Lorna Ashton

List of Publications by Year
in descending order

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38 papers	2,453 citations	331670 21 h-index	315739 38 g-index
39 all docs	39 docs citations	39 times ranked	3958 citing authors

#	Article	IF	Citations
1	Using Raman spectroscopy to characterize biological materials. Nature Protocols, 2016, 11, 664-687.	12.0	833
2	Deep convolutional neural networks for Raman spectrum recognition: a unified solution. Analyst, The, 2017, 142, 4067-4074.	3.5	300
3	Raman spectroscopy: an evolving technique for live cell studies. Analyst, The, 2016, 141, 3590-3600.	3.5	220
4	Illuminating disease and enlightening biomedicine: Raman spectroscopy as a diagnostic tool. Analyst, The, 2013, 138, 3871.	3.5	163
5	Monitoring the Mode of Action of Antibiotics Using Raman Spectroscopy:Â Investigating Subinhibitory Effects of Amikacin onPseudomonasaeruginosa. Analytical Chemistry, 2005, 77, 2901-2906.	6.5	84
6	Raman spectroscopy: lighting up the future of microbial identification. Future Microbiology, 2011, 6, 991-997.	2.0	60
7	Shear-Induced Unfolding of Lysozyme Monitored In Situ. Biophysical Journal, 2009, 96, 4231-4236.	0.5	58
8	Two-dimensional correlation analysis of Raman optical activity data on the Î±-helix-to-Î²-sheet transition in poly(L-lysine). Molecular Physics, 2006, 104, 1429-1445.	1.7	50
9	Two-dimensional Raman and Raman optical activity correlation analysis of the Î±-helix-to-disordered transition in poly(l-glutamic acid). Analyst, The, 2007, 132, 468-479.	3.5	50
10	Monitoring the Glycosylation Status of Proteins Using Raman Spectroscopy. Analytical Chemistry, 2011, 83, 6074-6081.	6.5	50
11	Structural, spectroscopic and redox properties of uranyl complexes with a maleonitrile containing ligand. Dalton Transactions, 2011, 40, 5939.	3.3	49
12	The Importance of Protonation in the Investigation of Protein Phosphorylation Using Raman Spectroscopy and Raman Optical Activity. Analytical Chemistry, 2011, 83, 7978-7983.	6.5	49
13	pH-induced conformational transitions in Î±-lactalbumin investigated with two-dimensional Raman correlation variance plots and moving windows. Journal of Molecular Structure, 2010, 974, 132-138.	3.6	47
14	Applications of machine learning in spectroscopy. Applied Spectroscopy Reviews, 2021, 56, 733-763.	6.7	46
15	Detection of Protein Glycosylation Using Tip-Enhanced Raman Scattering. Analytical Chemistry, 2016, 88, 2105-2112.	6.5	39
16	Application of two-dimensional correlation analysis to Raman optical activity. Journal of Molecular Structure, 2006, 799, 61-71.	3.6	35
17	Susceptibility of Different Proteins to Flow-Induced Conformational Changes Monitored with Raman Spectroscopy. Biophysical Journal, 2010, 98, 707-714.	0.5	35
18	Engaging with Raman Spectroscopy to Investigate Antibody Aggregation. Antibodies, 2018, 7, 24.	2.5	31

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19	The challenge of applying Raman spectroscopy to monitor recombinant antibody production. Analyst, The, 2013, 138, 6977.	3.5	28
20	Monitoring Antibody Aggregation in Early Drug Development Using Raman Spectroscopy and Perturbation-Correlation Moving Windows. Analytical Chemistry, 2014, 86, 11133-11140.	6.5	26
21	Monitoring Guanidinium-Induced Structural Changes in Ribonuclease Proteins Using Raman Spectroscopy and 2D Correlation Analysis. Analytical Chemistry, 2013, 85, 3570-3575.	6.5	24
22	Potential pitfalls concerning visualization of the 2D results. Journal of Molecular Structure, 2006, 799, 253-258.	3.6	22
23	Detection of glycosylation and iron-binding protein modifications using Raman spectroscopy. Analyst, The, 2017, 142, 808-814.	3.5	20
24	Making colourful sense of Raman images of single cells. Analyst, The, 2015, 140, 1852-1858.	3.5	19
25	Investigation of DMSOâ€Induced Conformational Transitions in Human Serum Albumin Using Twoâ€Dimensional Raman Optical Activity Spectroscopy. Chirality, 2014, 26, 497-501.	2.6	18
26	<scp>UV</scp> resonance Raman spectroscopy: a process analytical tool for host cell <scp>DNA</scp> and <scp>RNA</scp> dynamics in mammalian cell lines. Journal of Chemical Technology and Biotechnology, 2015, 90, 237-243.	3.2	16
27	Detection of early stage changes associated with adipogenesis using R aman spectroscopy under aseptic conditions. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2015, 87, 1012-1019.	1.5	15
28	Singleâ€cell Raman microscopy of microengineered cell scaffolds. Journal of Raman Spectroscopy, 2019, 50, 371-379.	2.5	13
29	Investigations of conformational transitions in proteins and RNA using 2DCOS Raman and 2DCOS Raman optical activity spectroscopies. Journal of Molecular Structure, 2008, 883-884, 187-194.	3.6	12
30	Determination of Phosphorylation and Deprotonation Induced Higher Order Structural Transitions in Î±_s-Caseins. Analytical Chemistry, 2019, 91, 13940-13946.	6.5	8
31	Marine-Inspired Enzymatic Mineralization of Dairy-Derived Whey Protein Isolate (WPI) Hydrogels for Bone Tissue Regeneration. Marine Drugs, 2020, 18, 294.	4.6	7
32	Two-dimensional codistribution spectroscopy applied to UVRR and ROA investigations of biomolecular transitions. Journal of Molecular Structure, 2016, 1124, 173-179.	3.6	6
33	Raman Spectroscopy with 2D Perturbation Correlation Moving Windows for the Characterization of Heparinâ€“Amyloid Interactions. Analytical Chemistry, 2020, 92, 13822-13828.	6.5	6
34	Aseptic Raman spectroscopy can detect changes associated with the culture of human dental pulp stromal cells in osteoinductive culture. Analyst, The, 2015, 140, 7347-7354.	3.5	4
35	Reference Protocol to Assess Analytical Performance of Higher Order Structural Analysis Measurements: Results from an Interlaboratory Comparison. Analytical Chemistry, 2021, 93, 9041-9048.	6.5	4
36	Electron Beam-Treated Enzymatically Mineralized Gelatin Hydrogels for Bone Tissue Engineering. Journal of Functional Biomaterials, 2021, 12, 57.	4.4	3

#	Article	IF	Citations
37	Fingerprinting of skin cells by live cell Raman spectroscopy reveals melanoma cell heterogeneity and cellâ€typeâ€specific responses to <scp>UVR</scp>. Experimental Dermatology, 2022, 31, 1543-1553.	2.9	2
38	19F Solidâ€State NMR and Vibrational Raman Characterization of Corticosteroid Drugâ€Lipid Membrane Interactions. ChemPlusChem, 2021, 86, 1517-1523.	2.8	1