

CITATION REPORT

List of articles citing

Prospects for in vivo Raman spectroscopy

DOI: 10.1088/0031-9155/45/2/201

Physics in Medicine and Biology, 2000, 45, R1-59.

Source: <https://exaly.com/paper-pdf/32125789/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
738	Quantitative myelin imaging with coherent anti-Stokes Raman scattering microscopy: alleviating the excitation polarization dependence with circularly polarized laser beams. 2009 , 17, 18419		
737	Exploration of Biogenic Nano-chemobiotics Fabricated by Silver Nanoparticle and Galactoxyloglucan with an Efficient Biodistribution in Solid Tumor Investigated by SERS Fingerprinting.		
736	Biomedical Applications of Raman Spectroscopy. 2000 , 1-12		1
735	Principles and pitfalls of diagnostic test development: implications for spectroscopic tissue diagnosis. 2000 , 5, 119-30		22
734	In vivo detection of dysplastic tissue by Raman spectroscopy. 2000 , 72, 6010-8		171
733	Potential new endoscopic techniques for the earlier diagnosis of pre-malignancy. 2001 , 15, 227-47		12
732	Endoscopic diagnostics. 2001 , 120, 763-81		38
731	Near-Infrared Raman Spectroscopy for in vivo Detection of Cervical Precancers. 2001 , 55, 955-959		221
730	Effects of crosslinker fraction in polymer gel dosimeters using FT Raman spectroscopy. <i>Physics in Medicine and Biology</i> , 2001 , 46, 1949-61	3.8	37
729	Near-infrared Raman spectroscopy to detect anti- <i>Toxoplasma gondii</i> antibodies in blood sera of domestic cats. 2001 ,		1
728	Characterization of monomer/crosslinker consumption and polymer formation observed in FT-Raman spectra of irradiated polyacrylamide gels. <i>Physics in Medicine and Biology</i> , 2001 , 46, 151-65	3.8	67
727	Excitation wavelength-dependent changes in Raman spectra of whole blood and hemoglobin: comparison of the spectra with 514.5-, 720-, and 1064-nm excitation. 2001 , 6, 366-70		78
726	Relative effectiveness of polyacrylamide gel dosimeters applied to proton beams: Fourier transform Raman observations and track structure calculations. 2002 , 29, 569-77		46
725	Raman spectral classification of atherosclerosis using neural networks and discriminant analysis.		
724	Optical-Fiber Medical Sensors. 2002 , 27, 383-387		10
723	Fiber-optical and microscopic detection of malignant tissue by use of infrared spectrometry. 2002 , 7, 100-8		17
722	In vivo detection of cervical dysplasia with near-infrared Raman spectroscopy. 2002 , 4614, 145		2

721	. 2002 , 9, 255-261	29
720	Identification of high-risk atherosclerotic plaques: a survey of spectroscopic methods. 2002 , 17, 638-47	36
719	Surface-Enhanced Raman Spectroscopy in Single Living Cells Using Gold Nanoparticles. 2002 , 56, 150-154	504
718	Separation of the Raman Spectral Signatures of Bioapatite and Collagen in Compact Mouse Bone Bleached with Hydrogen Peroxide. 2002 , 56, 770-775	21
717	Fluorescence Backgroundless Ti: Sapphire Laser Using Acousto-Optical Tunable Filter for Raman Spectroscopic Measurements. 2002 , 56, 1303-1307	22
716	Identification of Bladder Wall Layers by Raman Spectroscopy. 2002 , 168, 1771-1778	37
715	Real-time tissue characterization on the basis of in vivo Raman spectra. 2002 , 33, 580-585	72
714	In situ investigation of the chemical composition of ceroid in human atherosclerosis by Raman spectroscopy. 2002 , 33, 544-551	27
713	Raman microspectroscopic model of human breast tissue: implications for breast cancer diagnosis in vivo. 2002 , 33, 552-563	231
712	Development of a combined confocal and scanning near-field Raman microscope for deep UV laser excitation. 2002 , 33, 730-739	27
711	Medical applications of Raman spectroscopy: from proof of principle to clinical implementation. 2002 , 67, 1-9	199
710	Vibrational spectroscopy and medicine: an alliance in the making. 2002 , 30, 31-41	59
709	New optical technologies for earlier endoscopic diagnosis of premalignant gastrointestinal lesions. 2002 , 17 Suppl, S85-104	108
708	Discriminating vital tumor from necrotic tissue in human glioblastoma tissue samples by Raman spectroscopy. 2002 , 82, 1265-77	164
707	The prospects for high resolution optical brain imaging: the magnetic resonance perspective. 2003 , 21, 1225-33	8
706	In vivo monitoring of the gastroesophageal system using optical fibre sensors. 2003 , 375, 732-43	12
705	Raman spectroscopy--a prospective tool in the life sciences. 2003 , 4, 14-30	254
704	Raman spectroscopy for optical diagnosis in normal and cancerous tissue of the nasopharynx-preliminary findings. <i>Lasers in Surgery and Medicine</i> , 2003 , 32, 210-4	3.6 139

703	On-line monitoring of <i>Phaffia rhodozyma</i> fed-batch process with in situ dispersive Raman spectroscopy. 2003 , 83, 668-80	52
702	New limits in ultrasensitive trace detection by surface enhanced Raman scattering (SERS). 2003 , 375, 84-90	104
701	Detection of high-risk atherosclerotic coronary plaques by intravascular spectroscopy. 2003 , 16, 243-52	21
700	The use of synchrotron infrared microspectroscopy in biological and biomedical investigations. 2003 , 32, 3-21	189
699	Mapping of single cells by near infrared Raman microspectroscopy. 2003 , 32, 75-83	149
698	Photodiagnostic techniques for the endoscopic detection of premalignant gastrointestinal lesions. 2003 , 15, 153-173	37
697	Molecular imaging in drug discovery and development. 2003 , 2, 123-31	616
696	Toward a glucose biosensor based on surface-enhanced Raman scattering. 2003 , 125, 588-93	565
695	Diagnostic potential of near-infrared Raman spectroscopy in the colon: differentiating adenomatous from hyperplastic polyps. 2003 , 57, 396-402	227
694	Raman spectroscopic study of glutaraldehyde-stabilized collagen and pericardium tissue. 2003 , 14, 185-97	58
693	Osteoradionecrosis (ORN) of the mandible: a laser Raman spectroscopic study. 2003 , 57, 1100-16	45
692	Fluorescence and Raman spectroscopy. 2003 , 13, 279-96	27
691	Fiber optic probes for biomedical optical spectroscopy. 2003 , 8, 121-47	345
690	Study of dynamical process of heat denaturation in optically trapped single microorganisms by near-infrared Raman spectroscopy. 2003 , 94, 6138-6142	95
689	Optical detection and eradication of dysplastic Barrett's esophagus. 2003 , 2, 289-302	8
688	Near infrared Raman spectroscopy to study the composition of human brain tissue and tumors. 2003 , 5141_230	1
687	CARS microscopy with dark field excitation. 2003 ,	
686	Nonmelanoma skin cancer in organ transplant patients. 2003 , 75, 253-7	38

685	Advanced spectroscopy for diagnosis of arteriosclerosis. 2004 , 25, 93-100	
684	Raman microspectroscopic mapping studies of human bronchial tissue. 2004 , 9, 1187-97	89
683	Diagnosis of squamous cell carcinoma of human skin by Raman spectroscopy. 2004 , 5326, 106	3
682	Contribution of encapsulation on the biodisponibility of retinol. 2004 , 26, 71-7	5
681	Metabolic profiles of cancer cells. 2004 , 4, 551-61	600
680	Detection of skin cancer by classification of Raman spectra. 2004 , 51, 1784-93	166
679	Non-invasive glucose measurement technologies: an update from 1999 to the dawn of the new millennium. 2004 , 6, 660-97	165
678	Side-viewing fiberoptic catheter for biospectroscopy applications. 2004 , 19, 15-20	14
677	Bioanalytical applications of Raman spectroscopy. 2004 , 378, 60-2	55
676	Melanoma diagnosis by Raman spectroscopy and neural networks: structure alterations in proteins and lipids in intact cancer tissue. 2004 , 122, 443-9	233
675	Spectroscopic imaging of arteries and atherosclerotic plaques. 2004 , 74, 328-35	77
674	Investigation of ischemia damaging action on blood serum by Raman spectroscopy method. 2004 , 1, 555-559	18
673	Qualitative analysis of trace Raman bands of non-resonant species in near-infrared excited pre-resonance Raman spectra of hemoglobin by partial least square regression-Raman excitation profile method. 2004 , 34, 149-156	10
672	Raman spectroscopy for neoplastic tissue differentiation: a pilot study. 2004 , 39, 953-6; discussion 953-6	40
671	Optical fiber probe for biomedical Raman spectroscopy. 2004 , 43, 542-54	177
670	Rapid quantification of carotenoids and fat in Atlantic Salmon (<i>Salmo salar</i> L.) by Raman spectroscopy and chemometrics. 2004 , 58, 395-403	39
669	Blue skies forever: The enduring legacy of sir C. V. Raman and the origins of the Ohmeda Rascal II. 2004 , 22, 9-11	
668	FT-Raman spectroscopy study of human breast tissue. 2004 ,	5

667	Principal components analysis of FT-Raman spectra of ex vivo basal cell carcinoma. 2004,		3
666	Near-infrared Raman spectroscopy to detect the calcification of the annular mitral valve. 2004,		
665	Classification of ENT tissue using near-infrared Raman spectroscopy and support vector machines. 2005,		
664	Raman spectroscopy for diagnosis of atherosclerosis: a rapid analysis using neural networks. 2005, 27, 237-44		21
663	Evaluation of the suitability of ex vivo handled ovarian tissues for optical diagnosis by Raman microspectroscopy. 2005, 79, 269-76		26
662	Bullous pemphigoid detection by micro-Raman spectroscopy and cluster analysis: structure alterations of proteins. 2005, 36, 1034-1039		3
661	Investigation of CsCl-induced aggregation of serum albumin depending on pH by Raman spectroscopy method. 2005, 2, 204-207		11
660	Raman spectroscopy for optical diagnosis in the larynx: preliminary findings. <i>Lasers in Surgery and Medicine,</i> 2005, 37, 192-200	3.6	83
659	Autofluorescence and Raman microspectroscopy of tissue sections of oral lesions. 2005, 19, 203-9		28
658	Hemoglobin oxygen saturation measurements using resonance Raman intravital microscopy. 2005, 289, H488-95		35
657	Quantitative concentration measurements of creatinine dissolved in water and urine using Raman spectroscopy and a liquid core optical fiber. 2005, 10, 031115		16
656	Ex vivo detection and characterization of early dental caries by optical coherence tomography and Raman spectroscopy. 2005, 10, 031118		87
655	Raman spectroscopy for noninvasive glucose measurements. 2005, 10, 031114		159
654	Single-cell Raman and fluorescence microscopy reveal the association of lipid bodies with phagosomes in leukocytes. 2005, 102, 10159-64		255
653	Diagnosing breast cancer by using Raman spectroscopy. 2005, 102, 12371-6		490
652	Biophotonic and other physical methods for characterizing oral mucosa. 2005, 38, 215-40, vi		3
651	Fiber-optic probes for in vivo Raman spectroscopy in the high-wavenumber region. 2005, 77, 6747-52		100
650	Micro-optical fiber probe for use in an intravascular Raman endoscope. 2005, 44, 4722-32		74

649	Vibrational spectroscopy for molecular characterisation and diagnosis of benign, premalignant and malignant skin tumours. 2005 , 11, 191-225	58
648	Infrared laser light reduces loading time of dental implants: a Raman spectroscopic study. 2005 , 23, 27-31	85
647	Fiber optic near-infrared Raman spectroscopy for clinical noninvasive determination of water content in diseased skin and assessment of cutaneous edema. 2005 , 10, 14013	24
646	Real-time Raman system for in vivo disease diagnosis. 2005 , 10, 031113	107
645	Tissue characterization using high wave number Raman spectroscopy. 2005 , 10, 031116	100
644	Noninvasive glucose sensing. 2005 , 77, 5429-39	125
643	Changes in nuclei and peritumoral collagen within nodular basal cell carcinomas via confocal micro-Raman spectroscopy. 2006 , 11, 34004	39
642	Detection of morphological markers of vulnerable atherosclerotic plaque using multimodal spectroscopy. 2006 , 11, 021007	23
641	Single-cell optical imaging of the phagocyte NADPH oxidase. 2006 , 8, 1509-22	14
640	Two-photon vibrational spectroscopy for biosciences based on surface-enhanced hyper-Raman scattering. 2006 , 103, 17149-53	124
639	Wavelet data processing of micro-Raman spectra of biological samples. 2006 , 17, 298-303	42
638	Metabolic fingerprinting in disease diagnosis: biomedical applications of infrared and Raman spectroscopy. 2006 , 131, 875-85	458
637	Vibrational Spectroscopy in the Detection of Cancer. 2006 ,	21
636	Non-Invasive Monitoring of Diabetes. 2006 , 165-199	
635	Ultrasensitive detection and characterization of posttranslational modifications using surface-enhanced Raman spectroscopy. 2006 , 78, 3543-50	26
634	In vivo margin assessment during partial mastectomy breast surgery using raman spectroscopy. 2006 , 66, 3317-22	344
633	Raman microspectroscopy: a noninvasive tool for studies of individual living cells in vitro. 2006 , 3, 215-34	173
632	Coded aperture Raman spectroscopy for quantitative measurements of ethanol in a tissue phantom. 2006 , 60, 663-71	42

631	Fluorescence-suppressed Raman technique for quantitative analysis of protein solution using a micro-Raman probe, the shifted excitation method, and partial least squares regression analysis. 2006 , 60, 964-70	21
630	Biomedical applications of Raman and infrared spectroscopy to diagnose tissues. 2006 , 20, 195-218	147
629	Pathology by Infrared and Raman Spectroscopy. 2006 ,	1
628	Vibrational Spectroscopy Applications in Clinical Chemistry. 2006 ,	
627	Cellular Imaging. 2006 ,	0
626	In Vivo Near-Infrared Spectrometry. 2006 ,	0
625	Ultraviolet Raman Spectrometry. 2006 ,	0
624	Resonance Raman spectroscopy: a new technology for tissue oxygenation monitoring. 2006 , 34, 792-9	25
623	Metabolites, NonInvasive Optical Measurements of. 2006 ,	1
622	Spectroscopic investigation of the function of aqueous 2-hydroxyethylmethacrylate/glutaraldehyde solution as a dentin desensitizer. 2006 , 114, 354-9	58
621	Review paper: principles and applications of surface analytical techniques at the vascular interface. 2006 , 21, 5-32	23
620	Progress in Raman spectroscopy in the fields of tissue engineering, diagnostics and toxicological testing. 2006 , 17, 1019-23	50
619	Characterization of human breast epithelial cells by confocal Raman microspectroscopy. 2006 , 30, 515-22	84
618	Discrimination of normal, benign, and malignant breast tissues by Raman spectroscopy. 2006 , 83, 556-69	108
617	In vivo cytometry: a spectrum of possibilities. 2006 , 69, 142-6	32
616	Research of protective action of ischemic preconditioning on components of blood serum at a brain ischemia by Raman spectroscopy method. 2006 , 3, 401-405	17
615	In vivo Raman spectral pathology of human atherosclerosis and vulnerable plaque. 2006 , 11, 021003	106
614	Biochemical analysis of human breast tissues using Fourier-transform Raman spectroscopy. 2006 , 11, 054001	39

613	Raman microspectrometry of laser-reshaped rabbit auricular cartilage: preliminary study on laser-induced cartilage mineralization. 2006 , 11, 024003	10
612	Sensitivity map of laser tweezers Raman spectroscopy for single-cell analysis of colorectal cancer. 2007 , 12, 034002	31
611	Current diagnostic modalities for vulnerable plaque detection. 2007 , 13, 995-1001	60
610	Characterisation using Raman micro-spectroscopy. 2007 , 248-266	0
609	Classification of the degenerative grade of lesions of supraspinatus rotator cuff tendons by FT-Raman spectroscopy. 2007 , 6445, 149	1
608	Infrared laser photobiomodulation (lambda 830 nm) on bone tissue around dental implants: a Raman spectroscopy and scanning electronic microscopy study in rabbits. 2007 , 25, 96-101	80
607	Magnetically actuated scanning microlens for NIR Raman spectroscopy. 2007 ,	0
606	Identification of calcifications in cardiac valves by near infrared Raman spectroscopy. 2007 , 25, 287-90	10
605	Very efficient fluorescent background suppression in confocal Raman microscopy. 2007 ,	
604	Clinical applications of elastic-scattering spectroscopy beyond proof-of-principle: what really matters. 2007 ,	1
603	In vivo Raman Confocal Microspectroscopy of Skin. 193-221	
602	Preliminary study on Raman spectra of nasopharyngeal carcinoma in vitro. 2007 ,	
601	Raman spectra of pigmented skin conditions. 2007 ,	
600	New Tools for Life Science Research Based on Fiber-Optic-Linked Raman and Resonance Raman Spectroscopy. 2007 , 1-13	2
599	Preliminary identification of Beta-carotene in the vitreous asteroid bodies by micro-Raman spectroscopy and HPLC analysis. 2007 , 13, 128-32	13
598	Metabolic fingerprinting as a diagnostic tool. 2007 , 8, 1243-66	313
597	Optical manipulation and microfluidics for studies of single cell dynamics. 2007 , 9, S113-S121	44
596	In vivo Raman study of the living rat esophagus and stomach using a micro-Raman probe under an endoscope. 2007 , 61, 579-84	62

595	Automated autofluorescence background subtraction algorithm for biomedical Raman spectroscopy. 2007 , 61, 1225-32	532
594	Nontoxic and chemically stable hollow optical fiber probe for fourier transform infrared spectroscopy. 2007 , 61, 1334-7	8
593	Non-invasive glucose monitoring: assessment of technologies and devices according to quantitative criteria. 2007 , 77, 16-40	178
592	Raman Spectroscopy of Biological Tissues. 2007 , 42, 493-541	1223
591	Fluorescence suppression within Raman spectroscopy using annular beam excitation. 2007 , 91, 023903	12
590	Raman spectroscopy-based metabolomics for differentiating exposures to triazole fungicides using rat urine. 2007 , 79, 7324-32	21
589	Oxygenation monitoring of tissue vasculature by resonance Raman spectroscopy. 2007 , 79, 1514-8	28
588	Detection of the recombinant proteins in single transgenic microbial cell using laser tweezers and Raman spectroscopy. 2007 , 79, 9269-75	21
587	Classification of glucose concentration in diluted urine using the low-resolution Raman spectroscopy and kernel optimization methods. 2007 , 28, 583-93	16
586	Raman-based detection of bacteria using silver nanoparticles conjugated with antibodies. 2007 , 132, 679-86	100
585	Tumour metabolomics in animal models of human cancer. 2007 , 6, 498-505	99
584	Possible application of Raman microspectroscopy to verify the interstitial cystitis diagnosis after potassium sensitivity test: phenylalanine or tryptophan as a biomarker. 2007 , 23, 147-52	8
583	From Femtosecond Dynamics to Breast Cancer Diagnosis by Raman Spectroscopy. 2007 ,	
582	. 2007 ,	1
581	Vibrational spectroscopy studies of formalin-fixed cervix tissues. 2007 , 85, 214-21	28
580	Molecular processes and structural alterations in laser reshaping of cartilage. 2007 , 4, 749-753	21
579	Raman spectral signatures of mouse mammary tissue and associated lymph nodes: normal, tumor and mastitis. 2007 , 38, 127-134	23
578	Detection of bacteria aided by immuno-nanoparticles. 2007 , 38, 1383-1389	18

577	Rapid evaluation and discrimination of irradiated carbohydrates using FT-Raman spectroscopy and canonical discriminant analysis. 2007 , 87, 1244-1251	14
576	Non-resonance micro-Raman spectroscopic studies on crystalline domoic acid and its aqueous solutions. 2007 , 67, 1362-9	7
575	Illuminating the metastatic process. 2007 , 7, 737-49	456
574	Discrimination of normal and malignant stomach mucosal tissues by Raman spectroscopy: A pilot study. 2007 , 44, 382-387	19
573	Study of normal colorectal tissue by FT-Raman spectroscopy. 2007 , 387, 1643-8	76
572	FTIR and Raman microspectroscopy of normal, benign, and malignant formalin-fixed ovarian tissues. 2007 , 387, 1649-56	75
571	Methodology for fiber-optic Raman mapping and FTIR imaging of metastases in mouse brains. 2007 , 389, 1133-42	94
570	Raman spectroscopy and multivariate analysis of serum samples from breast cancer patients. 2007 , 22, 229-36	135
569	Plasmonic Enhancement of Fluorescence and Raman Scattering by Metal Nanotips. 2007 , 3, 203-211	7
568	Clinical optical diagnostics: Status and perspectives. 2008 , 23, 155-174	32
567	A new approach to measure melamine, cyanuric acid, and melamine cyanurate using surface enhanced Raman spectroscopy coupled with gold nanosubstrates. 2008 , 2, 66-71	108
566	Detecting single Bacillus spores by surface enhanced Raman spectroscopy. 2008 , 2, 247-253	26
565	Raman spectroscopic diagnosis of breast cancers: evaluation of models. 2008 , 39, 1276-1282	12
564	Cell (A549)-particle (Jasada Bhasma) interactions using Raman spectroscopy. 2008 , 89, 555-64	25
563	Breast cancer diagnostics by Raman spectroscopy. 2008 , 141, 145-148	44
562	Miniaturization of a Fresnel spectrometer. 2008 , 10, 095301	12
561	Plant metabolites and nutritional quality of vegetables. 2008 , 73, R48-65	167
560	Fourier Transform Infrared (FTIR) Spectroscopy of Biological Tissues. 2008 , 43, 134-179	905

559	Chemical characterization and classification of pollen. 2008 , 80, 9551-6	90
558	Noninvasive Raman spectroscopy in living mice for evaluation of tumor targeting with carbon nanotubes. 2008 , 8, 2800-5	243
557	Development and preliminary results of an endoscopic Raman probe for potential in vivo diagnosis of lung cancers. 2008 , 33, 711-3	149
556	The tendon-to-bone transition of the rotator cuff: a preliminary Raman spectroscopic study documenting the gradual mineralization across the insertion in rat tissue samples. 2008 , 62, 1285-94	105
555	Raman spectroscopy of breast tissues. 2008 , 8, 149-66	34
554	A novel method for human gender classification using Raman spectroscopy of fingernail clippings. 2008 , 133, 493-8	36
553	Noninvasive molecular imaging of small living subjects using Raman spectroscopy. 2008 , 105, 5844-9	525
552	Spectral analysis of multiplex Raman probe signatures. 2008 , 2, 2306-14	142
551	Fluorescence and reflectance spectroscopy for identification of atherosclerosis in human carotid arteries using principal components analysis. 2008 , 26, 329-35	5
550	The role of optical spectroscopy in epilepsy surgery in children. 2008 , 25, E24	9
549	Diagnosis of ovarian cancer by Raman spectroscopy: a pilot study. 2008 , 26, 83-90	30
548	DNA Extraction Systematics for Spectroscopic Studies. <i>Sensors</i> , 2008 , 8, 3624-3632	3.8 4
547	Bronchoscopy and Computer Technology. 2008 , 88-118	1
546	Quantitative analysis of skin chemicals using rapid near-infrared Raman spectroscopy. 2008 ,	1
545	Evaluation of pancreatic cancer with Raman spectroscopy in a mouse model. 2008 , 36, e1-8	13
544	Noninvasive glycaemia monitoring: background, traditional findings, and novelties in the recent clinical trials. 2008 , 11, 607-12	13
543	Combining Optical Coherence Tomography and Raman Spectroscopy for Investigating Dental and Other Mineralized Tissues. 263-290	1
542	. 2008 ,	55

541	High-throughput, multiplex aperture-coded Raman spectrometer for biomedical diagnostics. 2008,	
540	Human breast tissue cancer diagnosis by Raman spectroscopy. 2008, 22, 113-121	27
539	Analysis of the alteration in the optical configuration of Raman spectrometer: Optimization of signal-to-noise ratio (SNR) in a specific wavelength range of clinical interest. 2008, 22, 467-474	2
538	Introduction to Spectral Imaging, and Applications to Diagnosis of Lymph Nodes. 2008,	3
537	Determination of sucrose concentration in lemon-type soft drinks by dispersive Raman spectroscopy. 2009, 23, 217-226	11
536	Optimizing the Raman signal for characterizing organic samples: The effect of slit aperture and exposure time. 2009, 23, 71-80	13
535	A miniature confocal Raman probe for endoscopic use. <i>Physics in Medicine and Biology</i> , 2009, 54, 7077-873,8	74
534	A multimodal spectroscopy system for real-time disease diagnosis. 2009, 80, 043103	45
533	Use of dispersive Raman spectroscopy to detect the cytotoxic action of viscum album in adenocarcinoma of colon. 2009, 21, 163-168	3
532	Recent Developments in Less Invasive Technology to Monitor Blood Glucose Levels in Patients with Diabetes: Table 1. 2009, 40, 607-610	2
531	Plasmonic engineering of silver films for enhanced fluorescence and Raman scattering. 2009,	
530	Direct Raman imaging spectroscopy of lung cancer cells and apoptotic cells. 2009,	0
529	Technologies for localization and diagnosis of prostate cancer. 2009, 33, 585-603	15
528	Parameters defining the potential applicability of Raman spectroscopy as a diagnostic tool for oral disease. 2009, 14, 014016	41
527	Gold nanorods: from synthesis and properties to biological and biomedical applications. 2009, 21, 4880-4910	1473
526	Current status of vulnerable plaque detection. 2010, 75, 135-44	32
525	Direct analysis of clinical relevant single bacterial cells from cerebrospinal fluid during bacterial meningitis by means of micro-Raman spectroscopy. 2009, 2, 70-80	76
524	Optical coherence tomography and Raman spectroscopy of the ex-vivo retina. 2009, 2, 398-406	26

523	Multiclass discrimination of cervical precancers using Raman spectroscopy. 2009 , 40, 205-211	45
522	Comparison of connective tissue invaded by Lewis lung carcinoma to healthy connective tissue by means of micro-Raman spectroscopy. 2009 , 40, 1087-1090	5
521	Catheters: instrumental advancements in biomedical applications of optical fibers. 2009 , 24, 621-6	4
520	Broad spectral photonic crystal fiber surface enhanced Raman scattering probe. 2009 , 95, 751-755	15
519	Raman spectroscopy and advanced mathematical modelling in the discrimination of human thyroid cell lines. 2009 , 1, 38	33
518	The hallmarks of breast cancer by Raman spectroscopy. 2009 , 924-926, 175-182	43
517	ProRaman: a program to classify Raman spectra. 2009 , 134, 1203-7	4
516	Investigation of neuroprotective action of drug Bemax at ischemic insult by Raman spectroscopy method by estimation of damage of low density lipoprotein of rat blood. 2009 , 19, 2219-2223	14
515	Silver Surfaces with Optimized Surface Enhancement by Self-Assembly of Silver Nanoparticles for Spectroelectrochemical Applications. 2009 , 113, 17698-17704	10
514	Quantitative myelin imaging with coherent anti-Stokes Raman scattering microscopy: alleviating the excitation polarization dependence with circularly polarized laser beams. 2009 , 17, 18419-32	51
513	Differentiation of healthy brain tissue and tumors using surface-enhanced Raman scattering. 2009 , 63, 1095-100	47
512	Vibrational spectroscopy: a clinical tool for cancer diagnostics. 2009 , 134, 1029-45	226
511	Diagnosing breast cancer using Raman spectroscopy: prospective analysis. 2009 , 14, 054023	141
510	A Novel Opto-Mechanical System Coupled to a Spectrophotometer for Measuring Coatings on Small Size Substrates and Optical Fiber Filters. 2009 , 37, 544-556	
509	Dual-Axes Confocal Microlens for Raman Spectroscopy. 2009 ,	0
508	High-throughput vibrational cytometry based on nonlinear Raman microspectroscopy. 2010 ,	
507	How specific Raman spectroscopic models are: a comparative study between different cancers. 2010 ,	
506	Investigation of the influence of high-risk human papillomavirus on the biochemical composition of cervical cancer cells using vibrational spectroscopy. 2010 , 135, 3087-93	47

505	Inorganic nanomaterials for tumor angiogenesis imaging. 2010 , 37 Suppl 1, S147-63	38
504	Surface-enhanced Raman scattering: a new optical probe in molecular biophysics and biomedicine. 2010 , 125, 319-327	50
503	Multiplexed Five-Color Molecular Imaging of Cancer Cells and Tumor Tissues with Carbon Nanotube Raman Tags in the Near-Infrared. 2010 , 3, 222-233	118
502	Activation of nanoparticles by biosorption for E. coli detection in milk and apple juice. 2010 , 162, 460-75	16
501	Ex-CARS: exotic configuration for coherent anti-Stokes Raman scattering microspectroscopy utilizing two laser sources. 2010 , 3, 653-9	2
500	Light-Tissue Interaction at Optical Clearing. 2010 , 113-164	8
499	Probing nanostructures of bacterial extracellular polymeric substances versus culture time by Raman microspectroscopy and atomic force microscopy. 2010 , 93, 171-7	13
498	Raman-fluorescence hybrid microspectroscopy of cell nuclei. 2010 , 53, 12-18	13
497	Raman spectroscopy in head and neck cancer. 2010 , 2, 26	54
496	FT-Raman spectroscopy for the differentiation between cutaneous melanoma and pigmented nevus. 2010 , 25, 351-6	18
495	Differential diagnosis in primary and metastatic cutaneous melanoma by FT-Raman spectroscopy. 2010 , 25, 434-9	14
494	Discrimination analysis of human lung cancer cells associated with histological type and malignancy using Raman spectroscopy. 2010 , 15, 017009	81
493	Near-infrared Raman spectroscopy to detect anti-Toxoplasma gondii antibody in blood sera of domestic cats: quantitative analysis based on partial least-squares multivariate statistics. 2010 , 15, 047002	9
492	Discriminating normal and cancerous thyroid cell lines using implicit context representation Cartesian genetic programming. 2010 ,	6
491	Stimulated Raman photoacoustic imaging. 2010 , 107, 20335-9	52
490	DISCRETE WAVELET TRANSFORM FOR DENOISING RAMAN SPECTRA OF HUMAN SKIN TISSUES USED IN A DISCRIMINANT DIAGNOSTIC ALGORITHM. 2010 , 38, 268-282	12
489	Chapter 4:Raman Microscopy: Complement or Competitor?. 2010 , 105-143	14
488	Micro-Raman Spectroscopy and Univariate Correlation Analysis for Medical Diagnosis. 2010 ,	

487	Raman Spectroscopic Study of Muscles Related Disorders using <i>Drosophila Melanogaster</i> as a Model System. 2010 ,	
486	Molecular histopathology by spectrally reconstructed nonlinear interferometric vibrational imaging. 2010 , 70, 9562-9	38
485	Differentiating normal and basal cell carcinoma human skin tissues in vitro using dispersive Raman spectroscopy: a comparison between principal components analysis and simplified biochemical models. 2010 , 28 Suppl 1, S119-27	37
484	Nonlinear optical imaging and Raman microspectrometry of the cell nucleus throughout the cell cycle. 2010 , 99, 3483-91	76
483	Tissue optical immersion clearing. 2010 , 7, 825-42	146
482	Time-resolved Raman spectroscopy for in situ planetary mineralogy. 2010 , 49, 4951-62	32
481	In situ monitoring of adipogenesis with human-adipose-derived stem cells using surface-enhanced Raman spectroscopy. 2010 , 64, 1227-33	18
480	Phase-cycling coherent anti-Stokes Raman scattering using shaped femtosecond laser pulses. 2010 , 18, 25825-32	8
479	Raman spectroscopy for differential diagnosis of endophthalmitis and uveitis in rabbit iris in vitro. 2010 , 91, 362-8	6
478	Raman spectroscopy--a new method for the intra-operative assessment of axillary lymph nodes. 2010 , 135, 3042-7	51
477	Development of robust calibration models using support vector machines for spectroscopic monitoring of blood glucose. 2010 , 82, 9719-26	63
476	Characterization of bacteria using its O-antigen with surface-enhanced Raman scattering. 2010 , 135, 1997-2001	14
475	Exploiting the diagnostic potential of biomolecular fingerprinting with vibrational spectroscopy. 2011 , 149, 279-90; discussion 333-56	27
474	Noninvasive diagnosis of mucopolysaccharidosis via depth-resolved optical spectroscopy of the outer ear. 2011 , 2, 2741-8	2
473	Full range characterization of the Raman spectra of organs in a murine model. 2011 , 19, 22892-909	81
472	Gold nanoparticles: a revival in precious metal administration to patients. 2011 , 11, 4029-36	358
471	Effect of different doses of creatine on the bone in thirty days of supplementation in mice: FT-Raman study. 2011 , 25, 225-233	2
470	Development of spectral markers for the discrimination of ulcerative colitis and Crohn's disease using Raman spectroscopy. 2011 , 54, 48-53	30

469	Using laser Raman spectroscopy to reduce false positives of autofluorescence bronchoscopies: a pilot study. 2011 , 6, 1206-14	66
468	Towards a point-of-care test for active tuberculosis: obstacles and opportunities. 2011 , 9, 204-13	152
467	Classification model based on Raman spectra of selected morphological and biochemical tissue constituents for identification of atherosclerosis in human coronary arteries. 2011 , 26, 645-55	19
466	A Rheumatoid arthritis study using Raman spectroscopy. 2011 , 130, 1211-1220	12
465	High-wavenumber FT-Raman spectroscopy for in vivo and ex vivo measurements of breast cancer. 2011 , 130, 1231-1238	33
464	In vitro analysis of immersed human tissues by Raman microspectroscopy. 2011 , 42, 888-896	49
463	Nanoplatfoms for Raman Molecular Imaging in Biological Systems. 2011 , 197-216	2
462	Raman spectroscopy: a potential tool for early objective diagnosis of neoplasia in the oesophagus. 2011 , 4, 685-95	38
461	Characterization of renal tumours based on Raman spectra classification. 2011 , 38, 14301-14301	6
460	Visible micro-Raman spectroscopy for determining glucose content in beverage industry. 2011 , 127, 735-42	40
459	Raman and SERS recognition of β -carotene and haemoglobin fingerprints in human whole blood. 2011 , 79, 915-9	56
458	The high-quality spectral fingerprint of glucose captured by Raman spectroscopy in non-invasive glucose measurement. 2011 ,	0
457	Effects of different swimming exercise intensities on bone tissue composition in mice: a Raman spectroscopy study. 2011 , 29, 217-25	8
456	Wavelength selection-based nonlinear calibration for transcutaneous blood glucose sensing using Raman spectroscopy. 2011 , 16, 087009	38
455	Discriminating adenocarcinoma from normal colonic mucosa through deconvolution of Raman spectra. 2011 , 16, 127001	12
454	Comparative evaluation of spectroscopic models using different multivariate statistical tools in a multicancer scenario. 2011 , 16, 025003	43
453	The fate and toxicity of Raman-active silica-gold nanoparticles in mice. 2011 , 3, 79ra33	128
452	Infrared and Raman Microscopy and Imaging of Biomaterials. 2011 , 365-378	

451	Micro-Raman spectroscopy and univariate analysis for monitoring disease follow-up. <i>Sensors</i> , 2011 , 11, 8309-22	3.8	15
450	Tissue refractive index as marker of disease. 2011 , 16, 116017		167
449	Raman spectroscopy of oral buccal mucosa: a study on age-related physiological changes and tobacco-related pathological changes. 2012 , 11, 529-41		27
448	Optical Spectroscopy of Biological Cells. 2012 , 4, 322		17
447	Diagnosing basal cell carcinoma in vivo by near-infrared Raman spectroscopy: a Principal Components Analysis discrimination algorithm. 2012 ,		2
446	Multispectral optical tweezers for molecular diagnostics of single biological cells. 2012 ,		5
445	Discrimination of basal cell carcinoma and melanoma from normal skin biopsies in vitro through Raman spectroscopy and principal component analysis. 2012 , 30, 381-7		49
444	Phosphorylation detection and characterization in ribonucleotides using Raman and Raman optical activity (ROA) spectroscopies. 2012 , 66, 289-93		5
443	Noise and artifact characterization of in vivo Raman spectroscopy skin measurements. 2012 , 66, 650-5		16
442	Non-invasive methods of glucose measurement: current status and future perspectives. 2012 , 8, 48-54		44
441	Recent advances in noninvasive glucose monitoring. 2012 , 5, 45-52		47
440	Understanding the molecular information contained in principal component analysis of vibrational spectra of biological systems. 2012 , 137, 322-32		141
439	Vibrational spectroscopic imaging and multiphoton microscopy of spinal cord injury. 2012 , 84, 8707-14		44
438	Monitoring enzymatic degradation of pericellular matrices through SERS stamping. 2012 , 4, 3917-25		10
437	Diagnostic applications of Raman spectroscopy. 2012 , 8, 545-58		143
436	A review of imaging methods for measuring drug release at nanometre scale: a case for drug delivery systems. 2012 , 9, 203-18		13
435	Optical spectroscopy: current advances and future applications in cancer diagnostics and therapy. 2012 , 8, 307-20		65
434	Raman spectroscopy--a potential new method for the intra-operative assessment of axillary lymph nodes. 2012 , 10, 123-7		34

433	Surface-enhanced Raman scattering of whole human blood, blood plasma, and red blood cells: cellular processes and bioanalytical sensing. 2012 , 116, 9376-86		153
432	Confocal Raman microspectroscopy for skin characterization: a comparative study between human skin and pig skin. 2012 , 137, 3673-82		55
431	Discriminating model for diagnosis of basal cell carcinoma and melanoma in vitro based on the Raman spectra of selected biochemicals. 2012 , 17, 077003		53
430	Raman microspectroscopy for species identification and mapping within bacterial biofilms. 2012 , 2, 35		20
429	Mapping of redox state of mitochondrial cytochromes in live cardiomyocytes using Raman microspectroscopy. <i>PLoS ONE</i> , 2012 , 7, e41990	3-7	64
428	Quantitative Evaluation of Acetaminophen in Oral Solutions by Dispersive Raman Spectroscopy for Quality Control. 2012 , 27, 215-228		2
427	Investigation of Preeclampsia Using Raman Spectroscopy. 2012 , 27, 239-252		16
426	Raman Labeled Nanoparticles: Characterization of Variability and Improved Method for Unmixing. 2012 , 43, 895-905		6
425	Detection of polymorphism in the methylenetetrahydrofolate reductase gene by Raman spectroscopy. 2012 , 43, 1083-1088		2
424	Measurement of diabetic sugar concentration in human blood using Raman spectroscopy. 2012 , 22, 1090-1094	18	
423	Metabolomics in the fields of oncology: a review of recent research. 2012 , 39, 7505-11		25
422	Differentiation of HaCaT cell and melanocyte from their malignant counterparts using micro-Raman spectroscopy guided by confocal imaging. 2012 , 28, 147-52		12
421	Differential diagnosis between experimental endophthalmitis and uveitis in vitreous with Raman spectroscopy and principal components analysis. 2012 , 107, 73-8		8
420	Analysis of human skin tissue by Raman microspectroscopy: Dealing with the background. 2012 , 61, 124-132		52
419	Dengue blood analysis by Raman spectroscopy. 2012 , 22, 1085-1089		21
418	Influence of creatine supplementation on bone quality in the ovariectomized rat model: an FT-Raman spectroscopy study. 2012 , 27, 487-95		19
417	Raman micro-spectroscopy: a powerful tool for the monitoring of dynamic supramolecular changes in living cells. 2013 , 182, 58-63		24
416	Histochemical and Microprobe Analysis in Medical Geology. 2013 , 717-726		

415	Fast preparation of nano-hydroxyapatite/superhydrophilic reduced graphene oxide composites for bioactive applications. 2013 , 1, 4947-4955		50
414	Fiber optic probes for linear and nonlinear Raman applications [Current trends and future development. 2013 , 7, 698-731		58
413	Detection of Alzheimer's disease by Raman spectra of rat's platelet with a simple feature selection. 2013 , 121, 52-56		11
412	Discriminating neoplastic and normal brain tissues in vitro through Raman spectroscopy: a principal components analysis classification model. 2013 , 31, 595-604		25
411	274)128 time-gated CMOS single photon avalanche diode line detector with 100 ps resolution for Raman spectroscopy. 2013 ,		4
410	Detection and monitoring of neurotransmitters--a spectroscopic analysis. 2013 , 16, 192-9; discussion 198-9		7
409	Effect of ultrasound irradiation on the production of nHAp/MWCNT nanocomposites. 2013 , 33, 4305-12		37
408	Effects of cations and anions as aggregating agents on SERS detection of cotinine (COT) and trans-3'-hydroxycotinine (3HC). 2013 , 410, 74-80		22
407	Detection and identification of cancerous murine fibroblasts, transformed by murine sarcoma virus in culture, using Raman spectroscopy and advanced statistical methods. 2013 , 1830, 2720-7		21
406	Tuning SERS for living erythrocytes: Focus on nanoparticle size and plasmon resonance position. 2013 , 44, 686-694		33
405	Depth profiling of PLGA copolymer in a novel biomedical bilayer using confocal Raman spectroscopy. 2013 , 29, 5905-10		4
404	Raman imaging in biochemical and biomedical applications. Diagnosis and treatment of breast cancer. 2013 , 113, 5766-81		173
403	Advances in the clinical application of Raman spectroscopy for cancer diagnostics. <i>Photodiagnosis and Photodynamic Therapy</i> , 2013 , 10, 207-19	3,5	119
402	Light Scattering Spectroscopy: From Elastic to Inelastic. 2013 , 437-486		2
401	Label-free analysis of cellular biochemistry by Raman spectroscopy and microscopy. 2013 , 3, 941-56		11
400	Inhibition of calcification of bovine pericardium after treatment with biopolymers, E-beam irradiation and in vitro endothelialization. 2013 , 33, 85-90		9
399	Resonance Raman and Raman spectroscopy for breast cancer detection. 2013 , 12, 371-82		68
398	Biomolecular component analysis of cultured cell nucleoli by Raman microspectrometry. 2013 , 44, 198-204		20

397	In situ-monitoring of biofilm formation by using surface-enhanced Raman scattering. 2013 , 67, 498-505	24
396	Optical spectroscopy methods to probe key spectral fingerprints of animal bone. 2013 ,	
395	Fluorescence suppression in Raman spectroscopy using a time-gated CMOS SPAD. 2013 , 21, 31632-45	87
394	Sustainable analytical chemistry—more than just being green. 2013 , 85, 2217-2229	43
393	A time-gated 4x28 SPAD array with a 512 channel flash 80 ps-TDC for pulsed Raman spectroscopy. 2013 ,	
392	Detection and Monitoring of Microparticles Under Skin by Optical Coherence Tomography as an Approach to Continuous Glucose Sensing Using Implanted Retroreflectors. 2013 , 13, 4534-4541	12
391	Transmittance analysis in coded aperture compressive Raman spectroscopy imaging. 2013 ,	
390	Sensing Glucose and Other Metabolites in Skin. 2013 , 835	
389	A subcutaneous Raman needle probe. 2013 , 67, 349-54	47
388	Assessing variability of in vivo tissue Raman spectra. 2013 , 67, 789-800	13
387	Could near-infrared Raman spectroscopy be correlated with the METAVIR scores in liver lesions induced by hepatitis C virus?. 2013 ,	2
386	Study of Cancer Cell Lines with Fourier Transform Infrared (FTIR)/ Vibrational Absorption (VA) Spectroscopy. 2013 , 3, 36-43	4
385	Raman microspectroscopy analysis in the treatment of acanthamoeba keratitis. <i>PLoS ONE</i> , 2013 , 8, e72137	22
384	Surface enhanced Raman spectroscopy in breast cancer cells. 2013 , 22, 37-42	25
383	In situ detection of antibiotic amphotericin B produced in <i>Streptomyces nodosus</i> using Raman microspectroscopy. 2014 , 12, 2827-39	20
382	Molecular Endospectroscopic Approaches. 2014 , 179-214	0
381	Raman Scattering Surface Signal Enhancement: Induced by Au@SiO ₂ core-shell nanoclusters and nanorods.. 2014 , 8, 29-36	
380	A TDC-based 4x28 CMOS SPAD array for time-gated Raman spectroscopy. 2014 ,	1

- 379 Specific capture of target bacteria onto sensor surfaces for infectious disease diagnosis. **2014**, 24, 045009 2
- 378 Sensitivity of coded aperture Raman spectroscopy to analytes beneath turbid biological tissue and tissue-simulating phantoms. **2014**, 19, 117001 7
- 377 Multidimensional tissue fingerprint. **2014**,
- 376 Double antiresonant hollow core fiber--guidance in the deep ultraviolet by modified tunneling leaky modes. **2014**, 22, 19131-40 46
- 375 Raman spectroscopic evidence of tissue restructuring in heat-induced tissue fusion. **2014**, 7, 713-23 7
- 374 Vision 20/20: the role of Raman spectroscopy in early stage cancer detection and feasibility for application in radiation therapy response assessment. **2014**, 41, 050901 31
- 373 Multimodal diagnosis and visualisation of oncologic pathologies. **2014**, 44, 726-731 3
- 372 Surface-enhanced Raman spectral biomarkers correlate with Ankle Brachial Index and characterize leg muscle biochemical composition of patients with peripheral arterial disease. **2014**, 2, e12148 7
- 371 Quality of bone healing: perspectives and assessment techniques. **2014**, 22 Suppl 1, 39-49 5
- 370 Identification and characterization of colorectal cancer using Raman spectroscopy and feature selection techniques. **2014**, 22, 25895-908 50
- 369 Combined fluorescence-Raman spectroscopic setup for the diagnosis of melanocytic lesions. **2014**, 7, 86-95 28
- 368 A 256 B SPAD line sensor for time resolved fluorescence and raman sensing. **2014**, 2
- 367 Two-step Raman spectroscopy method for tumor diagnosis. **2014**, 1
- 366 Endoscopy-coupled Raman spectroscopy for in vivo discrimination of inflammatory bowel disease. **2014**, 5
- 365 Vibrational Spectroscopy: Disease Diagnostics and Beyond. **2014**, 355-399 7
- 364 Multimodal Nano-Systems for Cancer Diagnosis, Imaging, and Therapy. **2014**, 351-388
- 363 Assessment of tumor cells in a mouse model of diffuse infiltrative glioma by Raman spectroscopy. **2014**, 2014, 860241 17
- 362 Effects of low-power LED and therapeutic ultrasound in the tissue healing and inflammation in a tendinitis experimental model in rats. **2014**, 29, 301-11 14

361	Raman study of the repair of surgical bone defects grafted with biphasic synthetic microgranular HA + β -calcium triphosphate and irradiated or not with 780 nm laser. 2014 , 29, 1539-50	18
360	Monitoring of chemotherapy leukemia treatment using Raman spectroscopy and principal component analysis. 2014 , 29, 1241-9	32
359	Interval-Principal Component Analysis of Raman spectra of single cells exposed to X-ray radiation. 2014 ,	0
358	. 2014 , 20, 409-426	64
357	Are metabolites of <i>Fusarium oxysporum</i> responsible for fungal skin invasion? A morphological and Raman spectroscopy monitoring. 2014 , 45, 873-878	5
356	Improved Savitzky-Golay-method-based fluorescence subtraction algorithm for rapid recovery of Raman spectra. 2014 , 53, 5559-69	27
355	Bright emission from a random Raman laser. 2014 , 5, 4356	73
354	Single-shot stand-off chemical identification of powders using random Raman lasing. 2014 , 111, 12320-4	51
353	Discrimination of prostate carcinoma from benign prostate tissue fragments in vitro by estimating the gross biochemical alterations through Raman spectroscopy. 2014 , 29, 1469-77	8
352	Do laser/LED phototherapies influence the outcome of the repair of surgical bone defects grafted with biphasic synthetic microgranular HA + β -calcium phosphate? A Raman spectroscopy study. 2014 , 29, 1575-84	11
351	Modification of a Silver Substrate for Advanced Spectro-Electrochemical Applications of SERR Spectroscopy. 2014 , 9, 1031-1037	
350	Raman Spectroscopy in Medicine. 2014 , 129-141	4
349	Raman spectroscopy enables noninvasive biochemical characterization and identification of the stage of healing of a wound. 2014 , 86, 3764-72	28
348	A simple method for evaluation of optical scattering effect on the Raman signal of a sample beneath an Intralipid layer. 2014 , 74, 132-136	1
347	Utilising non-consensus pathology measurements to improve the diagnosis of oesophageal cancer using a Raman spectroscopic probe. 2014 , 139, 381-8	16
346	Tissue oxygenation monitoring using resonance Raman spectroscopy during hemorrhage. 2014 , 76, 402-8	16
345	Raman and histological study of the repair of surgical bone defects grafted with biphasic synthetic micro-granular HA + β -calcium triphosphate and irradiated or not with 780 nm laser. 2014 ,	
344	Light-tissue Interactions. 2014 , 123-168	1

343	A Schizophotonic All-In-One Nanoparticle Coating for Multiplexed SE(R)RS Biomedical Imaging. 2014 , 126, 11950-11955	4
342	A "schizophotonic" all-in-one nanoparticle coating for multiplexed SE(R)RS biomedical imaging. 2014 , 53, 11756-61	35
341	Spectral Raman unmixing from CASSI system compressive measurements. 2015 ,	0
340	Ex vivo peripheral nerve detection of rats by spontaneous Raman spectroscopy. 2015 , 5, 17165	19
339	Experimental infection of king crab hemocytes with a herpes-like virus in culture. 2015 , 41, 401-404	
338	Light Propagation in Highly Scattering Turbid Media: Concepts, Techniques, and Biomedical Applications. 2015 , 367-412	4
337	Implementation of a novel low-noise InGaAs detector enabling rapid near-infrared multichannel Raman spectroscopy of pigmented biological samples. 2015 , 46, 652-660	11
336	Quantitative evaluation of the mineralization level of dental tissues by Raman spectroscopy. 2015 , 1, 045204	11
335	. 2015 ,	9
334	Advances in the in Vivo Raman Spectroscopy of Malignant Skin Tumors Using Portable Instrumentation. 2015 , 16, 14554-70	41
333	Endoscopic Raman Spectroscopy for Molecular Fingerprinting of Gastric Cancer: Principle to Implementation. 2015 , 2015, 670121	9
332	Detecting alterations of glucose and lipid components in human serum by near-infrared Raman spectroscopy. 2015 , 31, 160-168	21
331	Raman microspectroscopy of nanodiamond-induced structural changes in albumin. 2015 , 20, 047004	5
330	Vascular diseases investigated ex vivo by using Raman, FT-IR and complementary methods. 2015 , 67, 744-50	9
329	Real-time biochemical sensor based on Raman scattering with CMOS contact imaging. 2015 , 2015, 7950-3	
328	Multiscale Characterization of Biological Systems. 2015 ,	1
327	A $2 \times (4) \times 128$ Multitime-Gated SPAD Line Detector for Pulsed Raman Spectroscopy. 2015 , 15, 1358-1365	24
326	Characterisation of a fibre optic Raman probe within a hypodermic needle. 2015 , 407, 8311-20	24

325	A wirelessly powered microspectrometer for neural probe-pin device. 2015,		
324	Spectroscopic Experiments: A Review of Raman Spectroscopy of Biological Systems. 2015, 5-20		1
323	Spatially offset Raman microspectroscopy of highly scattering tissue: theory and experiment. 2015, 62, 97-101		16
322	Review of Fluorescence Suppression Techniques in Raman Spectroscopy. 2015, 50, 387-406		117
321	Prospects and limitations of non-invasive blood glucose monitoring using near-infrared spectroscopy. 2015, 18, 214-227		165
320	Characterization of Breast Cancer Tissue From a Rat Model With and Without Cancer: The Use of Raman Spectroscopy. 2015, 48, 393-402		
319	Discrimination of non-melanoma skin lesions from non-tumor human skin tissues in vivo using Raman spectroscopy and multivariate statistics. <i>Lasers in Surgery and Medicine</i> , 2015, 47, 6-16	3.6	24
318	In vitro effects of hydrogen peroxide combined with different activators for the in-office bleaching technique on enamel. 2015, 73, 516-21		8
317	Constrained regularization for noninvasive glucose sensing using Raman spectroscopy. 2015, 08, 1550022		3
316	In vitro analysis of riboflavin-modified, experimental, two-step etch-and-rinse dentin adhesive: Fourier transform infrared spectroscopy and micro-Raman studies. 2015, 7, 110-24		27
315	Could the bone mineral density (T-score) be correlated with the Raman spectral features of keratin from women's nails and be used to predict osteoporosis?. 2015, 30, 287-94		4
314	Raman spectroscopy for the discrimination of cancerous and normal skin. 2015, 4,		6
313	Assessing the biochemical changes of tendons of rats in an experimental model of tenotomy under therapeutic ultrasound and LEDs (625 and 945nm) by near-infrared Raman spectroscopy. 2015, 30, 1729-38		8
312	A 4 × 28 SPAD array with a 78-ps 512-channel TDC for time-gated pulsed Raman spectroscopy. 2015, 84, 353-362		14
311	Automation of a Dispersive Raman Spectrometer Using LabVIEW Aiming In Vivo Diagnosis of Skin Cancer. <i>IFMBE Proceedings</i> , 2015, 1305-1308	0.2	
310	Extracting biomarkers of commitment to cancer development: potential role of vibrational spectroscopy in systems biology. 2015, 15, 693-713		15
309	Point of care optical diagnostic technologies for the detection of oral and oropharyngeal squamous cell carcinoma. 2015, 13, 321-9		16
308	Calcium Pyrophosphate Dihydrate Deposition Disease. 2015, 373-392		

307	A compact Raman converter for UV-VIS spectrometers. 2015 , 86, 055107	2
306	A herpes-like virus in king crabs: Characterization and transmission under laboratory conditions. 2015 , 127, 21-31	11
305	Correlation between METAVIR scores and Raman spectroscopy in liver lesions induced by hepatitis C virus: a preliminary study. 2015 , 30, 1347-55	4
304	Current concepts and future of noninvasive procedures for diagnosing oral squamous cell carcinoma--a systematic review. 2015 , 11, 6	38
303	Effect of low-level laser therapy in an experimental model of osteoarthritis in rats evaluated through Raman spectroscopy. 2015 , 33, 145-53	12
302	Overview about the localization of nanoparticles in tissue and cellular context by different imaging techniques. 2015 , 6, 263-80	65
301	Visible micro-Raman spectroscopy of single human mammary epithelial cells exposed to x-ray radiation. 2015 , 20, 035003	22
300	Gold nanoparticles as a substrate in bio-analytical near-infrared surface-enhanced Raman spectroscopy. 2015 , 140, 3090-7	27
299	Optical properties and surface-enhanced Raman scattering activity of hexagonally arranged gold nanoparticle trimers. 2015 , 638, 253-257	2
298	Tailoring Adjuvant Radiation Therapy by Intraoperative Imaging to Detect Residual Cancer. 2015 , 25, 313-21	4
297	An Analysis and Design of Photonic Crystal-Based Biochip for Detection of Glycosuria. 2015 , 15, 5569-5575	16
296	Fast photoacoustic-guided depth-resolved Raman spectroscopy: a feasibility study. 2015 , 40, 3568-71	17
295	Pilot study: Raman spectroscopy in differentiating premalignant and malignant oral lesions from normal mucosa and benign lesions in humans. 2015 , 37, 511-7	60
294	Raman spectroscopy for a rapid diagnosis of sickle cell disease in human blood samples: a preliminary study. 2015 , 30, 247-53	17
293	Investigating the effects of Pentoxifylline on human breast cancer cells using Raman spectroscopy. 2015 , 08, 1550004	11
292	Raman Spectroscopy of Biological Tissues. 2015 , 50, 46-111	331
291	Real-time in vivo cancer diagnosis using Raman spectroscopy. 2015 , 8, 527-45	88
290	Remote Raman measurements of minerals, organics, and inorganics at 430 m range. 2016 , 55, 10283-10289	24

289	Snapshot depth sensitive Raman spectroscopy in layered tissues. 2016 , 24, 28312-28325	8
288	Estimating the concentration of urea and creatinine in the human serum of normal and dialysis patients through Raman spectroscopy. 2016 , 31, 1415-23	14
287	Visible wavelength surface-enhanced Raman spectroscopy from In-InP nanopillars for biomolecule detection. 2016 , 109, 253105	5
286	Raman Imaging Spectroscopy as a Tool To Investigate the Cell Damage on <i>Aspergillus ochraceus</i> Caused by an Antimicrobial Packaging Containing Benzyl Isothiocyanate. 2016 , 88, 4772-9	15
285	Towards the intra-operative use of Raman spectroscopy in breast cancer-overcoming the effects of theatre lighting. 2016 , 31, 1143-9	7
284	Raman Spectroscopy Analysis of the Biochemical Characteristics of Experimental Keratomycosis. 2016 , 41, 1408-1413	4
283	Properties of ordered titanium templates covered with Au thin films for SERS applications. 2016 , 388, 716-722	14
282	Wavefront shaping enhanced Raman scattering in a turbid medium. 2016 , 41, 1769-72	29
281	Microfluidic device for continuous single cells analysis via Raman spectroscopy enhanced by integrated plasmonic nanodimers. 2016 , 24, A180-90	33
280	In vivo Raman measurement of levofloxacin lactate in blood using a nanoparticle-coated optical fiber probe. 2016 , 7, 810-5	5
279	Novel imaging tools for investigating the role of immune signalling in the brain. 2016 , 58, 40-47	11
278	Bone quality assessment techniques: geometric, compositional, and mechanical characterization from macroscale to nanoscale. 2016 , 14, 133-149	36
277	Fluorescence Spectroscopy. 2016 , 237-252	
276	Assessment of conjunctival microvilli abnormality by micro-Raman analysis - by G. Rusciano et al. 2016 , 9, 551-9	5
275	Raman spectroscopy in forensic analysis: identification of cocaine and other illegal drugs of abuse. 2016 , 47, 28-38	95
274	Evaluation of catheter-induced tribological damage to porcine aorta using infra-red spectroscopy. 2016 , 7, 11-21	4
273	Recent advances in optical diagnosis of oral cancers: Review and future perspectives. 2016 , 38 Suppl 1, E2403-11	22
272	Applications of Raman spectroscopy in dentistry part II: Soft tissue analysis. 2016 , 51, 799-821	2

271	Inflammation-related alterations of lipids after spinal cord injury revealed by Raman spectroscopy. 2016 , 21, 61008	8
270	Distinguishing Cancerous Liver Cells Using Surface-Enhanced Raman Spectroscopy. 2016 , 15, 36-43	8
269	Noninvasive Detection of Inflammatory Changes in White Adipose Tissue by Label-Free Raman Spectroscopy. 2016 , 88, 2140-8	12
268	Clinical instrumentation and applications of Raman spectroscopy. 2016 , 45, 1958-79	184
267	Biochemical changes on the repair of surgical bone defects grafted with biphasic synthetic micro-granular HA + β -tricalcium phosphate induced by laser and LED phototherapies assessed by Raman spectroscopy. 2016 ,	
266	Miniaturized time-resolved Raman spectrometer for planetary science based on a fast single photon avalanche diode detector array. 2016 , 55, 739-48	30
265	Quantifying creatinine and urea in human urine through Raman spectroscopy aiming at diagnosis of kidney disease. 2016 , 21, 37001	48
264	Characterization of an ultraviolet irradiation chamber to monitor molecular photodegradation by Raman spectroscopy. 2016 , 44, 189-198	2
263	Characterization of nutritional parameters in bovine milk by Raman spectroscopy with least squares modeling. 2016 , 44, 85-97	12
262	Combined Raman and autofluorescence ex vivo diagnostics of skin cancer in near-infrared and visible regions. 2017 , 22, 27005	33
261	Differences and Relationships Between Normal and Atypical Ductal Hyperplasia, Ductal Carcinoma In Situ, and Invasive Ductal Carcinoma Tissues in the Breast Based on Raman Spectroscopy. 2017 , 71, 300-307	11
260	Noninvasive monitoring of blood glucose concentration in diabetic patients with optical coherence tomography. 2017 , 14, 035603	16
259	Analysis of disulphide bonds found in human hair by Raman spectroscopy. 2017 ,	
258	Direct Measurement of Tissue Oxygenation in Neonates via Resonance Raman Spectroscopy: A Pilot Study. 2017 , 112, 137-142	1
257	Quantifying glucose and lipid components in human serum by Raman spectroscopy and multivariate statistics. 2017 , 32, 787-795	27
256	Characterization of the Timing Homogeneity in a CMOS SPAD Array Designed for Time-Gated Raman Spectroscopy. 2017 , 66, 1837-1844	14
255	Biochemical changes on the repair of surgical bone defects grafted with biphasic synthetic micro-granular HA + β -tricalcium phosphate induced by laser and LED phototherapies and assessed by Raman spectroscopy. 2017 , 32, 663-672	13
254	Laser and LED phototherapy on midpalatal suture after rapid maxilla expansion: Raman and histological analysis. 2017 , 32, 263-274	15

253	On the effects of the time gate position and width on the signal-to-noise ratio for detection of Raman spectrum in a time-gated CMOS single-photon avalanche diode based sensor. 2017 , 241, 1145-1152	13
252	Raman spectroscopy applied to identify metabolites in urine of physically active subjects. 2017 , 176, 92-99	17
251	Analyzing normal proliferating, hypoxic and necrotic regions of T-47D human breast cancer spheroids using Raman spectroscopy. 2017 , 52, 909-924	11
250	In vivo Raman spectroscopy-assisted early identification of potential second primary/recurrences in oral cancers: An exploratory study. 2017 , 39, 2216-2223	20
249	Effects of the inhomogeneity of the time resolving CMOS single-photon avalanche diode array on time-gated Raman spectroscopy. 2017 ,	1
248	Discrimination model applied to urinalysis of patients with diabetes and hypertension aiming at diagnosis of chronic kidney disease by Raman spectroscopy. 2017 , 32, 1605-1613	9
247	In vivo Raman spectral analysis of impaired cervical remodeling in a mouse model of delayed parturition. 2017 , 7, 6835	18
246	Multimodal fiber-probe spectroscopy as a clinical tool for diagnosing and classifying biological tissues. 2017 ,	
245	Proof-of-concept Raman spectroscopy study aimed to differentiate thyroid follicular patterned lesions. 2017 , 7, 14970	12
244	Raman spectroscopy, electronic microscopy and SPME-GC-MS to elucidate the mode of action of a new antimicrobial food packaging material. 2017 , 409, 1037-1048	9
243	High wavenumber Raman spectroscopy in the characterization of urinary metabolites of normal subjects, oral premalignant and malignant patients. 2017 , 171, 52-59	14
242	Advances in Fourier transform infrared (FTIR) spectroscopy of biological tissues. 2017 , 52, 456-506	206
241	Near-Infrared Spectroscopy (NIRS): A Novel Tool for Intravascular Coronary Imaging. 2017 ,	1
240	Negative curvature fibers. 2017 , 9, 504	135
239	Raman spectroscopy: techniques and applications in the life sciences. 2017 , 9, 315	121
238	pH sensing through a single optical fibre using SERS and CMOS SPAD line arrays. 2017 , 25, 30976-30986	17
237	Ramanomics: New Omics Disciplines Using Micro Raman Spectrometry with Biomolecular Component Analysis for Molecular Profiling of Biological Structures. 2017 , 7,	17
236	3.23 Infrared and Raman Microscopy and Imaging of Biomaterials at the Micro and Nano Scale. 2017 , 498-518	

- 235 Quantitative response of OH/CH Raman bands in diseased soft tissue: First results. **2017**,
- 234 New advances in analytic and diagnostic technologies based on Raman spectroscopy. **2017**,
- 233 Surface-Enhanced Raman Scattering for Rapid Detection and Characterization of Antibiotic-Resistant Bacteria. **2018**, 7, e1701335 52
- 232 Laser/LED phototherapy on the repair of tibial fracture treated with wire osteosynthesis evaluated by Raman spectroscopy. **2018**, 33, 1657-1666 7
- 231 Simultaneous isolation and detection of single breast cancer cells using surface-enhanced Raman spectroscopy. **2018**, 186, 44-52 13
- 230 Laser stimulating ST36 with optical fiber induce blood component changes in mice: a Raman spectroscopy study. **2018**, 11, e201700262 2
- 229 A new method using Raman spectroscopy for in vivo targeted brain cancer tissue biopsy. **2018**, 8, 1792 92
- 228 Tumor-specific disintegratable nanohybrids containing ultrasmall inorganic nanoparticles: from design and improved properties to cancer applications. **2018**, 5, 184-205 53
- 227 Measurement and Thermal Dependence of Biological Tissue Optical Properties. **2018**, 355-378 3
- 226 In vivo Raman spectroscopy of breast tumors prephotodynamic and postphotodynamic therapy. **2018**, 49, 786-791 13
- 225 A 16×256 SPAD Line Detector With a 50-ps, 3-bit, 256-Channel Time-to-Digital Converter for Raman Spectroscopy. **2018**, 18, 3789-3798 25
- 224 Gold nanoparticles in cardiovascular imaging. **2018**, 10, e1470 23
- 223 Encapsulation of living bacteria in electrospun cyclodextrin ultrathin fibers for bioremediation of heavy metals and reactive dye from wastewater. **2018**, 161, 169-176 57
- 222 Identification and quantification of β -caryophyllene in copaiba oil using Raman spectroscopy. **2018**, 46, 265-276 2
- 221 Clinical and radiographic periodontal parameters and release of collagen degradation biomarkers in naswar dippers. **2018**, 53, 123-130 14
- 220 Levenberg-Marquardt-Based Non-Invasive Blood Glucose Measurement System. **2018**, 64, 116-123 6
- 219 Combination of Histopathology and FT-Raman Spectroscopy for the Study of Experimental Paracoccidiodomycosis in the Spleen. **2018**, 94, 88-94 2
- 218 Early Lung Cancer Detection. **2018**, 39, 45-55 34

217	Potential Application of Raman Spectroscopy for Real-time Diagnosis and Classification of Colorectal Cancer. 2018 , 30, 381-389	1
216	A Fast Fluorescence Background Suppression Method for Raman Spectroscopy Based on Stepwise Spectral Reconstruction. 2018 , 6, 67709-67717	8
215	. 2018 , 10, 1-12	28
214	Algorithm Expands Capabilities of Raman Microscope for Single Organelles Assessment. 2018 , 8,	10
213	Influence of Incident Wavelength and Detector Material Selection on Fluorescence in the Application of Raman Spectroscopy to a Fungal Fermentation Process. 2018 , 5,	4
212	Characterization and Differentiation of Adipose Tissue by Spectroscopic and Spectral Imaging Techniques. 2018 ,	3
211	Multivariate Method Based on Raman Spectroscopy for Quantification of Dipyrone in Oral Solutions. 2018 , 2018, 1-10	3
210	SERS Biomedical Applications: Diagnostics, Forensics, and Metabolomics. 2018 , 327-367	11
209	Detecting urine metabolites related to training performance in swimming athletes by means of Raman spectroscopy and principal component analysis. 2018 , 185, 223-234	15
208	In vivo detection of drug-induced apoptosis in tumors using Raman spectroscopy. 2018 , 143, 4836-4839	7
207	Evaluation of accuracy dependence of Raman spectroscopic models on the ratio of calibration and validation points for non-invasive glucose sensing. 2018 , 410, 6469-6475	19
206	Gaussian probe beam with high spherical aberration for glucose concentration measurement. 2018 , 57, 4153-4157	3
205	Exploration of Raman exfoliated cytology for oral and cervical cancers. 2018 , 98, 35-40	9
204	Raman Enhancement of Blood Constituent Proteins Using Graphene. 2018 , 5, 2978-2982	18
203	Real-time tracking of the autophagy process in living cells using plasmonically enhanced Raman spectroscopy of fucoidan-coated gold nanoparticles. 2018 , 6, 5460-5465	12
202	Current and future functional imaging techniques for post-traumatic stress disorder.. 2019 , 9, 24568-24594	9
201	Ex vivo detection of cadmium-induced renal damage by using confocal Raman spectroscopy. 2019 , 12, e201900157	3
200	Recent advances in the vibrational spectroscopic diagnosis of non-small cell lung cancer. 2019 , 104, 102946	2

199	Toward Single-Organelle Lipidomics in Live Cells. 2019 , 91, 11380-11387		11
198	Squeezing-enhanced Raman spectroscopy. 2019 , 5,		15
197	Feature visualization of Raman spectrum analysis with deep convolutional neural network. <i>Analytica Chimica Acta</i> , 2019 , 1087, 11-19	6.6	24
196	Advancing cancer diagnostics with artificial intelligence and spectroscopy: identifying chemical changes associated with breast cancer. 2019 , 19, 929-940		10
195	Optimization of laser wavelength, power and pulse duration for eye-safe Raman spectroscopy. 2019 , 15,		6
194	Multivariate Analysis of Difference Raman Spectra of the Irradiated Nucleus and Cytoplasm Region of SH-SY5Y Human Neuroblastoma Cells. <i>Sensors</i> , 2019 , 19,	3.8	5
193	A new method for diagnosing biochemical abnormalities of anterior cruciate ligament (ACL) in human knees: A Raman spectroscopic study. 2019 , 99, 284-294		1
192	Chemical imaging of human teeth by a time-resolved Raman spectrometer based on a CMOS single-photon avalanche diode line sensor. 2019 , 144, 6089-6097		12
191	Screening for Alzheimer's Disease Using Saliva: A New Approach Based on Machine Learning and Raman Hyperspectroscopy. 2019 , 71, 1351-1359		22
190	Visible Resonance Raman Spectroscopy in Human Brain Tissues. 2019 , 65-106		1
189	MCR Approach Revealing Protein, Water, and Lipid Depth Profile in Atopic Dermatitis Patients' Stratum Corneum via in Vivo Confocal Raman Spectroscopy. 2019 , 91, 2784-2790		10
188	Principal components analysis of Raman spectral data for screening of Hepatitis C infection. 2019 , 221, 117173		22
187	Detection of glioma by surface-enhanced Raman scattering spectra with optimized mathematical methods. 2019 , 50, 1130-1140		4
186	Raman Signal Enhancement by Quasi-Fractal Geometries of Au Nanoparticles. 2019 , 19, 4740-4746		4
185	Diagnosing Iron Deficiency Anemia by Raman Spectroscopy Analysis. <i>IFMBE Proceedings</i> , 2019 , 785-789	0.2	
184	A Noninvasive Accurate Measurement of Blood Glucose Levels with Raman Spectroscopy of Blood in Microvessels. 2019 , 24,		28
183	All-in-one Raman spectroscopy approach to diagnosis of colorectal cancer: analysis of spectra in the fingerprint regions. 2019 , 3, 84-90		5
182	High-Resolution Raman Microscopic Detection of Follicular Thyroid Cancer Cells with Unsupervised Machine Learning. 2019 , 123, 4358-4372		11

181	Label-free diagnosis of lung cancer with tissue-slice surface-enhanced Raman spectroscopy and statistical analysis. 2019 , 34, 1849-1855	14
180	Non-invasive functional molecular phenotyping of human smooth muscle cells utilized in cardiovascular tissue engineering. 2019 , 89, 193-205	22
179	Elevating toward a new innovation: Carbon nanotubes (CNTs). 2019 , 271-294	3
178	Raman ChemLighter: Fiber optic Raman probe imaging in combination with augmented chemical reality. 2019 , 12, e201800447	6
177	The Recent Advances in Raman Microscopy and Imaging Techniques for Biosensors. 2019 , 9,	12
176	Single Burst Depth-Resolving Raman Spectrometer Based on a SPAD Array with an On-Chip TDC to Analyse Heterogenous Liquid Samples. 2019 ,	
175	In vivo biocompatibility and immunogenicity of metal-phenolic gelation. 2019 , 10, 10179-10194	11
174	In vivo Raman spectroscopic characterization of papillary thyroid carcinoma. 2019 , 101, 1-9	4
173	Dynamic Spectrum for noninvasive blood component analysis and its advances. 2019 , 54, 736-757	13
172	X-Ray powder diffraction - A non-destructive and versatile approach for the identification of new psychoactive substances. 2019 , 195, 414-418	7
171	Discrimination of non-melanoma skin cancer and keratosis from normal skin tissue in vivo and ex vivo by Raman spectroscopy. 2019 , 100, 131-141	11
170	A Label-Free Platform for Identification of Exosomes from Different Sources. 2019 , 4, 488-497	60
169	Translating chemometric analysis into physiological insights from in vivo confocal Raman spectroscopy of the human stratum corneum. 2019 , 1861, 403-409	8
168	Biochemical changes in injured sciatic nerve of rats after low-level laser therapy (660nm and 808nm) evaluated by Raman spectroscopy. 2019 , 34, 525-535	4
167	Application of Raman Spectroscopy in Food Forensics: A Review. <i>IFMBE Proceedings</i> , 2020 , 257-263	0.2 4
166	Non-invasive marker-independent high content analysis of a microphysiological human pancreas-on-a-chip model. 2020 , 85-86, 205-220	44
165	Raman spectroscopy of breast cancer. 2020 , 55, 439-475	13
164	Liver changes induced by cadmium poisoning distinguished by confocal Raman imaging. 2020 , 225, 117483	10

163	Bladder tissue characterization using probe-based Raman spectroscopy: Evaluation of tissue heterogeneity and influence on the model prediction. 2020 , 13, e201960025	16
162	Detecting creatine excreted in the urine of swimming athletes by means of Raman spectroscopy. 2020 , 35, 455-464	3
161	Diagnosing sickle cell disease and iron deficiency anemia in human blood by Raman spectroscopy. 2020 , 35, 1065-1074	8
160	Potential of Raman spectroscopy for the analysis of plasma/serum in the liquid state: recent advances. 2020 , 412, 1993-2007	20
159	Normal-subtracted preprocessing of Raman spectra aiming to discriminate skin actinic keratosis and neoplasias from benign lesions and normal skin tissues. 2020 , 35, 1141-1151	2
158	Emerging trends in biomedical imaging and disease diagnosis using Raman spectroscopy. 2020 , 623-652	1
157	Optical imaging techniques for vulnerable plaque detection. 2020 , 2, e201900034	1
156	Temporal Raman Spectroscopy for Monitoring Replication Kinetics of Epstein-Barr Virus Infection in Glial Cells. 2020 , 5, 29547-29560	17
155	Use of Raman spectroscopy to evaluate the biochemical composition of normal and tumoral human brain tissues for diagnosis. 2020 , 1	4
154	Surface Enhanced Raman Spectroscopy of the serum samples for the diagnosis of Hepatitis C and prediction of the viral loads. 2020 , 242, 118729	26
153	End-to-end analysis modeling of vibrational spectroscopy based on deep learning approach. 2020 , 34, e3291	0
152	Composition of Xanthan gum produced by <i>Xanthomonas campestris</i> using produced water from a carbonated oil field through Raman spectroscopy. 2020 , 213, 112052	6
151	Vibrational Spectroscopy for In Vitro Monitoring Stem Cell Differentiation. 2020 , 25,	2
150	Real-time multispectral fluorescence lifetime imaging using Single Photon Avalanche Diode arrays. 2020 , 10, 8116	13
149	Vibrational spectroscopic analysis and quantification of proteins in human blood plasma and serum. 2020 , 269-314	2
148	Medical Applications of Raman Spectroscopy. 2020 , 1-21	1
147	Characteristic of Five Subpopulation Leukocytes in Single-Cell Levels Based on Partial Principal Component Analysis Coupled with Raman Spectroscopy. 2020 , 74, 1463-1472	3
146	Identification of Lesional Tissues and Nonlesional Tissues in Early Gastric Cancer Endoscopic Submucosal Dissection Specimens Using a Fiber Optic Raman System. 2020 , 2020, 8015024	0

145	Raman spectroscopic study of the effect of the use of laser/LED phototherapy on the repair of complete tibial fracture treated with internal rigid fixation. <i>Photodiagnosis and Photodynamic Therapy</i> , 2020 , 30, 101773	3.5	0
144	A Review on Advances in Intra-operative Imaging for Surgery and Therapy: Imagining the Operating Room of the Future. 2020 , 48, 2171-2191		15
143	Renal Mass Biopsy. 2020 ,		
142	On the Spectral Quality of Time-Resolved CMOS SPAD-Based Raman Spectroscopy With High Fluorescence Backgrounds. 2020 , 20, 4635-4645		5
141	Short-wavelength optoacoustic spectroscopy based on water muting. 2020 , 117, 4007-4014		4
140	Combination of an Artificial Intelligence Approach and Laser Tweezers Raman Spectroscopy for Microbial Identification. 2020 , 92, 6288-6296		32
139	Biochemical characterization of pathogenic bacterial species using Raman spectroscopy and discrimination model based on selected spectral features. 2021 , 36, 289-302		10
138	Detecting Minerals and Organics Relevant to Planetary Exploration Using a Compact Portable Remote Raman System at 122 Meters. 2021 , 75, 299-306		2
137	Applicability of Raman spectroscopy on porcine parvovirus and porcine circovirus type 2 detection. 2021 , 249, 119336		0
136	Authenticating common Australian beef production systems using Raman spectroscopy. 2021 , 121, 107652		5
135	Time-Resolved Raman Spectrometer With High Fluorescence Rejection Based on a CMOS SPAD Line Sensor and a 573-nm Pulsed Laser. 2021 , 70, 1-10		3
134	Nonlinear and vibrational microscopy for label-free characterization of amyloid- β plaques in Alzheimer's disease model. 2021 , 146, 2945-2954		6
133	Integrated photodynamic Raman theranostic system for cancer diagnosis, treatment, and post-treatment molecular monitoring. 2021 , 11, 2006-2019		5
132	Validation of biosignatures confirms the informative nature of fossil organic Raman spectra.		1
131	Analytical performance of Raman spectroscopy in assaying biochemical components in human serum. 2021 , 1		3
130	Laparoscopic Peritoneal Wash Cytology-Derived Primary Human Mesothelial Cells for In Vitro Cell Culture and Simulation of Human Peritoneum. <i>Biomedicines</i> , 2021 , 9,	4.8	1
129	Non-Invasive Determination of Glucose Concentration Using a Near-Field Sensor. 2021 , 11,		3
128	Image-guided Raman spectroscopy probe-tracking for tumor margin delineation. 2021 , 26,		6

127	Raman spectroscopy and artificial intelligence to predict the Bayesian probability of breast cancer. 2021 , 11, 6482		6
126	Signature molecular changes in the skeletal muscle of hindlimb unloaded mice. 2021 , 25, 100930		0
125	Non-invasive cell classification using the Paint Raman Express Spectroscopy System (PRESS). 2021 , 11, 8818		0
124	Multivariate analysis of Brillouin imaging data by supervised and unsupervised learning. 2021 , 14, e202000508		0
123	Raman microspectroscopy and Raman imaging reveal biomarkers specific for thoracic aortic aneurysms. 2021 , 2, 100261		1
122	Fiber-dispersive Raman spectrometer with single-photon sensitivity. 2021 , 29, 20941-20951		3
121	Surface-enhanced Raman spectroscopy analysis of serum samples of typhoid patients of different stages. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021 , 34, 102329	3.5	1
120	Imaging the small with the small: Prospects for photonics in micro-endomicroscopy for minimally invasive cellular-resolution bioimaging. 2021 , 6, 060901		1
119	The Progress of Label-Free Optical Imaging in Alzheimer's Disease Screening and Diagnosis. 2021 , 13, 699024		1
118	Near-Infrared Optical Spectroscopy In Vivo Distinguishes Subjects with Alzheimer's Disease from Age-Matched Controls. 2021 , 82, 791-802		0
117	Mathematical and computational modeling for the determination of optical parameters of breast cancer cell. 2021 , 40, 447-458		
116	Surface-enhanced Raman spectroscopy for comparison of serum samples of typhoid and tuberculosis patients of different stages. <i>Photodiagnosis and Photodynamic Therapy</i> , 2021 , 35, 102426	3.5	4
115	Finding reduced Raman spectroscopy fingerprint of skin samples for melanoma diagnosis through machine learning. 2021 , 120, 102161		0
114	Conformational equilibrium, IR and Raman vibrational spectra of the quercetin molecule in different solvents: A comprehensive quantum-chemical investigation. 2021 , 3, 100033		1
113	Automated non-invasive identification of pelvic autonomic nerves with a handheld Raman spectrometer and potential application to nerve-sparing colorectal surgery: a preliminary study in surgical specimens.. 2021 , 10, 3921-3929		
112	Determination of modifications in rat liver due to phthalate uptake by SAM, RS, and ICP-OES. 2021 , 13, 2926-2935		1
111	Light Scattering Spectroscopy: From Elastic to Inelastic. 2004 , 355-396		0
110	Magnetic resonance and fluorescence based molecular imaging technologies. 2005 , 62, 83-115		29

109	Concepts and Methodology of Interaction of Carbon Nanostructures with Cellular Systems. 2014 , 31-55	3
108	Raman Spectroscopy for Whole Organism and Tissue Profiling. 2003 , 95-110	2
107	Development of in vivo fiber-optic Raman spectroscopy system with a miniaturized endoscope: demonstrations at the rat gastroesophageal epithelia. 2007 , 1300-1303	1
106	Applications of Raman and Surface-Enhanced Raman Scattering to the Analysis of Eukaryotic Samples. 2010 , 71-95	2
105	Raman Microscopy : A Versatile Approach to Bio-Imaging. 2012 , 219-242	1
104	Biophotonics: Harnessing Light for Biology and Medicine. 2011 , 3-17	2
103	Vibrational Microspectroscopy for Analysis of Atherosclerotic Arteries. 2014 , 505-535	2
102	Raman exfoliative cytology for oral precancer diagnosis. 2017 , 22, 1-12	14
101	Imaging of demineralized enamel in intact tooth by epideTECTED stimulated Raman scattering microscopy. 2018 , 23, 1-9	4
100	Spectral model for diagnosis of acute leukemias in whole blood and plasma through Raman spectroscopy. 2018 , 23, 1-11	3
99	Detecting active ingredients of insect repellents and sunscreens topically in skin by Raman spectroscopy. 2018 , 23, 1-11	9
98	Raman spectroscopy with a 1064-nm wavelength laser as a potential molecular tool for prostate cancer diagnosis: a pilot study. 2018 , 23, 1-6	11
97	Optical biopsy identification and grading of gliomas using label-free visible resonance Raman spectroscopy. 2019 , 24, 1-12	18
96	Single red blood cell analysis reveals elevated hemoglobin in poikilocytes. 2020 , 25, 1-13	3
95	Separating fluorescence from Raman spectra using a CMOS SPAD TCSPC line sensor for biomedical applications. 2019 ,	5
94	Development of G-Fresnel lens-based mu-spectrometer. 2019 ,	1
93	Super-high enhancement of surface enhanced Raman scattering substrate via resonance coupling. 2020 ,	1
92	Measurement of Glucose Diffusion Coefficients in Human Tissues. 2008 , 587-621	3

91	Light scattering methods for tissue diagnosis. 2019 , 6, 479-489		19
90	Low threshold anti-Stokes Raman laser on-chip. 2019 , 7, 926		11
89	Replacement of retinyl esters by polyunsaturated triacylglycerol species in lipid droplets of hepatic stellate cells during activation. <i>PLoS ONE</i> , 2012 , 7, e34945	3.7	62
88	Raman Spectroscopic Analysis of Blood, Urine, Saliva and Tissue of Oral Potentially Malignant Disorders and Malignancy-A Diagnostic Study. 011-014		5
87	Atomic Force Microscopy: The Characterisation of Amyloid Protein Structure in Pathology. 2019 , 19, 2958-2973		0
86	Characterization and imaging of surgical specimens of invasive breast cancer and normal breast tissues with the application of Raman spectral mapping: A feasibility study and comparison with randomized single-point detection method. 2020 , 20, 2969-2976		3
85	Raman spectroscopy and its urological applications. 2008 , 24, 444-50		12
84	Role of Raman spectroscopy and surface enhanced Raman spectroscopy in colorectal cancer. 2016 , 8, 427-38		20
83	. 2010 , 30, 343		23
82	Blood Glucose Measurement Principles of Non-invasive Blood Glucose Meter: Focused on the Detection Methods of Blood Glucose. 2012 , 33, 114-127		7
81	Biological Characteristics of Cell Similarity Measure. 2100093		
80	Bibliography and References. 2001 ,		
79	Near Infrared Raman Spectroscopy for Cancer Detection in vivo. 2002 ,		
78	Light Scattering Spectroscopy Detects Changes in Alzheimer's Brain. 2002 ,		
77	Development of Optical Fiber Probes for Biological Raman Spectroscopy. 2002 ,		
76	Identification of Bladder Wall Layers by Raman Spectroscopy. 2002 , 1771-1778		2
75	Diagnosis of vulnerable plaques in the cardiac catheterization laboratory. 2003 , 220-234		
74	Optical spectroscopy to diagnose Alzheimer's disease in vivo. 2004 ,		

- 73 Diagnosis of Vulnerable Plaques in the Cardiac Catheterization Laboratory. **2004**, 53-66
- 72 RAMAN SPECTROSCOPY | Near-Infrared. **2005**, 105-110
- 71 Metabonomics. **2005**, 143-164
- 70 Raman Spectroscopy of Skin. **2006**, 551-562
- 69 Optical Imaging and Diagnosis in Bladder Cancer. **2009**, 407-419 1
- 68 The Pharmacogenomics of Personalized Medicine. 1
- 67 Introduction to Spectroscopy. **2012**, 1-16
- 66 Vibrational Spectroscopy and Cancer. **2012**, 55-110
- 65 Spectroscopy and Molecular Changes in Cancer Cells. **2012**, 17-32
- 64 A screening of Alzheimer's disease using basis synthesis by singular value decomposition from Raman spectra of platelet. **2013**, 14, 2393-2399 1
- 63 Review of Nanoscale Spectroscopy in Medicine. **2013**, 439-472 1
- 62 Comparison of coded aperture and slit-based Raman spectroscopy for measuring analytes beneath turbid biological tissue and tissue-simulating phantoms. **2014**,
- 61 Tissue classification using a fiber probe for combined Raman, fluorescence and reflectance spectroscopy. **2016**,
- 60 Photoluminescent Nanosensors. **2016**, 99-118 1
- 59 Vibrational Spectroscopic Preliminary Study of Blood and Its Components in Mice. **2018**,
- 58 Time-resolved single photon spectroscopy through a single optical fibre for miniaturised medical probe design. **2018**,
- 57 Cystoscopy. **2019**, 21-32
- 56 Raman spectral analyses of amino acids in life processes. **2019**,

- 55 Single blood cell Raman spectroscopy reveals elevated haemoglobin content in poikilocytosis. **2019**,
- 54 Discrimination of brain tumours and dysplastic tissues through multimodal fibre-probe spectroscopy. **2019**,
- 53 Single blood cell Raman spectroscopy reveals elevated haemoglobin content in poikilocytosis. **2019**,
- 52 Renal Mass Biopsy: Future Trends and Developments. **2020**, 195-207
- 51 Fast and label-free optical detection of dysplastic and tumour brain tissues. **2020**,
- 50 Towards polarization-based excitation tailoring for extended Raman spectroscopy. **2020**, 28, 10239-10252 3
- 49 Blood glucose analysis by Raman spectrophotometer with ellipsoidal reflector. **2021**,
- 48 Dispersion of refractive indices for $(\text{Cu}_{1-x}\text{Ag}_x)_7\text{GeS}(\text{Se})_{51}$ mixed crystals. **2021**,
- 47 Atoms and Light. **2007**, 359-399
- 46 Detection of cancerous esophageal tissue by Raman spectroscopy and multivariate analysis of extracellular fluid. **2020**,
- 45 Signature molecular changes in the skeletal muscle of hindlimb unloaded mice.
- 44 SPECTROSCOPY/MICROSCOPY: Nonlinear Raman microscopy eyes clinical application. **2010**, 3,
- 43 Application of Raman spectroscopy in Andrology: non-invasive analysis of tissue and single cell. **2014**, 3, 125-33 9
- 42 Exploring Fabrication Limits for UV Guiding Hollow Core Anti-Resonant Fiber. **2021**,
- 41 Vibrational Imaging Techniques for the Characterization of Hard Dental Tissues: From Bench-Top to Chair-Side. **2021**, 11, 11953 1
- 40 Raman spectroscopy biochemical characterisation of bladder cancer cisplatin resistance regulated by FDFT1: a review.. **2022**, 27, 9 1
- 39 Rapid, Label-Free Prediction of Antibiotic Resistance in by Surface-Enhanced Raman Spectroscopy.. **2022**, 23, 1
- 38 Raman spectroscopy is a powerful tool in molecular paleobiology: An analytical response to Alleon et al. (<https://doi.org/10.1002/bies.202000295>).. *BioEssays*, **2022**, 44, e2100070 4.1 1

37	Multi-excitation Raman Spectroscopy Complements Whole Genome Sequencing for Rapid Detection of Bacterial Infection and Resistance in WHO Priority Pathogens.		1
36	Raman Spectroscopy: A Personalized Decision-Making Tool on Clinicians' Hands for In Situ Cancer Diagnosis and Surgery Guidance.. <i>Cancers</i> , 2022 , 14,	6.6	1
35	Characterising the biosensing interface. <i>Analytica Chimica Acta</i> , 2022 , 339759	6.6	1
34	Photobiomodulation reduces hippocampal apoptotic cell death and produces a Raman spectroscopic "signature".. <i>PLoS ONE</i> , 2022 , 17, e0264533	3.7	0
33	Raman Spectroscopy: In Vivo Application for Bone Evaluation in Oral Reconstructive (Regenerative) Surgery.. <i>Diagnostics</i> , 2022 , 12,	3.8	2
32	Raman spectroscopy combined with comprehensive gas chromatography for label-free characterization of plasma-derived extracellular vesicle subpopulations.. <i>Analytical Biochemistry</i> , 2022 , 114672	3.1	1
31	Raman Spectroscopy as a Neuromonitoring Tool in Traumatic Brain Injury: A Systematic Review and Clinical Perspectives.. <i>Cells</i> , 2022 , 11,	7.9	1
30	Detection of the chemical changes in blood, liver, and brain caused by electromagnetic field exposure using Raman spectroscopy, biochemical assays combined with multivariate analyses.. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022 , 38, 102779	3.5	2
29	Review: Emerging Oculomics Based Diagnostic Technologies for Traumatic Brain Injury.. <i>IEEE Reviews in Biomedical Engineering</i> , 2022 , PP,	6.4	0
28	Differential Diagnosis of Glycosuria Using Raman Spectroscopy. <i>IFMBE Proceedings</i> , 2022 , 1129-1134	0.2	
27	A review on material analysis of food safety based on fluorescence spectrum combined with artificial neural network technology. <i>Food Science and Technology</i> , 42,	2	2
26	Current Techniques and Future Trends in the Diagnosis of Hepatic Steatosis in Liver Donors: A Review. <i>Journal of Liver Transplantation</i> , 2022 , 100091		0
25	Cell Type-Specific Anti-Adhesion Properties of Peritoneal Cell Treatment with Plasma-Activated Media (PAM).. <i>Biomedicines</i> , 2022 , 10,	4.8	2
24	Types of Raman Scattering Techniques for Neurodegenerative Diseases. 2022 , 39-57		
23	Optical (Bio)Sensors in Medical Diagnosis. 2022 ,		
22	Surface-enhanced Raman spectroscopic analysis of the centrifugally filtered blood serum samples of the hepatitis C patients. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022 , 102949	3.5	0
21	In situ identification of environmental microorganisms with Raman spectroscopy. <i>Environmental Science and Ecotechnology</i> , 2022 , 11, 100187	7.4	1
20	Single-Molecule Surface-Enhanced Raman Spectroscopy. <i>Sensors</i> , 2022 , 22, 4889	3.8	3

19	Diagnosing molecular subtypes of breast cancer by means of Raman spectroscopy. <i>Lasers in Surgery and Medicine</i> ,	3.6
18	Rapid diagnosis of diabetes based on ResNet and Raman spectroscopy. <i>Photodiagnosis and Photodynamic Therapy</i> , 2022 , 103007	3.5
17	Mapping Endocrine Networks by Stable Isotope Tracing. <i>Current Opinion in Endocrine and Metabolic Research</i> , 2022 , 100381	1.7
16	Vast scope of raman spectroscopy in oral cancers and head & neck regions: A review. 2022 , 8, 67-72	
15	In vivo spectroscopy: optical fiber probes for clinical applications.	1
14	Silicon Photomultiplier A High Dynamic Range, High Sensitivity Sensor for Bio-Photonics Applications. 2022 , 12, 793	○
13	Deep Learning for Chondrogenic Tumor Classification through Wavelet Transform of Raman Spectra. 2022 , 22, 7492	○
12	Fabricating Thin Membraned Anti-Resonant Hollow-Core Fibre for Broadband UV-visible Light Guidance. 2022 ,	○
11	Raman spectroscopy combined with deep learning for rapid detection of melanoma at the single cell level. 2023 , 286, 122029	○
10	An Early Diagnostic Nano Method for Chronic Kidney Disease Using Surface Enhanced Raman Spectroscopy. 2022 ,	○
9	Key temperature-dependent characteristics of AlGaIn-based UV-C laser diode and demonstration of room-temperature continuous-wave lasing. 2022 , 121, 222103	1
8	Discrimination of leukemias and non-leukemic cancers in blood serum samples of children and adolescents using a Raman spectral model. 2023 , 38,	○
7	Differentiating Follicular Thyroid Carcinoma and Thyroid Adenoma by Using Near-Infrared Surface-Enhanced Raman Spectroscopy.	○
6	Identification of pathogens and detection of antibiotic susceptibility at single-cell resolution by Raman spectroscopy combined with machine learning. 13,	○
5	An application of raman spectroscopy in combination with machine learning to determine gastric cancer spectroscopy marker. 2023 , 234, 107523	○
4	Increased levels of nerve growth factor accompany oxidative load in recurrent pregnancy loss. Machine learning applied to FT-Raman spectra study. 2023 , 46, 599-609	○
3	A methodology to evaluate different histological preparations of soft tissues: Intervertebral disc tissues study. 2023 , 21, 228080002311556	○
2	Glucoscreen. 2022 , 7, 1-20	○

1 A Review on Spectroscopy and its Classification. **2022**, 1, 31-37

o