

Francesco Vivio

List of Publications by Year in descending order

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68
papers

996
citations

430754

18
h-index

501076

28
g-index

79
all docs

79
docs citations

79
times ranked

535
citing authors

#	ARTICLE	IF	CITATIONS
1	A spot weld finite element for structural modelling. International Journal of Fatigue, 2000, 22, 645-656.	2.8	54
2	Structural analysis and optimization of anisogrid composite lattice cylindrical shells. Composites Part B: Engineering, 2018, 139, 203-215.	5.9	53
3	Experimental and numerical characterization of Friction Stir Spot Welded joints. Engineering Fracture Mechanics, 2012, 81, 17-25.	2.0	46
4	Design, analysis and optimization of anisogrid composite lattice conical shells. Composites Part B: Engineering, 2018, 150, 184-195.	5.9	45
5	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
6	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
7	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
8	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
9	A systematic study on EN-998-2 premixed mortars modified with graphene-based materials. Construction and Building Materials, 2019, 227, 116701.	3.2	35
10	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
11	Toward a better understanding of multifunctional cement-based materials: The impact of graphite nanoplatelets (GNPs). Ceramics International, 2021, 47, 20019-20031.	2.3	32
12	Rotors: Stress Analysis and Design. Mechanical Engineering Series, 2013, , .	0.1	28
13	High performance cementitious nanocomposites: The effectiveness of nano-Graphite (nG). Construction and Building Materials, 2020, 259, 119687.	3.2	28
14	Theoretical definition of a new custom finite element for structural modeling of composite bolted joints. Composite Structures, 2021, 258, 113199.	3.1	27
15	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
16	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
17	Theoretical Stress Analysis of Rotating Hyperbolic Disk without Singularities Subjected to Thermal Load. Journal of Thermal Stresses, 2014, 37, 117-136.	1.1	20
18	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

#	ARTICLE	IF	CITATIONS
19	FE analysis of single-bolt composite bolted joint by means of a simplified modeling technique. <i>Procedia Structural Integrity</i> , 2019, 24, 888-897.	0.3	19
20	Ritz method analysis of rectilinear orthotropic composite circular plates undergoing in-plane bending and torsional moments. <i>Mechanics of Advanced Materials and Structures</i> , 2021, 28, 963-979.	1.5	19
21	A novel composite bolted joint element: application to a single-bolted joint. <i>Procedia Structural Integrity</i> , 2018, 12, 281-295.	0.3	18
22	First-order shear deformation analysis of rectilinear orthotropic composite circular plates undergoing transversal loads. <i>Composites Part B: Engineering</i> , 2019, 174, 107015.	5.9	18
23	Fatigue life evaluation for multi-spot welded structures. <i>International Journal of Fatigue</i> , 2009, 31, 122-129.	2.8	17
24	Thermal Stresses of Rotating Hyperbolic Disks as Particular Case of Non-Linearly Variable Thickness Disks. <i>Journal of Thermal Stresses</i> , 2012, 35, 877-891.	1.1	17
25	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
26	On the radial bending of shear-deformable composite circular plates with rectilinear orthotropy. <i>European Journal of Mechanics, A/Solids</i> , 2021, 86, 104157.	2.1	17
27	A new analytical model for the elastic-plastic behaviour of spot welded joints subjected to orthogonal load. <i>International Journal of Solids and Structures</i> , 2009, 46, 572-586.	1.3	16
28	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
29	Multiscale analysis and mechanical characterization of open-cell foams by simplified FE modeling. <i>European Journal of Mechanics, A/Solids</i> , 2021, 89, 104291.	2.1	15
30	Elastic-plastic analysis of rotating disks having non-linearly variable thickness: residual stresses by overspeeding and service stress state reduction. <i>Annals of Solid and Structural Mechanics</i> , 2010, 1, 87-102.	0.5	14
31	Structural analysis of transversally loaded quasi-isotropic rectilinear orthotropic composite circular plates with Galerkin method. <i>Procedia Structural Integrity</i> , 2018, 8, 368-378.	0.3	14
32	Limiters for DEMO wall protection: Initial design concepts & technology options. <i>Fusion Engineering and Design</i> , 2022, 174, 112988.	1.0	14
33	Dynamic reduction strategies to extend modal analysis approach at higher frequencies. <i>Finite Elements in Analysis and Design</i> , 2007, 43, 931-940.	1.7	13
34	Parametric design study of a substrate material for a DEMO sacrificial limiter. <i>Fusion Engineering and Design</i> , 2020, 158, 111721.	1.0	13
35	A novel modeling approach for multi-passes butt-welded plates. <i>Journal of Thermal Stresses</i> , 2021, 44, 829-849.	1.1	13
36	Identification of elasto-plastic characteristics by means of air-bending test. <i>Journal of Materials Processing Technology</i> , 2007, 183, 127-139.	3.1	11

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37	Fatigue Life Prediction On Complex Spot Welded Joints. , 1997, , .		10
38	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
39	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
40	Dynamic behaviour of DEMO vacuum vessel during plasma vertical displacement events. Fusion Engineering and Design, 2020, 159, 111876.	1.0	7
41	Preliminary investigation on W foams as protection strategy for advanced FW PFCs. Fusion Engineering and Design, 2019, 146, 1690-1693.	1.0	6
42	Tailored tungsten lattice structures for plasma-facing components in magnetic confinement fusion devices. Materials Today, 2020, 39, 146-147.	8.3	6
43	Live reconstruction of global loads on a powerboat using local strain FBG measurements. Procedia Structural Integrity, 2019, 24, 949-960.	0.3	5
44	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
45	Extension of the Spot Weld Element to the Elasto-Plastic Case. , 2007, , .		4
46	Mechanical Behavior of Aluminum Sandwiches Made by Laser Welding. Procedia Engineering, 2015, 109, 427-434.	1.2	4
47	Structural health monitoring algorithm application to a powerboat model impacting on water surface. Procedia Structural Integrity, 2019, 24, 926-938.	0.3	4
48	Thermo-Structural Analysis of a New Engine Cylinder Head. , 2011, , .		3
49	Analytical characterization of plastic flow in spot welded joints. Theoretical and Applied Fracture Mechanics, 2014, 74, 48-54.	2.1	3
50	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
51	One shot failure modes in spot welded structures. Welding International, 2005, 19, 297-304.	0.3	2
52	Modelling Rivets in the Finite Element Analysis. , 0, , .		2
53	Analysis of Static Strength and Failure Mode of FSSW Joint in Aluminum Alloy. , 2014, , .		2
54	Influence of non-axisymmetric material anisotropy on FSSW static strength. AIP Conference Proceedings, 2015, , .	0.3	2

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55	Design of Rotating Disks and Stress Concentrations. Mechanical Engineering Series, 2013, , 193-205.	0.1	1
56	An original FE modelling of a longitudinal multi-passes seam welding. Procedia Structural Integrity, 2019, 24, 852-865.	0.3	1
57	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
58	Fatigue Life of Multi-Spot Welded Structures. Key Engineering Materials, 2007, 348-349, 249-252.	0.4	0
59	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
60	Modelling of Riveted Joints with a New Rivet Element. , 0, , .		0
61	Structural Analysis of Riveted Structures Using a New FE Modelling Technique. , 2010, , .		0
62	Stress Analysis in Rotating Disks Loaded Beyond Yielding: Hardening Materials. Mechanical Engineering Series, 2013, , 273-315.	0.1	0
63	Detail Investigation of Omega Method for Creep Analysis of Pressure Vessel Components. , 2013, , .		0
64	CFD and FEM Analysis of a New Engine for Light Transportation Vehicles. , 2013, , .		0
65	Modelling spot welded joints in elastic-plastic field. AIP Conference Proceedings, 2015, , .	0.3	0
66	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
67	Composite-to-metal multi-bolt joints: a simplified FE analysis method. IOP Conference Series: Materials Science and Engineering, 2022, 1214, 012021.	0.3	0
68	A Standard Procedure for Complex Bogie Modeling and Analysis: The Specific Case of the LDE2100-1668 Locomotive Design. , 0, , .		0