

Octavio Andr s Gonz lez-Estrada

List of Publications by Year in descending order

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papers

948
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687220

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all docs

68
docs citations

68
times ranked

662
citing authors

#	ARTICLE	IF	CITATIONS
1	NURBS-based finite element analysis of functionally graded plates: Static bending, vibration, buckling and flutter. <i>Composite Structures</i> , 2013, 99, 309-326.	3.1	277
2	A recovery-type error estimator for the extended finite element method based on singular-smooth stress field splitting. <i>International Journal for Numerical Methods in Engineering</i> , 2008, 76, 545-571.	1.5	84
3	Static and fatigue behaviour of continuous fibre reinforced thermoplastic composites manufactured by fused deposition modelling technique. <i>International Journal of Fatigue</i> , 2020, 130, 105275.	2.8	71
4	Error-controlled adaptive extended finite element method for 3D linear elastic crack propagation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 318, 319-348.	3.4	57
5	Accurate recovery-based upper error bounds for the extended finite element framework. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2010, 199, 2607-2621.	3.4	46
6	Mesh adaptivity driven by goal-oriented locally equilibrated superconvergent patch recovery. <i>Computational Mechanics</i> , 2014, 53, 957-976.	2.2	40
7	Evaluation of Tensile Properties and Damage of Continuous Fibre Reinforced 3D-Printed Parts. <i>Key Engineering Materials</i> , 0, 774, 161-166.	0.4	33
8	Mechanical properties for long fibre reinforced fused deposition manufactured composites. <i>Composites Part B: Engineering</i> , 2021, 211, 108657.	5.9	32
9	Locally equilibrated stress recovery for goal oriented error estimation in the extended finite element method. <i>Computers and Structures</i> , 2015, 152, 1-10.	2.4	30
10	On the role of enrichment and statical admissibility of recovered fields in a posteriori error estimation for enriched finite element methods. <i>Engineering Computations</i> , 2012, 29, 814-841.	0.7	26
11	Efficient recovery-based error estimation for the smoothed finite element method for smooth and singular linear elasticity. <i>Computational Mechanics</i> , 2013, 52, 37-52.	2.2	24
12	Enhanced error estimator based on a nearly equilibrated moving least squares recovery technique for FEM and XFEM. <i>Computational Mechanics</i> , 2013, 52, 321-344.	2.2	17
13	Effect of Relative Density in In-Plane Mechanical Properties of Common 3D-Printed Polylactic Acid Lattice Structures. <i>ACS Omega</i> , 2021, 6, 29830-29838.	1.6	15
14	Kinematic analysis and dimensional optimization of a 2R2T parallel manipulator. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2019, 41, 1.	0.8	14
15	Resistencia de vigas esbeltas de acero inoxidable bajo cargas concentradas mediante elementos finitos. <i>Revista UIS Ingenierías</i> , 2017, 16, 61-70.	0.1	14
16	Análisis de integridad estructural de tuberías de material compuesto para el transporte de hidrocarburos por elementos finitos. <i>Revista UIS Ingenierías</i> , 2017, 15, 105-116.	0.1	12
17	Estrategia de optimización para la síntesis dimensional de un robot paralelo 5R para una aplicación de mesa de corte. <i>Revista UIS Ingenierías</i> , 2017, 16, 197-206.	0.1	9
18	Study of mechanical properties under compression failure in reinforced composite materials produced by additive manufacturing. <i>Journal of Physics: Conference Series</i> , 2018, 1126, 012005.	0.3	8

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19	Comparison of segmentation tools for structural analysis of bone tissues by finite elements. Journal of Physics: Conference Series, 2019, 1386, 012113.	0.3	8
20	Monotonic load datasets for additively manufactured thermoplastic reinforced composites. Data in Brief, 2020, 29, 105295.	0.5	8
21	Error estimation for the polygonal finite element method for smooth and singular linear elasticity. Computers and Mathematics With Applications, 2021, 92, 109-119.	1.4	7
22	Mechanical Response and Damage of Woven Composite Materials Reinforced with Figue. Key Engineering Materials, 2018, 774, 143-148.	0.4	6
23	Evaluación de las propiedades tribológicas de materiales compuestos de matriz metálica (MMCs) procesados por técnicas de fabricación aditiva con haz láser (SLM). Revista UIS Ingenierías, 0, 16, 101-114.	0.1	6
24	Modelado de la interacción fluido estructura (FSI) para el diseño de una turbina eólica HAWT. Revista UIS Ingenierías, 2018, 17, 269-282.	0.1	6
25	Análisis de un interno tipo brida de un recipiente horizontal a presión utilizando elementos finitos. Revista UIS Ingenierías, 2019, 18, 151-156.	0.1	6
26	Damage in Fibreglass Composite Laminates Used for Pipes. Key Engineering Materials, 2018, 774, 155-160.	0.4	5
27	Influence of the boundary condition on the first ply failure and stress distribution on a multilayer composite pipe by the finite element method. Journal of Physics: Conference Series, 2019, 1159, 012013.	0.3	5
28	Comparative study of the influence of dental implant design on the stress and strain distribution using the finite element method. Journal of Physics: Conference Series, 2019, 1159, 012016.	0.3	4
29	Tensile mechanical properties of composite materials with continuous fiber produced by additive manufacturing. Journal of Physics: Conference Series, 2019, 1386, 012008.	0.3	4
30	Effect of force angle on the strain distribution of osseointegrated dental implants. Journal of Physics: Conference Series, 2019, 1388, 012022.	0.3	4
31	Análisis de sensibilidad de un miembro a compresión vía el método de Monte Carlo. Revista UIS Ingenierías, 2018, 17, 179-184.	0.1	4
32	Análisis de un generador de HHO de celda seca para su aplicación en motores de combustión interna. Revista UIS Ingenierías, 2018, 13, 143-154.	0.1	4
33	Evaluation of damage to the lumbar spine vertebrae L5 by finite element analysis. Respuestas, 2019, 24, 50-55.	0.2	4
34	Finite Element Analysis for Palm Oil Bunches Press Shaft Fractured in Service. Key Engineering Materials, 0, 774, 191-196.	0.4	3
35	Compression tests performed in reinforced rigid matrix composite varying the reinforcement material. Journal of Physics: Conference Series, 2018, 1126, 012007.	0.3	3
36	Numerical and experimental study of flexural behaviour in polymer composite materials reinforced with natural fique textiles. Journal of Physics: Conference Series, 2019, 1247, 012001.	0.3	3

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37	Implementation of the Operational Modal Analysis technique in a power transmission shaft. Journal of Physics: Conference Series, 2019, 1247, 012032.	0.3	3
38	Shape optimization of a control arm produced by additive manufacturing with fiber reinforcement. Journal of Physics: Conference Series, 2019, 1386, 012003.	0.3	3
39	Numerical modelling of guided waves dispersion curves in an aluminium flat plate by finite element analysis. Journal of Physics: Conference Series, 2019, 1386, 012117.	0.3	3
40	Reconstrucción de tensiones para el método de elementos finitos con mallas poligonales. Revista UIS Ingenierías, 0, 16, 23-34.	0.1	3
41	Evaluation Through SEM Image Processing of the Volumetric Fiber Content in Continuous Fiber-Reinforced Additive Manufacturing Composites. Materials Research, 2021, 24, .	0.6	3
42	Technological development of a low-cost wrist rehabilitation robot: Kinematic and static performance analysis. Journal of Physics: Conference Series, 2018, 1126, 012069.	0.3	2
43	Damage Assessment of Spinal Bones due to Prostate Cancer. Key Engineering Materials, 2018, 774, 149-154.	0.4	2
44	Optimization of the connecting rod of a two-stroke engine using finite element analysis. Journal of Physics: Conference Series, 2019, 1386, 012114.	0.3	2
45	Detección de daños en una armadura unidimensional por medio del algoritmo de optimización de la luz y elementos finitos. Avances Investigación En Ingeniería, 2017, 13, .	0.0	2
46	Mechanical characterization of additive manufacturing composite parts. Respuestas, 2020, 25, .	0.2	2
47	Modelo predictivo para el cálculo de la fracción volumétrica de un flujo bifásico agua-aceite en la horizontal utilizando una red neuronal artificial. Revista UIS Ingenierías, 2022, 21, 155-164.	0.1	2
48	Stress Sensitivity of the T(0,1) Mode Velocity for Cylindrical Waveguides. Key Engineering Materials, 0, 774, 453-460.	0.4	1
49	Damage model for the impact test of an automotive aluminum wheel. Journal of Physics: Conference Series, 2018, 1126, 012002.	0.3	1
50	Development of a virtual learning environment for the subject numerical methods under Moodle. Journal of Physics: Conference Series, 2019, 1161, 012010.	0.3	1
51	Virtual tool for training and evaluation of problem-based engineering subjects. Journal of Physics: Conference Series, 2019, 1161, 012004.	0.3	1
52	Interlaminar tensile strength for composite materials made by additive manufacturing. Journal of Physics: Conference Series, 2019, 1386, 012002.	0.3	1
53	Adhesive joints for composite materials produced by additive manufacturing. Journal of Physics: Conference Series, 2019, 1386, 012005.	0.3	1
54	Mechanical response to tensile stress of a composite material reinforced with sugar cane fibers. Journal of Physics: Conference Series, 2019, 1386, 012031.	0.3	1

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55	Micromechanical approach for the analysis of wave propagation in particulate composites. Revista UIS Ingenierías, 2019, 18, 41-50.	0.1	1
56	Performance Index for Dimensional Synthesis of Robots for Specific Tasks. Robotics, 2022, 11, 51.	2.1	1
57	Biomechanical analysis of a cranial Patient Specific Implant on the interface with the bone using the Finite Element Method. IFMBE Proceedings, 2017, , 405-408.	0.2	0
58	Design of a residential microgrid in Lagos del Cacique, Bucaramanga, Colombia. Journal of Physics: Conference Series, 2017, 935, 012063.	0.3	0
59	Stressed Cylinder Dispersion Curves Based on Effective Elastic Constants and SAFE Method. Key Engineering Materials, 0, 774, 295-302.	0.4	0
60	Optimization of parameters in material selection of tricone drill bit head design. Journal of Physics: Conference Series, 2019, 1159, 012018.	0.3	0
61	Interlaminar tensile strength of the composite of African palm oil bunches rachis fibers and epoxy matrix. Journal of Physics: Conference Series, 2019, 1386, 012006.	0.3	0
62	Mechanical characterization of the rachis fiber obtained from the African palm elaeis guineensis. Journal of Physics: Conference Series, 2019, 1386, 012051.	0.3	0
63	Methodology based on cross modal strain energy method to estimate the damage severity in a metallic structure. Journal of Physics: Conference Series, 2019, 1386, 012105.	0.3	0
64	Journals in engineering and technology: evaluation and analysis of the incidence of the Publindex classification model. Respuestas, 2020, 25, 108-126.	0.2	0
65	Caracterización de propiedades elásticas en una muestra de roca tipo arenisca mediante elementos finitos. Revista UIS Ingenierías, 2022, 21, .	0.1	0