

Pierluigi Fanelli

List of Publications by Year in descending order

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56
papers

721
citations

567144

15
h-index

610775

24
g-index

56
all docs

56
docs citations

56
times ranked

469
citing authors

#	ARTICLE	IF	CITATIONS
1	Limiters for DEMO wall protection: Initial design concepts & technology options. Fusion Engineering and Design, 2022, 174, 112988.	1.0	14
2	Composite-to-metal multi-bolt joints: a simplified FE analysis method. IOP Conference Series: Materials Science and Engineering, 2022, 1214, 012021.	0.3	0
3	Analysis of Deformation in an Aluminium Hull Impacting Water Free Surface. Fluids, 2022, 7, 49.	0.8	2
4	A semi-analytical method for the calculation of double-ellipsoidal heat source parameters in welding simulation. IOP Conference Series: Materials Science and Engineering, 2022, 1214, 012023.	0.3	1
5	Inter-machine plasma perturbation studies in EU-DEMO-relevant scenarios: lessons learnt for prediction of EM forces during VDEs. Nuclear Fusion, 2022, 62, 076004.	1.6	5
6	Reply to: Models of flow through sponges must consider the sponge tissue. Nature, 2022, 603, E26-E28.	13.7	1
7	Integrated design strategy for EU-DEMO first wall protection from plasma transients. Fusion Engineering and Design, 2022, 177, 113067.	1.0	21
8	Assessment of the Performance of Different Cooling Configurations for the Launcher Mirrors of the ECRH System of the DTT Facility. IEEE Transactions on Plasma Science, 2022, 50, 4054-4059.	0.6	5
9	Ritz method analysis of rectilinear orthotropic composite circular plates undergoing in-plane bending and torsional moments. Mechanics of Advanced Materials and Structures, 2021, 28, 963-979.	1.5	19
10	On the radial bending of shear-deformable composite circular plates with rectilinear orthotropy. European Journal of Mechanics, A/Solids, 2021, 86, 104157.	2.1	17
11	Theoretical definition of a new custom finite element for structural modeling of composite bolted joints. Composite Structures, 2021, 258, 113199.	3.1	27
12	Effect of Strain Measurement Layout on Damage Detection and Localization in a Free Falling Compliant Cylinder Impacting a Water Surface. Fluids, 2021, 6, 58.	0.8	4
13	A novel modeling approach for multi-passes butt-welded plates. Journal of Thermal Stresses, 2021, 44, 829-849.	1.1	13
14	Extreme flow simulations reveal skeletal adaptations of deep-sea sponges. Nature, 2021, 595, 537-541.	13.7	64
15	Multiscale analysis and mechanical characterization of open-cell foams by simplified FE modeling. European Journal of Mechanics, A/Solids, 2021, 89, 104291.	2.1	15
16	Comparison between finite element and experimental evidences of innovative W lattice materials for sacrificial limiter applications. Fusion Engineering and Design, 2021, 169, 112493.	1.0	5
17	Using MAXFEA code in combination with ANSYS APDL for the simulation of plasma disruption events on EU DEMO. Fusion Engineering and Design, 2021, 170, 112697.	1.0	9
18	Projecting LBM performance on Exascale class Architectures: A tentative outlook. Journal of Computational Science, 2021, 55, 101447.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Cylinder-lamina system fluid-structure interaction problem solved with an original OpenFOAM code. Journal of Computational Science, 2021, 54, 101420.	1.5	0
20	Influence of DEMO vacuum vessel shell thickness on its electromagnetic response. Fusion Engineering and Design, 2021, 173, 112828.	1.0	1
21	Analysis of multi-bolt composite joints with a user-defined finite element for the evaluation of load distribution and secondary bending. Composites Part B: Engineering, 2021, 227, 109378.	5.9	39
22	Preliminary design and thermal analyses of the steerable mirror cooling channel of the DTT ECRH. Fusion Engineering and Design, 2020, 161, 111880.	1.0	7
23	Dynamic behaviour of DEMO vacuum vessel during plasma vertical displacement events. Fusion Engineering and Design, 2020, 159, 111876.	1.0	7
24	Tailored tungsten lattice structures for plasma-facing components in magnetic confinement fusion devices. Materials Today, 2020, 39, 146-147.	8.3	6
25	Parametric design study of a substrate material for a DEMO sacrificial limiter. Fusion Engineering and Design, 2020, 158, 111721.	1.0	13
26	Influence of the geometric model on the structural analysis of architectural heritage. Journal of Cultural Heritage, 2020, 43, 144-152.	1.5	11
27	First-order shear deformation analysis of rectilinear orthotropic composite circular plates undergoing transversal loads. Composites Part B: Engineering, 2019, 174, 107015.	5.9	18
28	Thermal, electromagnetic and structural analysis of gas baffles for the TCV divertor upgrade. Fusion Engineering and Design, 2019, 146, 1543-1547.	1.0	4
29	Preliminary investigation on W foams as protection strategy for advanced FW PFCs. Fusion Engineering and Design, 2019, 146, 1690-1693.	1.0	6
30	An original FE modelling of a longitudinal multi-passes seam welding. Procedia Structural Integrity, 2019, 24, 852-865.	0.3	1
31	Live reconstruction of global loads on a powerboat using local strain FBG measurements. Procedia Structural Integrity, 2019, 24, 949-960.	0.3	5
32	FE analysis of single-bolt composite bolted joint by means of a simplified modeling technique. Procedia Structural Integrity, 2019, 24, 888-897.	0.3	19
33	Fluid-structure interaction problem of a deformable lamina solved with an original OpenFOAM code. Procedia Structural Integrity, 2019, 24, 939-948.	0.3	1
34	Structural health monitoring algorithm application to a powerboat model impacting on water surface. Procedia Structural Integrity, 2019, 24, 926-938.	0.3	4
35	Structural analysis of transversally loaded quasi-isotropic rectilinear orthotropic composite circular plates with Galerkin method. Procedia Structural Integrity, 2018, 8, 368-378.	0.3	14
36	Live crack damage detection with local strain measurement on solid bodies subjected to hydrodynamic loading. Procedia Structural Integrity, 2018, 8, 539-551.	0.3	4

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37	Experimental characterization and numerical simulation of riveted lap-shear joints using Rivet Element. <i>International Journal of Advanced Structural Engineering</i> , 2018, 10, 37-47.	1.3	3
38	Bending analysis with Galerkin method of rectilinear orthotropic composite circular plates subject to transversal load. <i>Composites Part B: Engineering</i> , 2018, 140, 250-259.	5.9	25
39	Structural analysis and optimization of anisogrid composite lattice cylindrical shells. <i>Composites Part B: Engineering</i> , 2018, 139, 203-215.	5.9	53
40	A novel composite bolted joint element: application to a single-bolted joint. <i>Procedia Structural Integrity</i> , 2018, 12, 281-295.	0.3	18
41	Numerical simulation of water entry problems using open source codes. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	3
42	Design, analysis and optimization of anisogrid composite lattice conical shells. <i>Composites Part B: Engineering</i> , 2018, 150, 184-195.	5.9	45
43	Influence of sensors layout in damage monitoring of cylindrical bodies under impulsive hydrodynamic loading. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	1
44	Elastic analysis of rectilinear orthotropic composite circular plates subject to transversal and in-plane load conditions using Ritz method. <i>Composite Structures</i> , 2018, 199, 63-75.	3.1	23
45	Structural health monitoring of cylindrical bodies under impulsive hydrodynamic loading by distributed FBG strain measurements. <i>Measurement Science and Technology</i> , 2017, 28, 024006.	1.4	22
46	Fatigue reliability evaluation of riveted lap joints using a new rivet element and DFR. <i>International Journal of Fatigue</i> , 2017, 101, 430-438.	2.8	17
47	Modelling and characterization of structural behaviour of Al open-cell foams. <i>Materials and Design</i> , 2017, 114, 167-175.	3.3	21
48	A general formulation of an analytical model for the elastic-plastic behaviour of a spot weld finite element. <i>Mechanics Research Communications</i> , 2015, 69, 54-65.	1.0	8
49	Influence of non-axisymmetric material anisotropy on FSSW static strength. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	2
50	Modelling spot welded joints in elastic-plastic field. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
51	Analysis of elastic-plastic behavior and plastic front evaluation in spot welded joints. <i>International Journal of Mechanical Sciences</i> , 2015, 90, 122-132.	3.6	9
52	Influence of Joint Geometry on Micro and Macro Mechanical Properties of Friction Stir Spot Welded Joints. <i>Procedia Engineering</i> , 2014, 81, 2086-2091.	1.2	16
53	Analytical characterization of plastic flow in spot welded joints. <i>Theoretical and Applied Fracture Mechanics</i> , 2014, 74, 48-54.	2.1	3
54	Analysis of Static Strength and Failure Mode of FSSW Joint in Aluminum Alloy. , 2014, , .		2

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55	Experimental and numerical characterization of Friction Stir Spot Welded joints. Engineering Fracture Mechanics, 2012, 81, 17-25.	2.0	46
56	A new analytical model for the elasticâ€plastic behaviour of spot welded joints subjected to orthogonal load. International Journal of Solids and Structures, 2009, 46, 572-586.	1.3	16