Esteban Samaniego

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	An energy approach to the solution of partial differential equations in computational mechanics via machine learning: Concepts, implementation and applications. Computer Methods in Applied Mechanics and Engineering, 2020, 362, 112790.	3.4	799
2	Discontinuous modelling of shear bands using adaptive meshfree methods. Computer Methods in Applied Mechanics and Engineering, 2008, 197, 641-658.	3.4	141
3	Continuum approach to the numerical simulation of material failure in concrete. International Journal for Numerical and Analytical Methods in Geomechanics, 2004, 28, 609-632.	1.7	125
4	Homogenization of sandwich structures. International Journal for Numerical Methods in Engineering, 2004, 61, 1009-1027.	1.5	88
5	Continuum-discontinuum modelling of shear bands. International Journal for Numerical Methods in Engineering, 2005, 62, 1857-1872.	1.5	81
6	A study on finite elements for capturing strong discontinuities. International Journal for Numerical Methods in Engineering, 2003, 56, 2135-2161.	1.5	66
7	On the numerical stability and massâ€lumping schemes for explicit enriched meshfree methods. International Journal for Numerical Methods in Engineering, 2012, 89, 1009-1027.	1.5	61
8	Rainfall and Cloud Dynamics in the Andes: A Southern Ecuador Case Study. Advances in Meteorology, 2016, 2016, 1-15.	0.6	57
9	Simplified model for predicting impulsive loads on submerged structures to account for fluid-structure interaction. International Journal of Impact Engineering, 2007, 34, 163-177.	2.4	55
10	On the strong discontinuity approach in finite deformation settings. International Journal for Numerical Methods in Engineering, 2003, 56, 1051-1082.	1.5	52
11	A variational approach to the phase field modeling of brittle and ductile fracture. International Journal of Mechanical Sciences, 2018, 144, 502-517.	3.6	48
12	Comparison of Statistical Downscaling Methods for Monthly Total Precipitation: Case Study for the Paute River Basin in Southern Ecuador. Advances in Meteorology, 2016, 2016, 1-13.	0.6	44
13	Evaluation of infilling methods for time series of daily precipitation and temperature: The case of the Ecuadorian Andes. Maskana, 2014, 5, 99-115.	0.5	40
14	Two-Step Downscaling of Trmm 3b43 V7 Precipitation in Contrasting Climatic Regions With Sparse Monitoring: The Case of Ecuador in Tropical South America. Remote Sensing, 2017, 9, 758.	1.8	34
15	Evaluation of downscaled estimates of monthly temperature and precipitation for a Southern Ecuador case study. International Journal of Climatology, 2016, 36, 1244-1255.	1.5	32
16	AES for multiscale localization modeling in granular media. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 2473-2482.	3.4	31
17	Climatology and Teleconnections of Mesoscale Convective Systems in an Andean Basin in Southern Ecuador: The Case of the Paute Basin. Advances in Meteorology, 2018, 2018, 1-13.	0.6	27
18	A phase-field model for ductile fracture with shear bands: A parallel implementation. International Journal of Mechanical Sciences, 2021, 200, 106424.	3.6	25

11Spatial functional data analysis for regionalizing proglotation seasonalizing and intensity in a sparsely international journal of Clinicology, 2018, 38, 3327-5354.1.52.420Anticromechanics based variational phase field model for fracture in geomaterials with britteenational journal of Clinicology, 2018, 38, 3327-5354.2.32.32.321A2012, 2012, 11.5.0.42.022On the modeling of dissipative mechanisms in a ductile softening bar. Journal of Acpiled Mathematics.0.42.023Phase-field modeling of fracture for quasi-brittle materials. Underground Space (China), 2019, 4, 10-21.3.41524Papallel embedded boundary methods for fluid and rigid-body interaction. Computer Methods in3.41425Actaggered approach for the coupling of Clanication of Clanication and finite strain elasticity.2.21426Repired the coupling of Clanication of Clanication of Elobal climate models. International Journal of1.51326Actaggered approach for the coupling of Clanication of Elobal climate models. International Journal of1.51227Actaggered approach for the exploration of Elobal climate models. International Journal of1.51328The Pacific decadd oscillation modulates the relation of ENSO with the rainfall variability in coast.1.51.529Evaluating extreme climate indices form CMI03Acarpp.5 global climate models and reanalysis data states a 2.332, 2.204, 2.20, 2.20, 3.20, 3.20, 3.20, 0.432, 3.20, 3.20, 1.1, 848.1.63.420The Pacific decadd oscillation modulates the relation of ENSO with the r	#	Article	IF	CITATIONS
100Anticromechanics-based variational phase-field model for fracture in geomaterials with 159, 104684.2.32.32.321AStropic Circular Cell Method for Multilevel Finite Element Analysis Journal of Applied Mathematics, 169, 104684.0.42022On the modeling of dissipative mechanisms in a ductile softening bar. Journal of Mechanics of Materials and Structures, 2016, 11, 463 490.0.42023Phase field modeling of fracture for quasi brittle materials. Underground Space (China), 2019, 4, 1021.0.41424Parallel embedded boundary methods for fluid and rigid-body interaction. Computer Methods in Applied Mechanics and Engineering, 2015, 290, 387/419.0.41425Astrogened approach for the coupling of ChinaCHINI type culfusion and finite strain elasticity.2.21426Refinition motoring network design unspecific Euadorian Amazon. International Journal of Climatology, 2019, 93, 2009-2016.1.51.51.527Chematology, 2019, 93, 2009-2016.Glibbal climate models. International Journal of Climatology, 2019, 93, 2009-2016.1.51.61.628The Pacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast climatology, 2019, 93, 2009-2016.1.51.51.629Sestaudre, forme climate in the Andes of Eccador. International Journal of Climatology, 2017, 37, 301.53.420Sestaudre, forme climate in the Andes of Eccador. International Journal of Climatology, 2017, 37, 301.53.420Sestaudre, forme climate in the Andes of Eccador. International Journal of Climatology,	19	Spatial functional data analysis for regionalizing precipitation seasonality and intensity in a sparsely monitored region: Unveiling the spatioâ€ŧemporal dependencies of precipitation in Ecuador. International Journal of Climatology, 2018, 38, 3337-3354.	1.5	24
21ASImple Circular Cell Method for Multilevel Finite Element Analysis Journal of Applied Mathematics,0.42022On the modeling of dissipative mechanisms in a ductile softening bar. Journal of Mechanics of0.42023Phase-field modeling of fiasipative mechanisms in a ductile softening bar. Journal of Mechanics of0.42024Phase-field modeling of fracture for quasi-brittle materials. Underground Space (China), 2019, 4, 10-21.3.41424Parallel embedded boundary methods for fluid and rigid-body interaction. Computer Methods in3.41425Astaggered approach for the coupling of Calm&CHIlliard type diffusion and finite strain elasticity.2.21426Rainfall monitoring network degra using conditioned Latin hypercube sampling and satellite primitation entires with a degra using conditioned Latin hypercube sampling and satellite (Immatology, 2019, 39, 2209-2228.1327Accusal flow approach for the evaluation of global climate models. International Journal of Climatology, 2019, 39, 2209-2228.1328The Cacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast of Fundic decadal oscillation modulates the relation of ENSO with the rainfall variability in coast1.5329Evaluating extreme climate in dices from CMIP32samp5 slobal climate models and reanalysis data states and sig 3.77.1.3820Mutual Control Volume Approach to the Study of Climate Causal Flows: Identification of Humidity and Wind Pathways of Insoluble surfactant spreading on a thin film. Computer Methods in Applied 	20	A micromechanics-based variational phase-field model for fracture in geomaterials with 	2.3	23
22On the modeling of dissipative mechanisms in a ductile softening bar. Journal of Mechanics of0.42023Phase-field modeling of fracture for quasi-brittle materials. Underground Space (China), 2019, 4, 10-21.8.41524Parallel embedded boundary methods for fluid and rigid-body interaction. Computer Methods in3.41425Astaggered approach for the coupling of Chin3C*Hillard type diffusion and finite strain elasticity.2.21426Balinfall monitoring network design using conditioned Latin hypercube sampling and satellite erelipitation estimates: An application in the ungauged Ecuadorian Amazon. International Journal of Climatology, 2020, 40, 4497-4517.151327Chacusal flow approach for the evoluation of global climate models. International Journal of Ecuador. International Journal of Climatology, 2020, 40, 4497-4517.1.61128The Pacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast of Ecuador. International Journal of Climatology, 2020, 40, 4497-4517.1.6829Evaluating extreme climate indices from CMIP3E ampp5 global climate models and reanalysis data sets: a case study for present climate in the Andes of Ecuador. International Journal of Climatology, 2021, 43, 431.6120Strataring extreme climate indices from CMIP3E ampp5 global climate models and reanalysis data sets: a case study for present climate in the Andes of Ecuador. Atmosphere, 2020, 11, 848.1.0621Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a 	21	A Simple Circular Cell Method for Multilevel Finite Element Analysis. Journal of Applied Mathematics, 2012, 2012, 1-15.	0.4	20
23Phase-field modeling of fracture for quasi-brittle materials. Underground Space (China), 2019, 4, 10-21.3.41424Parallel embedded boundary methods for fluid and rigid-body interaction. Computer Methods in Applied Mechanics and Engineering, 2015, 290, 387-419.3.41425Astaggered approach for the coupling of CahnaC"Hilliard type diffusion and finite strain elasticity. Computational Mechanics, 2016, 57, 339-551.2.21426Reinfall monitoring network design using conditioned Latin hypercube sampling and satellite Climatology, 2019, 39, 2209-2226.1.51.327A causal flow approach for the evaluation of global climate models. International Journal of Climatology, 2020, 40, 4497-4517.1.51228The Pacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast of Ecuador. International Journal of Climatology, 2020, 40, 5801-5812.1.5829Evaluating extreme climate indices from CMIP3&5 global climate models and reanalysis data sets: a 363-379.1.5830Virtual Control Volume Approach to the Study of Climate Causal Flows: Identification of Humidity 363-379.1.0631Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a 311.7532Segeometric analysis of Insoluble surfact at spreading on a thin film. Computer Methods in Applied and Amid How types and complex bed profile shapes. Advanced Modeling and Simulation in 2017,2.7333Physics-Informed Neural Network water surface predictability for 1D steady-state open channel cases at thy different How types and comp	22	On the modeling of dissipative mechanisms in a ductile softening bar. Journal of Mechanics of Materials and Structures, 2016, 11, 463-490.	0.4	20
24Parallel embedded boundary methods for fluid and rigid-body interaction. Computer Methods in3.41425Astaggered approach for the coupling of CahnaC'Hilliard type diffusion and finite strain elasticity. Computational Mechanics, 2016, 57, 339-351.2.21426Rainfall monitoring network design using conditioned Latin hypercube sampling and satellite precipitation estimates: An application in the ungauged Ecuadorian Amazon. International Journal of Climatology, 2019, 93, 2029-226.1.51.327Acsusal flow approach for the evaluation of global climate models. International Journal of 	23	Phase-field modeling of fracture for quasi-brittle materials. Underground Space (China), 2019, 4, 10-21.	3.4	15
25A staggered approach for the coupling of Cahna6"Hillard type diffusion and finite strain elasticity.2.21426Reinfall monitoring network design using conditioned Latin hypercube sampling and satellite precipitation estimates: An application in the ungauged Ecuadorian Amazon. International Journal of Liss 1.51.51.327A causal flow approach for the evaluation of global climate models. International Journal of Ecuador. International Journal of Climatology, 2020, 40, 4497-4517.1.51.228The Pacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast of Ecuador. International Journal of Climatology, 2020, 40, 5801-5812.1.51.129Evaluating extreme climate indices from CMP2Ramp's global climate models and reanalysis data sets: a 63-379.1.5830Virtual Control Volume Approach to the Study of Climate Causal Flows: Identification of Humidity and Wind Pathways of Influence on Rainfall in Ecuador. Atmosphere, 2020, 11, 848.1.0631Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a Horpical Andean case study. Climate Dynamics, 2019, 52, 4643-4670.3.4433Soggeometric analysis of Insoluble surfactant spreading on a thin film. Computer Methods in Applied Methanics and Engineering. 2020, 370, 113272.3.43.4334Astudy of microgrids through cooperative games including the effect of geographical proximity. 2017,2335Variational Modelling of Strain Localization in Solids: A Computational Mechanics Point of View. Achives of Computational Methods in Engineering, 2021, 28, 1183-1203.	24	Parallel embedded boundary methods for fluid and rigid-body interaction. Computer Methods in Applied Mechanics and Engineering, 2015, 290, 387-419.	3.4	14
26Rainfall monitoring network design using conditioned Latin hypercube sampling and satellite precipitation estimates: An application in the ungauged Ecuadorian Amazon. International Journal of Climatology, 2019, 39, 2209-2226.1.51.327A causal flow approach for the evaluation of global climate models. International Journal of Climatology, 2020, 40, 4497-4517.1.51.228The Pacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast 	25	A staggered approach for the coupling of Cahn–Hilliard type diffusion and finite strain elasticity. Computational Mechanics, 2016, 57, 339-351.	2.2	14
27A causal flow approach for the evaluation of global climate models. International Journal of1.51228The Pacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast1.51129Evaluating extreme climate indices from CMIP3&5 global climate models and reanalysis data sets: a 363-379.1.5830Virtual Control Volume Approach to the Study of Climate Causal Flows: Identification of Humidity1.0631Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a Tropical Andean case study. Climate Dynamics, 2019, 52, 4643-4670.1.7532Isogeometric analysis of insoluble surfactant spreading on a thin film. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113272.3.4433Physics-Informed Neural Network water surface predictability for 1D steady-state open channel cases 	26	Rainfall monitoring network design using conditioned Latin hypercube sampling and satellite precipitation estimates: An application in the ungauged Ecuadorian Amazon. International Journal of Climatology, 2019, 39, 2209-2226.	1.5	13
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29Evaluating extreme climate indices from CMIP3&5 global climate models and reanalysis data sets: a case study for present climate in the Andes of Ecuador. International Journal of Climatology, 2017, 37, 363-379.1.5830Virtual Control Volume Approach to the Study of Climate Causal Flows: Identification of Humidity and Wind Pathways of Influence on Rainfall in Ecuador. Atmosphere, 2020, 11, 848.1.0631Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a Tropical Andean case study. Climate Dynamics, 2019, 52, 4643-4670.1.7532Isogeometric analysis of insoluble surfactant spreading on a thin film. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113272.3.4433Physics-Informed Neural Network water surface predictability for 1D steady-state open channel cases with different flow types and complex bed profile shapes. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9.0.7334Astudy of microgrids through cooperative games including the effect of geographical proximity. , 2017,6.02	28	The Pacific decadal oscillation modulates the relation of ENSO with the rainfall variability in coast of Ecuador. International Journal of Climatology, 2020, 40, 5801-5812.	1.5	11
30Virtual Control Volume Approach to the Study of Climate Causal Flows: Identification of Humidity1.0631Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a Tropical Andean case study. Climate Dynamics, 2019, 52, 4643-4670.1.7532Isogeometric analysis of insoluble surfactant spreading on a thin film. Computer Methods in Applied Mechanics and Engineering, 2020, 370, 113272.3.4433Physics-Informed Neural Network water surface predictability for 1D steady-state open channel cases with different flow types and complex bed profile shapes. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9,.0.7334Astudy of microgrids through cooperative games including the effect of geographical proximity., 2017,235Variational Modelling of Strain Localization in Solids: A Computational Mechanics Point of View. Archives of Computational Methods in Engineering, 2021, 28, 1183-1203.6.002	29	Evaluating extreme climate indices from CMIP3&5 global climate models and reanalysis data sets: a case study for present climate in the Andes of Ecuador. International Journal of Climatology, 2017, 37, 363-379.	1.5	8
31Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a1.7532Isogeometric analysis of insoluble surfactant spreading on a thin film. Computer Methods in Applied3.4433Physics-Informed Neural Network water surface predictability for 1D steady-state open channel cases with different flow types and complex bed profile shapes. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9,.0.7334Astudy of microgrids through cooperative games including the effect of geographical proximity. , 2017, ,.235Variational Modelling of Strain Localization in Solids: A Computational Mechanics Point of View. Archives of Computational Methods in Engineering, 2021, 28, 1183-1203.6.02	30	Virtual Control Volume Approach to the Study of Climate Causal Flows: Identification of Humidity and Wind Pathways of Influence on Rainfall in Ecuador. Atmosphere, 2020, 11, 848.	1.0	6
32Isogeometric analysis of insoluble surfactant spreading on a thin film. Computer Methods in Applied3.4433Physics-Informed Neural Network water surface predictability for 1D steady-state open channel cases with different flow types and complex bed profile shapes. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9,.0.7334A study of microgrids through cooperative games including the effect of geographical proximity. 2017, .235Variational Modelling of Strain Localization in Solids: A Computational Mechanics Point of View. Archives of Computational Methods in Engineering, 2021, 28, 1183-1203.6.02	31	Finding teleconnections from decomposed rainfall signals using dynamic harmonic regressions: a Tropical Andean case study. Climate Dynamics, 2019, 52, 4643-4670.	1.7	5
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34A study of microgrids through cooperative games including the effect of geographical proximity. , 2017, , .235Variational Modelling of Strain Localization in Solids: A Computational Mechanics Point of View. Archives of Computational Methods in Engineering, 2021, 28, 1183-1203.6.02	33	Physics-Informed Neural Network water surface predictability for 1D steady-state open channel cases with different flow types and complex bed profile shapes. Advanced Modeling and Simulation in Engineering Sciences, 2022, 9, .	0.7	3
35Variational Modelling of Strain Localization in Solids: A Computational Mechanics Point of View. Archives of Computational Methods in Engineering, 2021, 28, 1183-1203.6.02	34	A study of microgrids through cooperative games including the effect of geographical proximity. , 2017, , .		2
	35	Variational Modelling of Strain Localization in Solids: A Computational Mechanics Point of View. Archives of Computational Methods in Engineering, 2021, 28, 1183-1203.	6.0	2

36 Smart grids: A multi-scale framework of analysis. , 2017, , .

ESTEBAN SAMANIEGO

#	Article	IF	CITATIONS
37	A Variational Merging Approach to the Spatial Description of Environmental Variables. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4027-4044.	1.2	1
38	Local rainfall modelling based on global climate information: A data-based approach. Environmental Modelling and Software, 2020, 131, 104786.	1.9	1
39	Resistance Analysis of Morphologies in Headwater Mountain Streams. Water (Switzerland), 2021, 13, 2207.	1.2	1
40	Exploratory Study of Physic Informed Deep Learning Applied to a Step-Pool for Different Flow Magnitudes. Smart Innovation, Systems and Technologies, 2022, , 275-284.	0.5	1
41	Unidimensional, non-stationary modeling of a high mountain river in southern Ecuador. Maskana, 2018, 9, 67-74.	0.5	1
42	Efecto del refinamiento de la descripción de la rugosidad en una aproximación 2D para un rÃo de montaña: un caso de estudio. Granja, 2021, 33, 92-102.	0.1	0
43	Objective Phenomenological Constitutive Law for Collapse Analyses in Distributed Plasticity Steel-Frame Models. Journal of Structural Engineering, 2021, 147, 04021057.	1.7	0
44	Homogenización computacional aplicada al estudio de suelos tipo conglomerado del austro ecuatoriano. Maskana, 2010, 1, 31-40.	0.5	0
45	Aplicabilidad de los modelos NAM y DBM para estimar caudales en subcuencas alto andinas de Ecuador. Maskana, 2013, 4, 85-103.	0.5	0
46	Simplificación del proceso complejo de reducción de escala de los modelos climáticos globales por medio de la aplicación web SDW. Maskana, 2014, 5, 97-105.	0.5	0