

Ugo Galvanetto

List of Publications by Year in descending order

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Version: 2024-02-01

26
papers

1,279
citations

471509

17
h-index

580821

25
g-index

26
all docs

26
docs citations

26
times ranked

593
citing authors

#	ARTICLE	IF	CITATIONS
1	Coupling of FEM meshes with Peridynamic grids. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 330, 471-497.	6.6	169
2	An effective way to couple FEM meshes and Peridynamics grids for the solution of static equilibrium problems. <i>Mechanics Research Communications</i> , 2016, 76, 41-47.	1.8	140
3	Numerical simulation of fatigue-driven delamination using interface elements. <i>International Journal for Numerical Methods in Engineering</i> , 2005, 63, 1824-1848.	2.8	137
4	Crack propagation with adaptive grid refinement in 2D peridynamics. <i>International Journal of Fracture</i> , 2014, 190, 1-22.	2.2	133
5	Static solution of crack propagation problems in Peridynamics. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 126-151.	6.6	127
6	Hybrid FEM and peridynamic simulation of hydraulic fracture propagation in saturated porous media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 366, 113101.	6.6	100
7	A generalized finite difference method based on the Peridynamic differential operator for the solution of problems in bounded and unbounded domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 343, 100-126.	6.6	68
8	Coupling of FEM and ordinary state-based peridynamics for brittle failure analysis in 3D. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 875-890.	2.6	50
9	A discussion on failure criteria for ordinary state-based peridynamics. <i>Engineering Fracture Mechanics</i> , 2017, 186, 378-398.	4.3	48
10	Coupling of 2D discretized Peridynamics with a meshless method based on classical elasticity using switching of nodal behaviour. <i>Engineering Computations</i> , 2017, 34, 1334-1366.	1.4	44
11	Experimental and numerical fracture analysis of the plain and polyvinyl alcohol fiber-reinforced ultra-high-performance concrete structures. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 108, 102566.	4.7	32
12	A novel and effective way to impose boundary conditions and to mitigate the surface effect in state-based Peridynamics. <i>International Journal for Numerical Methods in Engineering</i> , 2021, 122, 5773-5811.	2.8	32
13	Application of the peridynamic differential operator to the solution of sloshing problems in tanks. <i>Engineering Computations</i> , 2018, 36, 45-83.	1.4	28
14	Numerical simulation of forerunning fracture in saturated porous solids with hybrid FEM/Peridynamic model. <i>Computers and Geotechnics</i> , 2021, 133, 104024.	4.7	28
15	The effects of topology and relative density of lattice liners on traumatic brain injury mitigation. <i>Journal of Biomechanics</i> , 2019, 97, 109376.	2.1	25
16	Simulation of chemo-thermo-mechanical problems in cement-based materials with Peridynamics. <i>Meccanica</i> , 2021, 56, 2357-2379.	2.0	25
17	The meshless finite point method for transient elastodynamic problems. <i>Acta Mechanica</i> , 2017, 228, 3581-3593.	2.1	24
18	Fatigue degradation strategies to simulate crack propagation using peridynamic based computational methods. <i>Latin American Journal of Solids and Structures</i> , 2019, 16, .	1.0	19

#	ARTICLE	IF	CITATIONS
19	A new approach to system reliability analysis of offshore structures using dominant failure modes identified by selective searching technique. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 2360-2372.	1.9	13
20	A new method based on Taylor expansion and nearest-node strategy to impose Dirichlet and Neumann boundary conditions in ordinary state-based Peridynamics. <i>Computational Mechanics</i> , 2022, 70, 1-27.	4.0	12
21	Wave propagation improvement in two-dimensional bond-based peridynamics model. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2021, 235, 2542-2553.	2.1	9
22	Design of an innovative optimized motorcycle helmet. <i>Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology</i> , 2014, 228, 95-110.	0.7	8
23	Assessment of the protective performance of neck braces for motorcycle riders: a finite-element study. <i>International Journal of Crashworthiness</i> , 2019, 24, 487-498.	1.9	3
24	Development of a finite element neck model for head-first compressive impacts: Toward the assessment of motorcycle neck protective equipment. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2021, 235, 1001-1013.	1.8	3
25	A coupled peridynamic and finite strip method for analysis of in-plane behaviors of plates with discontinuities. <i>Engineering With Computers</i> , 2023, 39, 2791-2806.	6.1	1
26	3D fluid-structure interaction with fracturing: A new method with applications. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 398, 115210.	6.6	1