgaris Be 1890 and Scenedesmus obliquus (Turpin) KA¼tzing 1833. African Journal of Biotechn	eijerinck ology, 2012, 11, .	0.6	40

#	Article	IF	CITATIONS
307	A Preliminary Fuzzy Model to Identify Abnormal Cervical Smears Using Fourier Transform Infrared Spectroscopy. , 2001, , 135-142.		0
308	Screening for Cervical Cancer. Cancer Prevention, Cancer Causes, 2004, , 261-299.	0.3	1
309	High Pressure Infrared Spectroscopy in Biological and Biomedical Studies. , 1996, , 383-392.		0
310	Infrared Spectroscopy of Chemically Preserved Cervical Specimens on IR-transparent Disposable Filters. , 1997, , 433-435.		Ο
311	Silibinin Inhibits the Hepatocellular Carcinoma in NDEA-Induced Rodent Carcinogenesis Model: An Evaluation through Biochemical and Bio-Structural Parameters. Journal of Cancer Science & Therapy, 2015, 07, .	1.7	1
312	Fourier transform infrared spectroscopy: a potential technique for noninvasive detection of spermatogenesis. Avicenna Journal of Medical Biotechnology, 2014, 6, 47-52.	0.3	10
313	Oral Cancer Discrimination and Novel Oral Epithelial Dysplasia Stratification Using FTIR Imaging and Machine Learning. Diagnostics, 2021, 11, 2133.	2.6	5
315	Visualizing the anti-cancer effects of chrysin nanoparticles by flow cytometry, microscopy and Fourier transform infrared spectroscopy. , 2022, , .		1
316	The structural effects of Vitamin A deficiency on biological macromolecules due to ethanol consumption and withdrawal: An <scp>FTIR</scp> study with chemometrics. Journal of Biophotonics, 2022, , e202100377.	2.3	1
317	Characterisation of breast cancer molecular signature and treatment assessment with vibrational spectroscopy and chemometric approach. PLoS ONE, 2022, 17, e0264347.	2.5	3
318	Infra-red spectroscopy combined with machine learning algorithms enables early determination of Pseudomonas aeruginosa's susceptibility to antibiotics. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 274, 121080.	3.9	12
319	Evaluation on antiosteoporosis of collagen peptides prepared by immobilized protease with eggshell membrane. Journal of Food Science, 2022, , .	3.1	Ο
320	Heterogeneous enzymatic catalysts: Comparing their efficiency in the production of biodiesel from alternative oils**. ChemistrySelect, 2023, 8, .	1.5	2
321	The clinical transferability of Raman micro-spectroscopic systems for cervical cytopathology. , 2023, ,		0
322	A Review on Near Infrared Spectroscopic Technique for the Prognosis of Leukemia. , 2023, , .		0
323	Weakly supervised anomaly detection coupled with Fourier transform infrared (FT-IR) spectroscopy for the identification of non-normal tissue. Analyst, The, 0, , .	3.5	0
324	Longitudinal Study of Cirrhosis Development in STAM and carbon tetrachloride Mouse Models Using Fourier Transform Infrared Spectral Imaging. Laboratory Investigation, 2023, 103, 100231.	3.7	0
326	Exploration of macromolecular phenotype of human skeletal muscle in diabetes using infrared spectroscopy. Frontiers in Endocrinology, 0, 14, .	3.5	0

#	Article	IF	CITATIONS
327	Application of ATR-FTIR spectroscopy and chemometrics for the forensic discrimination of aged peripheral and menstrual bloodstains. Microchemical Journal, 2024, 197, 109933.	4.5	0
328	Long-term, non-invasive FTIR detection of low-dose ionizing radiation exposure. Scientific Reports, 2024, 14, .	3.3	0