Vincent Mazel

List of Publications by Year
in descending order

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56	983	361413	501196
papers	citations	20 h-index	28 g-index

56	56	56	759
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Finite Element Method (FEM) modeling of the powder compaction of cosmetic products: Comparison between simulated and experimental results. Powder Technology, 2012, 224, 233-240.	4.2	63
2	Identification of Ritual Blood in African Artifacts Using TOF-SIMS and Synchrotron Radiation Microspectroscopies. Analytical Chemistry, 2007, 79, 9253-9260.	6.5	50
3	Chemical imaging techniques for the analysis of complex mixtures: New application to the characterization of ritual matters on African wooden statuettes. Analytica Chimica Acta, 2006, 570, 34-40.	5.4	49
4	Measurements of Elastic Moduli of Pharmaceutical Compacts: A New Methodology Using Double Compaction on a Compaction Simulator. Journal of Pharmaceutical Sciences, 2012, 101, 2220-2228.	3.3	45
5	FEM simulation of the die compaction of pharmaceutical products: Influence of visco-elastic phenomena and comparison with experiments. International Journal of Pharmaceutics, 2013, 453, 389-394.	5.2	42
6	Identification of Different Copper Green Pigments in Renaissance Paintings by Cluster-TOF-SIMS Imaging Analysis. Journal of the American Society for Mass Spectrometry, 2011, 22, 1729-1736.	2.8	40
7	Investigating the effect of tablet thickness and punch curvature on density distribution using finite elements method. International Journal of Pharmaceutics, 2015, 493, 121-128.	5.2	36
8	Lamination of pharmaceutical tablets due to air entrapment: Direct visualization and influence of the compact thickness. International Journal of Pharmaceutics, 2015, 478, 702-704.	5.2	33
9	On the Links Between Elastic Constants and Effective Elastic Behavior of Pharmaceutical Compacts: Importance of Poissonâ€™s Ratio and Use of Bulk Modulus. Journal of Pharmaceutical Sciences, 2013, 102, 4009-4014.	3.3	31
10	Reevaluation of the diametral compression test for tablets using the flattened disc geometry. International Journal of Pharmaceutics, 2016, 513, 669-677.	5.2	31
11	Confocal micro-X-ray fluorescence analysis as a new tool for the non-destructive study of the elemental distributions in pharmaceutical tablets. Talanta, 2011, 85, 556-561.	5.5	27
12	Original predictive approach to the compressibility of pharmaceutical powder mixtures based on the Kawakita equation. International Journal of Pharmaceutics, 2011, 410, 92-98.	5.2	27
13	Role of the elasticity of pharmaceutical materials on the interfacial mechanical strength of bilayer tablets. International Journal of Pharmaceutics, 2013, 457, 260-267.	5.2	27
14	Study of the Lactobacillus rhamnosus Lcr35Â® properties after compression and proposition of a model to predict tablet stability. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 787-794.	4.3	27
15	Evolution of the Die-Wall Pressure during the Compression of Biconvex Tablets: Experimental Results and Comparison with FEM Simulation. Journal of Pharmaceutical Sciences, 2015, 104, 4339-4344.	3.3	22
16	Animal urine as painting materials in African rock art revealed by cluster ToFâ€SIMS mass spectrometry imaging. Journal of Mass Spectrometry, 2010, 45, 944-950.	1.6	21
17	Polymorphism of Irganox 1076Â®: Discovery of new forms and direct characterization of the polymorphs on a medical device by Raman microspectroscopy. European Journal of Pharmaceutics and Biopharmaceutics, 2010, 75, 443-450.	4.3	21
18	Comparative study between Drucker-Prager/Cap and modified Cam-Clay models for the numerical simulation of die compaction of pharmaceutical powders. Powder Technology, 2017, 320, 530-539.	4.2	21

#	ARTICLE	IF	CITATIONS
19	Lamination of biconvex tablets: Numerical and experimental study. International Journal of Pharmaceutics, 2018, 542, 66-71.	5.2	21
20	The patinas of the Dogonâ€"Tellem statuary: A new vision through physico-chemical analyses. Journal of Cultural Heritage, 2008, 9, 347-353.	3.3	20
21	Comparison of different failure tests for pharmaceutical tablets: Applicability of the Druckerâ€"Prager failure criterion. International Journal of Pharmaceutics, 2014, 470, 63-69.	5.2	20
22	Aging of a medical device surface following cold plasma treatment: Influence of low molecular weight compounds on surface recovery. European Polymer Journal, 2011, 47, 2403-2413.	5.4	18
23	Prediction of the compressibility of complex mixtures of pharmaceutical powders. International Journal of Pharmaceutics, 2012, 436, 862-868.	5.2	17
24	The microscopic (optical and SEM) examination of putrefaction fluid deposits (PFD). Potential interest in forensic anthropology. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2008, 453, 377-386.	2.8	16
25	Image Analysis Quantification of Sticking and Picking Events of Pharmaceutical Powders Compressed on a Rotary Tablet Press Simulator. Pharmaceutical Research, 2013, 30, 2303-2314.	3.5	15
26	The surface layer of pharmaceutical compacts: The role of the punch surface and its impact on the mechanical properties of the compacts. International Journal of Pharmaceutics, 2013, 442, 42-48.	5.2	13
27	Development of a new test for the easy characterization of the adhesion at the interface of bilayer tablets: Proof-of-concept study by experimental design. International Journal of Pharmaceutics, 2014, 477, 476-484.	5.2	13
28	Influence of the Punch Speed on the Die Wall/Powder Kinematic Friction During Tableting. Journal of Pharmaceutical Sciences, 2019, 108, 3359-3365.	3.3	13
29	Mechanistic Approach to Stability Studies as a Tool for the Optimization and Development of New Products Based on L. rhamnosus Lcr35Â® in Compliance with Current Regulations. PLoS ONE, 2013, 8, e79041.	2.5	12
30	Comparison of breaking tests for the characterization of the interfacial strength of bilayer tablets. International Journal of Pharmaceutics, 2016, 513, 709-716.	5.2	12
31	Sensitivity of elastic parameters during the numerical simulation of pharmaceutical die compaction process with Drucker-Prager/Cap model. Powder Technology, 2018, 332, 150-157.	4.2	12
32	Lamination of Pharmaceutical Tablets: Classification and Influence of Process Parameters. Journal of Pharmaceutical Sciences, 2022, 111, 1480-1485.	3.3	12
33	Blooming of Irganox 3114Â® antioxidant onto a medical grade elastomer. Impact of the recrystallization conditions on the antioxidant polymorphism, on the film wettability and on the antioxidant leachability. International Journal of Pharmaceutics, 2012, 437, 89-99.	5.2	11
34	Breaking pharmaceutical tablets with a hole: Reevaluation of the stress concentration factor and influence of the hole size. Powder Technology, 2017, 317, 126-132.	4.2	11
35	Influence of the unloading conditions on capping and lamination: Study on a compaction simulator. International Journal of Pharmaceutics, 2019, 567, 118468.	5.2	10
36	Beyond Brittle/Ductile Classification: Applying Proper Constitutive Mechanical Metrics to Understand the Compression Characteristics of Pharmaceutical Materials. Journal of Pharmaceutical Sciences, 2022, 111, 1984-1991.	3.3	10

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37	Anisotropic Porous Structure of Pharmaceutical Compacts Evaluated by PGSTE-NMR in Relation to Mechanical Property Anisotropy. Pharmaceutical Research, 2010, 27, 2221-2233.	3.5	9
38	Quantification of tablet sensitivity to a stress concentration: Generalization of Hiestand's approach and link with the microstructure. Powder Technology, 2020, 369, 176-183.	4.2	9
39	On the complexity of predicting tablet capping. International Journal of Pharmaceutics, 2022, 623, 121949.	5.2	9
40	Study of the Validity of the Three-Point Bending Test for Pharmaceutical Round Tablets Using Finite Element Method Modeling. Journal of Pharmaceutical Sciences, 2014, 103, 1305-1308.	3.3	8
41	Characterization and modeling of the viscoelasticity of pharmaceutical tablets. International Journal of Pharmaceutics, 2020, 587, 119695.	5.2	8
42	Use of impulse excitation technique for the characterization of the elastic anisotropy of pharmaceutical tablets. International Journal of Pharmaceutics, 2021, 605, 120797.	5.2	8
43	Applicability of impulse excitation technique as a tool to characterize the elastic properties of pharmaceutical tablets: Experimental and numerical study. International Journal of Pharmaceutics, 2020, 590, 119892.	5.2	7
44	Shear strength of pharmaceutical tablets: Theoretical considerations, evaluation and relation with the capping tendency of biconvex tablets. International Journal of Pharmaceutics, 2017, 532, 421-426.	5.2	6
45	Role of Precompression in the Mitigation of Capping: A Case Study. Journal of Pharmaceutical Sciences, 2020, 109, 3210-3213.	3.3	6
46	Development and pre-clinical evaluation in the swine model of a mucosal vaccine tablet for human influenza viruses: A proof-of-concept study. International Journal of Pharmaceutics, 2018, 538, 87-96.	5.2	5
47	Effect of friction between powder and tooling on the die-wall pressure evolution during tableting: Experimental and numerical results for flat and concave punches. International Journal of Pharmaceutics, 2019, 554, 116-124.	5.2	5
48	Effect of the compaction parameters on the final structure and properties of a press-coated tablet (Tab-in-Tab): Experimental and numerical study of the influence of core and shell dimensions. International Journal of Pharmaceutics, 2021, 596, 120260.	5.2	5
49	Dynamic fracture analysis in Brazilian test: application to pharmaceutical tablets. International Journal of Fracture, 2021, 229, 113.	2.2	5
50	Breaking patterns of press-coated tablets during the diametral compression test: Influence of the product, geometry and process parameters. International Journal of Pharmaceutics, 2022, 612, 121371.	5.2	5
51	DISCOVERY AND CHARACTERIZATION OF AN UNKNOWN BLUEâ€GREEN MAYA PIGMENT: VESZELYITE*. Archaeometry, 2008, 50, 658-667.	1.3	4
52	Effect of the Curvature of the Punches on the Shape of the Interface and the Delamination Tendency of Bilayer Tablets. Journal of Pharmaceutical Sciences, 2017, 106, 1331-1338.	3.3	4
53	Characterization of the viscoelasticity of pharmaceutical tablets using impulse excitation technique. International Journal of Pharmaceutics, 2022, 613, 121410.	5.2	4
54	Impact of unloading kinematics on the occurrence of capping during the production of pharmaceutical tablets. International Journal of Pharmaceutics, 2022, 621, 121818.	5.2	4

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55	Use of jump-tests for the characterization of the viscoplastic behavior of pharmaceutical powders during compaction. Powder Technology, 2022, 404, 117406.	4.2	3
56	Influence of the punch shape on the core and shell structure of press-coated tablets. International Journal of Pharmaceutics, 2022, 623, 121930.	5.2	0