

# Addolorata Marasco

## List of Publications by Year in descending order

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72  
papers

771  
citations

623188

14  
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552369

26  
g-index

93  
all docs

93  
docs citations

93  
times ranked

757  
citing authors

#	ARTICLE	IF	CITATIONS
1	Olfactory Sensory Neurons to Odor Stimuli: Mathematical Modeling of the Response. , 2022, , 2521-2532.		0
2	Reduced Morphology Models. , 2022, , 3007-3018.		0
3	A critical overview of stationary solar models based on polytropic gases. International Journal of Geometric Methods in Modern Physics, 2020, 17, 2050084.	0.8	0
4	Modelling competitive interactions and plantâ€“soil feedback in vegetation dynamics. Ricerche Di Matematica, 2020, 69, 553-577.	0.6	20
5	An analytical solution of stationary hydrodynamic equations of a main-sequence star. International Journal of Geometric Methods in Modern Physics, 2019, 16, 1950120.	0.8	1
6	A mathematical approach to study and forecast racial groups interactions: deterministic modeling and scenario method. Quality and Quantity, 2018, 52, 1929-1956.	2.0	7
7	Deterministic modeling in scenario forecasting: estimating the effects of two public policies on intergenerational conflict. Quality and Quantity, 2018, 52, 2345-2371.	2.0	8
8	Tensor Algebra. Modeling and Simulation in Science, Engineering and Technology, 2018, , 17-29.	0.4	0
9	Classical Mechanics with MathematicaÂ®. Modeling and Simulation in Science, Engineering and Technology, 2018, , .	0.4	2
10	Inter-port interactions in the Le Havre-Hamburg range: A scenario analysis using a nonautonomous Lotka Volterra model. Journal of Transport Geography, 2018, 69, 207-220.	2.3	23
11	Lagrangian Dynamics. Modeling and Simulation in Science, Engineering and Technology, 2018, , 293-343.	0.4	0
12	An Overview of Dynamical Systems. Modeling and Simulation in Science, Engineering and Technology, 2018, , 137-160.	0.4	0
13	The Hamiltonâ€“Jacobi Theory. Modeling and Simulation in Science, Engineering and Technology, 2018, , 381-397.	0.4	0
14	Impulsive Dynamics. Modeling and Simulation in Science, Engineering and Technology, 2018, , 457-471.	0.4	0
15	An Introduction toÂ“Special Relativity. Modeling and Simulation in Science, Engineering and Technology, 2018, , 569-597.	0.4	0
16	Olfactory Sensory Neurons to Odor Stimuli: Mathematical Modeling of the Response. , 2018, , 1-12.		0
17	One-Dimensional Continuous Systems. Modeling and Simulation in Science, Engineering and Technology, 2018, , 539-567.	0.4	0
18	Principles of Dynamics. Modeling and Simulation in Science, Engineering and Technology, 2018, , 199-216.	0.4	0

#	ARTICLE	IF	CITATIONS
19	Dynamics of Rigid Body. Modeling and Simulation in Science, Engineering and Technology, 2018, , 267-291.	0.4	0
20	One-Parameter Groups of Diffeomorphisms. Modeling and Simulation in Science, Engineering and Technology, 2018, , 97-106.	0.4	0
21	Hamiltonian Dynamics. Modeling and Simulation in Science, Engineering and Technology, 2018, , 345-380.	0.4	0
22	Differentiable Manifolds. Modeling and Simulation in Science, Engineering and Technology, 2018, , 69-96.	0.4	0
23	Kinematics of Rigid Bodies. Modeling and Simulation in Science, Engineering and Technology, 2018, , 179-198.	0.4	0
24	Vector Space and Linear Maps. Modeling and Simulation in Science, Engineering and Technology, 2018, , 3-16.	0.4	0
25	Modeling eutrophic lakes: From mass balance laws to ordinary differential equations. International Journal of Geometric Methods in Modern Physics, 2017, 14, 1750151.	0.8	1
26	Glomerular and Mitral-Granule Cell Microcircuits Coordinate Temporal and Spatial Information Processing in the Olfactory Bulb. Frontiers in Computational Neuroscience, 2016, 10, 67.	1.2	14
27	Predicting the response of olfactory sensory neurons to odor mixtures from single odor response. Scientific Reports, 2016, 6, 24091.	1.6	11
28	Determining firms' utility functions and competitive roles from data on market shares using Lotka-Volterra models. Data in Brief, 2016, 7, 709-713.	0.5	7
29	Market share dynamics using Lotka-Volterra models. Technological Forecasting and Social Change, 2016, 105, 49-62.	6.2	56
30	Weathering of a Roman Mosaic: A Biological and Quantitative Study on In Vitro Colonization of Calcareous Tesserae by Phototrophic Microorganisms. PLoS ONE, 2016, 11, e0164487.	1.1	11
31	Synaptic clusters function as odor operators in the olfactory bulb. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8499-8504.	3.3	31
32	Vegetation Pattern Formation Due to Interactions Between Water Availability and Toxicity in Plant-Soil Feedback. Bulletin of Mathematical Biology, 2014, 76, 2866-2883.	0.9	51
33	Finite and Infinitesimal Deformations. Modeling and Simulation in Science, Engineering and Technology, 2014, , 83-113.	0.4	0
34	Fluid Dynamics and Meteorology. Modeling and Simulation in Science, Engineering and Technology, 2014, , 385-428.	0.4	0
35	Symmetry Groups: Solids and Fluids. Modeling and Simulation in Science, Engineering and Technology, 2014, , 179-196.	0.4	0
36	Reduced Morphology Models. , 2014, , 1-14.		0

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37	Wave fronts in second-order elasticity determined by perturbation method applied to the eikonal equation. <i>Continuum Mechanics and Thermodynamics</i> , 2013, 25, 229-242.	1.4	0
38	Water Limitation and Negative Plant-soil Feedback Explain Vegetation Patterns along Rainfall Gradient. <i>Procedia Environmental Sciences</i> , 2013, 19, 139-147.	1.3	7
39	Using Strahler's analysis to reduce up to 200-fold the run time of realistic neuron models. <i>Scientific Reports</i> , 2013, 3, 2934.	1.6	15
40	Fast and accurate low-dimensional reduction of biophysically detailed neuron models. <i>Scientific Reports</i> , 2012, 2, 928.	1.6	32
41	On the mechanisms underlying the depolarization block in the spiking dynamics of CA1 pyramidal neurons. <i>Journal of Computational Neuroscience</i> , 2012, 33, 207-225.	0.6	119
42	Negative plant soil feedback explaining ring formation in clonal plants. <i>Journal of Theoretical Biology</i> , 2012, 313, 153-161.	0.8	68
43	Approximate analytic solution of the Dirichlet problems for Laplace's equation in planar domains by a perturbation method. <i>Computers and Mathematics With Applications</i> , 2012, 63, 60-67.	1.4	3
44	A mathematical model for the management of a Service Center. <i>Mathematical and Computer Modelling</i> , 2011, 53, 2005-2014.	2.0	2
45	Continuum Mechanics. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2010, , .	0.4	38
46	Continuous System with a Nonmaterial Interface. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2010, , 91-111.	0.4	0
47	An Introduction to Mixture Theory. , 2010, , 149-170.		1
48	Continua with an Interface and Micromagnetism. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2010, , 225-255.	0.4	0
49	Introduction to Magnetofluid Dynamics. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2010, , 205-224.	0.4	0
50	Nonlinear Elasticity. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2010, , 1-66.	0.4	0
51	Electromagnetism in Matter. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2010, , 171-204.	0.4	0
52	Second-order effects on the wave propagation in elastic, isotropic, incompressible, and homogeneous media. <i>International Journal of Engineering Science</i> , 2009, 47, 499-511.	2.7	14
53	On the acceleration waves in second-order elastic, isotropic, compressible, and homogeneous materials. <i>Mathematical and Computer Modelling</i> , 2009, 49, 1504-1518.	2.0	11
54	On the first-order speeds in any directions of acceleration waves in prestressed second-order isotropic, compressible, and homogeneous materials. <i>Mathematical and Computer Modelling</i> , 2009, 49, 1644-1652.	2.0	9

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55	A numerical approach to nonlinear two-point boundary value problems for ODEs. Computers and Mathematics With Applications, 2008, 55, 2476-2489.	1.4	36
56	Maksutov's cameras and telescopes. International Journal of Engineering Science, 2007, 45, 34-40.	2.7	5
57	Periodic solutions of a 2D-autonomous system using Mathematica®. Mathematical and Computer Modelling, 2007, 45, 681-693.	2.0	5
58	Signorini's method for live loads and second-order effects. International Journal of Engineering Science, 2006, 44, 312-324.	2.7	7
59	Hoghton's camera and telescope. International Journal of Engineering Science, 2006, 44, 959-972.	2.7	2
60	Bifurcation analysis for a mean field modelling of tumor and immune system competition. Mathematical and Computer Modelling, 2003, 37, 1131-1142.	2.0	22
61	BALANCE LAWS IN CHARGED CONTINUOUS SYSTEMS WITH AN INTERFACE. Mathematical Models and Methods in Applied Sciences, 2002, 12, 77-88.	1.7	7
62	From the modelling of driver's behavior to hydrodynamic models and problems of traffic flow. Nonlinear Analysis: Real World Applications, 2002, 3, 339-363.	0.9	42
63	Nonlinear hydrodynamic models of traffic flow in the presence of tollgates. Mathematical and Computer Modelling, 2002, 35, 549-559.	2.0	7
64	The Lindstedt-Poincaré Method. Modeling and Simulation in Science, Engineering and Technology, 2001, , 177-200.	0.4	0
65	Bifurcation in ODEs. Modeling and Simulation in Science, Engineering and Technology, 2001, , 145-175.	0.4	0
66	Stability: The Critical Case. Modeling and Simulation in Science, Engineering and Technology, 2001, , 127-144.	0.4	0
67	Scientific Computing with Mathematica®. Modeling and Simulation in Science, Engineering and Technology, 2001, , .	0.4	33
68	Balance laws for continua with an interface deduced from multiphase continuous models with a transition layer. International Journal of Engineering Science, 2001, 39, 873-896.	2.7	6
69	Problems of Stability. Modeling and Simulation in Science, Engineering and Technology, 2001, , 99-125.	0.4	0
70	Poincaré's Perturbation Method. Modeling and Simulation in Science, Engineering and Technology, 2001, , 79-98.	0.4	0
71	Linear ODEs with Constant Coefficients. Modeling and Simulation in Science, Engineering and Technology, 2001, , 33-48.	0.4	0
72	Lindstedt-Poincaré method and mathematica applied to the motion of a solid with a fixed point. Computers and Mathematics With Applications, 2000, 40, 333-343.	1.4	29