Francesco Vivio

List of Publications by Year
in descending order

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68	996	430754	501076
papers	citations	18 h-index	28 g-index

79	79	79	535
all docs	docs citations	times ranked	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	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
4	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
5	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
6	Theoretical definition of a new custom finite element for structural modeling of composite bolted joints. Composite Structures, 2021, 258, 113199.	3.1	27
7	A novel modeling approach for multi-passes butt-welded plates. Journal of Thermal Stresses, 2021, 44, 829-849.	1.1	13
8	Toward a better understanding of multifunctional cement-based materials: The impact of graphite nanoplatelets (GNPs). Ceramics International, 2021, 47, 20019-20031.	2.3	32
9	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
10	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
11	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
12	Dynamic behaviour of DEMO vacuum vessel during plasma vertical displacement events. Fusion Engineering and Design, 2020, 159, 111876.	1.0	7
13	Tailored tungsten lattice structures for plasma-facing components in magnetic confinement fusion devices. Materials Today, 2020, 39, 146-147.	8.3	6
14	Parametric design study of a substrate material for a DEMO sacrificial limiter. Fusion Engineering and Design, 2020, 158, 111721.	1.0	13
15	High performance cementitious nanocomposites: The effectiveness of nano-Graphite (nG). Construction and Building Materials, 2020, 259, 119687.	3.2	28
16	First-order shear deformation analysis of rectilinear orthotropic composite circular plates undergoing transversal loads. Composites Part B: Engineering, 2019, 174, 107015.	5.9	18
17	A systematic study on EN-998-2 premixed mortars modified with graphene-based materials. Construction and Building Materials, 2019, 227, 116701.	3.2	35
18	Preliminary investigation on W foams as protection strategy for advanced FW PFCs. Fusion Engineering and Design, 2019, 146, 1690-1693.	1.0	6

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19	An original FE modelling of a longitudinal multi-passes seam welding. Procedia Structural Integrity, 2019, 24, 852-865.	0.3	1
20	Live reconstruction of global loads on a powerboat using local strain FBG measurements. Procedia Structural Integrity, 2019, 24, 949-960.	0.3	5
21	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
22	Structural health monitoring algorithm application to a powerboat model impacting on water surface. Procedia Structural Integrity, 2019, 24, 926-938.	0.3	4
23	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
24	Experimental characterization and numerical simulation of riveted lap-shear joints using Rivet Element. International Journal of Advanced Structural Engineering, 2018, 10, 37-47.	1.3	3
25	Bending analysis with Galerkin method of rectilinear orthotropic composite circular plates subject to transversal load. Composites Part B: Engineering, 2018, 140, 250-259.	5.9	25
26	Structural analysis and optimization of anisogrid composite lattice cylindrical shells. Composites Part B: Engineering, 2018, 139, 203-215.	5.9	53
27	A novel composite bolted joint element: application to a single-bolted joint. Procedia Structural Integrity, 2018, 12, 281-295.	0.3	18
28	Design, analysis and optimization of anisogrid composite lattice conical shells. Composites Part B: Engineering, 2018, 150, 184-195.	5.9	45
29	Elastic analysis of rectilinear orthotropic composite circular plates subject to transversal and in-plane load conditions using Ritz method. Composite Structures, 2018, 199, 63-75.	3.1	23
30	Fatigue reliability evaluation of riveted lap joints using a new rivet element and DFR. International Journal of Fatigue, 2017, 101, 430-438.	2.8	17
31	Mechanical Behavior of Aluminum Sandwiches Made by Laser Welding. Procedia Engineering, 2015, 109, 427-434.	1.2	4
32	A general formulation of an analytical model for the elasticâ€“plastic behaviour of a spot weld finite element. Mechanics Research Communications, 2015, 69, 54-65.	1.0	8
33	Influence of non-axisymmetric material anisotropy on FSSW static strength. AIP Conference Proceedings, 2015, , .	0.3	2
34	Modelling spot welded joints in elastic-plastic field. AIP Conference Proceedings, 2015, , .	0.3	0
35	Analysis of elasticâ€“plastic behavior and plastic front evaluation in spot welded joints. International Journal of Mechanical Sciences, 2015, 90, 122-132.	3.6	9
36	Influence of Joint Geometry on Micro and Macro Mechanical Properties of Friction Stir Spot Welded Joints. Procedia Engineering, 2014, 81, 2086-2091.	1.2	16

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37	Analytical characterization of plastic flow in spot welded joints. Theoretical and Applied Fracture Mechanics, 2014, 74, 48-54.	2.1	3
38	Theoretical Stress Analysis of Rotating Hyperbolic Disk without Singularities Subjected to Thermal Load. Journal of Thermal Stresses, 2014, 37, 117-136.	1.1	20
39	Analysis of Static Strength and Failure Mode of FSSW Joint in Aluminum Alloy. , 2014, , .		2
40	Design of Rotating Disks and Stress Concentrations. Mechanical Engineering Series, 2013, , 193-205.	0.1	1
41	Stress Analysis in Rotating Disks Loaded Beyond Yielding: Hardening Materials. Mechanical Engineering Series, 2013, , 273-315.	0.1	0
42	Detail Investigation of Omega Method for Creep Analysis of Pressure Vessel Components. , 2013, , .		0
43	Rotors: Stress Analysis and Design. Mechanical Engineering Series, 2013, , .	0.1	28
44	CFD and FEM Analysis of a New Engine for Light Transportation Vehicles. , 2013, , .		0
45	Thermal Stresses of Rotating Hyperbolic Disks as Particular Case of Non-Linearly Variable Thickness Disks. Journal of Thermal Stresses, 2012, 35, 877-891.	1.1	17
46	Experimental and numerical characterization of Friction Stir Spot Welded joints. Engineering Fracture Mechanics, 2012, 81, 17-25.	2.0	46
47	Thermo-Structural Analysis of a New Engine Cylinder Head. , 2011, , .		3
48	Elasticâ€“plastic analysis of rotating disks having non-linearly variable thickness: residual stresses by overspeeding and service stress state reduction. Annals of Solid and Structural Mechanics, 2010, 1, 87-102.	0.5	14
49	Closed form solutions of axisymmetric bending of circular plates having non-linear variable thickness. International Journal of Mechanical Sciences, 2010, 52, 1234-1252.	3.6	34
50	Structural Analysis of Riveted Structures Using a New FE Modelling Technique. , 2010, , .		0
51	Fatigue life evaluation for multi-spot welded structures. International Journal of Fatigue, 2009, 31, 122-129.	2.8	17
52	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
53	A new theoretical approach for structural modelling of riveted and spot welded multi-spot structures. International Journal of Solids and Structures, 2009, 46, 4006-4024.	1.3	38
54	Elastic stress analysis of non-linear variable thickness rotating disks subjected to thermal load and having variable density along the radius. International Journal of Solids and Structures, 2008, 45, 5337-5355.	1.3	44

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55	Fatigue Life of Multi-Spot Welded Structures. Key Engineering Materials, 2007, 348-349, 249-252.	0.4	0
56	Extension of the Spot Weld Element to the Elasto-Plastic Case. , 2007, , .		4
57	Elastic stress analysis of rotating converging conical disks subjected to thermal load and having variable density along the radius. International Journal of Solids and Structures, 2007, 44, 7767-7784.	1.3	36
58	Identification of elasto-plastic characteristics by means of air-bending test. Journal of Materials Processing Technology, 2007, 183, 127-139.	3.1	11
59	Dynamic reduction strategies to extend modal analysis approach at higher frequencies. Finite Elements in Analysis and Design, 2007, 43, 931-940.	1.7	13
60	One shot failure modes in spot welded structures. Welding International, 2005, 19, 297-304.	0.3	2
61	Enforcing of an analytical solution of spot welds into finite element analysis for fatigue-life estimation. International Journal of Computer Applications in Technology, 2002, 15, 218.	0.3	19
62	GDN-10 A MIXED FINITE ELEMENT : NUMERICAL SOLUTION FOR MESH STIFFNESS EVALUATION(GEAR) Tj ETQq0 0 0 rgBT /Overlock 10 T Transmissions, 2001, I.01.202, 51-56.	0.0	0
63	A spot weld finite element for structural modelling. International Journal of Fatigue, 2000, 22, 645-656.	2.8	54
64	Fatigue Life Prediction On Complex Spot Welded Joints. , 1997, , .		10
65	Modelling Rivets in the Finite Element Analysis. , 0, , .		2
66	A Theoretical Model for the Elastic-Plastic Behaviour of Spot Welded Joints. SAE International Journal of Materials and Manufacturing, 0, 2, 30-39.	0.3	0
67	Modelling of Riveted Joints with a New Rivet Element. , 0, , .		0
68	A Standard Procedure for Complex Bogie Modeling and Analysis: The Specific Case of the LDE2100-1668 Locomotive Design. , 0, , .		0