

Antonios Zavaliangos

List of Publications by Year in descending order

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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	Sintering activation by external electrical field. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2000, 287, 171-177.	5.6	384
2	Processing and Mechanical Properties of Ti ₃ SiC ₂ : II, Effect of Grain Size and Deformation Temperature. Journal of the American Ceramic Society, 1999, 82, 2855-2860.	3.8	335
3	Damage Mechanisms around Hardness Indentations in Ti ₃ SiC ₂ . Journal of the American Ceramic Society, 1997, 80, 513-516.	3.8	331
4	Temperature evolution during field activated sintering. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2004, 379, 218-228.	5.6	197
5	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
6	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
7	Comparison of various modeling methods for analysis of powder compaction in roller press. Powder Technology, 2003, 130, 265-271.	4.2	109
8	Dislocations and Stacking Faults in Ti ₃ SiC ₂ . Journal of the American Ceramic Society, 1998, 81, 1677-1681.	3.8	91
9	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
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 Evolution during Compaction of Pharmaceutical Powders. Journal of Pharmaceutical Sciences, 2008, 97, 3291-3304.	3.3	51
12	Strength anisotropy in cold compacted ductile and brittle powders. Acta Materialia, 2005, 53, 4801-4815.	7.9	40
13	Multi-phenomena simulation of electric field assisted sintering. Journal of Materials Science, 2008, 43, 5031-5035.	3.7	39
14	The modeling of electric-current-assisted sintering to produce bulk nanocrystalline tungsten. Jom, 2006, 58, 67-71.	1.9	36
15	Temperature and density evolution during compaction of a capsule shaped tablet. Computers and Chemical Engineering, 2010, 34, 1082-1091.	3.8	36
16	The extrapolation of the Drucker-Prager/Cap material parameters to low and high relative densities. Powder Technology, 2015, 283, 210-226.	4.2	30
17	Ambient and High Temperature Properties of Titanium Carbide-Titanium Boride Composites Fabricated by Transient Plastic Phase Processing. Journal of the American Ceramic Society, 1999, 82, 665-672.	3.8	26
18	Materials Selection for Semisolid Processing. Materials and Manufacturing Processes, 1999, 14, 217-230.	4.7	25

#	ARTICLE	IF	CITATIONS
19	A Numerical Study of the Development of Tensile Principal Stresses During Die Compaction. Particulate Science and Technology, 2003, 21, 105-115.	2.1	20
20	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
21	Discrete Finite-Element Simulation of Thermoelectric Phenomena in Spark Plasma Sintering. Journal of Electronic Materials, 2011, 40, 873-878.	2.2	18
22	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
23	A Multiparticle Simulation of Powder Compaction Using Finite Element Discretization of Individual Particles. Materials Research Society Symposia Proceedings, 2002, 731, 711.	0.1	11
24	Scanning Electron Microscope Observations of Powder Sticking on Punches during a Limited Number (N<A5) of Compactions of Acetylsalicylic Acid. Pharmaceutical Research, 2017, 34, 2012-2024.	3.5	10
25	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
26	Prediction of Air Entrapment in Tableting: An Approximate Solution. Journal of Pharmaceutical Sciences, 2017, 106, 3604-3612.	3.3	7
27	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
28	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
29	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
30	DNET: The Drexel Nano Engineering Track.. Materials Research Society Symposia Proceedings, 2004, 827, 182.	0.1	0
31	Influence of Pressure Oscillation on the Compaction of Powder Mixtures Containing Soft and Hard Components. , 2006, , 296-301.		0