

# Chih-Yu Kuo

## List of Publications by Year in descending order

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papers

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citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Simulation of Tsaoling landslide, Taiwan, based on Saint Venant equations over general topography. <i>Engineering Geology</i> , 2009, 104, 181-189.	2.9	79
2	A new model of granular flows over general topography with erosion and deposition. <i>Acta Mechanica</i> , 2008, 199, 71-96.	1.1	59
3	Initiation, movement, and run-out of the giant Tsaoling landslide " What can we learn from a simple rigid block model and a velocity"displacement dependent friction law?. <i>Engineering Geology</i> , 2014, 182, 158-181.	2.9	51
4	A hierarchy of avalanche models on arbitrary topography. <i>Acta Mechanica</i> , 2009, 205, 121-149.	1.1	49
5	Oscillations of a moderately underexpanded choked jet impinging upon a flat plate. <i>Journal of Fluid Mechanics</i> , 1996, 315, 267-291.	1.4	40
6	Indirect measurements of streamwise solid fraction variations of granular flows accelerating down a smooth rectangular chute. <i>Experiments in Fluids</i> , 2011, 51, 1329-1342.	1.1	30
7	Generation of directional EOF by interactive oscillatory zeta potential. <i>Electrophoresis</i> , 2008, 29, 4386-4390.	1.3	28
8	An alternative depth-integrated formulation for granular avalanches over temporally varying topography with small curvature. <i>Geophysical and Astrophysical Fluid Dynamics</i> , 2012, 106, 596-629.	0.4	20
9	Challenges and improvements in applying a particle image velocimetry (PIV) approach to granular flows. <i>Journal of Physics: Conference Series</i> , 2019, 1249, 012011.	0.3	19
10	Wave propagation in bianisotropic metamaterials: angular selective transmission. <i>Optics Express</i> , 2014, 22, 25710.	1.7	16
11	NON-CARTESIAN, TOPOGRAPHY-BASED AVALANCHE EQUATIONS AND APPROXIMATIONS OF GRAVITY DRIVEN FLOWS OF IDEAL AND VISCOUS FLUIDS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2009, 19, 127-171.	1.7	15
12	Acoustics of a two-dimensional compact jet impinging normally onto a flat plate. <i>Journal of Fluid Mechanics</i> , 2000, 414, 251-284.	1.4	13
13	Identification of co-seismic ground motion due to fracturing and impact of the Tsaoling landslide, Taiwan. <i>Engineering Geology</i> , 2015, 196, 268-279.	2.9	13
14	Measurement and discrete element simulation of a fixed-obstacle disturbed rapid granular chute flow. <i>Physics of Fluids</i> , 2015, 27, 013305.	1.6	12
15	Modeling shallow gravity-driven solid-fluid mixtures over arbitrary topography. <i>Communications in Mathematical Sciences</i> , 2009, 7, 1-36.	0.5	12
16	ENSEMBLE EMPIRICAL MODE DECOMPOSITION WITH SUPERVISED CLUSTER ANALYSIS. <i>Advances in Adaptive Data Analysis</i> , 2013, 05, 1350005.	0.6	11
17	Shallow Geophysical Mass Flows down Arbitrary Topography. <i>Advances in Geophysical and Environmental Mechanics and Mathematics</i> , 2016, , .	0.1	11
18	Photonic topological semimetals in bianisotropic metamaterials. <i>Scientific Reports</i> , 2019, 9, 18312.	1.6	11

#	ARTICLE	IF	CITATIONS
19	Modelling shallow debris flows of the Coulomb-mixture type over temporally varying topography. <i>Natural Hazards and Earth System Sciences</i> , 2012, 12, 269-280.	1.5	10
20	Modeling Shallow Over-Saturated Mixtures on Arbitrary Rigid Topography. <i>Journal of Mechanics</i> , 2012, 28, 523-541.	0.7	8
21	Analytic extensions of the Debye-Hückel approximation to the Poisson-Boltzmann equation. <i>Journal of Engineering Mathematics</i> , 2011, 70, 333-342.	0.6	7
22	Towards the theoretical/experimental description of the evolution of material properties at frictional interfaces in metal forming processes. <i>Tribology International</i> , 2022, 171, 107518.	3.0	7
23	Unsteady electroosmosis in a microchannel with Poisson-Boltzmann charge distribution. <i>Electrophoresis</i> , 2011, 32, 3341-3347.	1.3	6
24	Application Assessments of Using Scarp Boundary-Fitted, Volume Constrained, Smooth Minimal Surfaces as Failure Interfaces of Deep-Seated Landslides. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	6
25	Electro-osmotic flow through a two-dimensional screen-pump filter. <i>Physical Review E</i> , 2011, 84, 036301.	0.8	5
26	An accurate numerical solution for the singular velocity field near the maximum friction surface in plane strain extrusion. <i>International Journal of Solids and Structures</i> , 2018, 150, 107-116.	1.3	5
27	Reconstruction of the Kinematics of Landslide and Debris Flow Through Numerical Modeling Supported by Multidisciplinary Data: The 2009 Siaolin, Taiwan Landslide. , 2011, , .		4
28	A two-phase model for dry density-varying granular flows. <i>Advanced Powder Technology</i> , 2013, 24, 132-142.	2.0	4
29	Wave splitting and double-slit like interference by a pseudo-chiral metamaterial slab. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 295103.	1.3	4
30	Electromagnetic scattering by a subwavelength circular hole in a perfect metal plate of finite thickness: matched asymptotic expansion. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2010, 27, 1031.	0.9	2
31	Gas Kinetic Scheme for Anisotropic Savage-Hutter Model. <i>Communications in Computational Physics</i> , 2013, 13, 1432-1454.	0.7	2
32	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. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2021, 44, 532-543.	0.6	2
33	Shock oscillations of underexpanded jets impinging upon flat plates. , 1996, , .		1
34	Propagating modes of periodic solid layers in an ideal or viscous fluid by homogenization analysis. <i>Physical Review B</i> , 2008, 78, .	1.1	1
35	Collapses of Granular Column with Time Varying Topography. , 2010, , .		1
36	MULTIPOLE EXPANSION OF ELECTROMAGNETIC SCATTERING WAVE BY A SMALL CYLINDRICAL PORE ON A PERFECT CONDUCTING SEMI-INFINITE HALF SPACE. <i>Progress in Electromagnetics Research B</i> , 2010, 26, 179-212.	0.7	1

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37	Applications to Avalanching Landslides in Taiwan. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 203-250.	0.1	1
38	Use of Multiple Digital Terrain Models and Aerial Orthophotos for Landscape Evolution in Tsaoling Landslide Area. , 2015, , 455-460.		1
39	Effective Medium Properties of Periodic Elastic Layers by Homogenization. , 2009, , .		0
40	Sound and Electromagnetic Wave Scattering by a Compact Circular Pore With a Finite Depth. , 2009, , .		0
41	Closure Relations for the Depth-Averaged Modelling Equations. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 121-156.	0.1	0
42	Numerical Tests and Simulations of Granular Avalanches. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 177-202.	0.1	0
43	Conclusions and Discussions. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 157-161.	0.1	0
44	Using Airborne LiDAR DEM to Determine the Bedrock Incision Rate: An Indirect Dating from Landslide Sliding Surface, Taiwan. , 2015, , 429-434.		0
45	A Topography-Fitted Coordinate System. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 21-49.	0.1	0
46	Numerical Implementation of the Model Equations. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 165-176.	0.1	0
47	Depth-Averaged Modelling Equations for Single-Phase Material Flows. Advances in Geophysical and Environmental Mechanics and Mathematics, 2016, , 77-120.	0.1	0