

GÃ¶ran Frenning

List of Publications by Year in descending order

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Version: 2024-02-01

64
papers

1,231
citations

279798

23
h-index

395702

33
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65
all docs

65
docs citations

65
times ranked

1115
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pressure drop on the in vitro dispersion of adhesive mixtures of different blend states for inhalation. <i>International Journal of Pharmaceutics</i> , 2022, 617, 121590.	5.2	1
2	Towards a macroscopically consistent discrete method for granular materials: Delaunay strain-based formulation. <i>Computational Particle Mechanics</i> , 2022, 9, 1105-1118.	3.0	2
3	Determination of Intrinsic Drug Dissolution and Solute Effective Transport Rate during Laminar Fluid Flow at Different Velocities. <i>Pharmaceutics</i> , 2021, 13, 835.	4.5	2
4	Effect of fine particle shape on the stability and performance of adhesive mixtures intended for inhalation. <i>Powder Technology</i> , 2021, 385, 299-305.	4.2	5
5	Effect of carrier size and mechanical properties on adhesive unit stability for inhalation: A numerical study. <i>Powder Technology</i> , 2021, 390, 230-239.	4.2	4
6	On the relationship between blend state and dispersibility of adhesive mixtures containing active pharmaceutical ingredients. <i>International Journal of Pharmaceutics: X</i> , 2021, 3, 100069.	1.6	1
7	Numerical modeling of collision of adhesive units: Stability and mechanical properties during handling. <i>Chemical Engineering Science: X</i> , 2020, 6, 100051.	1.5	0
8	Nanoscale characterization of PEGylated phospholipid coatings formed by spray drying on silica microparticles. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 92-100.	9.4	8
9	Model for the Analysis of Membrane-Type Dissolution Tests for Inhaled Drugs. <i>Molecular Pharmaceutics</i> , 2020, 17, 2426-2434.	4.6	6
10	Linking carrier morphology to the powder mechanics of adhesive mixtures for dry powder inhalers via a blend-state model. <i>International Journal of Pharmaceutics</i> , 2019, 561, 148-160.	5.2	23
11	Crack nucleation and propagation in microcrystalline-cellulose based granules subject to uniaxial and triaxial load. <i>International Journal of Pharmaceutics</i> , 2019, 559, 130-137.	5.2	5
12	Evaluation of bulk compression using a discrete element procedure calibrated with data from triaxial compression experiments on single particles. <i>Powder Technology</i> , 2019, 345, 74-81.	4.2	10
13	Relationships between surface coverage ratio and powder mechanics of binary adhesive mixtures for dry powder inhalers. <i>International Journal of Pharmaceutics</i> , 2018, 541, 143-156.	5.2	31
14	Compressibility and tablet forming ability of bimodal granule mixtures: Experiments and DEM simulations. <i>International Journal of Pharmaceutics</i> , 2018, 540, 120-131.	5.2	18
15	Computational fluid dynamics (CFD) studies of a miniaturized dissolution system. <i>International Journal of Pharmaceutics</i> , 2017, 521, 274-281.	5.2	5
16	Mechanical behaviour of ideal elastic-plastic particles subjected to different triaxial loading conditions. <i>Powder Technology</i> , 2017, 315, 347-355.	4.2	7
17	Electrostatic Swelling Transitions in Surface-Bound Microgels. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27129-27139.	8.0	23
18	Investigations of single microcrystalline cellulose-based granules subjected to confined triaxial compression. <i>Powder Technology</i> , 2016, 289, 79-87.	4.2	13

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19	Compression analysis for assessment of pellet plasticity: Identification of reactant pores and comparison between Heckel, Kawakita, and Adams equations. <i>Chemical Engineering Research and Design</i> , 2016, 110, 183-191.	5.6	24
20	An experimental evaluation of discrete element simulations of confined powder compression using an extended truncated-sphere model. <i>Powder Technology</i> , 2015, 284, 257-264.	4.2	13
21	Efficient Voronoi volume estimation for DEM simulations of granular materials under confined conditions. <i>MethodsX</i> , 2015, 2, 79-90.	1.6	7
22	Towards a mechanistic contact model for elastoplastic particles at high relative densities. <i>Finite Elements in Analysis and Design</i> , 2015, 104, 56-60.	3.2	10
23	An apparatus for confined triaxial testing of single particles. <i>Powder Technology</i> , 2015, 270, 121-127.	4.2	7
24	Chain and Pore-Blocking Effects on Matrix Degradation in Protein-Loaded Microgels. <i>Biomacromolecules</i> , 2014, 15, 3671-3678.	5.4	16
25	A comparison between two powder compaction parameters of plasticity: The effective medium A parameter and the Heckel 1/K parameter. <i>International Journal of Pharmaceutics</i> , 2013, 453, 295-299.	5.2	25
26	The influence of rolling friction on the shear behaviour of non-cohesive pharmaceutical granules – An experimental and numerical investigation. <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 241-250.	4.0	7
27	Factors Affecting Enzymatic Degradation of Microgel-Bound Peptides. <i>Biomacromolecules</i> , 2013, 14, 2317-2325.	5.4	34
28	The degree of compression of spherical granular solids controls the evolution of microstructure and bond probability during compaction. <i>International Journal of Pharmaceutics</i> , 2013, 442, 3-12.	5.2	28
29	Towards a mechanistic model for the interaction between plastically deforming particles under confined conditions: A numerical and analytical analysis. <i>Materials Letters</i> , 2013, 92, 365-368.	2.6	17
30	An experimental evaluation of an effective medium based compaction equation. <i>European Journal of Pharmaceutical Sciences</i> , 2012, 46, 49-55.	4.0	5
31	An experimental evaluation of the accuracy to simulate granule bed compression using the discrete element method. <i>Powder Technology</i> , 2012, 219, 249-256.	4.2	25
32	A model describing the internal structure of core/shell hydrogels. <i>Soft Matter</i> , 2011, 7, 10327.	2.7	44
33	Modelling drug release from inert matrix systems: From moving-boundary to continuous-field descriptions. <i>International Journal of Pharmaceutics</i> , 2011, 418, 88-99.	5.2	71
34	Flowability of surface modified pharmaceutical granules: A comparative experimental and numerical study. <i>European Journal of Pharmaceutical Sciences</i> , 2011, 42, 199-209.	4.0	20
35	Modeling Structure-Function Relationships for Diffusive Drug Transport in Inert Porous Geopolymer Matrices. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 4338-4348.	3.3	27
36	The release of cationic mixtures embedded in gels: An approximate analytical analysis. <i>AIChE Journal</i> , 2011, 57, 1402-1408.	3.6	1

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37	Effect of spherical-agglomerate strength on the distribution of force during uniaxial compression. Powder Technology, 2011, 206, 283-290.	4.2	1
38	Effect of lubrication on the distribution of force between spherical agglomerates during compression. Powder Technology, 2010, 198, 69-74.	4.2	7
39	Compression mechanics of granule beds: A combined finite/discrete element study. Chemical Engineering Science, 2010, 65, 2464-2471.	3.8	38
40	Effective Kawakita parameters for binary mixtures. Powder Technology, 2009, 189, 270-275.	4.2	31
41	An effective-medium analysis of confined compression of granular materials. Powder Technology, 2009, 194, 228-232.	4.2	14
42	Implications of regular solution theory on the release mechanism of cationic mixtures from gels. Colloids and Surfaces B: Biointerfaces, 2009, 71, 214-225.	5.0	16
43	Proton Absorption in As-Synthesized Mesoporous Silica Nanoparticles as a Structure-Function Relationship Probing Mechanism. Langmuir, 2009, 25, 4306-4310.	3.5	7
44	Relating solubility data of parabens in liquid PEG 400 to the behaviour of PEG 4000-parabens solid dispersions. European Journal of Pharmaceutics and Biopharmaceutics, 2009, 73, 260-268.	4.3	19
45	Ionic Motion in Polypyrrole~Cellulose Composites: Trap Release Mechanism during Potentiostatic Reduction. Journal of Physical Chemistry B, 2009, 113, 4582-4589.	2.6	30
46	Order and Disorder in Powder Mixtures: Spatial Distribution Functions as Tools to Assess Powder Homogeneity. Particle and Particle Systems Characterization, 2008, 25, 397-405.	2.3	0
47	On the physical interpretation of the Kawakita and Adams parameters derived from confined compression of granular solids. Powder Technology, 2008, 182, 424-435.	4.2	77
48	Spectral analysis of force fluctuations during probe penetration into cohesive powders. Powder Technology, 2008, 187, 62-67.	4.2	4
49	An efficient finite/discrete element procedure for simulating compression of 3D particle assemblies. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 4266-4272.	6.6	59
50	Analysis of pharmaceutical powder compaction using multiplicative hyperelasto-plastic theory. Powder Technology, 2007, 172, 103-112.	4.2	40
51	Conductivity Percolation in Loosely Compacted Microcrystalline Cellulose: An in Situ Study by Dielectric Spectroscopy during Densification. Journal of Physical Chemistry B, 2006, 110, 20502-20506.	2.6	18
52	Influence of polymer molecular weight on the solid-state structure of PEG/monoolein mixtures. Polymer, 2005, 46, 12210-12217.	3.8	7
53	A new method for characterizing the release of drugs from single agglomerates. Chemical Engineering Science, 2005, 60, 3909-3918.	3.8	15
54	Finite element analysis of the release of slowly dissolving drugs from cylindrical matrix systems. Journal of Controlled Release, 2005, 107, 320-329.	9.9	49

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55	Evolution of distributions and spatial correlations of single-particle forces and stresses during compression of ductile granular materials. <i>Physical Review E</i> , 2005, 71, 011305.	2.1	4
56	Generalized regular singular-point description of low-frequency dielectric responses. <i>Physical Review B</i> , 2004, 70, .	3.2	0
57	Theoretical analysis of the release of slowly dissolving drugs from spherical matrix systems. <i>Journal of Controlled Release</i> , 2004, 95, 109-117.	9.9	30
58	Compression behaviour and tablet-forming ability of spray-dried amorphous composite particles. <i>European Journal of Pharmaceutical Sciences</i> , 2004, 22, 191-200.	4.0	43
59	Characterization of the Drug Release Process by Investigation of Its Temperature Dependence. <i>Journal of Pharmaceutical Sciences</i> , 2004, 93, 1796-1803.	3.3	11
60	Solid-State Characterization of PEG 4000/Monoolein Mixtures. <i>Macromolecules</i> , 2004, 37, 2665-2667.	4.8	8
61	Drug release from reservoir pellets compacted with some excipients of different physical properties. <i>European Journal of Pharmaceutical Sciences</i> , 2003, 20, 469-479.	4.0	29
62	Modelling of drug release from coated granular pellets. <i>Journal of Controlled Release</i> , 2003, 92, 113-123.	9.9	44
63	Theoretical investigation of drug release from planar matrix systems: effects of a finite dissolution rate. <i>Journal of Controlled Release</i> , 2003, 92, 331-339.	9.9	56
64	A New Method for Characterizing the Release of Drugs from Tablets in low Liquid Surroundings. <i>Journal of Pharmaceutical Sciences</i> , 2002, 91, 776-784.	3.3	25