

Nicholas Stone

List of Publications by Citations

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

186
papers

7,880
citations

45
h-index

84
g-index

205
ext. papers

9,073
ext. citations

6.2
avg, IF

6.21
L-index

#	Paper	IF	Citations
186	Using Raman spectroscopy to characterize biological materials. <i>Nature Protocols</i> , 2016 , 11, 664-87	18.8	570
185	Raman spectroscopy for identification of epithelial cancers. <i>Faraday Discussions</i> , 2004 , 126, 141-57; discussion 169-83	3.6	472
184	Raman spectroscopy for medical diagnostics--From in-vitro biofluid assays to in-vivo cancer detection. <i>Advanced Drug Delivery Reviews</i> , 2015 , 89, 121-34	18.5	378
183	Near-infrared Raman spectroscopy for the classification of epithelial pre-cancers and cancers. <i>Journal of Raman Spectroscopy</i> , 2002 , 33, 564-573	2.3	340
182	Raman spectroscopy: elucidation of biochemical changes in carcinogenesis of oesophagus. <i>British Journal of Cancer</i> , 2006 , 94, 1460-4	8.7	263
181	Vibrational spectroscopy: a clinical tool for cancer diagnostics. <i>Analyst, The</i> , 2009 , 134, 1029-45	5	226
180	Raman spectroscopy, a potential tool for the objective identification and classification of neoplasia in Barrett's oesophagus. <i>Journal of Pathology</i> , 2003 , 200, 602-9	9.4	210
179	Raman spectroscopy for early detection of laryngeal malignancy: preliminary results. <i>Laryngoscope</i> , 2000 , 110, 1756-63	3.6	174
178	Assessment of fiberoptic near-infrared raman spectroscopy for diagnosis of bladder and prostate cancer. <i>Urology</i> , 2005 , 65, 1126-30	1.6	173
177	Subsurface probing of calcifications with spatially offset Raman spectroscopy (SORS): future possibilities for the diagnosis of breast cancer. <i>Analyst, The</i> , 2007 , 132, 899-905	5	155
176	The use of Raman spectroscopy to differentiate between different prostatic adenocarcinoma cell lines. <i>British Journal of Cancer</i> , 2005 , 92, 2166-70	8.7	147
175	Surface enhanced spatially offset Raman spectroscopic (SESORS) imaging II: the next dimension. <i>Chemical Science</i> , 2011 , 2, 776	9.4	141
174	Advanced transmission Raman spectroscopy: a promising tool for breast disease diagnosis. <i>Cancer Research</i> , 2008 , 68, 4424-30	10.1	134
173	The use of Raman spectroscopy to identify and grade prostatic adenocarcinoma in vitro. <i>British Journal of Cancer</i> , 2003 , 89, 106-8	8.7	131
172	Advances in the clinical application of Raman spectroscopy for cancer diagnostics. <i>Photodiagnosis and Photodynamic Therapy</i> , 2013 , 10, 207-19	3.5	119
171	Development of deep subsurface Raman spectroscopy for medical diagnosis and disease monitoring. <i>Chemical Society Reviews</i> , 2016 , 45, 1794-802	58.5	118
170	Recent advances in the development of Raman spectroscopy for deep non-invasive medical diagnosis. <i>Journal of Biophotonics</i> , 2013 , 6, 7-19	3.1	118

169	New relationships between breast microcalcifications and cancer. <i>British Journal of Cancer</i> , 2010 , 103, 1034-9	8.7	118
168	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. <i>Analyst, The</i> , 2018 , 143, 1735-1757	5	114
167	Prospects of deep Raman spectroscopy for noninvasive detection of conjugated surface enhanced resonance Raman scattering nanoparticles buried within 25 mm of mammalian tissue. <i>Analytical Chemistry</i> , 2010 , 82, 3969-73	7.8	112
166	The use of Raman spectroscopy to provide an estimation of the gross biochemistry associated with urological pathologies. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1657-68	4.4	110
165	The use of Raman spectroscopy to identify and characterize transitional cell carcinoma in vitro. <i>BJU International</i> , 2004 , 93, 1232-6	5.6	104
164	Mid-infrared multispectral tissue imaging using a chalcogenide fiber supercontinuum source. <i>Optics Letters</i> , 2018 , 43, 999-1002	3	98
163	Drop coating deposition Raman spectroscopy of protein mixtures. <i>Analyst, The</i> , 2007 , 132, 544-50	5	92
162	Infrared micro-spectral imaging: distinction of tissue types in axillary lymph node histology. <i>BMC Clinical Pathology</i> , 2008 , 8, 8	3	87
161	Endoscopic Raman spectroscopy enables objective diagnosis of dysplasia in Barrett's esophagus. <i>Gastrointestinal Endoscopy</i> , 2014 , 79, 37-45	5.2	86
160	Emerging concepts in deep Raman spectroscopy of biological tissue. <i>Analyst, The</i> , 2009 , 134, 1058-66	5	84
159	Investigation of support vector machines and Raman spectroscopy for lymph node diagnostics. <i>Analyst, The</i> , 2010 , 135, 895-901	5	83
158	Prospects for the diagnosis of breast cancer by noninvasive probing of calcifications using transmission Raman spectroscopy. <i>Journal of Biomedical Optics</i> , 2007 , 12, 024008	3.5	76
157	Depth profiling of calcifications in breast tissue using picosecond Kerr-gated Raman spectroscopy. <i>Analyst, The</i> , 2007 , 132, 48-53	5	74
156	Analysis of human tear fluid by Raman spectroscopy. <i>Analytica Chimica Acta</i> , 2008 , 616, 177-84	6.6	71
155	Evaluation of Raman probe for oesophageal cancer diagnostics. <i>Analyst, The</i> , 2010 , 135, 3038-41	5	67
154	Developing fibre optic Raman probes for applications in clinical spectroscopy. <i>Chemical Society Reviews</i> , 2016 , 45, 1919-34	58.5	63
153	Smart Gold Nanostructures for Light Mediated Cancer Theranostics: Combining Optical Diagnostics with Photothermal Therapy. <i>Advanced Science</i> , 2020 , 7, 1903441	13.6	62
152	Biomechanics of fibrous proteins of the extracellular matrix studied by Brillouin scattering. <i>Journal of the Royal Society Interface</i> , 2014 , 11, 20140739	4.1	58

151	Discrimination between benign, primary and secondary malignancies in lymph nodes from the head and neck utilising Raman spectroscopy and multivariate analysis. <i>Analyst, The</i> , 2013 , 138, 3900-8	5	55
150	Mechanical mapping with chemical specificity by confocal Brillouin and Raman microscopy. <i>Analyst, The</i> , 2014 , 139, 729-33	5	53
149	Optical diagnostics in urology: current applications and future prospects. <i>BJU International</i> , 2003 , 92, 400-7	5.6	53
148	Application of Vibrational Spectroscopy and Imaging to Point-of-Care Medicine: A Review. <i>Applied Spectroscopy</i> , 2018 , 72, 52-84	3.1	53
147	Raman spectroscopy--a new method for the intra-operative assessment of axillary lymph nodes. <i>Analyst, The</i> , 2010 , 135, 3042-7	5	51
146	Raman spectroscopy of parathyroid tissue pathology. <i>Lasers in Medical Science</i> , 2006 , 21, 192-7	3.1	51
145	Vibrational spectroscopy for cancer diagnostics. <i>Analytical Methods</i> , 2014 , 6, 3901	3.2	47
144	A subcutaneous Raman needle probe. <i>Applied Spectroscopy</i> , 2013 , 67, 349-54	3.1	47
143	The potential for histological screening using a combination of rapid Raman mapping and principal component analysis. <i>Journal of Biophotonics</i> , 2009 , 2, 91-103	3.1	45
142	Mid-IR hyperspectral imaging for label-free histopathology and cytology. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 023002	1.7	44
141	Photodynamic therapy using 5-aminolaevulinic acid for oesophageal adenocarcinoma associated with Barrett's metaplasia. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 1999 , 53, 75-80	6.7	44
140	Support vector machine ensembles for breast cancer type prediction from mid-FTIR micro-calcification spectra. <i>Chemometrics and Intelligent Laboratory Systems</i> , 2011 , 107, 363-370	3.8	40
139	Raman spectroscopy: a potential tool for early objective diagnosis of neoplasia in the oesophagus. <i>Journal of Biophotonics</i> , 2011 , 4, 685-95	3.1	38
138	Optical and molecular techniques to identify tumor margins within the larynx. <i>Head and Neck</i> , 2010 , 32, 1544-53	4.2	38
137	High-resolution FTIR imaging of colon tissues for elucidation of individual cellular and histopathological features. <i>Analyst, The</i> , 2016 , 141, 630-9	5	36
136	Towards a safe non-invasive method for evaluating the carbonate substitution levels of hydroxyapatite (HAP) in micro-calcifications found in breast tissue. <i>Analyst, The</i> , 2010 , 135, 3156-61	5	36
135	Spatially offset Raman spectroscopy for biomedical applications. <i>Chemical Society Reviews</i> , 2021 , 50, 556-568	58.5	36
134	Investigation into the protein composition of human tear fluid using centrifugal filters and drop coating deposition Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2009 , 40, 218-224	2.3	35

133	Raman spectroscopy--a potential new method for the intra-operative assessment of axillary lymph nodes. <i>Journal of the Royal College of Surgeons of Edinburgh</i> , 2012 , 10, 123-7	2.5	34
132	Tracking bisphosphonates through a 20 mm thick porcine tissue by using surface-enhanced spatially offset Raman spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 8509-11	16.4	33
131	Raman spectroscopy of bladder tissue in the presence of 5-aminolevulinic acid. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2009 , 95, 170-6	6.7	32
130	Evaluation of linear discriminant analysis for automated Raman histological mapping of esophageal high-grade dysplasia. <i>Journal of Biomedical Optics</i> , 2010 , 15, 066015	3.5	30
129	Assessment of a custom-built Raman spectroscopic probe for diagnosis of early oesophageal neoplasia. <i>Journal of Biomedical Optics</i> , 2012 , 17, 081421-1	3.5	30
128	Photodiagnosis using Raman and surface enhanced Raman scattering of bodily fluids. <i>Photodiagnosis and Photodynamic Therapy</i> , 2005 , 2, 223-33	3.5	29
127	Review article: the potential role for photodynamic therapy in the management of upper gastrointestinal disease. <i>Alimentary Pharmacology and Therapeutics</i> , 2001 , 15, 311-21	6.1	29
126	Video-rate, mid-infrared hyperspectral upconversion imaging. <i>Optica</i> , 2019 , 6, 702	8.6	29
125	Studying the distribution of deep Raman spectroscopy signals using liquid tissue phantoms with varying optical properties. <i>Analyst, The</i> , 2015 , 140, 5112-9	5	28
124	The micro-architecture of human cancellous bone from fracture neck of femur patients in relation to the structural integrity and fracture toughness of the tissue. <i>Bone Reports</i> , 2015 , 3, 67-75	2.6	28
123	Head & neck optical diagnostics: vision of the future of surgery. <i>Head & Neck Oncology</i> , 2009 , 1, 25		28
122	Relationships between pathology and crystal structure in breast calcifications: an X-ray diffraction study in histological sections. <i>Npj Breast Cancer</i> , 2016 , 2, 16029	7.8	27
121	Exploiting the diagnostic potential of biomolecular fingerprinting with vibrational spectroscopy. <i>Faraday Discussions</i> , 2011 , 149, 279-90; discussion 333-56	3.6	27
120	Elemental vs. phase composition of breast calcifications. <i>Scientific Reports</i> , 2017 , 7, 136	4.9	26
119	Assessment of Compressive Raman versus Hyperspectral Raman for Microcalcification Chemical Imaging. <i>Analytical Chemistry</i> , 2018 , 90, 7197-7203	7.8	25
118	Characterisation of a fibre optic Raman probe within a hypodermic needle. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 8311-20	4.4	24
117	Optical spectroscopy for the early diagnosis of gastrointestinal malignancy. <i>Lasers in Medical Science</i> , 1998 , 13, 3-13	3.1	24
116	Mirrored stainless steel substrate provides improved signal for Raman spectroscopy of tissue and cells. <i>Journal of Raman Spectroscopy</i> , 2017 , 48, 119-125	2.3	23

115	Identification of different subsets of lung cells using Raman microspectroscopy and whole cell nucleus isolation. <i>Analyst, The</i> , 2013 , 138, 5052-8	5	23
114	Use of picosecond Kerr-gated Raman spectroscopy to suppress signals from both surface and deep layers in bladder and prostate tissue. <i>Journal of Biomedical Optics</i> , 2005 , 10, 44006	3.5	23
113	High sensitivity non-invasive detection of calcifications deep inside biological tissue using Transmission Raman Spectroscopy. <i>Journal of Biophotonics</i> , 2018 , 11, e201600260	3.1	22
112	Fourier transform infrared spectroscopic studies of T-cell lymphoma, B-cell lymphoid and myeloid leukaemia cell lines. <i>Analyst, The</i> , 2009 , 134, 763-8	5	22
111	Optical characterization of porcine tissues from various organs in the 650-1100 nm range using time-domain diffuse spectroscopy. <i>Biomedical Optics Express</i> , 2020 , 11, 1697-1706	3.5	22
110	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020 , 92, 15745-15756	7.8	22
109	Chemico-mechanical imaging of Barrett's oesophagus. <i>Journal of Biophotonics</i> , 2016 , 9, 694-700	3.1	22
108	Spatially Offset and Transmission Raman Spectroscopy for Determination of Depth of Inclusion in Turbid Matrix. <i>Analytical Chemistry</i> , 2019 , 91, 8994-9000	7.8	21
107	Current trends in machine-learning methods applied to spectroscopic cancer diagnosis. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 59, 17-25	14.6	21
106	Evaluation of different tissue de-paraffinization procedures for infrared spectral imaging. <i>Analyst, The</i> , 2015 , 140, 2369-75	5	21
105	Evaluation of a confocal Raman probe for pathological diagnosis during colonoscopy. <i>Colorectal Disease</i> , 2014 , 16, 732-8	2.1	21
104	Surface enhanced Raman scattering of herpes simplex virus in tear film. <i>Photodiagnosis and Photodynamic Therapy</i> , 2008 , 5, 42-9	3.5	21
103	FTIR of touch imprint cytology: a novel tissue diagnostic technique. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2008 , 92, 160-4	6.7	21
102	Viscoelastic properties of biopolymer hydrogels determined by Brillouin spectroscopy: A probe of tissue micromechanics. <i>Science Advances</i> , 2020 , 6,	14.3	21
101	Plasmonic Nanoassemblies: Tentacles Beat Satellites for Boosting Broadband NIR Plasmon Coupling Providing a Novel Candidate for SERS and Photothermal Therapy. <i>Small</i> , 2020 , 16, e1906780	11	20
100	Histological imaging of a human colon polyp sample using Raman spectroscopy and self organising maps. <i>Vibrational Spectroscopy</i> , 2012 , 60, 43-49	2.1	20
99	Electronic nose analysis of bronchoalveolar lavage fluid. <i>European Journal of Clinical Investigation</i> , 2011 , 41, 52-8	4.6	20
98	Multi-channel Fourier domain OCT system with superior lateral resolution for biomedical applications 2008 ,		19

97	Spatially offset Raman spectroscopy. <i>Nature Reviews Methods Primers</i> , 2021 , 1,		19
96	Raman spectroscopy for rapid intra-operative margin analysis of surgically excised tumour specimens. <i>Analyst, The</i> , 2019 , 144, 6479-6496	5	19
95	Detection of A β plaque-associated astrogliosis in Alzheimer's disease brain by spectroscopic imaging and immunohistochemistry. <i>Analyst, The</i> , 2018 , 143, 850-857	5	19
94	Review: optical micrometer resolution scanning for non-invasive grading of precancer in the human uterine cervix. <i>Technology in Cancer Research and Treatment</i> , 2008 , 7, 483-96	2.7	18
93	Endoscopic therapy for Barrett's oesophagus. <i>Gut</i> , 2005 , 54, 875-84	19.2	18
92	Enhanced spectral histology in the colon using high-magnification benchtop FTIR imaging. <i>Vibrational Spectroscopy</i> , 2017 , 91, 83-91	2.1	17
91	Non-invasive chemically specific measurement of subsurface temperature in biological tissues using surface-enhanced spatially offset Raman spectroscopy. <i>Faraday Discussions</i> , 2016 , 187, 329-39	3.6	17
90	Prospective on using fibre mid-infrared supercontinuum laser sources for in vivo spectral discrimination of disease. <i>Analyst, The</i> , 2018 , 143, 5874-5887	5	17
89	Novel Au@BiO ₂ /WO ₃ Core-shell Composite Nanoparticles for Surface-Enhanced Raman Spectroscopy with Potential Application in Cancer Cell Imaging. <i>Advanced Functional Materials</i> , 2019 , 29, 1903549	15.6	16
88	Utilising non-consensus pathology measurements to improve the diagnosis of oesophageal cancer using a Raman spectroscopic probe. <i>Analyst, The</i> , 2014 , 139, 381-8	5	16
87	Temperature Spatially Offset Raman Spectroscopy (T-SORS): Subsurface Chemically Specific Measurement of Temperature in Turbid Media Using Anti-Stokes Spatially Offset Raman Spectroscopy. <i>Analytical Chemistry</i> , 2016 , 88, 832-7	7.8	16
86	Method for identification of spectral targets in discrete frequency infrared spectroscopy for clinical diagnostics. <i>Applied Spectroscopy</i> , 2015 , 69, 1066-73	3.1	14
85	Chapter 4: Raman Microscopy: Complement or Competitor?. <i>Metal Ions in Life Sciences</i> , 2010 , 105-143		14
84	Near real-time classification of optical coherence tomography data using principal components fed linear discriminant analysis. <i>Journal of Biomedical Optics</i> , 2008 , 13, 034002	3.5	14
83	Infrared micro-spectroscopy for cyto-pathological classification of esophageal cells. <i>Analyst, The</i> , 2015 , 140, 2215-23	5	13
82	Exploring the effect of laser excitation wavelength on signal recovery with deep tissue transmission Raman spectroscopy. <i>Analyst, The</i> , 2016 , 141, 5738-5746	5	13
81	Correlation mapping: rapid method for identification of histological features and pathological classification in mid infrared spectroscopic images of lymph nodes. <i>Journal of Biomedical Optics</i> , 2010 , 15, 026030	3.5	13
80	Multimodal registration of optical microscopic and infrared spectroscopic images from different tissue sections: An application to colon cancer 2017 , 68, 1-15		12

79	Raman spectroscopy and multivariate analysis for the non invasive diagnosis of clinically inconclusive vulval lichen sclerosis. <i>Analyst, The</i> , 2017 , 142, 1200-1206	5	12
78	Determination of inclusion depth in ex vivo animal tissues using surface enhanced deep Raman spectroscopy. <i>Journal of Biophotonics</i> , 2020 , 13, e201960092	3.1	12
77	Single Cell Imaging of Nuclear Architecture Changes. <i>Frontiers in Cell and Developmental Biology</i> , 2019 , 7, 141	5.7	11
76	Subsurface Chemically Specific Measurement of pH Levels in Biological Tissues Using Combined Surface-Enhanced and Deep Raman. <i>Analytical Chemistry</i> , 2019 , 91, 10984-10987	7.8	11
75	Towards automated classification of clinical optical coherence tomography data of dense tissues. <i>Lasers in Medical Science</i> , 2009 , 24, 627-38	3.1	11
74	Upconversion raster scanning microscope for long-wavelength infrared imaging of breast cancer microcalcifications. <i>Biomedical Optics Express</i> , 2018 , 9, 4979-4987	3.5	11
73	Biofluids and other techniques: general discussion. <i>Faraday Discussions</i> , 2016 , 187, 575-601	3.6	10
72	Noninvasive Determination of Depth in Transmission Raman Spectroscopy in Turbid Media Based on Sample Differential Transmittance. <i>Analytical Chemistry</i> , 2017 , 89, 9730-9733	7.8	10
71	Spatially Offset Raman Spectroscopy-How Deep?. <i>Analytical Chemistry</i> , 2021 , 93, 6755-6762	7.8	10
70	Calcification Microstructure Reflects Breast Tissue Microenvironment. <i>Journal of Mammary Gland Biology and Neoplasia</i> , 2019 , 24, 333-342	2.4	9
69	Age-Related Changes in Femoral Head Trabecular Microarchitecture 2018 , 9, 976-987		9
68	Direct monitoring of light mediated hyperthermia induced within mammalian tissues using surface enhanced spatially offset Raman spectroscopy (T-SESORS). <i>Analyst, The</i> , 2019 , 144, 3552-3555	5	8
67	Automated cytological detection of Barrett's neoplasia with infrared spectroscopy. <i>Journal of Gastroenterology</i> , 2018 , 53, 227-235	6.9	8
66	Rapid endoscopic identification and destruction of degenerating Barrett's mucosal neoplasia. <i>Journal of the Royal College of Surgeons of Edinburgh</i> , 2011 , 9, 119-23	2.5	8
65	Raman point mapping of tear ferning patterns 2008 ,		8
64	Characterisation of signal enhancements achieved when utilizing a photon diode in deep Raman spectroscopy of tissue. <i>Biomedical Optics Express</i> , 2016 , 7, 2130-41	3.5	8
63	Determination of Depth in Transmission Raman Spectroscopy in Turbid Media Using a Beam Enhancing Element. <i>Applied Spectroscopy</i> , 2017 , 71, 1849-1855	3.1	7
62	Sensitivity of Transmission Raman Spectroscopy Signals to Temperature of Biological Tissues. <i>Scientific Reports</i> , 2018 , 8, 8379	4.9	7

61	Assessment of robustness and transferability of classification models built for cancer diagnostics using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 897-903	2.3	7
60	FTIR microspectroscopy of stained cells and tissues. Application in cancer diagnosis. <i>Spectroscopy</i> , 2010 , 24, 73-78		7
59	Role of Fourier transform infrared spectroscopy (FTIR) in the diagnosis of parathyroid pathology. <i>Photodiagnosis and Photodynamic Therapy</i> , 2007 , 4, 124-9	3.5	7
58	Non-invasive depth determination of inclusion in biological tissues using spatially offset Raman spectroscopy with external calibration. <i>Analyst, The</i> , 2020 , 145, 7623-7629	5	7
57	Diagnostic prospects and preclinical development of optical technologies using gold nanostructure contrast agents to boost endogenous tissue contrast. <i>Chemical Science</i> , 2020 , 11, 8671-8685	9.4	7
56	Towards the intra-operative use of Raman spectroscopy in breast cancer-overcoming the effects of theatre lighting. <i>Lasers in Medical Science</i> , 2016 , 31, 1143-9	3.1	7
55	Discrimination of skin cancer cells using Fourier transform infrared spectroscopy. <i>Computers in Biology and Medicine</i> , 2018 , 100, 50-61	7	7
54	Clinical Spectroscopy: general discussion. <i>Faraday Discussions</i> , 2016 , 187, 429-60	3.6	6
53	Semi-parametric estimation in the compositional modeling of multicomponent systems from Raman spectroscopic data. <i>Applied Spectroscopy</i> , 2006 , 60, 877-83	3.1	6
52	Progress in the detection of neoplastic progress and cancer by Raman spectroscopy 2000 ,		6
51	Estimating the Reduced Scattering Coefficient of Turbid Media Using Spatially Offset Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021 , 93, 3386-3392	7.8	6
50	Liquid Biopsies in Lung Cancer: Four Emerging Technologies and Potential Clinical Applications. <i>Cancers</i> , 2019 , 11,	6.6	5
49	Characterization of colorectal mucus using infrared spectroscopy: a potential target for bowel cancer screening and diagnosis. <i>Laboratory Investigation</i> , 2020 , 100, 1102-1110	5.9	5
48	Noninvasive simultaneous monitoring of pH and depth using surface-enhanced deep Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2020 , 51, 1078-1082	2.3	4
47	Developing Raman spectroscopy as a diagnostic tool for label-free antigen detection. <i>Journal of Biophotonics</i> , 2018 , 11, e201700028	3.1	4
46	Spectral Pathology: general discussion. <i>Faraday Discussions</i> , 2016 , 187, 155-86	3.6	4
45	Single cell analysis/data handling: general discussion. <i>Faraday Discussions</i> , 2016 , 187, 299-327	3.6	4
44	Towards the mid-infrared optical biopsy 2016 ,		4

43	Vibrational Spectroscopy: The Solution for Immediate Medical Diagnosis. <i>Materials Today: Proceedings</i> , 2015 , 2, 890-893	1.4	4
42	Locating microcalcifications in breast histopathology sections using micro CT and XRF mapping. <i>Analytical Methods</i> , 2014 , 6, 3962-3966	3.2	4
41	Autotuning of A PID Controller for an Active Vibration Suppression Device for the Treatment of Essential Tremor 2006 , 855		4
40	Self-absorption corrected non-invasive transmission Raman spectroscopy (of biological tissue). <i>Analyst, The</i> , 2021 , 146, 1260-1267	5	4
39	Performance of mid infrared spectroscopy in skin cancer cell type identification 2017 ,		3
38	Noninvasive Detection of Differential Water Content Inside Biological Samples Using Deep Raman Spectroscopy. <i>Analytical Chemistry</i> , 2020 , 92, 9449-9453	7.8	3
37	Identification of cancer associated molecular changes in histologically benign vulval disease found in association with vulval squamous cell carcinoma using Fourier transform infrared spectroscopy. <i>Analytical Methods</i> , 2016 , 8, 8452-8460	3.2	3
36	Identification of GI cancers utilising rapid mid-infrared spectral imaging 2016 ,		3
35	Tracking Bisphosphonates through a 20 mm Thick Porcine Tissue by Using Surface-Enhanced Spatially Offset Raman Spectroscopy. <i>Angewandte Chemie</i> , 2012 , 124, 8637-8639	3.6	3
34	Novel Raman signal recovery from deeply buried tissue components 2008 ,		3
33	Raman Spectroscopy as a Potential Tool for Early Diagnosis of Malignancies in Esophageal and Bladder Tissues 2008 ,		3
32	Enhanced deep detection of Raman scattered light by wavefront shaping. <i>Optics Express</i> , 2018 , 26, 33565-33574	3.3	3
31	Raman Spectroscopy for Early Cancer Detection, Diagnosis and Elucidation of Disease-Specific Biochemical Changes 2010 , 315-346		3
30	Utilization of Raman spectroscopy to identify breast cancer from the water content in surgical samples containing blue dye. <i>Translational Biophotonics</i> , 2021 , 3, e202000023	2.2	3
29	Translation of an esophagus histopathological FT-IR imaging model to a fast quantum cascade laser modality. <i>Journal of Biophotonics</i> , 2020 , 13, e202000122	3.1	2
28	Brillouin microspectroscopy data of tissue-mimicking gelatin hydrogels. <i>Data in Brief</i> , 2020 , 29, 105267	1.2	2
27	Potential of mid IR spectroscopy in the rapid label free identification of skin malignancies 2016 ,		2
26	Real-time disease detection using spectroscopic diagnosis. <i>Biomedical Spectroscopy and Imaging</i> , 2014 , 3, 197-202	1.3	2

25	Raman spectroscopy as a tool for the identification and differentiation of neoplasias contained within lymph nodes of the head and neck 2010 ,		2
24	Raman spectroscopic biochemical mapping of tissues 2006 ,		2
23	Standardizing dosimetry in esophageal PDT: an argument for use of centering devices and removal of misleading units. <i>Technology in Cancer Research and Treatment</i> , 2003 , 2, 333-8	2.7	2
22	Urological applications of Raman spectroscopy for improved malignant diagnostics 2004 , 5321, 57		2
21	Rapid Raman microscopic imaging for potential histological screening 2008 ,		2
20	Endoscopic screening and surveillance for Barrett's esophagus--clinical implications. <i>MedGenMed: Medscape General Medicine</i> , 2006 , 8, 88		2
19	Single Cell Label-Free Probing of Chromatin Dynamics During B Lymphocyte Maturation. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 646616	5.7	2
18	Multiphoton imaging and Raman spectroscopy of the bovine vertebral endplate. <i>Analyst, The</i> , 2021 , 146, 4242-4253	5	2
17	Stained and infrared image registration as first step for cancer detection 2014 ,		1
16	Screening cervical and oesophageal tissues using optical coherence tomography 2011 ,		1
15	Optimizing penetration depth, contrast, and resolution in 3D dermatologic OCT 2010 ,		1
14	Current practice in management of high-grade dysplasia in Barrett's oesophagus: the real problem. <i>Photodiagnosis and Photodynamic Therapy</i> , 2008 , 5, 38-41	3.5	1
13	Endoscopic photodynamic therapy for oesophageal disease. <i>Photodiagnosis and Photodynamic Therapy</i> , 2006 , 3, 102-5	3.5	1
12	Surface-enhanced Raman scattering of the tear film 2003 ,		1
11	Raman spectral mapping for the illumination of biochemical changes associated with malignancy in the oesophagus 2003 ,		1
10	Near-infrared Raman spectroscopy for detection and classification of gastrointestinal disease 2002 ,		1
9	Prediction of Upstaging in Ductal Carcinoma in Situ Based on Mammographic Radiomic Features.. <i>Radiology</i> , 2022 , 210407	20.5	1
8	Long wavelength identification of microcalcifications in breast cancer tissue using a quantum cascade laser and upconversion detection 2018 ,		1

7	A time-course Raman spectroscopic analysis of spontaneous in vitro microcalcifications in a breast cancer cell line. <i>Laboratory Investigation</i> , 2021 , 101, 1267-1280	5.9	1
6	Predicting the Refractive Index of Tissue Models Using Light Scattering Spectroscopy. <i>Applied Spectroscopy</i> , 2021 , 75, 574-580	3.1	1
5	Molecular Endospectroscopic Approaches 2014 , 179-214		0
4	An experimental and numerical modelling investigation of the optical properties of Intralipid using deep Raman spectroscopy. <i>Analyst, The</i> , 2021 , 146, 7601-7610	5	0
3	Vibrational spectroscopic analysis of breast calcifications and surrounding tissue 2006 , 6093, 221		
2	Optimum procedure for construction of spectral classification algorithms for medical diagnosis 2002 , 4614, 152		
1	Infrared Spectroscopic Analysis in the Differentiation of Epithelial Misplacement From Adenocarcinoma in Sigmoid Colonic Adenomatous Polyps.. <i>BMC Clinical Pathology</i> , 2022 , 15, 2632010X221088960		1,3