Francesco Gargano

List of Publications by Year
in descending order

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Version: 2024-02-01

48	527	623574	677027
papers	citations	14 h-index	22 g-index

51	51	51	288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A phenomenological operator description of dynamics of crowds: Escape strategies. Applied Mathematical Modelling, 2015, 39, 2276-2294.	2.2	45
2	(H, Ï)-induced dynamics and the quantum game of life. Applied Mathematical Modelling, 2017, 43, 15-32.	2.2	42
3	Singularity formation for Prandtlâ€™s equations. Physica D: Nonlinear Phenomena, 2009, 238, 1975-1991.	1.3	38
4	Demyelination patterns in a mathematical model of multiple sclerosis. Journal of Mathematical Biology, 2017, 75, 373-417.	0.8	36
5	Modeling interactions between political parties and electors. Physica A: Statistical Mechanics and Its Applications, 2017, 481, 243-264.	1.2	27
6	Non-Hermitian Operator Modelling of Basic Cancer Cell Dynamics. Entropy, 2018, 20, 270.	1.1	27
7	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" id="mml48" display="inline" overflow="scroll" altimg="si48.gif"><mml:mrow><mml:mo>(</mml:mo><mml:mi>H</mml:mi><mml:mo>,</mml:mo><mml:mi>Ï</mml:mi><mml:mo>)</mml:mo></mml:mrow></mml:math>-induced dynamics and large time behaviors. Physica A: Statistical Mechanics and Its Applications, 2018, 505, 355-373.	1.2	26
8	Analysis of complex singularities in high-Reynolds-number Navierâ€“Stokes solutions. Journal of Fluid Mechanics, 2014, 747, 381-421.	1.4	25
9	Large-scale effects of migration and conflict in pre-agricultural groups: Insights from a dynamic model. PLoS ONE, 2017, 12, e0172262.	1.1	24
10	Exploring connectivity between spawning and nursery areas of Mullus barbatus (L., 1758) in the Mediterranean through a dispersal model. Fisheries Oceanography, 2017, 26, 476-497.	0.9	22
11	Model pseudofermionic systems: Connections with exceptional points. Physical Review A, 2014, 89, .	1.0	21
12	High Reynolds number Navierâ€“Stokes solutions and boundary layer separation induced by a rectilinear vortex. Computers and Fluids, 2011, 52, 73-91.	1.3	20
13	Analytic Solutions and Singularity Formation for the Peakon b-Family Equations. Acta Applicandae Mathematicae, 2012, 122, 419.	0.5	15
14	A no-go result for the quantum damped harmonic oscillator. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 2836-2838.	0.9	14
15	? $mathcal {D}$ -Deformed Harmonic Oscillators. International Journal of Theoretical Physics, 2015, 54, 4110-4123.	0.5	12
16	Spreading of Competing Information in a Network. Entropy, 2020, 22, 1169.	1.1	12
17	Coordinate representation for non-Hermitian position and momentum operators. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2017, 473, 20170434.	1.0	11
18	Bi-squeezed states arising from pseudo-bosons. Journal of Physics A: Mathematical and Theoretical, 2018, 51, 455204.	0.7	10

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19	Predictive distribution models of European hake in the south-central Mediterranean Sea. Hydrobiologia, 2018, 821, 153-172.	1.0	10
20	Route to chaos in the weakly stratified Kolmogorov flow. Physics of Fluids, 2019, 31, .	1.6	9
21	Axisymmetric solutions for a chemotaxis model of Multiple Sclerosis. Ricerche Di Matematica, 2019, 68, 281-294.	0.6	8
22	Wavefront invasion for a chemotaxis model of Multiple Sclerosis. Ricerche Di Matematica, 2016, 65, 423-434.	0.6	6
23	Regularized Euler- $$alpha $$ Î± motion of an infinite array of vortex sheets. Bolletino Dell Unione Matematica Italiana, 2017, 10, 113-141.	0.6	6
24	Some remarks on few recent results on the damped quantum harmonic oscillator. Annals of Physics, 2020, 414, 168091.	1.0	6
25	Dynamics of Confined Crowd Modelled Using Fermionic Operators. International Journal of Theoretical Physics, 2014, 53, 2727-2738.	0.5	5
26	Complex singularities in KdV solutions. Ricerche Di Matematica, 2016, 65, 479-490.	0.6	5
27	Quantum mechanical settings inspired by RLC circuits. Journal of Mathematical Physics, 2018, 59, 042112.	0.5	5
28	Tridiagonality, supersymmetry and non self-adjoint Hamiltonians. Journal of Physics A: Mathematical and Theoretical, 2019, 52, 355203.	0.7	5
29	Population dynamics based on ladder bosonic operators. Applied Mathematical Modelling, 2021, 96, 39-52.	2.2	5
30	Singularity formation and separation phenomena in boundary layer theory. , 2009, , 81-120.		4
31	A computational method for the Helmholtz equation in unbounded domains based on the minimization of an integral functional. Journal of Computational Physics, 2013, 246, 78-95.	1.9	4
32	Viscous-Inviscid Interactions in a Boundary-Layer Flow Induced by a Vortex Array. Acta Applicandae Mathematicae, 2014, 132, 295-305.	0.5	4
33	Projector operators in clustering. Mathematical Methods in the Applied Sciences, 2017, 40, 49-59.	1.2	4
34	Modeling epidemics through ladder operators. Chaos, Solitons and Fractals, 2020, 140, 110193.	2.5	3
35	A spectral approach to a constrained optimization problem for the Helmholtz equation in unbounded domains. Computational and Applied Mathematics, 2015, 34, 1035-1055.	1.3	2
36	Eigenvalues of nonâ€Hermitian matrices: A dynamical and an iterative approachâ€"Application to a truncated Swanson model. Mathematical Methods in the Applied Sciences, 2020, 43, 5758-5775.	1.2	2

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37	Up-wind difference approximation and singularity formation for a slow erosion model. ESAIM: Mathematical Modelling and Numerical Analysis, 2020, 54, 465-492.	0.8	2
38	Complex singularity analysis for vortex layer flows. Journal of Fluid Mechanics, 2022, 932, .	1.4	2
39	Bi-coherent states as generalized eigenstates of the position and the momentum operators. Zeitschrift Fur Angewandte Mathematik Und Physik, 2022, 73, .	0.7	2
40	Where do recruits come from? Backward Lagrangian simulation for the deep water rose shrimps in the Central Mediterranean Sea. Fisheries Oceanography, 2022, 31, 369-383.	0.9	1
41	Quantum Ideas for Classical Systems. Acta Applicandae Mathematicae, 2014, 132, 27-39.	0.5	0
42	Exceptional Points in a Non-Hermitian Extension of the Jaynes-Cummings Hamiltonian. Springer Proceedings in Physics, 2016, , 83-95.	0.1	0
43	Singular behavior of a vortex layer in the zero thickness limit. Atti Della Accademia Nazionale Dei Lincei, Classe Di Scienze Fisiche, Matematiche E Naturali, Rendiconti Lincei Matematica E Applicazioni, 2017, 28, 553-572.	0.3	0
44	Numerical study of the primitive equations in the small viscosity regime. Ricerche Di Matematica, 2019, 68, 383-397.	0.6	0
45	HIGH REYNOLDS NUMBER NAVIERâ€“STOKES SOLUTIONS AND BOUNDARY LAYER SEPARATION INDUCED BY A RECTILINEAR VORTEX ARRAY. , 2008, , .		0
46	UNSTEADY SEPARATION FOR HIGH REYNOLDS NUMBERS NAVIER-STOKES SOLUTIONS. , 2010, , .		0
47	10.1063/1.5081105.3. , 2019, , .		0
48	10.1063/1.5081105.2. , 2019, , .		0