

# Jonathan C Burley

## List of Publications by Year in descending order

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68  
papers

2,899  
citations

236925

25  
h-index

168389

53  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3593  
citing authors

#	ARTICLE	IF	CITATIONS
1	3D printing of five-in-one dose combination polypill with defined immediate and sustained release profiles. <i>Journal of Controlled Release</i> , 2015, 217, 308-314.	9.9	446
2	Desktop 3D printing of controlled release pharmaceutical bilayer tablets. <i>International Journal of Pharmaceutics</i> , 2014, 461, 105-111.	5.2	404
3	3D printing of tablets containing multiple drugs with defined release profiles. <i>International Journal of Pharmaceutics</i> , 2015, 494, 643-650.	5.2	384
4	Diclofenac Solubility: Independent Determination of the Intrinsic Solubility of Three Crystal Forms. <i>Journal of Medicinal Chemistry</i> , 2007, 50, 979-983.	6.4	109
5	Exploring cocrystal cocrystal reactivity via liquid-assisted grinding: the assembling of racemic and dismantling of enantiomeric cocrystals. <i>Chemical Communications</i> , 2006, , 5009-5011.	4.1	102
6	Enforcing Ostwald's rule of stages: Isolation of paracetamol forms III and II. <i>European Journal of Pharmaceutical Sciences</i> , 2007, 31, 271-276.	4.0	84
7	Identifying Guanosine Self Assembly at Natural Isotopic Abundance by High-Resolution <sup>1</sup> H and <sup>13</sup> C Solid-State NMR Spectroscopy. <i>Journal of the American Chemical Society</i> , 2011, 133, 19777-19795.	13.7	72
8	Exploring the relationship between cocrystal stability and symmetry: is Wallach's rule applicable to multi-component solids?. <i>Chemical Communications</i> , 2008, , 1644.	4.1	70
9	Real time Raman imaging to understand dissolution performance of amorphous solid dispersions. <i>Journal of Controlled Release</i> , 2014, 188, 53-60.	9.9	62
10	Transmission Raman spectroscopy as a tool for quantifying polymorphic content of pharmaceutical formulations. <i>Analyst</i> , 2010, 135, 2328.	3.5	60
11	Investigating the Recrystallization Behavior of Amorphous Paracetamol by Variable Temperature Raman Studies and Surface Raman Mapping. <i>Molecular Pharmaceutics</i> , 2012, 9, 1544-1558.	4.6	56
12	Insights into the influence of the cooling profile on the reconstitution times of amorphous lyophilized protein formulations. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 96, 247-254.	4.3	46
13	Properties of acyl modified poly(glycerol-adipate) comb-like polymers and their self-assembly into nanoparticles. <i>Journal of Polymer Science Part A</i> , 2016, 54, 3267-3278.	2.3	45
14	Control of Magnetic Ordering by Jahn-Teller Distortions in Nd <sub>2</sub> GaMnO <sub>6</sub> and La <sub>2</sub> GaMnO <sub>6</sub> . <i>Journal of the American Chemical Society</i> , 2001, 123, 1111-1122.	13.7	44
15	A new method for the reproducible generation of polymorphs: two forms of sulindac with very different solubilities. <i>Journal of Applied Crystallography</i> , 2007, 40, 379-381.	4.5	44
16	Magnetism and Structural Chemistry of the n = 1 Ruddlesden-Popper Phases La <sub>4</sub> LiMnO <sub>8</sub> and La <sub>3</sub> SrLiMnO <sub>8</sub> . <i>Journal of the American Chemical Society</i> , 2002, 124, 620-628.	13.7	38
17	High throughput screening for biomaterials discovery. <i>Journal of Controlled Release</i> , 2014, 190, 115-126.	9.9	38
18	Syntheses, structures and magnetic properties of Mn(II) dimers [CpMn(1/4-X)] <sub>2</sub> (Cp = C <sub>5</sub> H <sub>5</sub> ; X = RNH, R <sub>1</sub> R <sub>2</sub> N,) <i>J. Inorg. Nucl. Chem.</i> 1977, 33, 37-41.	3.31	37

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19	Rapid quantification of low level polymorph content in a solid dose form using transmission Raman spectroscopy. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 128, 35-45.	2.8	36
20	In Silico Screening for Solid Dispersions: The Trouble with Solubility Parameters and $\chi$ . <i>Molecular Pharmaceutics</i> , 2018, 15, 4654-4667.	4.6	35
21	Rapid polymorph screening on milligram quantities of pharmaceutical material using phonon-mode Raman spectroscopy. <i>CrystEngComm</i> , 2010, 12, 1038-1040.	2.6	33
22	Indomethacin-Kollidon VA64 Extrudates: A Mechanistic Study of pH-Dependent Controlled Release. <i>Molecular Pharmaceutics</i> , 2016, 13, 1166-1175.	4.6	32
23	Crystal and magnetic structure of NdBaCo <sub>2</sub> O <sub>5</sub> + $\frac{1}{2}$ : Spin states in a perovskite-derived, mixed-valent cobaltite. <i>Journal of Applied Physics</i> , 2003, 93, 7364-7366.	2.5	27
24	Concomitant Hydrate Polymorphism in the Precipitation of Sparfloxacin from Aqueous Solution. <i>Crystal Growth and Design</i> , 2008, 8, 114-118.	3.0	27
25	Monitoring the Dissolution Mechanisms of Amorphous Bicalutamide Solid Dispersions via Real-Time Raman Mapping. <i>Molecular Pharmaceutics</i> , 2015, 12, 1512-1522.	4.6	26
26	New N-acyl amino acid-functionalized biodegradable polyesters for pharmaceutical and biomedical applications. <i>RSC Advances</i> , 2016, 6, 109401-109405.	3.6	25
27	Structural diversity in imidazolidinone organocatalysts: a synchrotron and computational study. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , 2008, 64, o10-o14.	0.4	24
28	Polymorphism of Scyllo-Inositol: Joining Crystal Structure Prediction with Experiment to Elucidate the Structures of Two Polymorphs. <i>Crystal Growth and Design</i> , 2006, 6, 2301-2307.	3.0	23
29	Structure and intermolecular interactions of glipizide from laboratory X-ray powder diffraction. <i>Acta Crystallographica Section B: Structural Science</i> , 2005, 61, 710-716.	1.8	22
30	Structural control of dithiazolyl radicals: Case studies on 3- and 4-cyano-benzo-1,3,2-dithiazolyl, NCC6H3S2N. <i>Journal of Organometallic Chemistry</i> , 2007, 692, 2750-2760.	1.8	22
31	The influence of polymer content on early gel-layer formation in HPMC matrices: The use of CLSM visualisation to identify the percolation threshold. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2015, 94, 485-492.	4.3	21
32	Transmission Raman spectroscopy for quality control in model cocrystal tablets. <i>Analyst</i> , The, 2012, 137, 3052.	3.5	20
33	Probing Intermolecular Hydrogen Bonding in Sildenafil Hydrochloride Polymorphs by High-Resolution <sup>1</sup> H Double-Quantum Solid-State NMR Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 1821-1830.	3.3	20
34	Magnetism and structural chemistry of the n=2 Ruddlesden-Popper phase La <sub>3</sub> LiMnO <sub>7</sub> . <i>Journal of Solid State Chemistry</i> , 2004, 177, 119-125.	2.9	19
35	The selective intercalation of organic carboxylates and sulfonates into hydroxy double salts. <i>Journal of Materials Chemistry</i> , 2012, 22, 13600.	6.7	18
36	Analysis and prediction of defects in UV photo-initiated polymer microarrays. <i>Journal of Materials Chemistry B</i> , 2013, 1, 1035-1043.	5.8	18

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37	Investigating the Dissolution Performance of Amorphous Solid Dispersions Using Magnetic Resonance Imaging and Proton NMR. <i>Molecules</i> , 2015, 20, 16404-16418.	3.8	17
38	Ampicillin trihydrate from synchrotron powder diffraction data. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o797-o799.	0.2	16
39	Incommensurate phases in the Ba-Mn-Pd-O system. <i>Journal of Materials Chemistry</i> , 1999, 9, 479-483.	6.7	15
40	Structure and Phase Transitions of Genipin, An Herbal Medicine and Naturally Occurring Cross-Linker. <i>Crystal Growth and Design</i> , 2008, 8, 1748-1753.	3.0	15
41	Strategies for MCR image analysis of large hyperspectral datasets. <i>Surface and Interface Analysis</i> , 2013, 45, 466-470.	1.8	15
42	Application of biorelevant saliva-based dissolution for optimisation of orally disintegrating formulations of felodipine. <i>International Journal of Pharmaceutics</i> , 2019, 555, 228-236.	5.2	15
43	Synthesis and Characterization of Ru-Doped $n=1$ and $n=2$ Ruddlesden-Popper Manganates. <i>Chemistry of Materials</i> , 2002, 14, 3976-3983.	6.7	14
44	Use of the Dynamic Gastric Model as a tool for investigating fed and fasted sensitivities of low polymer content hydrophilic matrix formulations. <i>International Journal of Pharmaceutics</i> , 2016, 510, 210-220.	5.2	14
45	Poly (Glycerol Adipate): From a Functionalized Nanocarrier to a Polymeric-Prodrug Matrix to Create Amorphous Solid Dispersions. <i>Journal of Pharmaceutical Sciences</i> , 2020, 109, 1347-1355.	3.3	14
46	Amodiaquinium dichloride dihydrate from laboratory powder diffraction data. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o4196-o4199.	0.2	13
47	The application of statistical methodology to the analysis of time-resolved X-ray diffraction data. <i>Analytical Methods</i> , 2011, 3, 814.	2.7	12
48	A kinetic and mechanistic study into the formation of the Cu-Cr layered double hydroxide. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 8616.	2.8	12
49	Correlating Physicochemical Properties of Boronic Acid-Chitosan Conjugates to Glucose Adsorption Sensitivity. <i>Pharmaceutics</i> , 2013, 5, 69-80.	4.5	12
50	Rapid Nanogram Scale Screening Method of Microarrays to Evaluate Drug-Polymer Blends Using High-Throughput Printing Technology. <i>Molecular Pharmaceutics</i> , 2017, 14, 2079-2087.	4.6	12
51	Pamoic acid determined from powder diffraction data. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, o1170-o1172.	0.2	11
52	Confocal Raman Microscope Mapping of a Kofler Melt. <i>Crystal Growth and Design</i> , 2011, 11, 422-430.	3.0	11
53	An assessment of beclomethasone dipropionate clathrate formation in a model suspension metered dose inhaler. <i>International Journal of Pharmaceutics</i> , 2010, 391, 98-106.	5.2	10
54	Analysis of phase transitions in molecular solids: quantitative assessment of phonon-mode vs intra-molecular spectral data. <i>RSC Advances</i> , 2012, 2, 209-216.	3.6	10

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55	Water Solubility Enhancement of Pyrazolo[3,4- <i>d</i> ]pyrimidine Derivatives via Miniaturized Polymer-Drug Microarrays. ACS Medicinal Chemistry Letters, 2018, 9, 193-197.	2.8	10
56	Thermal Behavior of Benzoic Acid/Isonicotinamide Binary Cocrystals. Crystal Growth and Design, 2015, 15, 3249-3256.	3.0	8
57	In situ Raman mapping for identifying transient solid forms. CrystEngComm, 2015, 17, 5280-5287.	2.6	8
58	High-Throughput Miniaturized Screening of Nanoparticle Formation via Inkjet Printing. Macromolecular Materials and Engineering, 2018, 303, 1800146.	3.6	8
59	Quantification of pharmaceuticals via transmission Raman spectroscopy: data sub-selection. Analyst, 2014, 139, 74-78.	3.5	7
60	Structural and Magnetic Chemistry of La <sub>2</sub> Sr <sub>2</sub> BMnO <sub>8</sub> (B=Mg, Zn). Journal of Solid State Chemistry, 2002, 168, 202-207.	2.9	6
61	Sucrose/Glucose Molecular Alloys by Cryomilling. Journal of Pharmaceutical Sciences, 2014, 103, 2098-2106.	3.3	6
62	[1/42-Aqua-bis(1/42-trifluoroaceto-2O, O)bis[bis(pyridine-N)(trifluoroacetato-O)cobalt(II)]]. Acta Crystallographica Section E: Structure Reports Online, 2005, 61, m1422-m1424.	0.2	5
63	Effect of Excipients on Salt Disproportionation during Dissolution: A Novel Application of In Situ Raman Imaging. Molecular Pharmaceutics, 2021, 18, 3247-3259.	4.6	5
64	Synthesis and structural characterization of Ba <sub>14</sub> Pd <sub>3</sub> Ir <sub>8</sub> O <sub>33</sub> . Journal of Solid State Chemistry, 2003, 174, 96-103.	2.9	4
65	Insights into crystallization mechanism: a synchrotron study of polymorphism in a cobalt acetate cluster compound. Acta Crystallographica Section C: Crystal Structure Communications, 2006, 62, m63-m66.	0.4	3
66	Investigation of Potential Amorphisation and Co-Amorphisation Behaviour of the Benzene Di-Carboxylic Acids upon Cryo-Milling. Molecules, 2019, 24, 3990.	3.8	1
67	Establishing a New Method to Evaluate the Recrystallization of Nanogram Quantities of Paracetamol Printed as a Microarray Using Inkjet Printing. Crystal Growth and Design, 2019, 19, 638-647.	3.0	1
68	Dichloro[(1-5-cyclopentadienyl)dimethyl(1-5-3-phenylindenyl)silane]hafnium(IV): a powder study. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, m238-m240.	0.2	0