Hugh J. Byrne

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 416
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 6.4

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 ext. citations
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#	Paper	IF	Citations
353	In vitro toxicity evaluation of single walled carbon nanotubes on human A549 lung cells. <i>Toxicology in Vitro</i> , 2007 , 21, 438-48	3.6	358
352	Resonant Mie scattering (RMieS) correction of infrared spectra from highly scattering biological samples. <i>Analyst, The</i> , 2010 , 135, 268-77	5	283
351	Spectroscopic analysis confirms the interactions between single walled carbon nanotubes and various dyes commonly used to assess cytotoxicity. <i>Carbon</i> , 2007 , 45, 1425-1432	10.4	250
350	Reverse saturable absorption in tetraphenylporphyrins. <i>Optics Communications</i> , 1985 , 56, 25-29	2	246
349	Resonant Mie scattering in infrared spectroscopy of biological materialsunderstanding the 'dispersion artefact'. <i>Analyst, The</i> , 2009 , 134, 1586-93	5	242
348	Selective Interaction of a Semiconjugated Organic Polymer with Single-Wall Nanotubes. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 10012-10016	3.4	234
347	Large infrared nonlinear optical response of C60. <i>Physical Review Letters</i> , 1991 , 67, 1423-1425	7.4	221
346	A new approach to the toxicity testing of carbon-based nanomaterialsthe clonogenic assay. <i>Toxicology Letters</i> , 2007 , 174, 49-60	4.4	207
345	A Microscopic and Spectroscopic Study of Interactions between Carbon Nanotubes and a Conjugated Polymer. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 2210-2216	3.4	204
344	Vibrational spectroscopy for cervical cancer pathology, from biochemical analysis to diagnostic tool. <i>Experimental and Molecular Pathology</i> , 2007 , 82, 121-9	4.4	183
343	Surface enhanced Raman scattering with gold nanoparticles: effect of particle shape. <i>Analytical Methods</i> , 2014 , 6, 9116-9123	3.2	174
342	Reactive oxygen species (ROS) induced cytokine production and cytotoxicity of PAMAM dendrimers in J774A.1 cells. <i>Toxicology and Applied Pharmacology</i> , 2010 , 246, 91-9	4.6	166
341	Dual targeted immunotherapy via delivery of biohybrid RNAi-peptide nanoparticles to tumour-associated macrophages and cancer cells. <i>Advanced Functional Materials</i> , 2015 , 25, 4183-4194	15.6	153
340	A study examining the effects of tissue processing on human tissue sections using vibrational spectroscopy. <i>Vibrational Spectroscopy</i> , 2005 , 38, 121-127	2.1	151
339	Single walled carbon nanotubes induce indirect cytotoxicity by medium depletion in A549 lung cells. <i>Toxicology Letters</i> , 2008 , 179, 78-84	4.4	147
338	Understanding the molecular information contained in principal component analysis of vibrational spectra of biological systems. <i>Analyst, The</i> , 2012 , 137, 322-32	5	141
337	Ultrasound-Assisted SWNTs Dispersion: Effects of Sonication Parameters and Solvent Properties. Journal of Physical Chemistry C, 2010 , 114, 8821-8827	3.8	136

(1991-2013)

336	Ecotoxicological assessment of silica and polystyrene nanoparticles assessed by a multitrophic test battery. <i>Environment International</i> , 2013 , 51, 97-105	12.9	133	
335	Minimal analytical characterization of engineered nanomaterials needed for hazard assessment in biological matrices. <i>Nanotoxicology</i> , 2011 , 5, 1-11	5.3	126	
334	Mechanistic studies of in vitro cytotoxicity of poly(amidoamine) dendrimers in mammalian cells. <i>Toxicology and Applied Pharmacology</i> , 2010 , 248, 259-68	4.6	125	
333	Cell viability assessment using the Alamar blue assay: a comparison of 2D and 3D cell culture models. <i>Toxicology in Vitro</i> , 2015 , 29, 124-31	3.6	119	
332	In vitro mammalian cytotoxicological study of PAMAM dendrimers - towards quantitative structure activity relationships. <i>Toxicology in Vitro</i> , 2010 , 24, 169-77	3.6	119	
331	Comprehensive analysis of intermolecular charge-transfer excited states in C60 and C70 films. <i>Physical Review B</i> , 1998 , 58, 7689-7700	3.3	118	
330	Exosomes are involved in mediating radiation induced bystander signaling in human keratinocyte cells. <i>Radiation Research</i> , 2014 , 181, 138-45	3.1	117	
329	Clinical applications of infrared and Raman spectroscopy: state of play and future challenges. <i>Analyst, The</i> , 2018 , 143, 1735-1757	5	114	
328	Concern-driven integrated approaches to nanomaterial testing and assessmentreport of the NanoSafety Cluster Working Group 10. <i>Nanotoxicology</i> , 2014 , 8, 334-48	5.3	111	
327	Reflection contributions to the dispersion artefact in FTIR spectra of single biological cells. <i>Analyst, The</i> , 2009 , 134, 1171-5	5	109	
326	Raman spectroscopic evaluation of efficacy of current paraffin wax section dewaxing agents. <i>Journal of Histochemistry and Cytochemistry</i> , 2005 , 53, 121-9	3.4	107	
325	How Adverse Outcome Pathways Can Aid the Development and Use of Computational Prediction Models for Regulatory Toxicology. <i>Toxicological Sciences</i> , 2017 , 155, 326-336	4.4	105	
324	Probing the interaction of single walled carbon nanotubes within cell culture medium as a precursor to toxicity testing. <i>Carbon</i> , 2007 , 45, 34-40	10.4	103	
323	Characterization of the Interaction of Gamma Cyclodextrin with Single-Walled Carbon Nanotubes. <i>Nano Letters</i> , 2003 , 3, 843-846	11.5	103	
322	Spectral pre and post processing for infrared and Raman spectroscopy of biological tissues and cells. <i>Chemical Society Reviews</i> , 2016 , 45, 1865-78	58.5	102	
321	Studies of chemical fixation effects in human cell lines using Raman microspectroscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2010 , 396, 1781-91	4.4	95	
320	Evaluation of the potential of Raman microspectroscopy for prediction of chemotherapeutic response to cisplatin in lung adenocarcinoma. <i>Analyst, The,</i> 2010 , 135, 3070-6	5	93	
319	Non-linear optical properties of Group 10 metal alkynyls and their polymers. <i>Journal of Materials Chemistry</i> , 1991 , 1, 245		89	

318	Growth substrate induced functional changes elucidated by FTIR and Raman spectroscopy in in-vitro cultured human keratinocytes. <i>Analytical and Bioanalytical Chemistry</i> , 2007 , 387, 1717-28	4.4	88
317	Experimental observation of individual single-wall nanotube species by Raman microscopy. <i>Chemical Physics Letters</i> , 1999 , 310, 8-14	2.5	84
316	SWCNT suppress inflammatory mediator responses in human lung epithelium in vitro. <i>Toxicology and Applied Pharmacology</i> , 2009 , 234, 378-90	4.6	83
315	Dispersion medium modulates oxidative stress response of human lung epithelial cells upon exposure to carbon nanomaterial samples. <i>Toxicology and Applied Pharmacology</i> , 2009 , 236, 276-81	4.6	83
314	Carbon-nanotube nucleated crystallinity in a conjugated polymer based composite. <i>Chemical Physics Letters</i> , 2004 , 391, 329-333	2.5	81
313	Evolution and evaluation of the polymer/nanotube composite. <i>Synthetic Metals</i> , 1999 , 103, 2559-2562	3.6	80
312	Investigation of Sodium Dodecyl Benzene Sulfonate Assisted Dispersion and Debundling of Single-Wall Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 332-337	3.8	77
311	Polyamidoamine dendrimer nanoparticle cytotoxicity, oxidative stress, caspase activation and inflammatory response: experimental observation and numerical simulation. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2013 , 9, 202-11	6	74
310	The characterisation of a novel, covalently modified, amphiphilic alginate derivative, which retains gelling and non-toxic properties. <i>Journal of Colloid and Interface Science</i> , 2006 , 298, 154-61	9.3	74
309	Chromatography of carbon nanotubes. <i>Synthetic Metals</i> , 1999 , 103, 2484-2485	3.6	74
308	Improved protocols for vibrational spectroscopic analysis of body fluids. <i>Journal of Biophotonics</i> , 2014 , 7, 167-79	3.1	73
307	Solubilization of SWNTs with Organic Dye Molecules. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 18860-	1 <u>8</u> .865	72
306	Intracellular localisation, geno- and cytotoxic response of polyN-isopropylacrylamide (PNIPAM) nanoparticles to human keratinocyte (HaCaT) and colon cells (SW 480). <i>Toxicology Letters</i> , 2010 , 198, 134-43	4.4	71
305	Optimal choice of sample substrate and laser wavelength for Raman spectroscopic analysis of biological specimen. <i>Analytical Methods</i> , 2015 , 7, 5041-5052	3.2	66
304	Identifying and localizing intracellular nanoparticles using Raman spectroscopy. <i>Analyst, The</i> , 2012 , 137, 1111-9	5	66
303	Raman micro spectroscopy for in vitro drug screening: subcellular localisation and interactions of doxorubicin. <i>Analyst, The</i> , 2015 , 140, 4212-23	5	60
302	Raman spectroscopy for screening and diagnosis of cervical cancer. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 8279-89	4.4	59
301	Comparison of subcellular responses for the evaluation and prediction of the chemotherapeutic response to cisplatin in lung adenocarcinoma using Raman spectroscopy. <i>Analyst, The</i> , 2011 , 136, 2450-	6 3	57

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300	Three-photon enhanced optical nonlinearity of poly(3-butylthiophene). Synthetic Metals, 1989, 32, 229-	23.5	56
299	Picosecond optical phase conjugation using conjugated organic molecules. <i>Chemical Physics</i> , 1988 , 121, 21-39	2.3	56
298	An ecotoxicological study of poly(amidoamine) dendrimers-toward quantitative structure activity relationships. <i>Environmental Science & Environmental </i>	10.3	54
297	Generation of intracellular reactive oxygen species and genotoxicity effect to exposure of nanosized polyamidoamine (PAMAM) dendrimers in PLHC-1 cells in vitro. <i>Aquatic Toxicology</i> , 2013 , 132-133, 61-72	5.1	53
296	Imaging live cells grown on a three dimensional collagen matrix using Raman microspectroscopy. <i>Analyst, The</i> , 2010 , 135, 3169-77	5	53
295	Steady state photoconductive response of C60/C70 films. Solid State Communications, 1992, 81, 261-26	41.6	53
294	Analysis of human skin tissue by Raman microspectroscopy: Dealing with the background. <i>Vibrational Spectroscopy</i> , 2012 , 61, 124-132	2.1	52
293	A comparison of Raman, FTIR and ATR-FTIR micro spectroscopy for imaging human skin tissue sections. <i>Analytical Methods</i> , 2013 , 5, 2281	3.2	52
292	Raman spectroscopic analysis of human skin tissue sections ex-vivo: evaluation of the effects of tissue processing and dewaxing. <i>Journal of Biomedical Optics</i> , 2013 , 18, 061202	3.5	50
291	Preparation, characterization of NIPAM and NIPAM/BAM copolymer nanoparticles and their acute toxicity testing using an aquatic test battery. <i>Aquatic Toxicology</i> , 2009 , 92, 146-54	5.1	50
290	In vitro analysis of immersed human tissues by Raman microspectroscopy. <i>Journal of Raman Spectroscopy</i> , 2011 , 42, 888-896	2.3	49
289	Excited-state quenching of a highly luminescent conjugated polymer. <i>Applied Physics Letters</i> , 2001 , 78, 1059-1061	3.4	49
288	Systematic Study of the Dispersion of SWNTs in Organic Solvents. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 4857-4863	3.8	48
287	Raman spectroscopya potential platform for the rapid measurement of carbon nanotube-induced cytotoxicity. <i>Analyst, The</i> , 2009 , 134, 1182-91	5	48
286	Spectroscopic analysis of single-walled carbon nanotubes and semiconjugated polymer composites. Journal of Physical Chemistry B, 2004 , 108, 6233-41	3.4	48
285	Investigation of the influence of high-risk human papillomavirus on the biochemical composition of cervical cancer cells using vibrational spectroscopy. <i>Analyst, The</i> , 2010 , 135, 3087-93	5	47
284	Effect of Solvent Solubility Parameters on the Dispersion of Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2008 , 112, 20154-20158	3.8	46
283	Optical Spectroscopy of Isolated and Aggregate Hexabenzocoronene Derivatives: A Study of Self-Assembling Molecular Nanowires. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 37-43	3.4	46

282	Study of phenolic extractability in grape seeds by means of ATR-FTIR and Raman spectroscopy. <i>Food Chemistry</i> , 2017 , 232, 602-609	8.5	45
281	A functional conjugated polymer to process, purify and selectively interact with single wall carbon nanotubes. <i>Synthetic Metals</i> , 2001 , 121, 1217-1218	3.6	45
280	Quantitative reagent-free detection of fibrinogen levels in human blood plasma using Raman spectroscopy. <i>Analyst, The</i> , 2012 , 137, 1807-14	5	44
279	In-depth study into the interaction of single walled carbon nanotubes with anthracene and p-terphenyl. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 3895-901	3.4	44
278	Raman studies of photochemical reactions in fullerene films. <i>Chemical Physics Letters</i> , 1993 , 212, 384-39	00 .5	44
277	Fourier transform infrared microspectroscopy and multivariate methods for radiobiological dosimetry. <i>Radiation Research</i> , 2010 , 173, 225-37	3.1	43
276	Comparison of micro- and nanoscale Fe+I-containing (Hematite) particles for their toxicological properties in human lung cells in vitro. <i>Toxicological Sciences</i> , 2012 , 126, 173-82	4.4	42
275	Ultra-filtration of human serum for improved quantitative analysis of low molecular weight biomarkers using ATR-IR spectroscopy. <i>Analyst, The</i> , 2017 , 142, 1285-1298	5	40
274	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> , 2017 , 409, 1333-1346	4.4	40
273	Raman micro-spectroscopy for rapid screening of oral squamous cell carcinoma. <i>Experimental and Molecular Pathology</i> , 2015 , 98, 502-9	4.4	40
272	Correlation of the Adhesive Properties of Cells to N-Isopropylacrylamide/N-tert-Butylacrylamide Copolymer Surfaces with Changes in Surface Structure Using Contact Angle Measurements, Molecular Simulations, and Raman Spectroscopy. <i>Chemistry of Materials</i> , 2005 , 17, 3889-3898	9.6	40
271	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> , 2017 , 48, 697-704	2.3	39
270	Raman spectral analysis for rapid screening of dengue infection. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2018 , 200, 136-142	4.4	39
269	Toxicology of Engineered Nanoparticles: Focus on Poly(amidoamine) Dendrimers. <i>International Journal of Environmental Research and Public Health</i> , 2018 , 15,	4.6	39
268	Raman spectroscopy in nanomedicine: current status and future perspective. <i>Nanomedicine</i> , 2013 , 8, 1335-51	5.6	39
267	Reactive oxygen species mediated DNA damage in human lung alveolar epithelial (A549) cells from exposure to non-cytotoxic MFI-type zeolite nanoparticles. <i>Toxicology Letters</i> , 2012 , 215, 151-60	4.4	39
266	Synthesis and optical properties of phenylene-vinylene copolymers. Synthetic Metals, 1999, 103, 2478-2	4 ₇ 7. 0	39
265	Raman microspectroscopy for the early detection of pre-malignant changes in cervical tissue. Experimental and Molecular Pathology, 2014 , 97, 554-64	4.4	38

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264	Effect of carbon nanotube-fullerene hybrid additive on P3HT:PCBM bulk-heterojunction organic photovoltaics. <i>Synthetic Metals</i> , 2012 , 162, 95-101	3.6	38	
263	Towards processing of carbon nanotubes for technical applications. <i>Applied Physics A: Materials Science and Processing</i> , 1999 , 69, 269-274	2.6	38	
262	Discrimination of cathinone regioisomers, sold as 'legal highs', by Raman spectroscopy. <i>Drug Testing and Analysis</i> , 2014 , 6, 651-7	3.5	37	•
261	Controlling the optical properties of a conjugated co-polymer through variation of backbone isomerism and the introduction of carbon nanotubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 144, 31-41	4.7	37	
260	Industrial grade 2D molybdenum disulphide (MoS 2): an in vitro exploration of the impact on cellular uptake, cytotoxicity, and inflammation. <i>2D Materials</i> , 2017 , 4, 025065	5.9	36	
259	Vibrational spectroscopic analysis of body fluids: avoiding molecular contamination using centrifugal filtration. <i>Analytical Methods</i> , 2014 , 6, 5155	3.2	36	
258	Purification and isolation of SWNTs. <i>Carbon</i> , 2004 , 42, 1031-1035	10.4	36	
257	Cold Atmospheric Plasma Induces ATP-Dependent Endocytosis of Nanoparticles and Synergistic U373MG Cancer Cell Death. <i>Scientific Reports</i> , 2018 , 8, 5298	4.9	35	
256	Effect of substrate choice and tissue type on tissue preparation for spectral histopathology by Raman microspectroscopy. <i>Analyst, The</i> , 2014 , 139, 446-54	5	35	
255	Numerical simulations of in vitro nanoparticle toxicity - the case of poly(amido amine) dendrimers. <i>Toxicology in Vitro</i> , 2014 , 28, 1449-60	3.6	35	
254	Vibrational spectroscopy as a tool for studying drug-cell interaction: Could high throughput vibrational spectroscopic screening improve drug development?. <i>Vibrational Spectroscopy</i> , 2017 , 91, 16-	-30 ¹	35	
253	Complex nano-assemblies of polymers and carbon nanotubes. <i>Nanotechnology</i> , 2001 , 12, 187-190	3.4	35	
252	Cellular discrimination using in vitro Raman micro spectroscopy: the role of the nucleolus. <i>Analyst, The</i> , 2015 , 140, 5908-19	5	34	
251	Raman micro spectroscopy study of the interaction of vincristine with A549 cells supported by expression analysis of bcl-2 protein. <i>Analyst, The</i> , 2013 , 138, 6177-84	5	34	
250	Assessment of an osteoblast-like cell line as a model for human primary osteoblasts using Raman spectroscopy. <i>Analyst, The</i> , 2012 , 137, 1559-69	5	34	
249	Correlation of p16(INK4A) expression and HPV copy number with cellular FTIR spectroscopic signatures of cervical cancer cells. <i>Analyst, The</i> , 2011 , 136, 1365-73	5	34	
248	Optical Absorption and Fluorescence of a Multi-walled Nanotube-Polymer Composite. <i>Synthetic Metals</i> , 1999 , 102, 1176-1177	3.6	34	
247	Vibrational spectroscopy in sensing radiobiological effects: analyses of targeted and non-targeted effects in human keratinocytes. <i>Faraday Discussions</i> , 2016 , 187, 213-34	3.6	34	

246	Screening the low molecular weight fraction of human serum using ATR-IR spectroscopy. <i>Journal of Biophotonics</i> , 2016 , 9, 1085-1097	3.1	34
245	Raman spectroscopy of blood plasma samples from breast cancer patients at different stages. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019 , 222, 117210	4.4	33
244	An investigation of the RWPE prostate derived family of cell lines using FTIR spectroscopy. <i>Analyst, The,</i> 2010 , 135, 887-94	5	33
243	Photoconductivity of thin film fullerenes; Effect of oxygen and thermal annealing. <i>Solid State Communications</i> , 1993 , 87, 281-284	1.6	33
242	Nonlinear luminescence phenomena in fullerene crystallites. <i>Applied Physics A: Materials Science and Processing</i> , 1993 , 56, 235-239	2.6	33
241	Electric field standing wave effects in FT-IR transflection spectra of biological tissue sections: Simulated models of experimental variability. <i>Vibrational Spectroscopy</i> , 2013 , 69, 84-92	2.1	32
240	Time-resolved photoluminescence of solid state fullerenes. <i>Chemical Physics Letters</i> , 1993 , 204, 461-46	62.5	32
239	Structure-property relationships for electron-vibrational coupling in conjugated organic oligomeric systems. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 12685-90	3.4	31
238	Raman spectroscopy for cytopathology of exfoliated cervical cells. Faraday Discussions, 2016, 187, 187-	9§ .6	30
237	Processing ThinPrep cervical cytological samples for Raman spectroscopic analysis. <i>Analytical Methods</i> , 2014 , 6, 7831-7841	3.2	30
236	Raman spectroscopic mapping for the analysis of solar radiation induced skin damage. <i>Analyst, The</i> , 2013 , 138, 3946-56	5	30
235	Systematic Study of the Effects of Naphthalene and Anthracene Substitution on the Properties of PPV Derivative Conjugated Systems. <i>Macromolecules</i> , 2007 , 40, 7895-7901	5.5	30
234	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> , 2017 , 10, 151-165	3.1	29
233	Linking ATR-FTIR and Raman features to phenolic extractability and other attributes in grape skin. <i>Talanta</i> , 2017 , 167, 44-50	6.2	29
232	Interaction of Carbon Nanotubes with Sugar Complexes. Synthetic Metals, 2005, 153, 357-360	3.6	29
231	Multivariate statistical methodologies applied in biomedical Raman spectroscopy: assessing the validity of partial least squares regression using simulated model datasets. <i>Analyst, The</i> , 2015 , 140, 248	2 ⁵ 92	27
230	Optical limiting study of double wall carbon nanotube Bullerene hybrids. <i>Chemical Physics Letters</i> , 2010 , 489, 207-211	2.5	27
229	Picosecond spectroscopy and hyperlinear photoluminescence in poly(para-phenylene)-type ladder polymers. <i>Physical Review B</i> , 1997 , 56, 1632-1636	3.3	27

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228	human skin: spectroscopic imaging and chromatographic profiling. <i>Experimental Dermatology</i> , 2014 , 23, 441-3	4	26	
227	Graphene Nanoflake Uptake Mediated by Scavenger Receptors. <i>Nano Letters</i> , 2019 , 19, 1260-1268	11.5	26	
226	Surface Enhanced Raman Spectroscopy for Quantitative Analysis: Results of a Large-Scale European Multi-Instrument Interlaboratory Study. <i>Analytical Chemistry</i> , 2020 , 92, 4053-4064	7.8	25	
225	Nonlinear optical properties of carbon nanotube hybrids in polymer dispersions. <i>Materials Chemistry and Physics</i> , 2012 , 133, 992-997	4.4	25	
224	Spectroscopic investigation of conjugated polymer/single-walled carbon nanotube interactions. <i>Chemical Physics Letters</i> , 2001 , 350, 27-32	2.5	25	
223	Enabling quantification of protein concentration in human serum biopsies using attenuated total reflectance (Fourier transform infrared (ATR-FTIR) spectroscopy. <i>Vibrational Spectroscopy</i> , 2018 , 99, 50-58	2.1	25	
222	Investigating the role of shape on the biological impact of gold nanoparticles in vitro. <i>Nanomedicine</i> , 2015 , 10, 2643-57	5.6	24	
221	Spectral cross-correlation as a supervised approach for the analysis of complex Raman datasets: the case of nanoparticles in biological cells. <i>Analyst, The</i> , 2012 , 137, 5792-802	5	24	
220	Three dimensional collagen gels as a cell culture matrix for the study of live cells by Raman spectroscopy. <i>Analyst, The</i> , 2010 , 135, 1697-703	5	24	
219	Plasmonic gold nanoparticles for detection of fungi and human cutaneous fungal infections. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 4647-4658	4.4	24	
218	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> , 2018 , 11, e201700060	3.1	23	
217	Effects of salinity on the toxicity of ionic silver and Ag-PVP nanoparticles to Tisbe battagliai and Ceramium tenuicorne. <i>Ecotoxicology and Environmental Safety</i> , 2012 , 86, 101-10	7	23	
216	The bio-nano-interface in predicting nanoparticle fate and behaviour in living organisms: towards grouping and categorising nanomaterials and ensuring nanosafety by design. <i>BioNanoMaterials</i> , 2013 , 14,		23	
215	Raman spectroscopy for the characterization of the polymerization rate in an acrylamide-based photopolymer. <i>Applied Optics</i> , 2008 , 47, 206-12	1.7	23	
214	Principal components analysis of Raman spectral data for screening of Hepatitis C infection. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2019 , 221, 117173	4.4	22	
213	Recent advances in optical diagnosis of oral cancers: Review and future perspectives. <i>Head and Neck</i> , 2016 , 38 Suppl 1, E2403-11	4.2	22	
212	Spectroscopic studies of anthracyclines: Structural characterization and in vitro tracking. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2016 , 169, 152-60	4.4	22	
211	Chemotherapeutic efficiency of drugs in vitro: Comparison of doxorubicin exposure in 3D and 2D culture matrices. <i>Toxicology in Vitro</i> , 2016 , 33, 99-104	3.6	22	

210	Vibrational Microspectroscopy for Cancer Screening. <i>Applied Sciences (Switzerland)</i> , 2015 , 5, 23-35	2.6	22
209	A Study of the Interaction between Single-Walled Carbon Nanotubes and Polycyclic Aromatic Hydrocarbons: Toward Structure P roperty Relationships. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 10418-10422	3.8	22
208	Bundling and diameter selectivity in HiPco SWNTs poly(p-phenylene vinylene-co-2,5-dioctyloxy-m-phenylene vinylene) composites. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 19369-74	3.4	22
207	Reversible photochemical processes in fullerenes. A Raman study. <i>Chemical Physics Letters</i> , 1993 , 215, 131-136	2.5	22
206	Comparability of Raman Spectroscopic Configurations: A Large Scale Cross-Laboratory Study. <i>Analytical Chemistry</i> , 2020 , 92, 15745-15756	7.8	22
205	Self-cleaning hydrophobic nanocoating on glass: A scalable manufacturing process. <i>Materials Chemistry and Physics</i> , 2020 , 239, 122000	4.4	22
204	Reactive oxygen species and nitric oxide signaling in bystander cells. <i>PLoS ONE</i> , 2018 , 13, e0195371	3.7	22
203	Investigating the use of Raman and immersion Raman spectroscopy for spectral histopathology of metastatic brain cancer and primary sites of origin. <i>Analytical Methods</i> , 2014 , 6, 3948-3961	3.2	21
202	Evidence of a redox equilibrium assisted chain propagation mode for aniline polymerization: in situ spectral investigation in dodecylbenzene sufonic acid based system. <i>Polymer</i> , 2004 , 45, 5465-5471	3.9	21
201	Nonlinear optical studies of graded enyne oligomers. <i>Chemical Physics Letters</i> , 1990 , 167, 484-489	2.5	21
200	In vitro monitoring of time and dose dependent cytotoxicity of aminated nanoparticles using Raman spectroscopy. <i>Analyst, The</i> , 2016 , 141, 5417-31	5	21
199	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> , 2019 , 212, 206-214	4.4	21
198	Determination of nanoparticle localisation within subcellular organelles in vitro using Raman spectroscopy. <i>Analytical Methods</i> , 2015 , 7, 10000-10017	3.2	20
197	Evaluation of cytotoxicity profile and intracellular localisation of doxorubicin-loaded chitosan nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 5443-55	4.4	20
196	Hydroxyl density affects the interaction of fibrinogen with silica nanoparticles at physiological concentration. <i>Journal of Colloid and Interface Science</i> , 2014 , 419, 86-94	9.3	20
195	Spectroscopic and chemometric approaches to radiobiological analyses. <i>Mutation Research - Reviews in Mutation Research</i> , 2010 , 704, 108-14	7	20
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