Antonios Zavaliangos

List of Publications by Year
in descending order

31 papers	2,250 citations	394421 19 h-index	477307 29 g-index
31 all docs	31 docs citations	31 times ranked	1559 citing authors

#	Article	IF	Citations
1	Effect of Tensile Stresses on the Evolution of Post-Compaction Properties of Sodium Chloride Tablets and Its Mixtures. Journal of Pharmaceutical Sciences, 2020, 109, 1115-1122.	3.3	2
2	On the Post-Compaction Evolution of Tensile Strength of Sodium Chloride-Starch Mixture Tablets. Journal of Pharmaceutical Sciences, 2017, 106, 2088-2096.	3.3	6
3	Prediction of Air Entrapment in Tableting: An Approximate Solution. Journal of Pharmaceutical Sciences, 2017, 106, 3604-3612.	3.3	7
4	Scanning Electron Microscope Observations of Powder Sticking on Punches during a Limited Number (NÂ<Ã5) of Compactions of Acetylsalicylic Acid. Pharmaceutical Research, 2017, 34, 2012-2024.	3.5	10
5	A Simplified Model of Moisture Transport in Hydrophilic Porous Media With Applications to Pharmaceutical Tablets. Journal of Pharmaceutical Sciences, 2016, 105, 2410-2418.	3.3	8
6	On the forceâ€“displacement law of contacts between spheres pressed to high relative densities. International Journal of Solids and Structures, 2015, 60-61, 17-27.	2.7	19
7	Fully coupled thermalâ€“electric-sintering simulation of electric field assisted sintering of net-shape compacts. Journal of Materials Science, 2015, 50, 519-530.	3.7	16
8	The extrapolation of the Druckerâ€“Prager/Cap material parameters to low and high relative densities. Powder Technology, 2015, 283, 210-226.	4.2	30
9	Discrete Finite-Element Simulation of Thermoelectric Phenomena in Spark Plasma Sintering. Journal of Electronic Materials, 2011, 40, 873-878.	2.2	18
10	Understanding variation in roller compaction through finite element-based process modeling. Computers and Chemical Engineering, 2010, 34, 1058-1071.	3.8	63
11	Temperature and density evolution during compaction of a capsule shaped tablet. Computers and Chemical Engineering, 2010, 34, 1082-1091.	3.8	36
12	Multi-phenomena simulation of electric field assisted sintering. Journal of Materials Science, 2008, 43, 5031-5035.	3.7	39
13	Temperature Evolution during Compaction of Pharmaceutical Powders. Journal of Pharmaceutical Sciences, 2008, 97, 3291-3304.	3.3	51
14	Influence of Pressure Oscillation on the Compaction of Powder Mixtures Containing Soft and Hard Components. , 2006, , 296-301.		0
15	The modeling of electric-current-assisted sintering to produce bulk nanocrystalline tungsten. Jom, 2006, 58, 67-71.	1.9	36
16	Simulation of multi-axial compaction of granular media from loose to high relative densities. Journal of the Mechanics and Physics of Solids, 2005, 53, 1523-1551.	4.8	128
17	Strength anisotropy in cold compacted ductile and brittle powders. Acta Materialia, 2005, 53, 4801-4815.	7.9	40
18	DNET: The Drexel Nano Engineering Track.. Materials Research Society Symposia Proceedings, 2004, 827, 182.	0.1	0

#	Article	IF	Citations
19	Temperature evolution during field activated sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 379, 218-228.	5.6	197
20	Comparison of various modeling methods for analysis of powder compaction in roller press. Powder Technology, 2003, 130, 265-271.	4.2	109
21	A Numerical Study of the Development of Tensile Principal Stresses During Die Compaction. Particulate Science and Technology, 2003, 21, 105-115.	2.1	20
22	A Multiparticle Simulation of Powder Compaction Using Finite Element Discretization of Individual Particles. Materials Research Society Symposia Proceedings, 2002, 731, 711.	0.1	11
23	Sintering activation by external electrical field. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 287, 171-177.	5.6	384
24	A comparative characterization of near-equiaxed microstructures as produced by spray casting, magnetohydrodynamic casting and the stress induced, melt activated process. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 289, 217-227.	5.6	125
25	On the approximation of the partial areas method in the calculation of the fraction of solid. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2000, 31, 877-879.	2.1	2
26	Materials Selection for Semisolid Processing. Materials and Manufacturing Processes, 1999, 14, 217-230.	4.7	25
27	Ambientâ€and Highâ€Temperature Properties of Titanium Carbideâ€“Titanium Boride Composites Fabricated by Transient Plastic Phase Processing. Journal of the American Ceramic Society, 1999, 82, 665-672.	3.8	26
28	Processing and Mechanical Properties of Ti₃SiC₂: II, Effect of Grain Size and Deformation Temperature. Journal of the American Ceramic Society, 1999, 82, 2855-2860.	3.8	335
29	Dislocations and Stacking Faults in Ti₃SiC₂. Journal of the American Ceramic Society, 1998, 81, 1677-1681.	3.8	91
30	Damage Mechanisms around Hardness Indentations in Ti₃SiC₂. Journal of the American Ceramic Society, 1997, 80, 513-516.	3.8	331
31	Microstructural Evolution during Transient Plastic Phase Processing of Titanium Carbide-Titanium Boride Composites. Journal of the American Ceramic Society, 1996, 79, 1945-1952.	3.8	85