Sara J Fraser-miller

List of Publications by Citations

53 papers	553 citations	14 h-index	21 g-index
59 ext. papers	760 ext. citations	4.8 avg, IF	4.2 L-index

#	Paper	IF	Citations
53	Raman imaging of drug delivery systems. *Advanced Drug Delivery Reviews*, **2015**, 89, 21-41	18.5	73
52	Use of low-frequency Raman spectroscopy and chemometrics for the quantification of crystallinity in amorphous griseofulvin tablets. *Vibrational Spectroscopy*, **2015**, 77, 10-16	2.1	35
51	Tissue-specific study across the stem reveals the chemistry and transcriptome dynamics of birch bark. *New Phytologist*, **2019**, 222, 1816-1831	9.8	30
50	Scanning Tunneling and Atomic Force Microscopy Evidence for Covalent and Noncovalent Interactions between Aryl Films and Highly Ordered Pyrolytic Graphite. *Journal of Physical Chemistry C*, **2014**, 118, 5820-5826	3.8	27
49	Probing Pharmaceutical Mixtures during Milling: The Potency of Low-Frequency Raman Spectroscopy in Identifying Disorder. *Molecular Pharmaceutics*, **2017**, 14, 4675-4684	5.6	23
48	Direct comparison of low- and mid-frequency Raman spectroscopy for quantitative solid-state pharmaceutical analysis. *Journal of Pharmaceutical and Biomedical Analysis*, **2018**, 149, 343-350	3.5	22
47	Revisiting the Thermodynamic Stability of Indomethacin Polymorphs with Low-Frequency Vibrational Spectroscopy and Quantum Mechanical Simulations. *Crystal Growth and Design*, **2018**, 18, 6513-6520	3.5	22
46	Simultaneous qualitative and quantitative analysis of counterfeit and unregistered medicines using Raman spectroscopy. *Journal of Raman Spectroscopy*, **2013**, 44, 1172-1180	2.3	20
45	Analysing avian eggshell pigments with Raman spectroscopy. *Journal of Experimental Biology*, **2015**, 218, 2670-4	3	18
44	Recent advances in low-frequency Raman spectroscopy for pharmaceutical applications. *International Journal of Pharmaceutics*, **2021**, 592, 120034	6.5	18
43	Understanding Dissolution and Crystallization with Imaging: A Surface Point of View. *Molecular Pharmaceutics*, **2018**, 15, 5361-5373	5.6	17
42	Multimodal Nonlinear Optical Imaging for Sensitive Detection of Multiple Pharmaceutical Solid-State Forms and Surface Transformations. *Analytical Chemistry*, **2017**, 89, 11460-11467	7.8	14
41	Low-Frequency Raman Spectroscopic Study on Compression-Induced Destabilization in Melt-Quenched Amorphous Celecoxib. *Molecular Pharmaceutics*, **2019**, 16, 3678-3686	5.6	14
40	Gallstones in New Zealand: composition, risk factors and ethnic differences. *ANZ Journal of Surgery*, **2013**, 83, 575-80	1	14
39	Raman spectroscopic characterisation of resin-infiltrated hypomineralised enamel. *Analytical and Bioanalytical Chemistry*, **2015**, 407, 5661-71	4.4	13
38	Elemental and chemical characterization of dolphin enamel and dentine using X-ray and Raman microanalyzes (Cetacea: Delphinoidea and Inioidea). *Journal of Structural Biology*, **2014**, 185, 58-68	3.4	13
37	A Raman spectroscopic study of teeth affected with molar incisor hypomineralisation. *Journal of Raman Spectroscopy*, **2015**, 46, 202-210	2.3	12

36	Surface Stabilization and Dissolution Rate Improvement of Amorphous Compacts with Thin Polymer Coatings: Can We Have It All?. *Molecular Pharmaceutics*, **2020**, 17, 1248-1260	5.6	12
35	Interaction of bioactive glass with clodronate. *International Journal of Pharmaceutics*, **2013**, 452, 102-7	6.5	11
34	Solving the Computational Puzzle: Toward a Pragmatic Pathway for Modeling Low-Energy Vibrational Modes of Pharmaceutical Crystals. *Crystal Growth and Design*, **2020**, 20, 6947-6955	3.5	11
33	Application of low-wavenumber Raman spectroscopy to the analysis of human teeth. *Journal of Raman Spectroscopy*, **2019**, 50, 1375-1387	2.3	10
32	Application of Low-Frequency Raman Scattering Spectroscopy to Probe in Situ Drug Solubilization in Milk during Digestion. *Journal of Physical Chemistry Letters*, **2019**, 10, 2258-2263	6.4	10
31	Biopharmaceutics of Topical Ophthalmic Suspensions: Importance of Viscosity and Particle Size in Ocular Absorption of Indomethacin. *Pharmaceutics*, **2021**, 13,	6.4	10
30	Low-Frequency Raman Scattering Spectroscopy as an Accessible Approach to Understand Drug Solubilization in Milk-Based Formulations during Digestion. *Molecular Pharmaceutics*, **2020**, 17, 885-899	5.6	9
29	Chemical and mechanical properties of snake fangs. *Journal of Raman Spectroscopy*, **2016**, 47, 787-795	2.3	9
28	Low-wavenumber Raman spectral database of pharmaceutical excipients. *Vibrational Spectroscopy*, **2020**, 107, 103021	2.1	8
27	Light-ageing characteristics of Māori textiles: Colour, strength and molecular change. *Journal of Cultural Heritage*, **2017**, 24, 60-68	2.9	7
26	Microscopic and infrared spectroscopic comparison of the underwater adhesives produced by germlings of the brown seaweed species Durvillaea antarctica and Hormosira banksii. *Journal of the Royal Society Interface*, **2016**, 13,	4.1	6
25	Rapid discrimination of intact beef, venison and lamb meat using Raman spectroscopy. *Food Chemistry*, **2021**, 343, 128441	8.5	6
24	Qualitative and quantitative vibrational spectroscopic analysis of macronutrients in breast milk. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 246, 118982	4.4	6
23	Co-Amorphization of Kanamycin with Amino Acids Improves Aerosolization. *Pharmaceutics*, **2020**, 12,	6.4	5
22	Insights into Caco-2 cell culture structure using coherent anti-Stokes Raman scattering (CARS) microscopy. *International Journal of Pharmaceutics*, **2017**, 523, 270-280	6.5	4
21	Application of Raman spectroscopy to distinguish adularia and sanidine in drill cuttings from the Ngatamariki Geothermal Field, New Zealand. *New Zealand Journal of Geology, and Geophysics*, **2015**, 58, 66-77	1.6	4
20	Vibrational spectroscopy and chemometrics for quantifying key bioactive components of various plum cultivars grown in New Zealand. *Journal of Raman Spectroscopy*, **2020**, 51, 1138-1152	2.3	4
19	Physical Stability of Freeze-Dried Isomalt Diastereomer Mixtures. *Pharmaceutical Research*, **2016**, 33, 1752-68	4.5	4

18	A comparison between laboratory and industrial fouling of reverse osmosis membranes used to concentrate milk. *Food and Bioproducts Processing*, **2019**, 114, 113-121	4.9	4
17	Cell-Nanoparticle Interactions at (Sub)-Nanometer Resolution Analyzed by Electron Microscopy and Correlative Coherent Anti-Stokes Raman Scattering. *Biotechnology Journal*, **2019**, 14, e1800413	5.6	4
16	Vibrational Spectroscopic Imaging. *Advances in Delivery Science and Technology*, **2016**, 523-589		3
15	Monitoring the Isothermal Dehydration of Crystalline Hydrates Using Low-Frequency Raman Spectroscopy. *Molecular Pharmaceutics*, **2021**, 18, 1264-1276	5.6	3
14	Combined Effect of the Preparation Method and Compression on the Physical Stability and Dissolution Behavior of Melt-Quenched Amorphous Celecoxib. *Molecular Pharmaceutics*, **2021**, 18, 1408-1418	5.6	3
13	A New Frontier for Nondestructive Spatial Analysis of Pharmaceutical Solid Dosage Forms: Spatially Offset Low-Frequency Raman Spectroscopy. *Analytical Chemistry*, **2021**, 93, 3698-3705	7.8	3
12	Molecular monitoring of glioblastomas immunogenicity using a combination of Raman spectroscopy and chemometrics. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2021**, 252, 119534	4.4	2
11	Lake snow caused by the invasive diatom Lindavia intermedia can be discriminated from different sites and from other algae using vibrational spectroscopy. *Journal of Raman Spectroscopy*,	2.3	2
10	Detection of structural degradation of porcine bone in different marine environments with Raman spectroscopy combined with chemometrics. *Journal of Raman Spectroscopy*,	2.3	2
9	Evaluating low- mid- and high-level fusion strategies for combining Raman and infrared spectroscopy for quality assessment of red meat. *Food Chemistry*, **2021**, 361, 130154	8.5	2
8	Understanding consolidants on harakeke fibres using Raman microscopy: Implications for conservation. *Journal of Cultural Heritage*, **2020**, 45, 41-47	2.9	1
7	Raman and Infrared Spectroscopic Data Fusion Strategies for Rapid, Multicomponent Quantitation of Krill Oil Compositions. *ACS Food Science & Technology*, **2021**, 1, 570-578		1
6	Pseudo-3D Subsurface Imaging of Pharmaceutical Solid Dosage Forms Using Micro-spatially Offset Low-Frequency Raman Spectroscopy. *Analytical Chemistry*, **2021**, 93, 8986-8993	7.8	1
5	Optimization of Methionine in Inhalable High-dose Spray-dried Amorphous Composite Particles using Response Surface Method, Infrared and Low frequency Raman Spectroscopy.. *International Journal of Pharmaceutics*, **2022**, 614, 121446	6.5	0
4	Can Coupling Multiple Complementary Methods Improve the Spectroscopic Based Diagnosis of Gastrointestinal Illnesses? A Proof of Principle Study Using Celiac Disease as the Model Illness. *Analytical Chemistry*, **2021**, 93, 6363-6374	7.8	0
3	Evaluation of crystallinity in carbon fiber-reinforced poly(ether ether ketone) by using infrared low frequency Raman spectroscopy. *Journal of Applied Polymer Science*,51677	2.9	0
2	Investigation on Formulation Strategies to Mitigate Compression-Induced Destabilization in Supersaturated Celecoxib Amorphous Solid Dispersions. *Molecular Pharmaceutics*, **2021**, 18, 3882-3893	5.6	0
1	Elucidating the Dehydration Mechanism of Nitrofurantoin Monohydrate II Using Low-Frequency Raman Spectroscopy. *Crystal Growth and Design*, **2022**, 22, 2733-2741	3.5	