S Joseph Antony

List of Publications by Year
in descending order

43 papers	766 citations	759233 12 h-index	501196 28 g-index
44 all docs	44 docs citations	44 times ranked	539 citing authors

#	Article	IF	Citations
1	Assessment of Effect of Tidal Level and Footing Proximities on Retaining Wall-Grain Interactions Using Finite Element Method. , 2022, , 125-133.		0
2	Whole-Field Stress Sensing and Multiscale Mechanics for Developing Cement-Based Composites Containing Recycled Municipal Granular Wastes. Sustainability, 2021, 13, 848.	3.2	0
3	Modeling the Flow Characteristics of Granular Materials under Low Gravity Environments Using Discrete Element Method. , 2021, , .		1
4	Optimal Dispatch Strategy of Virtual Power Plant for Day-Ahead Market Framework. Applied Sciences (Switzerland), 2021, 11, 3814.	2.5	19
5	IoT-Based Real Time Energy Management of Virtual Power Plant Using PLC for Transactive Energy Framework. IEEE Access, 2021, 9, 97643-97660.	4.2	35
6	Local Scale Displacement Fields in Grainsâ€"Structure Interactions Under Cyclic Loading: Experiments and Simulations. Geotechnical and Geological Engineering, 2020, 38, 1277-1294.	1.7	6
7	Foundation relative stiffness effects in sand under static loading. AIP Conference Proceedings, 2020, , .	0.4	2
8	Fabrics-Shear Strength Links of Silicon-Based Granular Assemblies. Journal of Mechanics, 2020, 36, 323-330.	1.4	2
9	Local and Global Granular Mechanical Characteristics of Grainâ€"Structure Interactions. Indian Geotechnical Journal, 2018, 48, 753-767.	1.4	9
10	Sensing, Measuring and Modelling the Mechanical Properties of Sandstone. Rock Mechanics and Rock Engineering, 2018, 51, 451-464.	5.4	5
11	Interaction of a rigid beam resting on a strong granular layer overlying weak granular soil: Multi-methodological investigations. Journal of Terramechanics, 2018, 79, 23-32.	3.1	7
12	Flow Behavior of Grains through the Dosing Station of Spacecraft under Low-Gravity Environments. Journal of Aerospace Engineering, 2017, 30, 04017078.	1.4	2
13	Photonics and fracture toughness of heterogeneous composite materials. Scientific Reports, 2017, 7, 4539.	3.3	6
14	Structures and orientation-dependent interaction forces of titania nanowires using molecular dynamics simulations. Journal of Nanoparticle Research, 2017, 19, 1.	1.9	3
15	Strength and Durability of Composite Concretes with Municipal Wastes. ACI Materials Journal, 2016, 113, .	0.2	2
16	Sensing Temperature and Stress Distributions on Rock Samples under Mechanical Loading. , 2016, , .		1
17	Modelling the Flow Behaviour of Granular Media through the Dosing Station of a Spacecraft under Low Gravitational Environments. , 2016, , .		1
18	Durability and Microstructure of Cement Composites Containing Qatar's Municipal Wastes. , 2016, , .		0

#	Article	IF	Citations
19	Imaging shear stress distribution and evaluating the stress concentration factor of the human eye. Scientific Reports, 2015, 5, 8899.	3.3	13
20	Interplay between the inclusions of different sizes and their proximity to the wall boundaries on the nature of their stress distribution within the inclusions inside particulate packing. Powder Technology, 2015, 286, 98-106.	4.2	2
21	Size, Shape and Structure Dependent Cohesive Energy of Gold Nanoparticles: Empirical Many-Body Potential Energy Function Calculations. Journal of Computational and Theoretical Nanoscience, 2015, 12, 4219-4225.	0.4	1
22	How does internal angle of hoppers affect granular flow? Experimental studies using digital particle image velocimetry. Powder Technology, 2014, 268, 253-260.	4.2	53
23	Influence of size and temperature on the phase stability and thermophysical properties of anatase TiO2 nanoparticles: molecular dynamics simulation. Journal of Nanoparticle Research, 2013, 15, 1.	1.9	7
24	Molecular Dynamics Simulation of Anatase TiO₂ Nanoparticles. Journal of Nanoscience and Nanotechnology, 2013, 13, 1047-1052.	0.9	11
25	Visualising shear stress distribution inside flow geometries containing pharmaceutical powder excipients using photo stress analysis tomography and DEM simulations. , 2013, , .		2
26	Computational analysis of factors influencing thermal conductivity of nanofluids. Journal of Nanoparticle Research, 2011, 13, 6365-6375.	1.9	22
27	Probing Shear Stress Distribution within Single Particle Scale inside Particulate Packing. KONA Powder and Particle Journal, 2010, 28, 180-188.	1.7	4
28	Mechanical Failure of Grains in Sheared Granular Media: Effect of Size Ratio. , 2009, , .		3
29	Invariants of stress and fabric tensors in charged granular systems subjected to shearing. Mechanics of Materials, 2009, 41, 742-747.	3.2	2
30	Walking patterns and micromechanical load-transfer properties of human bone. Mechanics Research Communications, 2009, 36, 949-956.	1.8	0
31	Role of interparticle friction and particle-scale elasticity in the shear-strength mechanism of three-dimensional granular media. Physical Review E, 2009, 79, 031308.	2.1	47
32	Impact Fracture of Composite and Homogeneous Nanoagglomerates. Journal of Nanomaterials, 2008, 2008, 1-7.	2.7	7
33	Force, relative-displacement, and work networks in granular materials subjected to quasistatic deformation. Physical Review E, 2007, 75, 051308.	2.1	41
34	Role of interparticle forces and interparticle friction on the bulk friction in charged granular media subjected to shearing. Physical Review E, 2007, 75, 031307.	2.1	13
35	Link between single-particle properties and macroscopic properties in particulate assemblies: role of structures within structures. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2007, 365, 2879-2891.	3.4	51
36	Influence of contact stiffnesses on the micromechanical characteristics of dense particulate systems subjected to shearing. Applied Physics Letters, 2006, 89, 214103.	3.3	13

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37	Computational Study Investigating the Influence of Long-Range Repulsive Forces on the Collective Behaviour of Particulate Media. Journal of Computational and Theoretical Nanoscience, 2006, 3, 487-496.	0.4	6
38	Analysis of flowability of cohesive powders using Distinct Element Method. Powder Technology, 2005, 158, 51-57.	4.2	33
39	Strength and signature of force networks in axially compacted sphere and non-sphere granular media: micromechanical investigations. Journal Physics D: Applied Physics, 2005, 38, 3944-3952.	2.8	13
40	Behaviour of Granular Materials: Current and Future Directions - A Multidisciplinary Approach. Granular Matter, 2003, 4, 145-145.	2.2	0
41	Size Effects in a Slowly Sheared Granular Media. Journal of Applied Mechanics, Transactions ASME, 2001, 68, 772-775.	2.2	28
42	Evolution of force distribution in three-dimensional granular media. Physical Review E, 2000, 63, 011302.	2.1	97
43	Quasiâ€"static deformation of particulate media. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 1998, 356, 2763-2782.	3.4	195