

Daniel Markl

List of Publications by Year in descending order

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56
papers

1,468
citations

304368

22
h-index

329751

37
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57
all docs

57
docs citations

57
times ranked

1247
citing authors

#	ARTICLE	IF	CITATIONS
1	Polymer Pellet Fabrication for Accurate THz-TDS Measurements. Applied Sciences (Switzerland), 2022, 12, 3475.	1.3	8
2	Effect of Microsphere Concentration and Size in Compacts on Terahertz Scattering. , 2022, , .		0
3	A Fast and Non-destructive Terahertz Dissolution Assay for Immediate Release Tablets. Journal of Pharmaceutical Sciences, 2021, 110, 2083-2092.	1.6	14
4	Terahertz pulsed imaging as a new method for investigating the liquid transport kinetics of $\hat{\mu}$ -alumina powder compacts. Chemical Engineering Research and Design, 2021, 165, 386-397.	2.7	9
5	Exploring the performance-controlling tablet disintegration mechanisms for direct compression formulations. International Journal of Pharmaceutics, 2021, 599, 120221.	2.6	31
6	Tablet disintegration performance: Effect of compression pressure and storage conditions on surface liquid absorption and swelling kinetics. International Journal of Pharmaceutics, 2021, 601, 120382.	2.6	14
7	Quantification of swelling characteristics of pharmaceutical particles. International Journal of Pharmaceutics, 2020, 590, 119903.	2.6	19
8	Simultaneous investigation of the liquid transport and swelling performance during tablet disintegration. International Journal of Pharmaceutics, 2020, 584, 119380.	2.6	27
9	Measuring Open Porosity of Porous Materials Using THz-TDS and an Index-Matching Medium. Sensors, 2020, 20, 3120.	2.1	19
10	Development and Validation of an in-line API Quantification Method Using AQbD Principles Based on UV-Vis Spectroscopy to Monitor and Optimise Continuous Hot Melt Extrusion Process. Pharmaceutics, 2020, 12, 150.	2.0	18
11	Review of real-time release testing of pharmaceutical tablets: State-of-the art, challenges and future perspective. International Journal of Pharmaceutics, 2020, 582, 119353.	2.6	42
12	Terahertz-Based Porosity Measurement of Pharmaceutical Tablets: a Tutorial. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 450-469.	1.2	42
13	A predictive integrated framework based on the radial basis function for the modelling of the flow of pharmaceutical powders. International Journal of Pharmaceutics, 2019, 568, 118542.	2.6	14
14	Prilling of API/fatty acid suspensions: Processability and characterisation. International Journal of Pharmaceutics, 2019, 572, 118756.	2.6	1
15	At-line validation of optical coherence tomography as in-line/at-line coating thickness measurement method. International Journal of Pharmaceutics, 2019, 572, 118766.	2.6	16
16	Hot-melt extrusion process impact on polymer choice of glyburide solid dispersions: The effect of wettability and dissolution. International Journal of Pharmaceutics, 2019, 559, 245-254.	2.6	24
17	Quantification of Inkjet-Printed Pharmaceuticals on Porous Substrates Using Raman Spectroscopy and Near-Infrared Spectroscopy. AAPS PharmSciTech, 2019, 20, 207.	1.5	21
18	Predicting capsule fill weight from in-situ powder density measurements using terahertz reflection technology. International Journal of Pharmaceutics: X, 2019, 1, 100004.	1.2	3

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19	Measurements of effective porosity of pharmaceutical tablets using THz TDS. , 2019, , .		2
20	Measuring bulk density variations in a moving powder bed via terahertz in-line sensing. Powder Technology, 2019, 344, 152-160.	2.1	11
21	Characterisation of pore structures of pharmaceutical tablets: A review. International Journal of Pharmaceutics, 2018, 538, 188-214.	2.6	90
22	Toward quality assessment of 3D printed oral dosage forms. Journal of 3D Printing in Medicine, 2018, 2, 27-33.	1.0	8
23	Zinc delivery from non-woven fibres within a therapeutic nipple shield. International Journal of Pharmaceutics, 2018, 537, 290-299.	2.6	4
24	Characterization of the coating and tablet core roughness by means of 3D optical coherence tomography. International Journal of Pharmaceutics, 2018, 536, 459-466.	2.6	10
25	Fast and non-destructive pore structure analysis using terahertz time-domain spectroscopy. International Journal of Pharmaceutics, 2018, 537, 102-110.	2.6	27
26	Resolving the rapid water absorption of porous functionalised calcium carbonate powder compacts by terahertz pulsed imaging. Chemical Engineering Research and Design, 2018, 132, 1082-1090.	2.7	28
27	Investigating elastic relaxation effects on the optical properties of functionalised calcium carbonate compacts using optics-based Heckel analysis. International Journal of Pharmaceutics, 2018, 544, 278-284.	2.6	5
28	A non-destructive method for quality control of the pellet distribution within a MUPS tablet by terahertz pulsed imaging. European Journal of Pharmaceutical Sciences, 2018, 111, 549-555.	1.9	21
29	In-situ Monitoring of Powder Density Using Terahertz Pulsed Imaging. , 2018, , .		2
30	A Review of the Applications of OCT for Analysing Pharmaceutical Film Coatings. Applied Sciences (Switzerland), 2018, 8, 2700.	1.3	28
31	Steps towards numerical verification of the terahertz in-line measurement of tablet mixing by means of discrete element modelling. IET Microwaves, Antennas and Propagation, 2018, 12, 1775-1779.	0.7	4
32	A quantitative comparison of in-line coating thickness distributions obtained from a pharmaceutical tablet mixing process using discrete element method and terahertz pulsed imaging. Chemical Engineering Science, 2018, 192, 34-45.	1.9	22
33	Measurement of the Intertablet Coating Uniformity of a Pharmaceutical Pan Coating Process With Combined Terahertz and Optical Coherence Tomography In-Line Sensing. Journal of Pharmaceutical Sciences, 2017, 106, 1075-1084.	1.6	69
34	Analysis of 3D Prints by X-ray Computed Microtomography and Terahertz Pulsed Imaging. Pharmaceutical Research, 2017, 34, 1037-1052.	1.7	69
35	Non-destructive Determination of Disintegration Time and Dissolution in Immediate Release Tablets by Terahertz Transmission Measurements. Pharmaceutical Research, 2017, 34, 1012-1022.	1.7	48
36	A Review of Disintegration Mechanisms and Measurement Techniques. Pharmaceutical Research, 2017, 34, 890-917.	1.7	231

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37	Mathematical modelling of liquid transport in swelling pharmaceutical immediate release tablets. <i>International Journal of Pharmaceutics</i> , 2017, 526, 1-10.	2.6	45
38	On the role of API in determining porosity, pore structure and bulk modulus of the skeletal material in pharmaceutical tablets formed with MCC as sole excipient. <i>International Journal of Pharmaceutics</i> , 2017, 526, 321-331.	2.6	17
39	Optics-based compressibility parameter for pharmaceutical tablets obtained with the aid of the terahertz refractive index. <i>International Journal of Pharmaceutics</i> , 2017, 525, 85-91.	2.6	7
40	Characterization of the Pore Structure of Functionalized Calcium Carbonate Tablets by Terahertz Time-Domain Spectroscopy and X-Ray Computed Microtomography. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 1586-1595.	1.6	59
41	The significance of the amorphous potential energy landscape for dictating glassy dynamics and driving solid-state crystallisation. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 30039-30047.	1.3	51
42	Pharmaceutical Film Coating Catalog for Spectral Domain Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , 2017, 106, 3171-3176.	1.6	25
43	Validating terahertz in-line measurement of tablet mixing with discrete element modelling. , 2017, , .		1
44	Analysis of anisotropic pore structures using terahertz spectroscopy and imaging. , 2017, , .		1
45	Characterisation of microstructural changes during the hydration of pharmaceutical tablets using terahertz pulsed imaging. , 2016, , .		0
46	Studying the pharmaceutical film coating process with terahertz sensing, optical coherence tomography and numerical modelling. , 2016, , .		2
47	In-Line Monitoring of a Pharmaceutical Pan Coating Process by Optical Coherence Tomography. <i>Journal of Pharmaceutical Sciences</i> , 2015, 104, 2531-2540.	1.6	36
48	Automated pharmaceutical tablet coating layer evaluation of optical coherence tomography images. <i>Measurement Science and Technology</i> , 2015, 26, 035701.	1.4	18
49	Calibration-free in-line monitoring of pellet coating processes via optical coherence tomography. <i>Chemical Engineering Science</i> , 2015, 125, 200-208.	1.9	48
50	Real-time data processing for in-line monitoring of a pharmaceutical coating process by optical coherence tomography. , 2014, , .		1
51	In-line implementation of an image-based particle size measurement tool to monitor hot-melt extruded pellets. <i>International Journal of Pharmaceutics</i> , 2014, 466, 181-189.	2.6	32
52	Optical coherence tomography as a novel tool for in-line monitoring of a pharmaceutical film-coating process. <i>European Journal of Pharmaceutical Sciences</i> , 2014, 55, 58-67.	1.9	43
53	In-line quality control of moving objects by means of spectral-domain OCT. <i>Optics and Lasers in Engineering</i> , 2014, 59, 1-10.	2.0	14
54	Supervisory Control System for Monitoring a Pharmaceutical Hot Melt Extrusion Process. <i>AAPS PharmSciTech</i> , 2013, 14, 1034-1044.	1.5	57

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55	Optical coherence tomography for non-destructive analysis of coatings in pharmaceutical tablets. Proceedings of SPIE, 2013, , .	0.8	1
56	Hot Melt Extrusion as a Continuous Pharmaceutical Manufacturing Process. AAPS Advances in the Pharmaceutical Sciences Series, 2013, , 363-396.	0.2	9