

# Dayakar Penumadu

## List of Publications by Year in descending order

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29  
papers

442  
citations

840776

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752698

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30  
all docs

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docs citations

30  
times ranked

445  
citing authors

#	ARTICLE	IF	CITATIONS
1	High-Resolution Neutron and X-Ray Imaging of Granular Materials. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 715-723.	3.0	58
2	Experimental Investigation on Principal Stress Rotation in Kaolin Clay. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2005, 131, 633-642.	3.0	48
3	Water Distribution Variation in Partially Saturated Granular Materials Using Neutron Imaging. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2012, 138, 147-154.	3.0	47
4	Strain Localization in Combined Axial-Torsional Testing on Kaolin Clay. Journal of Engineering Mechanics - ASCE, 2006, 132, 555-564.	2.9	36
5	Neutron Scattering for Moisture Detection in Foamed Asphalt. Journal of Materials in Civil Engineering, 2013, 25, 932-938.	2.9	32
6	Meso-scale framework for modeling granular material using computed tomography. Computers and Geotechnics, 2016, 76, 140-146.	4.7	24
7	Nonlinear elastic response of pan based carbon fiber to tensile loading and relations to microstructure. Carbon, 2021, 178, 133-143.	10.3	22
8	Nano and neutron science applications for geomechanics. KSCE Journal of Civil Engineering, 2009, 13, 233-242.	1.9	17
9	<sup>6</sup> Li Embedded Biaxially Stretched Scintillation Films for Thermal Neutron Detection and Neutron/Gamma Discrimination. Advanced Engineering Materials, 2014, 16, 196-201.	3.5	14
10	EFFECT OF OVERCONSOLIDATION AND ANISOTROPY OF KAOLIN CLAY USING TRUE TRIAXIAL TESTING. Soils and Foundations, 2005, 45, 71-82.	0.7	13
11	Smart Adhesive Joint with High-Definition Fiber-Optic Sensing for Automotive Applications. Sensors, 2020, 20, 614.	3.8	13
12	Automated Digital Image Based Measurement of Boundary Fractal Dimension for Complex Nanoparticles. Particle and Particle Systems Characterization, 2003, 20, 18-24.	2.3	10
13	Combined Effect of Loading and Cold Temperature on the Stiffness of Glass Fiber Composites. Journal of Composites for Construction, 2010, 14, 224-230.	3.2	10
14	Detection of water with high sensitivity to study polymer electrolyte fuel cell membranes using cold neutrons at high spatial resolution. Applied Physics Letters, 2013, 102, .	3.3	10
15	Effect of Particle Morphology on Stiffness, Strength and Volumetric Behavior of Rounded and Angular Natural Sand. Materials, 2021, 14, 3023.	2.9	10
16	Thin Film Polymer Composite Scintillators for Thermal Neutron Detection. Journal of Composites, 2013, 2013, 1-8.	0.8	9
17	Role of particle shape in determining tensile strength and energy release in diametrical compression of natural silica grains. Soils and Foundations, 2020, 60, 1299-1311.	3.1	9
18	Thermo-mechanical characterization of discontinuous recycled/repurposed carbon fiber reinforced thermoplastic organosheet composites. Journal of Composite Materials, 2021, 55, 3409-3423.	2.4	9

#	ARTICLE	IF	CITATIONS
19	Influence of Friction and Particle Morphology on Triaxial Shearing of Granular Materials. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	3.0	9
20	Characterizing microstructure of refractory porous materials. Journal of Materials Science, 2006, 41, 3403-3415.	3.7	8
21	Full-scale bridge damage identification using time series analysis of a dense array of geophones excited by drop weight. Structural Control and Health Monitoring, 2016, 23, 982-997.	4.0	8
22	Uncoupled dual hardening model for clays considering the effect of overconsolidation and intermediate principal stress. Acta Geotechnica, 2015, 10, 607-622.	5.7	7
23	Pore Space and Fluid Phase Characterization in Round and Angular Partially Saturated Sands Using Radiation-Based Tomography and Persistent Homology. Transport in Porous Media, 2021, 137, 131-155.	2.6	6
24	Damage evolution in VARTM-based carbon fiber vinyl ester marine composites and sea water effects. Journal of Sandwich Structures and Materials, 2019, 21, 2057-2076.	3.5	5
25	Visualization of Localized Deformations of Sand in Drained Triaxial Compression Using Digital Image Correlation. Geotechnical Testing Journal, 2021, 44, 20190096.	1.0	3
26	Effect of Multi-Axial Loading on Residual Strain Tensor for 12L14 Steel Alloy. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 3806-3813.	2.2	2
27	Projectile penetration in granular material. AIP Conference Proceedings, 2020, , .	0.4	2
28	Smart Polymer Composite Deck Monitoring Using Distributed High Definition and Bragg Grating Fiber Optic Sensing. Sensors, 2022, 22, 4089.	3.8	1
29	Crystallographic Characterization: 3D Mapping of Crystallographic Phase Distribution using Energy-Selective Neutron Tomography (Adv. Mater. 24/2014). Advanced Materials, 2014, 26, 4068-4068.	21.0	0