Chih-Yu Kuo

List of Publications by Year
in descending order

47 papers	567 citations	758635 12 h-index	642321 23 g-index
48 all docs	48 docs citations	48 times ranked	464 citing authors

#	Article	IF	Citations
1	Towards the theoretical/experimental description of the evolution of material properties at frictional interfaces in metal forming processes. Tribology International, 2022, 171, 107518.	3.0	7
2	Development of high-precision wind, wave and current forecast system for offshore wind energy industry in Taiwan: a two-stage method of numerical simulation and AI correction. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers,Series A/Chung-kuo Kung Ch'eng Hsuch K'an, 2021, 44, 532-543.	0.6	2
3	Application Assessments of Using Scarp Boundary-Fitted, Volume Constrained, Smooth Minimal Surfaces as Failure Interfaces of Deep-Seated Landslides. Frontiers in Earth Science, 2020, 8, .	0.8	6
4	Challenges and improvements in applying a particle image velocimetry (PIV) approach to granular flows. Journal of Physics: Conference Series, 2019, 1249, 012011.	0.3	19
5	Photonic topological semimetals in bianisotropic metamaterials. Scientific Reports, 2019, 9, 18312.	1.6	11
6	An accurate numerical solution for the singular velocity field near the maximum friction surface in plane strain extrusion. International Journal of Solids and Structures, 2018, 150, 107-116.	1.3	5
7	Closure Relations for the Depth-Averaged Modelling Equations. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 121-156.	0.1	0
8	Numerical Tests and Simulations of Granular Avalanches. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 177-202.	0.1	0
9	Conclusions and Discussions. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 157-161.	0.1	0
10	Shallow Geophysical Mass Flows down Arbitrary Topography. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , .	0.1	11
11	Applications to Avalanching Landslides in Taiwan. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 203-250.	0.1	1
12	A Topography-Fitted Coordinate System. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 21-49.	0.1	0
13	Numerical Implementation of the Model Equations. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 165-176.	0.1	0
14	Depth-Averaged Modelling Equations forÂSingle-Phase Material Flows. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 77-120.	0.1	0
15	Identification of co-seismic ground motion due to fracturing and impact of the Tsaoling landslide, Taiwan. Engineering Geology, 2015, 196, 268-279.	2.9	13
16	Measurement and discrete element simulation of a fixed-obstacle disturbed rapid granular chute flow. Physics of Fluids, 2015, 27, 013305.	1.6	12
17	Wave splitting and double-slit like interference by a pseudochiral metamaterial slab. Journal Physics D: Applied Physics, 2015, 48, 295103.	1.3	4
18	Use of Multiple Digital Terrain Models and Aerial Orthophotos for Landscape Evolution in Tsaoling Landslide Area. , 2015, , 455-460.		1

#	ARTICLE	IF	CITATIONS
19	Using Airborne LiDAR DEM to Determine the Bedrock Incision Rate: An Indirect Dating from Landslide Sliding Surface, Taiwan. , 2015, , 429-434.		0
20	Wave propagation in bianisotropic metamaterials: angular selective transmission. Optics Express, 2014, 22, 25710.	1.7	16
21	Initiation, movement, and run-out of the giant Tsaoling landslide â€" What can we learn from a simple rigid block model and a velocityâ€"displacement dependent friction law?. Engineering Geology, 2014, 182, 158-181.	2.9	51
22	A two-phase model for dry density-varying granular flows. Advanced Powder Technology, 2013, 24, 132-142.	2.0	4
23	ENSEMBLE EMPIRICAL MODE DECOMPOSITION WITH SUPERVISED CLUSTER ANALYSIS. Advances in Adaptive Data Analysis, 2013, 05, 1350005.	0.6	11
24	Gas Kinetic Scheme for Anisotropic Savage-Hutter Model. Communications in Computational Physics, 2013, 13, 1432-1454.	0.7	2
25	Modeling Shallow Over-Saturated Mixtures on Arbitrary Rigid Topography. Journal of Mechanics, 2012, 28, 523-541.	0.7	8
26	An alternative depth-integrated formulation for granular avalanches over temporally varying topography with small curvature. Geophysical and Astrophysical Fluid Dynamics, 2012, 106, 596-629.	0.4	20
27	Modelling shallow debris flows of the Coulomb-mixture type over temporally varying topography. Natural Hazards and Earth System Sciences, 2012, 12, 269-280.	1.5	10
28	Electro-osmotic flow through a two-dimensional screen-pump filter. Physical Review E, 2011, 84, 036301.	0.8	5
29	Reconstruction of the Kinematics of Landslide and Debris Flow Through Numerical Modeling Supported by Multidisciplinary Data: The 2009 Siaolin, Taiwan Landslide. , 2011, , .		4
30	Analytic extensions of the Debyeâ€"HÃ¼ckel approximation to the Poissonâ€"Boltzmann equation. Journal of Engineering Mathematics, 2011, 70, 333-342.	0.6	7
31	Indirect measurements of streamwise solid fraction variations of granular flows accelerating down a smooth rectangular chute. Experiments in Fluids, 2011, 51, 1329-1342.	1.1	30
32	Unsteady electroosmosis in a microchannel with Poissonâ€"Boltzmann charge distribution. Electrophoresis, 2011, 32, 3341-3347.	1.3	6
33	Collapses of Granular Column with Time Varying Topography. , 2010, , .		1
34	MULTIPOLE EXPANSION OF ELECTROMAGNETIC SCATTERING WAVE BY A SMALL CYLINDRICAL PORE ON A PERFECT CONDUCTING SEMI-INFINITE HALF SPACE. Progress in Electromagnetics Research B, 2010, 26, 179-212.	0.7	1
35	Electromagnetic scattering by a subwavelength circular hole in a perfect metal plate of finite thickness: matched asymptotic expansion. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1031.	0.9	2
36	Effective Medium Properties of Periodic Elastic Layers by Homogenization. , 2009, , .		0

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37	NON-CARTESIAN, TOPOGRAPHY-BASED AVALANCHE EQUATIONS AND APPROXIMATIONS OF GRAVITY DRIVEN FLOWS OF IDEAL AND VISCOUS FLUIDS. Mathematical Models and Methods in Applied Sciences, 2009, 19, 127-171.	1.7	15
38	A hierarchy of avalanche models on arbitrary topography. Acta Mechanica, 2009, 205, 121-149.	1.1	49
39	Simulation of Tsaoling landslide, Taiwan, based on Saint Venant equations over general topography. Engineering Geology, 2009, 104, 181-189.	2.9	79
40	Sound and Electromagnetic Wave Scattering by a Compact Circular Pore With a Finite Depth. , 2009, , .		0
41	Modeling shallow gravity-driven solid-fluid mixtures over arbitrary topography. Communications in Mathematical Sciences, 2009, 7, 1-36.	0.5	12
42	A new model of granular flows over general topography with erosion and deposition. Acta Mechanica, 2008, 199, 71-96.	1.1	59
43	Generation of directional EOF by interactive oscillatory zeta potential. Electrophoresis, 2008, 29, 4386-4390.	1.3	28
44	Propagating modes of periodic solid layers in an ideal or viscous fluid by homogenization analysis. Physical Review B, 2008, 78, .	1.1	1
45	Acoustics of a two-dimensional compact jet impinging normally onto a flat plate. Journal of Fluid Mechanics, 2000, 414, 251-284.	1.4	13
46	Oscillations of a moderately underexpanded choked jet impinging upon a flat plate. Journal of Fluid Mechanics, 1996, 315, 267-291.	1.4	40
47	Shock oscillations of underexpanded jets impinging upon flat plates. , 1996, , .		1