

# Sara J Fraserâ€miller

## List of Publications by Year in descending order

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58  
papers

972  
citations

448610

19  
h-index

563245

28  
g-index

59  
all docs

59  
docs citations

59  
times ranked

1312  
citing authors

#	ARTICLE	IF	CITATIONS
1	Raman imaging of drug delivery systems. <i>Advanced Drug Delivery Reviews</i> , 2015, 89, 21-41.	6.6	97
2	Tissue-specific study across the stem reveals the chemistry and transcriptome dynamics of birch bark. <i>New Phytologist</i> , 2019, 222, 1816-1831.	3.5	56
3	Recent advances in low-frequency Raman spectroscopy for pharmaceutical applications. <i>International Journal of Pharmaceutics</i> , 2021, 592, 120034.	2.6	48
4	Use of low-frequency Raman spectroscopy and chemometrics for the quantification of crystallinity in amorphous griseofulvin tablets. <i>Vibrational Spectroscopy</i> , 2015, 77, 10-16.	1.2	45
5	Direct comparison of low- and mid-frequency Raman spectroscopy for quantitative solid-state pharmaceutical analysis. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 149, 343-350.	1.4	37
6	Revisiting the Thermodynamic Stability of Indomethacin Polymorphs with Low-Frequency Vibrational Spectroscopy and Quantum Mechanical Simulations. <i>Crystal Growth and Design</i> , 2018, 18, 6513-6520.	1.4	33
7	Rapid discrimination of intact beef, venison and lamb meat using Raman spectroscopy. <i>Food Chemistry</i> , 2021, 343, 128441.	4.2	31
8	Probing Pharmaceutical Mixtures during Milling: The Potency of Low-Frequency Raman Spectroscopy in Identifying Disorder. <i>Molecular Pharmaceutics</i> , 2017, 14, 4675-4684.	2.3	30
9	Biopharmaceutics of Topical Ophthalmic Suspensions: Importance of Viscosity and Particle Size in Ocular Absorption of Indomethacin. <i>Pharmaceutics</i> , 2021, 13, 452.	2.0	30
10	Scanning Tunneling and Atomic Force Microscopy Evidence for Covalent and Noncovalent Interactions between Aryl Films and Highly Ordered Pyrolytic Graphite. <i>Journal of Physical Chemistry C</i> , 2014, 118, 5820-5826.	1.5	28
11	Low-Frequency Raman Spectroscopic Study on Compression-Induced Destabilization in Melt-Quenched Amorphous Celecoxib. <i>Molecular Pharmaceutics</i> , 2019, 16, 3678-3686.	2.3	25
12	Understanding Dissolution and Crystallization with Imaging: A Surface Point of View. <i>Molecular Pharmaceutics</i> , 2018, 15, 5361-5373.	2.3	24
13	Evaluating low- mid- and high-level fusion strategies for combining Raman and infrared spectroscopy for quality assessment of red meat. <i>Food Chemistry</i> , 2021, 361, 130154.	4.2	24
14	Simultaneous qualitative and quantitative analysis of counterfeit and unregistered medicines using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 1172-1180.	1.2	22
15	Solving the Computational Puzzle: Toward a Pragmatic Pathway for Modeling Low-Energy Vibrational Modes of Pharmaceutical Crystals. <i>Crystal Growth and Design</i> , 2020, 20, 6947-6955.	1.4	21
16	Elemental and chemical characterization of dolphin enamel and dentine using X-ray and Raman microanalyzes (Cetacea: Delphinoidea and Inioidea). <i>Journal of Structural Biology</i> , 2014, 185, 58-68.	1.3	20
17	Multimodal Nonlinear Optical Imaging for Sensitive Detection of Multiple Pharmaceutical Solid-State Forms and Surface Transformations. <i>Analytical Chemistry</i> , 2017, 89, 11460-11467.	3.2	20
18	Application of low-wavenumber Raman spectroscopy to the analysis of human teeth. <i>Journal of Raman Spectroscopy</i> , 2019, 50, 1375-1387.	1.2	20

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19	Analysing avian eggshell pigments with Raman spectroscopy. <i>Journal of Experimental Biology</i> , 2015, 218, 2670-4.	0.8	19
20	Low-Frequency Raman Scattering Spectroscopy as an Accessible Approach to Understand Drug Solubilization in Milk-Based Formulations during Digestion. <i>Molecular Pharmaceutics</i> , 2020, 17, 885-899.	2.3	19
21	Raman spectroscopic characterisation of resin-infiltrated hypomineralised enamel. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 5661-5671.	1.9	18
22	Surface Stabilization and Dissolution Rate Improvement of Amorphous Compacts with Thin Polymer Coatings: Can We Have It All?. <i>Molecular Pharmaceutics</i> , 2020, 17, 1248-1260.	2.3	18
23	A Raman spectroscopic study of teeth affected with molar incisor hypomineralisation. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 202-210.	1.2	17
24	Application of Low-Frequency Raman Scattering Spectroscopy to Probe in Situ Drug Solubilization in Milk during Digestion. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 2258-2263.	2.1	16
25	Gallstones in New Zealand: composition, risk factors and ethnic differences. <i>ANZ Journal of Surgery</i> , 2013, 83, 575-580.	0.3	15
26	Light-ageing characteristics of Māori textiles: Colour, strength and molecular change. <i>Journal of Cultural Heritage</i> , 2017, 24, 60-68.	1.5	14
27	Low-wavenumber Raman spectral database of pharmaceutical excipients. <i>Vibrational Spectroscopy</i> , 2020, 107, 103021.	1.2	14
28	A New Frontier for Nondestructive Spatial Analysis of Pharmaceutical Solid Dosage Forms: Spatially Offset Low-Frequency Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 3698-3705.	3.2	14
29	Co-Amorphization of Kanamycin with Amino Acids Improves Aerosolization. <i>Pharmaceutics</i> , 2020, 12, 715.	2.0	12
30	Monitoring the Isothermal Dehydration of Crystalline Hydrates Using Low-Frequency Raman Spectroscopy. <i>Molecular Pharmaceutics</i> , 2021, 18, 1264-1276.	2.3	12
31	Interaction of bioactive glass with clodronate. <i>International Journal of Pharmaceutics</i> , 2013, 452, 102-107.	2.6	11
32	Qualitative and quantitative vibrational spectroscopic analysis of macronutrients in breast milk. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 246, 118982.	2.0	11
33	Microscopic and infrared spectroscopic comparison of the underwater adhesives produced by germlings of the brown seaweed species <i>Durvillaea antarctica</i> and <i>Hormosira banksii</i> . <i>Journal of the Royal Society Interface</i> , 2016, 13, 20151083.	1.5	10
34	Chemical and mechanical properties of snake fangs. <i>Journal of Raman Spectroscopy</i> , 2016, 47, 787-795.	1.2	10
35	Raman and Infrared Spectroscopic Data Fusion Strategies for Rapid, Multicomponent Quantitation of Krill Oil Compositions. <i>ACS Food Science &amp; Technology</i> , 2021, 1, 570-578.	1.3	10
36	Molecular monitoring of glioblastoma's immunogenicity using a combination of Raman spectroscopy and chemometrics. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2021, 252, 119534.	2.0	10

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37	A comparison between laboratory and industrial fouling of reverse osmosis membranes used to concentrate milk. <i>Food and Bioprocess Technology</i> , 2019, 114, 113-121.	1.8	9
38	Lake snow caused by the invasive diatom <i>Lindavia intermedia</i> can be discriminated from different sites and from other algae using vibrational spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 2597-2608.	1.2	9
39	Pseudo-3D Subsurface Imaging of Pharmaceutical Solid Dosage Forms Using Micro-spatially Offset Low-Frequency Raman Spectroscopy. <i>Analytical Chemistry</i> , 2021, 93, 8986-8993.	3.2	9
40	Rapid Quantitation of Adulterants in Premium Marine Oils by Raman and IR Spectroscopy: A Data Fusion Approach. <i>Molecules</i> , 2022, 27, 4534.	1.7	8
41	Vibrational spectroscopy and chemometrics for quantifying key bioactive components of various plum cultivars grown in New Zealand. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1138-1152.	1.2	7
42	Physical Stability of Freeze-Dried Isomalt Diastereomer Mixtures. <i>Pharmaceutical Research</i> , 2016, 33, 1752-1768.	1.7	6
43	Combined Effect of the Preparation Method and Compression on the Physical Stability and Dissolution Behavior of Melt-Quenched Amorphous Celecoxib. <i>Molecular Pharmaceutics</i> , 2021, 18, 1408-1418.	2.3	6
44	Can Coupling Multiple Complementary Methods Improve the Spectroscopic Based Diagnosis of Gastrointestinal Illnesses? A Proof of Principle <i>Ex Vivo</i> Study Using Celiac Disease as the Model Illness. <i>Analytical Chemistry</i> , 2021, 93, 6363-6374.	3.2	6
45	Investigation on Formulation Strategies to Mitigate Compression-Induced Destabilization in Supersaturated Celecoxib Amorphous Solid Dispersions. <i>Molecular Pharmaceutics</i> , 2021, 18, 3882-3893.	2.3	6
46	Vibrational Spectroscopic Imaging. <i>Advances in Delivery Science and Technology</i> , 2016, , 523-589.	0.4	5
47	Insights into Caco-2 cell culture structure using coherent anti-Stokes Raman scattering (CARS) microscopy. <i>International Journal of Pharmaceutics</i> , 2017, 523, 270-280.	2.6	5
48	Cell-Nanoparticle Interactions at (Sub)-Nanometer Resolution Analyzed by Electron Microscopy and Correlative Coherent Anti-Stokes Raman Scattering. <i>Biotechnology Journal</i> , 2019, 14, 1800413.	1.8	5
49	Elucidating the Dehydration Mechanism of Nitrofurantoin Monohydrate II Using Low-Frequency Raman Spectroscopy. <i>Crystal Growth and Design</i> , 2022, 22, 2733-2741.	1.4	5
50	Application of Raman spectroscopy to distinguish adularia and sanidine in drill cuttings from the Ngatamariki Geothermal Field, New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2015, 58, 66-77.	1.0	4
51	Low-Frequency Raman Spectroscopy as an Avenue to Determine the Transition Temperature of $\beta^2$ - and $\beta^3$ -Relaxation in Pharmaceutical Glasses. <i>Analytical Chemistry</i> , 2022, 94, 8241-8248.	3.2	4
52	Understanding consolidants on harakeke fibres using Raman microscopy: Implications for conservation. <i>Journal of Cultural Heritage</i> , 2020, 45, 41-47.	1.5	3
53	Detection of structural degradation of porcine bone in different marine environments with Raman spectroscopy combined with chemometrics. <i>Journal of Raman Spectroscopy</i> , 2022, 53, 82-94.	1.2	3
54	Optimization of methionine in inhalable High-dose Spray-dried amorphous composite particles using response surface Method, infrared and low frequency Raman spectroscopy. <i>International Journal of Pharmaceutics</i> , 2022, 614, 121446.	2.6	3

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55	Low- versus Mid-frequency Raman Spectroscopy for <i>in Situ</i> Analysis of Crystallization in Slurries. <i>Molecular Pharmaceutics</i> , 2022, 19, 2316-2326.	2.3	3
56	Evaluation of crystallinity in carbon fiber-reinforced poly(ether ether ketone) by using infrared low frequency Raman spectroscopy. <i>Journal of Applied Polymer Science</i> , 2022, 139, 51677.	1.3	2
57	Nondestructive Spatial Dehydration Analysis of Crystalline Hydrates in Pharmaceutical Solid Dosage Forms Using Spatially Offset Low-Frequency Raman Spectroscopy. <i>Crystal Growth and Design</i> , 0, , .	1.4	2
58	Feeding the team: Analysis of a Spratt's dog cake from Antarctica. <i>Polar Record</i> , 2021, 57, .	0.4	0