

# Hugh J. Byrne

## List of Publications by Year in Descending Order

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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.

353  
papers

11,817  
citations

56  
h-index

93  
g-index

416  
ext. papers

13,249  
ext. citations

4.5  
avg, IF

6.4  
L-index

#	Paper	IF	Citations
353	Classification of cytological samples from oral potentially malignant lesions through Raman spectroscopy: A pilot study. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2022</b> , 266, 120437	4.4	0
352	Limits of Detection of Mycotoxins by Laminar Flow Strips: A Review. <i>Applied Nano</i> , <b>2022</b> , 3, 91-101	1	2
351	Contributions of Vibrational Spectroscopy to Virology: A Review. <i>Clinical Spectroscopy</i> , <b>2022</b> , 100022	16	1
350	ATR-Spin: an open-source 3D printed device for direct cytocentrifugation onto attenuated total reflectance crystals. <i>Lab on A Chip</i> , <b>2021</b> , 21, 4743-4748	7.2	
349	In vitro toxicological evaluation of mesoporous silica microparticles functionalised with carvacrol and thymol.. <i>Food and Chemical Toxicology</i> , <b>2021</b> , 160, 112778	4.7	1
348	Exploiting fourier transform infrared and Raman microspectroscopies on cancer stem cells from oral squamous cells carcinoma: new evidence of acquired cisplatin chemoresistance. <i>Analyst, The</i> , <b>2021</b> , 145, 8038-8049	5	12
347	Vibrational spectroscopy for discrimination and quantification of clinical chemotherapeutic preparations. <i>Vibrational Spectroscopy</i> , <b>2021</b> , 113, 103200	2.1	1
346	Biochemical impact of solar radiation exposure on human keratinocytes monitored by Raman spectroscopy; effects of cell culture environment. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202100058	3.1	
345	Raman spectroscopic characterisation of non stimulated and stimulated human whole saliva. <i>Clinical Spectroscopy</i> , <b>2021</b> , 3, 100010	16	1
344	Biomedical applications of vibrational spectroscopy: Oral cancer diagnostics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 252, 119470	4.4	11
343	Raman spectral cytopathology for cancer diagnostic applications. <i>Nature Protocols</i> , <b>2021</b> , 16, 3716-3735	18.8	6
342	The potential of FT-IR spectroscopy for improving healthcare in sepsis - An animal model study. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2021</b> , 34, 102312	3.5	
341	Comparison of Raman and attenuated total reflectance (ATR) infrared spectroscopy for water quantification in natural deep eutectic solvent. <i>Analytical and Bioanalytical Chemistry</i> , <b>2021</b> , 413, 4785-4799	4.4	1
340	In situ Analytical Quality Control of chemotherapeutic solutions in infusion bags by Raman spectroscopy. <i>Talanta</i> , <b>2021</b> , 228, 122137	6.2	1
339	Understanding the discrimination and quantification of monoclonal antibodies preparations using Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2021</b> , 194, 113734	3.5	2
338	Label-free screening of biochemical changes in macrophage-like cells following MoS exposure using Raman micro-spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 246, 118916	4.4	3
337	Identification of Aspergillus species in human blood plasma by infrared spectroscopy and machine learning. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2021</b> , 248, 119259	4.4	5

336	Monitoring the biochemical changes occurring to human keratinocytes exposed to solar radiation by Raman spectroscopy. <i>Journal of Biophotonics</i> , <b>2021</b> , 14, e202000337	3.1	1
335	Monitoring stem cell differentiation using Raman microspectroscopy: chondrogenic differentiation, towards cartilage formation. <i>Analyst, The</i> , <b>2021</b> , 146, 322-337	5	1
334	The Potential of Raman Spectroscopy in the Diagnosis of Dysplastic and Malignant Oral Lesions. <i>Cancers</i> , <b>2021</b> , 13,	6.6	3
333	Diagnostics of a large volume pin-to-plate atmospheric plasma source for the study of plasma species interactions with cancer cell cultures. <i>Plasma Processes and Polymers</i> , <b>2021</b> , 18, 2000250	3.4	3
332	Cytotoxic Effects of 5-Azacytidine on Primary Tumour Cells and Cancer Stem Cells from Oral Squamous Cell Carcinoma: An In Vitro FTIRM Analysis. <i>Cells</i> , <b>2021</b> , 10,	7.9	4
331	From bench to worktop: Rapid evaluation of nutritional parameters in liquid foodstuffs by IR spectroscopy. <i>Food Chemistry</i> , <b>2021</b> , 365, 130442	8.5	0
330	Reusable and highly sensitive SERS immunoassay utilizing gold nanostars and a cellulose hydrogel-based platform. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 7516-7529	7.3	5
329	Multiplexed Fourier Transform Infrared and Raman Imaging. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2350, 299-312	1.4	
328	Vibrational Spectroscopy for In Vitro Monitoring Stem Cell Differentiation. <i>Molecules</i> , <b>2020</b> , 25,	4.8	2
327	Label Free Raman Microspectroscopic Analysis to Monitor the Uptake, Fate and Impacts of Nanoparticle Based Materials. <i>Frontiers in Bioengineering and Biotechnology</i> , <b>2020</b> , 8, 544311	5.8	4
326	Vibrational spectroscopic analysis and quantification of proteins in human blood plasma and serum <b>2020</b> , 269-314		2
325	European Conference on the Spectroscopy of Biological Molecules—Dublin 2019. <i>Biomedical Spectroscopy and Imaging</i> , <b>2020</b> , 9, 1-4	1.3	
324	Quantitative analysis of human blood serum using vibrational spectroscopy. <i>Clinical Spectroscopy</i> , <b>2020</b> , 2, 100004	16	19
323	ATR-IR spectroscopy for rapid quantification of water content in deep eutectic solvents. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 311, 113361	6	10
322	Raman microspectroscopic study for the detection of oral field cancerisation using brush biopsy samples. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000131	3.1	4
321	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 4053-4064	7.8	25
320	Can ethanol affect the cell structure? A dynamic molecular and Raman spectroscopy study. <i>Photodiagnosis and Photodynamic Therapy</i> , <b>2020</b> , 30, 101675	3.5	1
319	Cold Atmospheric Plasma Stimulates Clathrin-Dependent Endocytosis to Repair Oxidised Membrane and Enhance Uptake of Nanomaterial in Glioblastoma Multiforme Cells. <i>Scientific Reports</i> , <b>2020</b> , 10, 6985	4.9	9

318	Comparative study of oral dysplasia by conventional and surface enhanced Raman spectroscopy of whole saliva <b>2020</b> ,		2
317	Potential of Raman spectroscopy for the analysis of plasma/serum in the liquid state: recent advances. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 1993-2007	4.4	20
316	In vitro localisation and degradation of few-layer MoS <sub>2</sub> submicrometric plates in human macrophage-like cells: a label free Raman micro-spectroscopic study. <i>2D Materials</i> , <b>2020</b> , 7, 025003	5.9	8
315	Quantification of low-content encapsulated active cosmetic ingredients in complex semi-solid formulations by means of attenuated total reflectance-infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2020</b> , 412, 159-169	4.4	1
314	Raman mapping coupled to self-modelling MCR-ALS analysis to estimate active cosmetic ingredient penetration profile in skin. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000136	3.1	3
313	A pilot study for early detection of oral premalignant diseases using oral cytology and Raman micro-spectroscopy: Assessment of confounding factors. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000079	3.1	6
312	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 15745-15756	7.8	22
311	Multimodal vibrational studies of drug uptake in vitro: Is the whole greater than the sum of their parts?. <i>Journal of Biophotonics</i> , <b>2020</b> , 13, e202000264	3.1	2
310	Data mining Raman microspectroscopic responses of cells to drugs in vitro using multivariate curve resolution-alternating least squares. <i>Talanta</i> , <b>2020</b> , 208, 120386	6.2	5
309	Self-cleaning hydrophobic nanocoating on glass: A scalable manufacturing process. <i>Materials Chemistry and Physics</i> , <b>2020</b> , 239, 122000	4.4	22
308	Raman spectroscopy of blood plasma samples from breast cancer patients at different stages. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 222, 117210	4.4	33
307	Exploring subcellular responses of prostate cancer cells to X-ray exposure by Raman mapping. <i>Scientific Reports</i> , <b>2019</b> , 9, 8715	4.9	13
306	Raman spectroscopic screening of high and low molecular weight fractions of human serum. <i>Analyst, The</i> , <b>2019</b> , 144, 4295-4311	5	19
305	Principal components analysis of Raman spectral data for screening of Hepatitis C infection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 221, 117173	4.4	22
304	Numerically modelling time and dose dependent cytotoxicity. <i>Computational Toxicology</i> , <b>2019</b> , 12, 100090	3.1	5
303	A novel, rapid, seedless, in situ synthesis method of shape and size controllable gold nanoparticles using phosphates. <i>Scientific Reports</i> , <b>2019</b> , 9, 7421	4.9	6
302	Qualitative and quantitative analysis of therapeutic solutions using Raman and infrared spectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 218, 97-108	4.4	16
301	Analysis of bodily fluids using vibrational spectroscopy: a direct comparison of Raman scattering and infrared absorption techniques for the case of glucose in blood serum. <i>Analyst, The</i> , <b>2019</b> , 144, 3334-3346	5.3	17

300	Nutraceutical formulation, characterisation, and in-vitro evaluation of methylselenocysteine and selenocystine using food derived chitosan:zein nanoparticles. <i>Food Research International</i> , <b>2019</b> , 120, 295-304	7	9
299	Raman spectroscopy as a potential tool for label free therapeutic drug monitoring in human serum: the case of busulfan and methotrexate. <i>Analyst, The</i> , <b>2019</b> , 144, 5207-5214	5	16
298	On the use of vibrational spectroscopy and scanning electron microscopy to study phenolic extractability of cooperage byproducts in wine. <i>European Food Research and Technology</i> , <b>2019</b> , 245, 2209-2220 <sup>1</sup>	3.4	1
297	Design and Simple Assembly of Gold Nanostar Bioconjugates for Surface-Enhanced Raman Spectroscopy Immunoassays. <i>Nanomaterials</i> , <b>2019</b> , 9,	5.4	11
296	Large expert-curated database for benchmarking document similarity detection in biomedical literature search. <i>Database: the Journal of Biological Databases and Curation</i> , <b>2019</b> , 2019,	5	4
295	Improved performance of near infrared excitation Raman spectroscopy using reflective thin-film gold on glass substrates for cytology samples. <i>Analytical Methods</i> , <b>2019</b> , 11, 6023-6032	3.2	2
294	Developing Gold Nanoparticles-Conjugated Aflatoxin B1 Antifungal Strips. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	11
293	Raman spectroscopic analysis of saliva for the diagnosis of oral cancer: A systematic review. <i>Translational Biophotonics</i> , <b>2019</b> , 1, e201900001	2.2	10
292	Two-dimensional correlation analysis of Raman microspectroscopy of subcellular interactions of drugs in vitro. <i>Journal of Biophotonics</i> , <b>2019</b> , 12, e201800328	3.1	8
291	Vibrational characterization of granulosa cells from patients affected by unilateral ovarian endometriosis: New insights from infrared and Raman microspectroscopy. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2019</b> , 212, 206-214	4.4	21
290	Graphene Nanoflake Uptake Mediated by Scavenger Receptors. <i>Nano Letters</i> , <b>2019</b> , 19, 1260-1268	11.5	26
289	Combination Strategies for Targeted Delivery of Nanoparticles for Cancer Therapy <b>2019</b> , 191-219		5
288	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. <i>Analyst, The</i> , <b>2018</b> , 143, 1735-1757	5	114
287	Raman spectral analysis for rapid screening of dengue infection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2018</b> , 200, 136-142	4.4	39
286	Toxicological assessment of nanomaterials: the role of in vitro Raman microspectroscopic analysis. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 1631-1646	4.4	16
285	Confocal Raman spectroscopic imaging for in vitro monitoring of active ingredient penetration and distribution in reconstructed human epidermis model. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700221	3.1	12
284	ATR-IR coupled to partial least squares regression (PLSR) for monitoring an encapsulated active molecule in complex semi-solid formulations. <i>Analyst, The</i> , <b>2018</b> , 143, 2377-2389	5	2
283	Cold Atmospheric Plasma Induces ATP-Dependent Endocytosis of Nanoparticles and Synergistic U373MG Cancer Cell Death. <i>Scientific Reports</i> , <b>2018</b> , 8, 5298	4.9	35

282	Doxorubicin kinetics and effects on lung cancer cell lines using in vitro Raman micro-spectroscopy: binding signatures, drug resistance and DNA repair. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700060	3.1	23
281	An in vitro study of the interaction of the chemotherapeutic drug Actinomycin D with lung cancer cell lines using Raman micro-spectroscopy. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700112	3.1	12
280	In vitro label-free screening of chemotherapeutic drugs using Raman microspectroscopy: Towards a new paradigm of spectralomics. <i>Journal of Biophotonics</i> , <b>2018</b> , 11, e201700258	3.1	16
279	Toxicology of Engineered Nanoparticles: Focus on Poly(amidoamine) Dendrimers. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	39
278	Investigating the Role of Gold Nanoparticle Shape and Size in Their Toxicities to Fungi. <i>International Journal of Environmental Research and Public Health</i> , <b>2018</b> , 15,	4.6	13
277	Comparative studies of cellular viability levels on 2D and 3D in vitro culture matrices. <i>Cytotechnology</i> , <b>2018</b> , 70, 261-273	2.2	13
276	Application of Box-Behnken experimental design for the formulation and optimisation of selenomethionine-loaded chitosan nanoparticles coated with zein for oral delivery. <i>International Journal of Pharmaceutics</i> , <b>2018</b> , 551, 257-269	6.5	18
275	Advancing Raman microspectroscopy for cellular and subcellular analysis: towards in vitro high-content spectralomic analysis. <i>Applied Optics</i> , <b>2018</b> , 57, E11-E19	1.7	15
274	Multicomponent analysis using a confocal Raman microscope. <i>Applied Optics</i> , <b>2018</b> , 57, E118-E130	1.7	2
273	Label-free discrimination analysis of de-differentiated vascular smooth muscle cells, mesenchymal stem cells and their vascular and osteogenic progeny using vibrational spectroscopy. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2018</b> , 1865, 343-353	4.9	7
272	Raman spectroscopic analysis of high molecular weight proteins in solution - considerations for sample analysis and data pre-processing. <i>Analyst, The</i> , <b>2018</b> , 143, 5987-5998	5	19
271	Raman spectroscopy detects biochemical changes due to different cell culture environments in live cells in vitro. <i>Analytical and Bioanalytical Chemistry</i> , <b>2018</b> , 410, 7537-7550	4.4	6
270	Enabling quantification of protein concentration in human serum biopsies using attenuated total reflectance Fourier transform infrared (ATR-FTIR) spectroscopy. <i>Vibrational Spectroscopy</i> , <b>2018</b> , 99, 50-58	2.1	25
269	pH-Dependent silica nanoparticle dissolution and cargo release. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2018</b> , 169, 242-248	6	20
268	Reactive oxygen species and nitric oxide signaling in bystander cells. <i>PLoS ONE</i> , <b>2018</b> , 13, e0195371	3.7	22
267	Differentiating responses of lung cancer cell lines to Doxorubicin exposure: in vitro Raman micro spectroscopy, oxidative stress and bcl-2 protein expression. <i>Journal of Biophotonics</i> , <b>2017</b> , 10, 151-165	3.1	29
266	Development of methodology for Raman microspectroscopic analysis of oral exfoliated cells. <i>Analytical Methods</i> , <b>2017</b> , 9, 937-948	3.2	14
265	Linking ATR-FTIR and Raman features to phenolic extractability and other attributes in grape skin. <i>Talanta</i> , <b>2017</b> , 167, 44-50	6.2	29

264	Study of phenolic extractability in grape seeds by means of ATR-FTIR and Raman spectroscopy. <i>Food Chemistry</i> , <b>2017</b> , 232, 602-609	8.5	45
263	Retention systems for extraoral maxillofacial prosthetic implants: a critical review. <i>British Journal of Oral and Maxillofacial Surgery</i> , <b>2017</b> , 55, 763-769	1.4	14
262	Prediction of viral loads for diagnosis of Hepatitis C infection in human plasma samples using Raman spectroscopy coupled with partial least squares regression analysis. <i>Journal of Raman Spectroscopy</i> , <b>2017</b> , 48, 697-704	2.3	39
261	Industrial grade 2D molybdenum disulphide (MoS <sub>2</sub> ): an in vitro exploration of the impact on cellular uptake, cytotoxicity, and inflammation. <i>2D Materials</i> , <b>2017</b> , 4, 025065	5.9	36
260	Ultra-filtration of human serum for improved quantitative analysis of low molecular weight biomarkers using ATR-IR spectroscopy. <i>Analyst, The</i> , <b>2017</b> , 142, 1285-1298	5	40
259	How Adverse Outcome Pathways Can Aid the Development and Use of Computational Prediction Models for Regulatory Toxicology. <i>Toxicological Sciences</i> , <b>2017</b> , 155, 326-336	4.4	105
258	Pristine carbon nanotube scaffolds for the growth of chondrocytes. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8178-8182	7.3	9
257	Determination of spectral markers of cytotoxicity and genotoxicity using in vitro Raman microspectroscopy: cellular responses to polyamidoamine dendrimer exposure. <i>Analyst, The</i> , <b>2017</b> , 142, 3848-3856	5	10
256	An insight into the superior performance of a gold nanocatalyst on single wall carbon nanotubes to that on titanium dioxide and amorphous carbon for the green aerobic oxidation of aromatic alcohols. <i>New Carbon Materials</i> , <b>2017</b> , 32, 242-251	4.4	6
255	Formulation, Characterization and Stability Assessment of a Food-Derived Tripeptide, Leucine-Lysine-Proline Loaded Chitosan Nanoparticles. <i>Journal of Food Science</i> , <b>2017</b> , 82, 2094-2104	3.4	5
254	Label-free, high content screening using Raman microspectroscopy: the toxicological response of different cell lines to amine-modified polystyrene nanoparticles (PS-NH). <i>Analyst, The</i> , <b>2017</b> , 142, 3500-3513	5.1	11
253	Raman spectroscopic analysis of oral cells in the high wavenumber region. <i>Experimental and Molecular Pathology</i> , <b>2017</b> , 103, 255-262	4.4	12
252	A Natural, Calcium-Rich Marine Multi-mineral Complex Preserves Bone Structure, Composition and Strength in an Ovariectomised Rat Model of Osteoporosis. <i>Calcified Tissue International</i> , <b>2017</b> , 101, 445-455	3.9	10
251	Comparative study of the structural and physicochemical properties of two food derived antihypertensive tri-peptides, Isoleucine-Proline-Proline and Leucine-Lysine-Proline encapsulated into a chitosan based nanoparticle system. <i>Innovative Food Science and Emerging Technologies</i> , <b>2017</b> , 44, 133-146	6.8	12
250	Effects of Self-directed Exercise Programmes on Individuals with Type 2 Diabetes Mellitus: A Systematic Review Evaluating Their Effect on HbA <sub>1c</sub> and Other Metabolic Outcomes, Physical Characteristics, Cardiorespiratory Fitness and Functional Outcomes. <i>Sports Medicine</i> , <b>2017</b> , 47, 717-733	10.6	19
249	Vibrational spectroscopy as a tool for studying drug-cell interaction: Could high throughput vibrational spectroscopic screening improve drug development?. <i>Vibrational Spectroscopy</i> , <b>2017</b> , 91, 16-30 <sup>1</sup>	2.1	35
248	Monitoring doxorubicin cellular uptake and trafficking using in vitro Raman microspectroscopy: short and long time exposure effects on lung cancer cell lines. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 1333-1346	4.4	40
247	Nutrition—Nutrient delivery <b>2017</b> , 1-42		4

246	Quantitative analysis of curcumin-loaded alginate nanocarriers in hydrogels using Raman and attenuated total reflection infrared spectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 4593-4605 <sup>11</sup>	4.4	11
245	Plasmonic gold nanoparticles for detection of fungi and human cutaneous fungal infections. <i>Analytical and Bioanalytical Chemistry</i> , <b>2017</b> , 409, 4647-4658	4.4	24
244	Improved protocols for pre-processing Raman spectra of formalin fixed paraffin preserved tissue sections. <i>Analytical Methods</i> , <b>2017</b> , 9, 4709-4717	3.2	17
243	Spectral pre and post processing for infrared and Raman spectroscopy of biological tissues and cells. <i>Chemical Society Reviews</i> , <b>2016</b> , 45, 1865-78	58.5	102
242	Recent advances in optical diagnosis of oral cancers: Review and future perspectives. <i>Head and Neck</i> , <b>2016</b> , 38 Suppl 1, E2403-11	4.2	22
241	Biofluids and other techniques: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 187, 575-601	3.6	10
240	A comparison of catabolic pathways induced in primary macrophages by pristine single walled carbon nanotubes and pristine graphene. <i>RSC Advances</i> , <b>2016</b> , 6, 65299-65310	3.7	12
239	Evaluation of cytotoxicity profile and intracellular localisation of doxorubicin-loaded chitosan nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 5443-55	4.4	20
238	Single cell analysis/data handling: general discussion. <i>Faraday Discussions</i> , <b>2016</b> , 187, 299-327	3.6	4
237	Spectroscopic studies of anthracyclines: Structural characterization and in vitro tracking. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2016</b> , 169, 152-60	4.4	22
236	Chemotherapeutic efficiency of drugs in vitro: Comparison of doxorubicin exposure in 3D and 2D culture matrices. <i>Toxicology in Vitro</i> , <b>2016</b> , 33, 99-104	3.6	22
235	Raman spectroscopy for cytopathology of exfoliated cervical cells. <i>Faraday Discussions</i> , <b>2016</b> , 187, 187-98.6	3.6	30
234	Acellular reactivity of polymeric dendrimer nanoparticles as an indicator of oxidative stress in vitro. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 695-703	4.4	2
233	Structural dependence of in vitro cytotoxicity, oxidative stress and uptake mechanisms of poly(propylene imine) dendritic nanoparticles. <i>Journal of Applied Toxicology</i> , <b>2016</b> , 36, 464-73	4.1	14
232	In vitro monitoring of time and dose dependent cytotoxicity of aminated nanoparticles using Raman spectroscopy. <i>Analyst, The</i> , <b>2016</b> , 141, 5417-31	5	21
231	Vibrational spectroscopy in sensing radiobiological effects: analyses of targeted and non-targeted effects in human keratinocytes. <i>Faraday Discussions</i> , <b>2016</b> , 187, 213-34	3.6	34
230	Modification of the in vitro uptake mechanism and antioxidant levels in HaCaT cells and resultant changes to toxicity and oxidative stress of G4 and G6 poly(amidoamine) dendrimer nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 5295-307	4.4	13
229	Screening the low molecular weight fraction of human serum using ATR-IR spectroscopy. <i>Journal of Biophotonics</i> , <b>2016</b> , 9, 1085-1097	3.1	34



228	Cellular discrimination using in vitro Raman micro spectroscopy: the role of the nucleolus. <i>Analyst, The</i> , <b>2015</b> , 140, 5908-19	5	34
227	Raman spectroscopic analysis of oral squamous cell carcinoma and oral dysplasia in the high-wavenumber region <b>2015</b> ,		1
226	Raman micro spectroscopy for in vitro drug screening: subcellular localisation and interactions of doxorubicin. <i>Analyst, The</i> , <b>2015</b> , 140, 4212-23	5	60
225	Determination of nanoparticle localisation within subcellular organelles in vitro using Raman spectroscopy. <i>Analytical Methods</i> , <b>2015</b> , 7, 10000-10017	3.2	20
224	Raman spectroscopy for screening and diagnosis of cervical cancer. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 8279-89	4.4	59
223	Investigating the role of shape on the biological impact of gold nanoparticles in vitro. <i>Nanomedicine</i> , <b>2015</b> , 10, 2643-57	5.6	24
222	Multivariate statistical methodologies applied in biomedical Raman spectroscopy: assessing the validity of partial least squares regression using simulated model datasets. <i>Analyst, The</i> , <b>2015</b> , 140, 2482-2492	5.92	27
221	Cell viability assessment using the Alamar blue assay: a comparison of 2D and 3D cell culture models. <i>Toxicology in Vitro</i> , <b>2015</b> , 29, 124-31	3.6	119
220	Dual targeted immunotherapy via delivery of biohybrid RNAi-peptide nanoparticles to tumour-associated macrophages and cancer cells. <i>Advanced Functional Materials</i> , <b>2015</b> , 25, 4183-4194	15.6	153
219	Vibrational Microspectroscopy for Cancer Screening. <i>Applied Sciences (Switzerland)</i> , <b>2015</b> , 5, 23-35	2.6	22
218	Optimal choice of sample substrate and laser wavelength for Raman spectroscopic analysis of biological specimen. <i>Analytical Methods</i> , <b>2015</b> , 7, 5041-5052	3.2	66
217	Raman micro-spectroscopy for rapid screening of oral squamous cell carcinoma. <i>Experimental and Molecular Pathology</i> , <b>2015</b> , 98, 502-9	4.4	40
216	Exosomes are involved in mediating radiation induced bystander signaling in human keratinocyte cells. <i>Radiation Research</i> , <b>2014</b> , 181, 138-45	3.1	117
215	Comparison of structure and organization of cutaneous lipids in a reconstructed skin model and human skin: spectroscopic imaging and chromatographic profiling. <i>Experimental Dermatology</i> , <b>2014</b> , 23, 441-3	4	26
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45	Structure and properties of thermally annealed fullerene films. <i>Chemical Physics Letters</i> , <b>1995</b> , 233, 436-443	4.3	16
44	A Raman analysis of C60 at low temperatures: a study of molecular and crystal-field effects. <i>Chemical Physics</i> , <b>1995</b> , 192, 307-317	2.3	15
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30	A Molecular Switch Involving Large Conformational Changes. A Theoretical Study. <i>Molecular Crystals and Liquid Crystals</i> , <b>1993</b> , 234, 89-96		7
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1	Low dose Cold Atmospheric Plasma induces membrane oxidation, stimulates endocytosis and enhances uptake of nanomaterials in Glioblastoma multiforme cells		1