Estaner Claro RomÃ£o

List of Publications by Year
in descending order

59 papers	164 citations	1684188 5 h-index	1281871 11 g-index
60 all docs	60 docs citations	60 times ranked	77 citing authors

#	Article	IF	Citations
1	Simple analytical method for determining electrical resistivity and sheet resistance using the van der Pauw procedure. Scientific Reports, 2020, 10, 16379.	3.3	36
2	Galerkin and Least Squares Methods to Solve a 3D Convection–Diffusion–Reaction Equation with Variable Coefficients. Numerical Heat Transfer; Part A: Applications, 2012, 61, 669-698.	2.1	25
3	Application of the Galerkin and Least-Squares Finite Element Methods in the solution of 3D Poisson and Helmholtz equations. Computers and Mathematics With Applications, 2011, 62, 4288-4299.	2.7	13
4	Numerical Simulation of Convection-Diffusion Problems by the Control-Volume-Based Finite-Element Method. Numerical Heat Transfer; Part A: Applications, 2010, 57, 730-748.	2.1	9
5	A finite-difference method of high-order accuracy for the solution of transient nonlinear diffusive–convective problem in three dimensions. Case Studies in Thermal Engineering, 2014, 3, 43-50.	5.7	9
6	Numeric simulation of pollutant dispersion by a control-volume based on finite element method. International Journal for Numerical Methods in Fluids, 2011, 66, 1073-1092.	1.6	8
7	3D contaminant transport by GFEM with hexahedral elements. International Communications in Heat and Mass Transfer, 2013, 42, 43-50.	5.6	8
8	Analyzing 2D segment by Multiphysics in heat transfer and solid mechanics, pondering variables by Design of Experiment (DOE). Engineering Science and Technology, an International Journal, 2016, 19, 1929-1935.	3.2	5
9	Numerical Simulation of 1D Unsteady Heat Conduction-Convection in Spherical and Cylindrical Coordinates by Fourth-Order FDM. Engineering, Technology & Applied Science Research, 2018, 8, 2389-2392.	1.9	5
10	3D Unsteady Diffusion and Reaction-Diffusion with Singularities by GFEM with 27-Node Hexahedrons. Mathematical Problems in Engineering, 2014, 2014, 1-12.	1.1	4
11	An Efficient Technique of Linearization towards Fourth Order Finite Differences for Numerical Solution of the 1D Burgers Equation. Defect and Diffusion Forum, 2014, 348, 285-290.	0.4	4
12	Numerical simulation by finite difference method of 2D convection-diffusion in cylindrical coordinates. Applied Mathematical Sciences, 0, 9, 6157-6165.	0.1	4
13	Dispersion of toxic gases (CO and CO_2) by 2D numerical simulation. Ain Shams Engineering Journal, 2019, 10, 151-159.	6.1	4
14	Aprendizagem Baseada em Projetos no Ensino Médio: estudo comparativo entre métodos de ensino. Bolema - Mathematics Education Bulletin, 2020, 34, 764-785.	0.4	4
15	Numerical Simulation of a One-Dimentional Non-Linear Wave Equation. Engineering, Technology & Applied Science Research, 2022, 12, 8574-8577.	1.9	4
16	The Importance of Accurate Boundary Condition in Obtaining Reliable Shearing Stresses on a Torsional Finite Element Simulation. Engineering, Technology & Applied Science Research, 2022, 12, 8482-8487.	1.9	3
17	Utilizing Numerical Simulations to Analyze the Efficiency of a Porous Reactor. Engineering, Technology & Applied Science Research, 2022, 12, 8755-8759.	1.9	3
18	Numerical Simulation of Diffusive Processes in Heated Cylinder Using the Finite Volume and Finite Difference Methods. Defect and Diffusion Forum, 2012, 326-328, 542-546.	0.4	2

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19	Numerical Simulation by FDM of Unsteady Heat Transfer in Cylindrical Coordinates. Applied Mechanics and Materials, 0, 851, 322-325.	0.2	2
20	Studying Resonant Frequencies of a Helical Spring with and Without Axial Loads. Journal of Failure Analysis and Prevention, 2020, 20, 1301-1307.	0.9	2
21	Problem-Based Learning: A Tool for the Teaching of Definite Integral and the Calculation of Areas. International Journal of Information and Education Technology, 2019, 9, 589-593.	1.2	2
22	Case study of an evaluation of a Stacker Boom Luffing Pulley by Irwin's model and under BS 7910 guidance. International Journal of Mining and Mineral Engineering, 2011, 3, 267.	0.3	1
23	Interval study of convergence in the solution of 1D Burgers by least squares finite element method (LSFEM) + Newton linearization. Scientific Research and Essays, 2015, 10, 522-530.	0.4	1
24	Efficient Alternative for Construction of the Linear System Stemming from Numerical Solution of Heat Transfer Problems via FEM. Mathematical Problems in Engineering, 2016, 2016, 1-7.	1.1	1
25	Numerical Simulation by Galerkin Method of 2D Nonlinear Convection-Diffusion. International Journal of Mathematics Trends and Technology, 2017, 46, 43-49.	0.1	1
26	A study about one-dimensional steady state heat transfer in cylindrical and spherical coordinates. Applied Mathematical Sciences, 0, 7, 6227-6233.	0.1	1
27	An Unpretentious View of Technical Drawings â€“ Historic Evolution(Managerial Approach). Industrial Engineering & Management, 2013, 02, .	0.1	1
28	The Influence of Method and Environment in Torquing Screws Used in Bucket Wheel to Stacker-Reclaimer Machine. Journal of Failure Analysis and Prevention, 2012, 12, 382-390.	0.9	0
29	Poisson, Helmholtz and Convection 2D Unsteady Equations by Finite Difference Method of $O(Î"x^6)$. Defect and Diffusion Forum, 2013, 336, 83-90.	0.4	0
30	Numerical Analysis of Temperature Profiles in a Hollow Circular Cylinder by Alternative Direction Implicit Method. Defect and Diffusion Forum, 2013, 336, 73-82.	0.4	0
31	AN ALTERNATIVE AND SIMPLE MANNER TO CALCULATE THE THERMAL EFFICIENCY OF COMBUSTION ENGINES. Revista De Engenharia Térmica, 2014, 13, 87.	0.2	0
32	HIGH-ORDER FINITE DIFFERENCE METHOD APPLIED TO THE SOLUTION OF THE THREE-DIMENSIONAL HEAT TRANSFER EQUATION AND TO THE STUDY OF HEAT EXCHANGERS. Revista De Engenharia Térmica, 2014, 13, 67.	0.2	0
33	Numerical Investigation of the Viscous Dissipation Term on 2D Heat Transfer. Defect and Diffusion Forum, 0, 348, 279-284.	0.4	0
34	Catastrophic Results for Equipment and Machine Driving Systems when High Impact during Operation Occurs. Applied Mechanics and Materials, 0, 775, 329-333.	0.2	0
35	3D Unsteady Heat Transfer in Multi-Connected Domains via LSFEM: A Case Study. Applied Mechanics and Materials, 0, 775, 93-97.	0.2	0
36	3D Unsteady Convection-Diffusion-Reaction via GFEM Solver. Applied Mechanics and Materials, 0, 751, 313-318.	0.2	0

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37	3D Unsteady Convection Problems via LSFEM Solver. Applied Mechanics and Materials, 2015, 751, 319-324.	0.2	0
38	Efficiency of Solution Methods for Kepler's Equation. Applied Mechanics and Materials, 2016, 851, 587-592.	0.2	0
39	Dispersion of Pollutants in a River According to Its Geometry and Tributaries: A Case Study for River Paraiba do Sul—State of Sao Paulo, Brazil. Environmental Engineering Science, 2020, 37, 142-147.	1.6	0
40	Educommunication, Geography and Virtual Games: A Proposal to Encourage Scientific Literacy in Middle School. European Journal of Education and Pedagogy, 2021, 2, 67-72.	0.3	0
41	The use of Wittgenstein's language games to promote argumentation in children at the beginning of scientific literacy. International Journal for Innovation Education and Research, 2021, 9, 84-99.	0.1	0
42	HEAT TRANSFER IN MULTI-CONNECTED AND IRREGULAR DOMAINS WITH NON-UNIFORM MESHES. Revista De Engenharia Térmica, 2008, 7, 44.	0.2	0
43	Failure Analysis of a Set of Flapper Valves Under ALT With Alternative Test Device. Journal of Testing and Evaluation, 2013, 41, 324-331.	0.7	0
44	Study of some families of test functions via GFEM for the solution of one-dimensional convection-diffusion. Applied Mathematical Sciences, 0, 8, 6919-6926.	0.1	0
45	Linearization technique and its application to numerical solution of bidimensional nonlinear convection diffusion equation. Applied Mathematical Sciences, 0, 8, 743-750.	0.1	0
46	Two exact solutions of 3D nonlinear convection diffusion. Applied Mathematical Sciences, 0, 8, 751-754.	0.1	0
47	Studying 3D clutch segment by Multi physics in heat transfer and solid mechanics, pondering variables Statistically (DOE). SSRG International Journal of Engineering Trends and Technology, 2016, 38, 343-351.	0.5	0
48	A High-Order Finite-Difference Scheme with a Linearization Technique for Numerical Solution of Two Dimensional Burgers Equation. SSRG International Journal of Engineering Trends and Technology, 2016, 40, 306-312.	0.5	0
49	Numerical Simulation of 1D Heat Conduction in Spherical and Cylindrical Coordinates by Fourth-Order Finite Difference Method. International Journal of Mathematics Trends and Technology, 2017, 46, 125-128.	0.1	0
50	METODOLOGIA DE PROJETOS: ESTRATÉGIAS PARA O ENSINO DE MATEMÁTICA DO ENSINO FUNDAMENTAL II. Revista Dynamis, 2018, 24, 43.	0.0	0
51	Correção de distorções harmónicas em sistemas elétricos através de interferência destrutiva. Revista Brasileira De Ensino De Fisica, 2019, 41, .	0.2	0
52	Numerical Simulation by High-Order Explicit Finite Difference Method to Solve the Burgers Equation. International Journal of Applied Physics and Mathematics, 2019, 9, 135-143.	0.3	0
53	Difference of the Plastic Stress and Residual by Holloman and Hooke equation for two different steels. Holos, 0, 3, 1-7.	0.0	0
54	Analysis of the impact of plastic on the theme of Environmental Education for application in Brazilian public schools. International Journal for Innovation Education and Research, 2020, 8, 78-89.	0.1	0

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55	SUSTAINABILITY IN ELEMENTARY EDUCATION. International Journal for Innovation Education and Research, 2020, 8, 258-273.	0.1	0
56	Métodos Combinados: sala de aula invertida e peer instruction como facilitadores do ensino da matemática. Educação Matemática Em Revista, 0, , 153-168.	0.0	0
57	The Great Navigations and Digital Natives: Creation of a Hybrid Game as a Pedagogical Strategy for Teaching. Journal of Studies in Education, 2022, 12, 1.	0.2	0
58	O Erro no Processo de Ensino e Aprendizagem em Matemática:. TANGRAM - Revista De Educação Matemática, 2022, 5, 160-187.	0.0	0
59	Cryptography as an educational tool in counting techniques for high school. International Journal for Innovation Education and Research, 2022, 10, 76-88.	0.1	0