

Bettina Suhr

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2518901/publications.pdf>

Version: 2024-02-01

15
papers

273
citations

1039880

9
h-index

996849

15
g-index

15
all docs

15
docs citations

15
times ranked

229
citing authors

#	ARTICLE	IF	CITATIONS
1	Simple particle shapes for DEM simulations of railway ballast: influence of shape descriptors on packing behaviour. Granular Matter, 2020, 22, 43.	1.1	46
2	Comparison of two different types of railway ballast in compression and direct shear tests: experimental results and DEM model validation. Granular Matter, 2018, 20, 70.	1.1	32
3	Parametrisation of a DEM model for railway ballast under different load cases. Granular Matter, 2017, 19, 64.	1.1	29
4	Micro-mechanical investigation of railway ballast behavior under cyclic loading in a box test using DEM: effects of elastic layers and ballast types. Granular Matter, 2019, 21, 106.	1.1	29
5	On the effect of stress dependent interparticle friction in direct shear tests. Powder Technology, 2016, 294, 211-220.	2.1	27
6	Nacre properties in the elastic range: Influence of matrix incompressibility. Computational Materials Science, 2007, 41, 96-106.	1.4	25
7	Friction phenomena and their impact on the shear behaviour of granular material. Computational Particle Mechanics, 2017, 4, 23-34.	1.5	19
8	Shape analysis of railway ballast stones: curvature-based calculation of particle angularity. Scientific Reports, 2020, 10, 6045.	1.6	16
9	Search, reuse and sharing of research data in materials science and engineering – A qualitative interview study. PLoS ONE, 2020, 15, e0239216.	1.1	12
10	Implementation of an algorithm for general material behavior of steel taking interaction between plasticity and transformation-induced plasticity into account. International Journal for Numerical Methods in Engineering, 2011, 87, 1183-1206.	1.5	9
11	Parameter identification for an Armstrong-Frederick hardening law for supercooled austenite of SAE 52100 steel. Computational Materials Science, 2010, 50, 487-495.	1.4	8
12	Friction and wear in railway ballast stone interfaces. Tribology International, 2020, 151, 106498.	3.0	8
13	Model order reduction via proper orthogonal decomposition for a lithium-ion cell. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2013, 32, 1735-1748.	0.5	7
14	DEM modelling of railway ballast using the Conical Damage Model: a comprehensive parametrisation strategy. Granular Matter, 2022, 24, 40.	1.1	5
15	Curvature Based Forming Limit Prediction of High-Strength Steel Components with Superimposed Stretching and Bending in the Deep Drawing Process. Key Engineering Materials, 2015, 651-653, 181-186.	0.4	1