

Clare J Strachan

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.

122
papers

5,472
citations

40
h-index

69
g-index

127
ext. papers

6,037
ext. citations

5.2
avg, IF

5.58
L-index

#	Paper	IF	Citations
122	Biopharmaceutics of Topical Ophthalmic Suspensions: Importance of Viscosity and Particle Size in Ocular Absorption of Indomethacin. <i>Pharmaceutics</i> , 2021 , 13,	6.4	10
121	Spectroscopic Methods in Solid-state Characterization 2021 , 27-95		1
120	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	5.6	3
119	Machine-Vision-Enabled Salt Dissolution Analysis. <i>Analytical Chemistry</i> , 2020 , 92, 9730-9738	7.8	3
118	Degrees of order: A comparison of nanocrystal and amorphous solids for poorly soluble drugs. <i>International Journal of Pharmaceutics</i> , 2020 , 586, 119492	6.5	10
117	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	5.6	12
116	Image-based dissolution analysis for tracking the surface stability of amorphous powders.. <i>ADMET and DMPK</i> , 2020 , 8, 401-409	1.3	1
115	Effect of trehalose and melibiose on crystallization of amorphous paracetamol. <i>International Journal of Pharmaceutics</i> , 2020 , 590, 119878	6.5	1
114	Direct Measurement of Amorphous Solubility. <i>Analytical Chemistry</i> , 2019 , 91, 7411-7417	7.8	15
113	Chemical analysis using 3D printed glass microfluidics. <i>Analytical Methods</i> , 2019 , 11, 1802-1810	3.2	26
112	Image-Based Investigation: Biorelevant Solubility of β - and α -Indomethacin. <i>Analytical Chemistry</i> , 2019 , 91, 3997-4003	7.8	11
111	Tissue-specific study across the stem reveals the chemistry and transcriptome dynamics of birch bark. <i>New Phytologist</i> , 2019 , 222, 1816-1831	9.8	30
110	Cell-Nanoparticle Interactions at (Sub)-Nanometer Resolution Analyzed by Electron Microscopy and Correlative Coherent Anti-Stokes Raman Scattering. <i>Biotechnology Journal</i> , 2019 , 14, e1800413	5.6	4
109	Interdependence of particle properties and bulk powder behavior of indomethacin in quench-cooled molten two-phase solid dispersions. <i>International Journal of Pharmaceutics</i> , 2018 , 541, 188-197	6.5	6
108	Time-Gated Raman Spectroscopy for Quantitative Determination of Solid-State Forms of Fluorescent Pharmaceuticals. <i>Analytical Chemistry</i> , 2018 , 90, 4832-4839	7.8	14
107	Crystallization Kinetics of an Amorphous Pharmaceutical Compound Using Fluorescence-Lifetime-Imaging Microscopy. <i>Molecular Pharmaceutics</i> , 2018 , 15, 1964-1971	5.6	8
106	Isomalt and its diastereomer mixtures as stabilizing excipients with freeze-dried lactate dehydrogenase. <i>International Journal of Pharmaceutics</i> , 2018 , 538, 287-295	6.5	5

105	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	3.5	22
104	Understanding Dissolution and Crystallization with Imaging: A Surface Point of View. <i>Molecular Pharmaceutics</i> , 2018 , 15, 5361-5373	5.6	17
103	Preparation and characterization of multi-component tablets containing co-amorphous salts: Combining multimodal non-linear optical imaging with established analytical methods. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2018 , 132, 112-126	5.7	10
102	Elucidation of Compression-Induced Surface Crystallization in Amorphous Tablets Using Sum Frequency Generation (SFG) Microscopy. <i>Pharmaceutical Research</i> , 2017 , 34, 957-970	4.5	12
101	A minitabulet formulation made from electrospun nanofibers. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017 , 114, 213-220	5.7	27
100	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	6.5	4
99	Multimodal Nonlinear Optical Imaging for Sensitive Detection of Multiple Pharmaceutical Solid-State Forms and Surface Transformations. <i>Analytical Chemistry</i> , 2017 , 89, 11460-11467	7.8	14
98	Supersaturating drug delivery systems: The potential of co-amorphous drug formulations. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 1-12	6.5	67
97	Probing Pharmaceutical Mixtures during Milling: The Potency of Low-Frequency Raman Spectroscopy in Identifying Disorder. <i>Molecular Pharmaceutics</i> , 2017 , 14, 4675-4684	5.6	23
96	The formation and physical stability of two-phase solid dispersion systems of indomethacin in supercooled molten mixtures with different matrix formers. <i>European Journal of Pharmaceutical Sciences</i> , 2017 , 97, 237-246	5.1	14
95	Vibrational Spectroscopic Imaging. <i>Advances in Delivery Science and Technology</i> , 2016 , 523-589		3
94	Fluorescence-suppressed time-resolved Raman spectroscopy of pharmaceuticals using complementary metal-oxide semiconductor (CMOS) single-photon avalanche diode (SPAD) detector. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 761-74	4.4	32
93	The effect of surfactants on the dissolution behavior of amorphous formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016 , 103, 13-22	5.7	24
92	Production, applications and in vivo fate of drug nanocrystals. <i>Journal of Drug Delivery Science and Technology</i> , 2016 , 34, 21-31	4.5	28
91	Physical Stability of Freeze-Dried Isomalt Diastereomer Mixtures. <i>Pharmaceutical Research</i> , 2016 , 33, 1752-68	4.5	4
90	Evaluation of vibrational spectroscopic methods to identify and quantify multiple adulterants in herbal medicines. <i>Talanta</i> , 2015 , 138, 77-85	6.2	23
89	Polymer incorporation method affects the physical stability of amorphous indomethacin in aqueous suspension. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 96, 32-43	5.7	32
88	Amorphous solid dispersions of piroxicam and Soluplus(®): Qualitative and quantitative analysis of piroxicam recrystallization during storage. <i>International Journal of Pharmaceutics</i> , 2015 , 486, 306-14	6.5	52

87	Differential scanning calorimetry predicts the critical quality attributes of amorphous glibenclamide. <i>European Journal of Pharmaceutical Sciences</i> , 2015 , 80, 74-81	5.1	14
86	Multimodal non-linear optical imaging for the investigation of drug nano-/microcrystal-cell interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015 , 96, 338-48	5.7	13
85	Investigation of protein distribution in solid lipid particles and its impact on protein release using coherent anti-Stokes Raman scattering microscopy. <i>Journal of Controlled Release</i> , 2015 , 197, 111-20	11.7	15
84	Understanding Critical Quality Attributes for Nanocrystals from Preparation to Delivery. <i>Molecules</i> , 2015 , 20, 22286-300	4.8	25
83	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	2.1	35
82	Influence of postharvest processing and storage conditions on key antioxidants in pŕŕ(Sonchus oleraceus L.). <i>Journal of Pharmacy and Pharmacology</i> , 2014 , 66, 998-1008	4.8	2
81	Unravelling the relationship between degree of disorder and the dissolution behavior of milled glibenclamide. <i>Molecular Pharmaceutics</i> , 2014 , 11, 234-42	5.6	19
80	Amino acids as co-amorphous excipients for simvastatin and glibenclamide: physical properties and stability. <i>Molecular Pharmaceutics</i> , 2014 , 11, 2381-9	5.6	71
79	Distribution of binder in granules produced by means of twin screw granulation. <i>International Journal of Pharmaceutics</i> , 2014 , 462, 8-10	6.5	17
78	Coherent anti-Stokes Raman scattering microscopy driving the future of loaded mesoporous silica imaging. <i>Acta Biomaterialia</i> , 2014 , 10, 4870-4877	10.8	12
77	Coherent anti-Stokes Raman scattering (CARS) microscopy visualizes pharmaceutical tablets during dissolution. <i>Journal of Visualized Experiments</i> , 2014 ,	1.6	2
76	Theoretical Considerations in Developing Amorphous Solid Dispersions. <i>Advances in Delivery Science and Technology</i> , 2014 , 35-90		18
75	Stabilized Amorphous Solid Dispersions with Small Molecule Excipients. <i>Advances in Delivery Science and Technology</i> , 2014 , 613-636		11
74	Characterization of chitosan-magnesium aluminum silicate nanocomposite films for buccal delivery of nicotine. <i>International Journal of Biological Macromolecules</i> , 2013 , 55, 24-31	7.9	20
73	Application of terahertz pulsed imaging to analyse film coating characteristics of sustained-release coated pellets. <i>International Journal of Pharmaceutics</i> , 2013 , 457, 521-6	6.5	30
72	Emerging trends in the stabilization of amorphous drugs. <i>International Journal of Pharmaceutics</i> , 2013 , 453, 65-79	6.5	307
71	Simultaneous qualitative and quantitative analysis of counterfeit and unregistered medicines using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2013 , 44, 1172-1180	2.3	20
70	Evaluating the effect of coating equipment on tablet film quality using terahertz pulsed imaging. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 1095-102	5.7	21

69	In situ amorphisation of indomethacin with Eudragit® E during dissolution. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 1259-65	5.7	31
68	Indomethacin: new polymorphs of an old drug. <i>Molecular Pharmaceutics</i> , 2013 , 10, 4472-80	5.6	93
67	Inhibition of surface crystallisation of amorphous indomethacin particles in physical drug-polymer mixtures. <i>International Journal of Pharmaceutics</i> , 2013 , 456, 301-6	6.5	25
66	Investigation of the phase separation of PNIPAM using infrared spectroscopy together with multivariate data analysis. <i>Polymer</i> , 2013 , 54, 6947-6953	3.9	14
65	Amino acids as co-amorphous stabilizers for poorly water-soluble drugs--Part 2: molecular interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 882-8	5.7	121
64	In situ dissolution analysis using coherent anti-Stokes Raman scattering (CARS) and hyperspectral CARS microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 1141-7	5.7	29
63	Studies on the lipase-induced degradation of lipid-based drug delivery systems. Part II - Investigations on the mechanisms leading to collapse of the lipid structure. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 84, 456-63	5.7	9
62	Terahertz pulsed imaging as an advanced characterisation tool for film coatings--a review. <i>International Journal of Pharmaceutics</i> , 2013 , 457, 510-20	6.5	34
61	Amino acids as co-amorphous stabilizers for poorly water soluble drugs--Part 1: preparation, stability and dissolution enhancement. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2013 , 85, 873-81	5.7	197
60	A theoretical and spectroscopic study of co-amorphous naproxen and indomethacin. <i>International Journal of Pharmaceutics</i> , 2013 , 453, 80-7	6.5	79
59	Amorphous drugs and dosage forms. <i>Journal of Drug Delivery Science and Technology</i> , 2013 , 23, 403-408	4.5	41
58	Rational formulation development and in vitro assessment of SMEDDS for oral delivery of poorly water soluble drugs. <i>European Journal of Pharmaceutical Sciences</i> , 2012 , 46, 508-15	5.1	35
57	Effect of different preparation methods on the dissolution behaviour of amorphous indomethacin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 80, 459-64	5.7	33
56	Co-amorphous simvastatin and glipizide combinations show improved physical stability without evidence of intermolecular interactions. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 81, 159-69	5.7	159
55	The impact of surface- and nano-crystallisation on the detected amorphous content and the dissolution behaviour of amorphous indomethacin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012 , 82, 187-93	5.7	23
54	Investigation of the Formation Process of Two Piracetam Cocrystals during Grinding. <i>Pharmaceutics</i> , 2011 , 3, 706-22	6.4	46
53	Pharmaceutical applications of non-linear imaging. <i>International Journal of Pharmaceutics</i> , 2011 , 417, 163-72	6.5	49
52	Assessment of crystalline disorder in cryo-milled samples of indomethacin using atomic pair-wise distribution functions. <i>International Journal of Pharmaceutics</i> , 2011 , 417, 112-9	6.5	29

51	Investigation of properties and recrystallisation behaviour of amorphous indomethacin samples prepared by different methods. <i>International Journal of Pharmaceutics</i> , 2011 , 417, 94-100	6.5	108
50	Investigations on the effect of different cooling rates on the stability of amorphous indomethacin. <i>European Journal of Pharmaceutical Sciences</i> , 2011 , 44, 341-50	5.1	39
49	Coamorphous drug systems: enhanced physical stability and dissolution rate of indomethacin and naproxen. <i>Molecular Pharmaceutics</i> , 2011 , 8, 1919-28	5.6	248
48	Analysis of matrix dosage forms during dissolution testing using raman microscopy. <i>Journal of Pharmaceutical Sciences</i> , 2011 , 100, 4452-9	3.9	18
47	The Influence of Milling on the Dissolution Performance of Simvastatin. <i>Pharmaceutics</i> , 2010 , 2, 419-431	6.4	10
46	Two-step solid lipid extrusion as a process to modify dissolution behavior. <i>AAPS PharmSciTech</i> , 2010 , 11, 2-8	3.9	16
45	Analysis of solid-state transformations of pharmaceutical compounds using vibrational spectroscopy. <i>Journal of Pharmacy and Pharmacology</i> , 2010 , 61, 971-988	4.8	154
44	Investigating the relationship between drug distribution in solid lipid matrices and dissolution behaviour using Raman spectroscopy and mapping. <i>Journal of Pharmaceutical Sciences</i> , 2010 , 99, 1464-73	3.9	27
43	Tailor-made dissolution profiles by extruded matrices based on lipid polyethylene glycol mixtures. <i>Journal of Controlled Release</i> , 2009 , 137, 211-6	11.7	25
42	An insight into water of crystallization during processing using vibrational spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2009 , 98, 3903-32	3.9	36
41	Influence of the composition of glycerides on the solid-state behaviour and the dissolution profiles of solid lipid extrudates. <i>International Journal of Pharmaceutics</i> , 2009 , 381, 184-91	6.5	15
40	Investigating the principles of recrystallization from glyceride melts. <i>AAPS PharmSciTech</i> , 2009 , 10, 1224-33	3.9	35
39	Understanding the solid-state behaviour of triglyceride solid lipid extrudates and its influence on dissolution. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 71, 80-7	5.7	61
38	Understanding the solid-state forms of fenofibrate--a spectroscopic and computational study. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009 , 71, 100-8	5.7	75
37	Chemical imaging of oral solid dosage forms and changes upon dissolution using coherent anti-Stokes Raman scattering microscopy. <i>Analytical Chemistry</i> , 2009 , 81, 2085-91	7.8	79
36	Analysis of solid-state transformations of pharmaceutical compounds using vibrational spectroscopy. <i>Journal of Pharmacy and Pharmacology</i> , 2009 , 61, 971-88	4.8	16
35	Solid lipid extrudates as sustained-release matrices: the effect of surface structure on drug release properties. <i>European Journal of Pharmaceutical Sciences</i> , 2008 , 35, 335-43	5.1	30
34	Physicochemical Properties and Stability of Two Differently Prepared Amorphous Forms of Simvastatin. <i>Crystal Growth and Design</i> , 2008 , 8, 128-135	3.5	77

33	Characterizing an Amorphous System Exhibiting Trace Crystallinity: A Case Study with Saquinavir. <i>Crystal Growth and Design</i> , 2008 , 8, 119-127	3.5	21
32	Establishing quantitative in-line analysis of multiple solid-state transformations during dehydration. <i>Journal of Pharmaceutical Sciences</i> , 2008 , 97, 4983-99	3.9	45
31	Perspectives in the use of spectroscopy to characterise pharmaceutical solids. <i>International Journal of Pharmaceutics</i> , 2008 , 364, 159-69	6.5	79
30	Prediction of tablet film-coating thickness using a rotating plate coating system and NIR spectroscopy. <i>AAPS PharmSciTech</i> , 2008 , 9, 1047-53	3.9	34
29	Determination of amorphous content in the pharmaceutical process environment. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 161-70	4.8	25
28	Raman spectroscopy for quantitative analysis of pharmaceutical solids. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 179-92	4.8	152
27	The influence of various excipients on the conversion kinetics of carbamazepine polymorphs in aqueous suspension. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 193-201	4.8	51
26	Characterization of the bulk properties of pharmaceutical solids using nonlinear optics--a review. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 241-50	4.8	8
25	A theoretical and spectroscopic study of gamma-crystalline and amorphous indometacin. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 261-9	4.8	60
24	The use of quantum chemistry in pharmaceutical research as illustrated by case studies of indometacin and carbamazepine. <i>Journal of Pharmacy and Pharmacology</i> , 2007 , 59, 271-7	4.8	10
23	Influence of polymorphic form, morphology, and excipient interactions on the dissolution of carbamazepine compacts. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 584-94	3.9	51
22	Qualitative in situ analysis of multiple solid-state forms using spectroscopy and partial least squares discriminant modeling. <i>Journal of Pharmaceutical Sciences</i> , 2007 , 96, 1802-20	3.9	43
21	Drug hydrate systems and dehydration processes studied by terahertz pulsed spectroscopy. <i>International Journal of Pharmaceutics</i> , 2007 , 334, 78-84	6.5	111
20	Screening for differences in the amorphous state of indomethacin using multivariate visualization. <i>European Journal of Pharmaceutical Sciences</i> , 2007 , 30, 113-23	5.1	97
19	Quantifying ternary mixtures of different solid-state forms of indomethacin by Raman and near-infrared spectroscopy. <i>European Journal of Pharmaceutical Sciences</i> , 2007 , 32, 182-92	5.1	103
18	Analysis of sustained-release tablet film coats using terahertz pulsed imaging. <i>Journal of Controlled Release</i> , 2007 , 119, 253-61	11.7	127
17	In-line monitoring of solid-state transitions during fluidisation. <i>Chemical Engineering Science</i> , 2007 , 62, 408-415	4.4	43
16	Hyphenated spectroscopy as a polymorph screening tool. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2007 , 44, 477-83	3.5	41

15	Investigating dehydration from compacts using terahertz pulsed, Raman, and near-infrared spectroscopy. <i>Applied Spectroscopy</i> , 2007 , 61, 1265-74	3.1	30
14	Influence of sample characteristics on quantification of carbamazepine hydrate formation by X-ray powder diffraction and Raman spectroscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2007 , 66, 466-74	5.7	42
13	Towards characterization and identification of solid state pharmaceutical mixtures through second harmonic generation. <i>Journal of Pharmaceutical Sciences</i> , 2006 , 95, 761-8	3.9	14
12	Characterization of temperature-induced phase transitions in five polymorphic forms of sulfathiazole by terahertz pulsed spectroscopy and differential scanning calorimetry. <i>Journal of Pharmaceutical Sciences</i> , 2006 , 95, 2486-98	3.9	115
11	Visualizing the conversion of carbamazepine in aqueous suspension with and without the presence of excipients: a single crystal study using SEM and Raman microscopy. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2006 , 64, 326-35	5.7	49
10	Characterizing the conversion kinetics of carbamazepine polymorphs to the dihydrate in aqueous suspension using Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 40, 271-80	3.5	89
9	Analysis of lecithin-cholesterol mixtures using Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006 , 41, 476-84	3.5	18
8	Quantification of binary polymorphic mixtures of ranitidine hydrochloride using NIR spectroscopy. <i>Vibrational Spectroscopy</i> , 2006 , 41, 225-231	2.1	34
7	Temperature dependent terahertz pulsed spectroscopy of carbamazepine. <i>Thermochimica Acta</i> , 2005 , 436, 71-77	2.9	67
6	Using terahertz pulsed spectroscopy to quantify pharmaceutical polymorphism and crystallinity. <i>Journal of Pharmaceutical Sciences</i> , 2005 , 94, 837-46	3.9	266
5	Determination of the optical second harmonic response of pharmaceutical solid-solid mixtures. <i>Optics and Lasers in Engineering</i> , 2005 , 43, 209-220	4.6	13
4	A theoretical and spectroscopic study of carbamazepine polymorphs. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 401-408	2.3	33
3	Quantitative analysis of polymorphic mixtures of carbamazepine by Raman spectroscopy and principal components analysis. <i>Journal of Raman Spectroscopy</i> , 2004 , 35, 347-352	2.3	59
2	Partial characterization of different mixtures of solids by measuring the optical nonlinear response. <i>Journal of Pharmaceutical Sciences</i> , 2004 , 93, 733-42	3.9	11
1	Using terahertz pulsed spectroscopy to study crystallinity of pharmaceutical materials. <i>Chemical Physics Letters</i> , 2004 , 390, 20-24	2.5	194