

Shengqiang Jiang

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

630
citations

567281

15
h-index

580821

25
g-index

32
all docs

32
docs citations

32
times ranked

415
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical investigation of the location of maximum erosive wear damage in elbow: Effect of slurry velocity, bend orientation and angle of elbow. Powder Technology, 2012, 217, 467-476.	4.2	106
2	Experimental and DEM studies on the particle mixing performance in rotating drums: Effect of area ratio. Powder Technology, 2017, 314, 182-194.	4.2	57
3	CFD-DEM study on heat transfer characteristics and microstructure of the blast furnace raceway with ellipsoidal particles. Powder Technology, 2019, 346, 350-362.	4.2	50
4	Discrete Element Simulation of the Effect of Roller-Spreading Parameters on Powder-Bed Density in Additive Manufacturing. Materials, 2020, 13, 2285.	2.9	39
5	Calibration of parallel bond parameters in bonded particle models via physics-informed adaptive moment optimisation. Powder Technology, 2020, 366, 527-536.	4.2	37
6	Discrete element simulation of particle motion in ball mills based on similarity. Powder Technology, 2018, 335, 91-102.	4.2	33
7	Influence of particle shape on microstructure and heat transfer characteristics in blast furnace raceway with CFD-DEM approach. Powder Technology, 2020, 361, 283-296.	4.2	32
8	Comparison of roller-spreading and blade-spreading processes in powder-bed additive manufacturing by DEM simulations. Particuology, 2022, 66, 48-58.	3.6	25
9	Discrete element simulation of SiC ceramic with pre-existing random flaws under uniaxial compression. Ceramics International, 2017, 43, 13717-13728.	4.8	23
10	Mixing uniformity of irregular sand and gravel materials in a rotating drum with determination of contact model parameters. Powder Technology, 2019, 354, 377-391.	4.2	23
11	Experimental and DEM studies on the transition of axial segregation in a truck mixer. Powder Technology, 2017, 314, 148-163.	4.2	21
12	Preparation and characterization of magnetorheological elastic polishing composites. Journal of Intelligent Material Systems and Structures, 2019, 30, 1481-1492.	2.5	19
13	Numerical study of concrete mixing transport process and mixing mechanism of truck mixer. Engineering Computations, 2015, 32, 1041-1065.	1.4	17
14	Discrete element simulation of SiC ceramic containing a single pre-existing flaw under uniaxial compression. Ceramics International, 2018, 44, 3261-3276.	4.8	17
15	DEM modeling of crack coalescence between two parallel flaws in SiC ceramics. Ceramics International, 2019, 45, 14997-15014.	4.8	16
16	Numerical simulation of concrete pumping process and investigation of wear mechanism of the piping wall. Tribology International, 2011, , .	5.9	14
17	Scratching of Al ₂ O ₃ under pre-stressing. Journal of Materials Processing Technology, 2011, 211, 1217-1223.	6.3	14
18	Numerical Investigation on the Effect of the Particle Feeding Order on the Degree of Mixing Using DEM. Procedia Engineering, 2015, 102, 1850-1856.	1.2	12

#	ARTICLE	IF	CITATIONS
19	Numerical study on the discharging homogeneity of fresh concrete in truck mixer: Effect of motion parameters. Particulate Science and Technology, 2018, 36, 146-153.	2.1	11
20	Influence of random pore defects on failure mode and mechanical properties of SiC ceramics under uniaxial compression using discrete element method. Ceramics International, 2018, 44, 22271-22282.	4.8	11
21	Modeling and estimation of hole-type flaws on cracking mechanism of SiC ceramics under uniaxial compression: A 2D DEM simulation. Theoretical and Applied Fracture Mechanics, 2020, 105, 102398.	4.7	11
22	Mechanical behavior of SiC ceramics with single flaw under three-point bending. Ceramics International, 2021, 47, 18625-18634.	4.8	8
23	Simulation of Ceramic Grinding Mechanism Based on Discrete Element Method. International Journal of Computational Methods, 2019, 16, 1843008.	1.3	7
24	Discrete element modeling of the machining processes of brittle materials: recent development and future prospective. International Journal of Advanced Manufacturing Technology, 2020, 109, 2795-2829.	3.0	7
25	Prestress Scratching on SiC Ceramic. International Journal of Applied Ceramic Technology, 2012, 9, 322-328.	2.1	6
26	An Effective Inverse Procedure for Identifying DEM Parameters of Rock-Like Materials. Mathematical Problems in Engineering, 2019, 2019, 1-13.	1.1	5
27	Study of mixing and discharging of dry particles in a truck mixer. Particulate Science and Technology, 2020, 38, 271-285.	2.1	3
28	Investigation of the polishing mechanism of magnetorheological elastic polishing composites. International Journal of Advanced Manufacturing Technology, 2022, 118, 377-389.	3.0	3
29	Investigation of the Effects of Roller Spreading Parameters on Powder Bed Quality in Selective Laser Sintering. Materials, 2022, 15, 3849.	2.9	2
30	Discrete Element Simulation of Factors Affecting the Fluidity of Nylon Powder. Mathematical Problems in Engineering, 2019, 2019, 1-10.	1.1	1
31	Optimization of the Stirring Blade Structure of the Pumping Unit Based on the Improvement of Concrete Suction Efficiency. Advances in Civil Engineering, 2022, 2022, 1-17.	0.7	0