Ugo Galvanetto

List of Publications by Year
in descending order

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	A coupled peridynamic and finite strip method for analysis of in-plane behaviors of plates with discontinuities. Engineering With Computers, 2023, 39, 2791-2806.	6.1	1
2	A new method based on Taylor expansion and nearest-node strategy to impose Dirichlet and Neumann boundary conditions in ordinary state-based Peridynamics. Computational Mechanics, 2022, 70, 1-27.	4.0	12
3	3D fluidâ€"structure interaction with fracturing: A new method with applications. Computer Methods in Applied Mechanics and Engineering, 2022, 398, 115210.	6.6	1
4	Coupling of FEM and ordinary state-based peridynamics for brittle failure analysis in 3D. Mechanics of Advanced Materials and Structures, 2021, 28, 875-890.	2.6	50
5	Development of a finite element neck model for head-first compressive impacts: Toward the assessment of motorcycle neck protective equipment. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2021, 235, 1001-1013.	1.8	3
6	Numerical simulation of forerunning fracture in saturated porous solids with hybrid FEM/Peridynamic model. Computers and Geotechnics, 2021, 133, 104024.	4.7	28
7	Simulation of chemo-thermo-mechanical problems in cement-based materials with Peridynamics. Meccanica, 2021, 56, 2357-2379.	2.0	25
8	A novel and effective way to impose boundary conditions and to mitigate the surface effect in stateâ€based Peridynamics. International Journal for Numerical Methods in Engineering, 2021, 122, 5773-5811.	2.8	32
9	Wave propagation improvement in two-dimensional bond-based peridynamics model. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2021, 235, 2542-2553.	2.1	9
10	Hybrid FEM and peridynamic simulation of hydraulic fracture propagation in saturated porous media. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113101.	6.6	100
11	Experimental and numerical fracture analysis of the plain and polyvinyl alcohol fiber-reinforced ultra-high-performance concrete structures. Theoretical and Applied Fracture Mechanics, 2020, 108, 102566.	4.7	32
12	The effects of topology and relative density of lattice liners on traumatic brain injury mitigation. Journal of Biomechanics, 2019, 97, 109376.	2.1	25
13	Fatigue degradation strategies to simulate crack propagation using peridynamic based computational methods. Latin American Journal of Solids and Structures, 2019, 16, .	1.0	19
14	A generalized finite difference method based on the Peridynamic differential operator for the solution of problems in bounded and unbounded domains. Computer Methods in Applied Mechanics and Engineering, 2019, 343, 100-126.	6.6	68
15	Assessment of the protective performance of neck braces for motorcycle riders: a finite-element study. International Journal of Crashworthiness, 2019, 24, 487-498.	1.9	3
16	Static solution of crack propagation problems in Peridynamics. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 126-151.	6.6	127
17	Coupling of FEM meshes with Peridynamic grids. Computer Methods in Applied Mechanics and Engineering, 2018, 330, 471-497.	6.6	169
18	Application of the peridynamic differential operator to the solution of sloshing problems in tanks. Engineering Computations, 2018, 36, 45-83.	1.4	28

#	Article	IF	Citations
19	A new approach to system reliability analysis of offshore structures using dominant failure modes identified by selective searching technique. KSCE Journal of Civil Engineering, 2017, 21, 2360-2372.	1.9	13
20	A discussion on failure criteria for ordinary state-based peridynamics. Engineering Fracture Mechanics, 2017, 186, 378-398.	4.3	48
21	Coupling of 2D discretized Peridynamics with a meshless method based on classical elasticity using switching of nodal behaviour. Engineering Computations, 2017, 34, 1334-1366.	1.4	44
22	The meshless finite point method for transient elastodynamic problems. Acta Mechanica, 2017, 228, 3581-3593.	2.1	24
23	An effective way to couple FEM meshes and Peridynamics grids for the solution of static equilibrium problems. Mechanics Research Communications, 2016, 76, 41-47.	1.8	140
24	Crack propagation with adaptive grid refinement in 2D peridynamics. International Journal of Fracture, 2014, 190, 1-22.	2.2	133
25	Design of an innovative optimized motorcycle helmet. Proceedings of the Institution of Mechanical Engineers, Part P: Journal of Sports Engineering and Technology, 2014, 228, 95-110.	0.7	8
26	Numerical simulation of fatigue-driven delamination using interface elements. International Journal for Numerical Methods in Engineering, 2005, 63, 1824-1848.	2.8	137