

Luisa Fermo

List of Publications by Year in descending order

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31
papers

544
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933447

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docs citations

32
times ranked

325
citing authors

#	ARTICLE	IF	CITATIONS
1	Vehicular traffic, crowds, and swarms: From kinetic theory and multiscale methods to applications and research perspectives. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 1901-2005.	3.3	170
2	TOWARDS THE MODELING OF VEHICULAR TRAFFIC AS A COMPLEX SYSTEM: A KINETIC THEORY APPROACH. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012, 22, 1140003.	3.3	58
3	Heterogeneous distribution of mechanical stress in human lung: A mathematical approach to evaluate abnormal remodeling in IPF. <i>Journal of Theoretical Biology</i> , 2013, 332, 136-140.	1.7	51
4	A Fully-Discrete-State Kinetic Theory Approach to Modeling Vehicular Traffic. <i>SIAM Journal on Applied Mathematics</i> , 2013, 73, 1533-1556.	1.8	48
5	On a class of integro-differential equations modeling complex systems with nonlinear interactions. <i>Applied Mathematics Letters</i> , 2012, 25, 490-495.	2.7	33
6	A fully-discrete-state kinetic theory approach to traffic flow on road networks. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015, 25, 423-461.	3.3	28
7	Bifurcation diagrams for the moments of a kinetic type model of keloid immune system competition. <i>Computers and Mathematics With Applications</i> , 2011, 61, 277-288.	2.7	23
8	On the mathematical theory of living systems II: The interplay between mathematics and system biology. <i>Computers and Mathematics With Applications</i> , 2011, 62, 3902-3911.	2.7	20
9	Numerical methods for Fredholm integral equations with singular right-hand sides. <i>Advances in Computational Mathematics</i> , 2010, 33, 305-330.	1.6	11
10	A Nyström method for a boundary integral equation related to the Dirichlet problem on domains with corners. <i>Numerische Mathematik</i> , 2015, 130, 35-71.	1.9	11
11	Parameter estimation of monomial-exponential sums in one and two variables. <i>Applied Mathematics and Computation</i> , 2015, 258, 576-586.	2.2	9
12	Fundamental diagrams for kinetic equations of traffic flow. <i>Discrete and Continuous Dynamical Systems - Series S</i> , 2014, 7, 449-462.	1.1	9
13	Solution of second kind Fredholm integral equations by means of Gauss and anti-Gauss quadrature rules. <i>Numerische Mathematik</i> , 2020, 146, 699-728.	1.9	8
14	Scattering data computation for the Zakharov-Shabat system. <i>Calcolo</i> , 2016, 53, 487-520.	1.1	7
15	Recovering the electrical conductivity of the soil via a linear integral model. <i>Journal of Computational and Applied Mathematics</i> , 2019, 352, 132-145.	2.0	6
16	A numerical method to compute the scattering solution for the KdV equation. <i>Applied Numerical Mathematics</i> , 2020, 149, 3-16.	2.1	6
17	Weakly singular linear Volterra integral equations: A Nyström method in weighted spaces of continuous functions. <i>Journal of Computational and Applied Mathematics</i> , 2022, 406, 114001.	2.0	6
18	A Nyström method for Fredholm integral equations with right-hand sides having isolated singularities. <i>Calcolo</i> , 2009, 46, 61-93.	1.1	5

#	ARTICLE	IF	CITATIONS
19	A Nyström method for a class of Fredholm integral equations of the third kind on unbounded domains. Applied Numerical Mathematics, 2009, 59, 2970-2989.	2.1	5
20	Volterra integral equations with highly oscillatory kernels: a new numerical method with applications. Electronic Transactions on Numerical Analysis, 0, 54, 333-354.	0.0	5
21	On the numerical solution of a boundary integral equation for the exterior Neumann problem on domains with corners. Applied Numerical Mathematics, 2015, 94, 179-200.	2.1	4
22	Numerical treatment of the generalized Love integral equation. Numerical Algorithms, 2021, 86, 1769-1789.	1.9	4
23	Regularized minimal-norm solution of an overdetermined system of first kind integral equations. Numerical Algorithms, 2023, 92, 471-502.	1.9	4
24	Assessment of surgical strategies for addressing keloids: An optimization problem. Computers and Mathematics With Applications, 2011, 62, 2417-2423.	2.7	3
25	A Nyström method for mixed boundary value problems in domains with corners. Applied Numerical Mathematics, 2020, 149, 65-82.	2.1	3
26	Emerging problems in approximation theory for the numerical solution of the nonlinear Schrödinger equation. Publications De L'Institut Mathematique, 2014, 96, 125-141.	0.2	3
27	Minimal-norm RKHS solution of an integral model in geo-electromagnetism. , 2021, , .		3
28	Numerical Methods for Cauchy Bisingular Integral Equations of the First Kind on the Square. Journal of Scientific Computing, 2019, 79, 103-127.	2.3	1
29	A Regularizing Parameter for Some Fredholm Integral Equations. Computational Methods in Applied Mathematics, 2010, 10, 177-194.	0.8	0
30	Numerical solution of the direct scattering problem for the nonlinear Schrödinger equation. , 2015, , .		0
31	Scattering data computation for the Zakharov-Shabat system with non-smooth potentials. Applied Numerical Mathematics, 2017, 116, 195-203.	2.1	0