

# Giuseppe Pontrelli

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

1,980  
citations

279701

23  
h-index

265120

42  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2726  
citing authors

#	ARTICLE	IF	CITATIONS
1	Diagnosis of COVID-19 in children guided by lack of fever and exposure to SARS-CoV-2. <i>Pediatric Research</i> , 2022, 91, 1196-1202.	1.1	9
2	Acute Exposure to European Viper Bite in Children: Advocating for a Pediatric Approach. <i>Toxins</i> , 2021, 13, 330.	1.5	6
3	The Investigational Clinical Center: a clinical-supportive and patient-centered trial unit model. Ten years of experience through normal and pandemic times of a large pediatric trial center in Italy. <i>Italian Journal of Pediatrics</i> , 2021, 47, 156.	1.0	0
4	Biomimetic Nanotherapies: Red Blood Cell Based Core-Shell Structured Nanocomplexes for Atherosclerosis Management. <i>Advanced Science</i> , 2019, 6, 1900172.	5.6	194
5	Combining mathematical modelling with in vitro experiments to predict in vivo drug-eluting stent performance. <i>Journal of Controlled Release</i> , 2019, 303, 151-161.	4.8	28
6	Missed opportunities to prevent mother-to-child transmission of HIV in Italy. <i>HIV Medicine</i> , 2019, 20, 330-336.	1.0	7
7	Modelling mass diffusion for a multi-layer sphere immersed in a semi-infinite medium: application to drug delivery. <i>Mathematical Biosciences</i> , 2018, 303, 1-9.	0.9	28
8	Mechanistic modelling of drug release from multi-layer capsules. <i>Computers in Biology and Medicine</i> , 2018, 93, 149-157.	3.9	41
9	Entropic lattice Boltzmann model for charged leaky dielectric multiphase fluids in electrified jets. <i>Physical Review E</i> , 2018, 97, 033308.	0.8	19
10	Effect of flow on ATP/ADP concentration at the endothelial cell surface: interplay between shear stress and mass transport. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018, 98, 2222-2222.	0.9	1
11	Effect of flow on ATP/ADP concentration at the endothelial cell surface: interplay between shear stress and mass transport. <i>ZAMM Zeitschrift Fur Angewandte Mathematik Und Mechanik</i> , 2018, 98, 1493-1502.	0.9	2
12	Design and testing of hydrophobic core/hydrophilic shell nano/micro particles for drug-eluting stent coating. <i>NPG Asia Materials</i> , 2018, 10, 642-658.	3.8	40
13	The Choice of a Performance Indicator of Release in Transdermal Drug Delivery Systems. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018, , 49-64.	2.0	0
14	Mathematical modelling of variable porosity coatings for controlled drug release. <i>Medical Engineering and Physics</i> , 2017, 45, 51-60.	0.8	14
15	Accuracy of serum procalcitonin for the diagnosis of sepsis in neonates and children with systemic inflammatory syndrome: a meta-analysis. <i>BMC Infectious Diseases</i> , 2017, 17, 302.	1.3	84
16	A discrete in continuous mathematical model of cardiac progenitor cells formation and growth as spheroid clusters (Cardiospheres). <i>Mathematical Medicine and Biology</i> , 2017, 35, dqw022.	0.8	8
17	A chemo-mechano-biological formulation for the effects of biochemical alterations on arterial mechanics: the role of molecular transport and multiscale tissue remodelling. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170615.	1.5	23
18	Dynamic mesh refinement for discrete models of jet electro-hydrodynamics. <i>Journal of Computational Science</i> , 2016, 17, 325-333.	1.5	12

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19	Diagnostic value of soluble triggering receptor expressed on myeloid cells in paediatric sepsis: a systematic review. <i>Italian Journal of Pediatrics</i> , 2016, 42, 44.	1.0	21
20	On the role of specific drug binding in modelling arterial eluting stents. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 967-976.	0.7	40
21	The use of actigraphy in the monitoring of sleep and activity in ADHD: A meta-analysis. <i>Sleep Medicine Reviews</i> , 2016, 26, 9-20.	3.8	91
22	Transdermal Drug Delivery and Percutaneous Absorption. , 2015, , 273-304.		5
23	Nonlinear Langevin model for the early-stage dynamics of electrospinning jets. <i>Molecular Physics</i> , 2015, 113, 2435-2441.	0.8	9
24	Modelling the glycocalyx-endothelium-erythrocyte interaction in the microcirculation: a computational study. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 351-361.	0.9	15
25	A general model of coupled drug release and tissue absorption for drug delivery devices. <i>Journal of Controlled Release</i> , 2015, 217, 327-336.	4.8	80
26	JETSPIN: A specific-purpose open-source software for simulations of nanofiber electrospinning. <i>Computer Physics Communications</i> , 2015, 197, 227-238.	3.0	19
27	Different regimes of the uniaxial elongation of electrically charged viscoelastic jets due to dissipative air drag. <i>Mechanics Research Communications</i> , 2015, 69, 97-102.	1.0	11
28	Serum Soluble ST2 as Diagnostic Marker of Systemic Inflammatory Reactive Syndrome of Bacterial Etiology in Children. <i>Pediatric Infectious Disease Journal</i> , 2014, 33, 199-203.	1.1	10
29	Ultrathin Fibers from Electrospinning Experiments under Driven Fast-Oscillating Perturbations. <i>Physical Review Applied</i> , 2014, 2, .	1.5	10
30	Epidemiology and Clinical Outcomes of Multidrug-resistant, Gram-negative Bloodstream Infections in a European Tertiary Pediatric Hospital During a 12-month Period. <i>Pediatric Infectious Disease Journal</i> , 2014, 33, 929-932.	1.1	66
31	A two-phase two-layer model for transdermal drug delivery and percutaneous absorption. <i>Mathematical Biosciences</i> , 2014, 257, 96-103.	0.9	41
32	Mathematical methods and models in system biomedicine. <i>Mathematical Biosciences</i> , 2014, 257, 1.	0.9	0
33	Effects of non-linear rheology on electrospinning process: A model study. <i>Mechanics Research Communications</i> , 2014, 61, 41-46.	1.0	18
34	Lattice Boltzmann method as a computational framework for multiscale haemodynamics. <i>Mathematical and Computer Modelling of Dynamical Systems</i> , 2014, 20, 470-490.	1.4	12
35	The second generation of HIV-1 vertically exposed infants: a case series from the Italian Register for paediatric HIV infection. <i>BMC Infectious Diseases</i> , 2014, 14, 277.	1.3	16
36	Local mass non-equilibrium dynamics in multi-layered porous media: application to the drug-eluting stent. <i>International Journal of Heat and Mass Transfer</i> , 2013, 66, 844-854.	2.5	18

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37	Drug Release in Biological Tissues. , 2013, , 59-118.		2
38	Nocturnal hypoglycaemia in <scp>ACTH</scp> and <scp>GH</scp> deficient children: role of continuous glucose monitoring. Clinical Endocrinology, 2013, 79, 232-237.	1.2	19
39	Soluble ligands for the NKG2D receptor are released during HIV&#x2011; infection and impair NKG2D expression and cytotoxicity of NK cells. FASEB Journal, 2013, 27, 2440-2450.	0.2	75
40	Raising Awareness of Non-Hodgkin Lymphoma in HIV-infected Adolescents. Journal of Pediatric Hematology/Oncology, 2013, 35, e134-e137.	0.3	4
41	Paediatric HIV Infection in Western Africa: The Long Way to the Standard of Care. Journal of Tropical Pediatrics, 2012, 58, 451-456.	0.7	2
42	A survey on hematology-oncology pediatric AIEOP centers: prophylaxis, empirical therapy and nursing prevention procedures of infectious complications. Haematologica, 2012, 97, 147-150.	1.7	19
43	EPI-743 reverses the progression of the pediatric mitochondrial disease&#x2011;Genetically defined Leigh Syndrome. Molecular Genetics and Metabolism, 2012, 107, 383-388.	0.5	163
44	An atypical case of multifocal infantile haemangioma in a child after Highly Active Antiretroviral Therapy (HAART) during pregnancy. Clinical Neurology and Neurosurgery, 2012, 114, 1161-1163.	0.6	1
45	Safety and immunogenicity of a monovalent MF59&#x2011;adjuvanted A/H1N1 vaccine in HIV-infected children and young adults. Biologicals, 2012, 40, 134-139.	0.5	18
46	Renal function in HIV-infected children and adolescents treated with tenofovir disoproxil fumarate and protease inhibitors. BMC Infectious Diseases, 2012, 12, 18.	1.3	30
47	The PEDVAC trial: Preliminary data from the first therapeutic DNA vaccination in HIV-infected children. Vaccine, 2011, 29, 6810-6816.	1.7	12
48	First-line antiretroviral therapy with a protease inhibitor versus non-nucleoside reverse transcriptase inhibitor and switch at higher versus low viral load in HIV-infected children: an open-label, randomised phase 2/3 trial. Lancet Infectious Diseases, The, 2011, 11, 273-283.	4.6	123
49	Modelling wall shear stress in small arteries using the Lattice Boltzmann method: influence of the endothelial wall profile. Medical Engineering and Physics, 2011, 33, 832-839.	0.8	14
50	Immunogenicity and safety profile of the monovalent A/H1N1 MF59-adjuvanted vaccine in patients affected by cystic fibrosis. Thorax, 2011, 66, 259-260.	2.7	13
51	HIV is associated with thrombophilia and high D-dimer in children and adolescents. Aids, 2010, 24, 1145-1151.	1.0	17
52	A multi-layer porous wall model for coronary drug-eluting stents. International Journal of Heat and Mass Transfer, 2010, 53, 3629-3637.	2.5	77
53	Burkitt's lymphoma mimicking EBV disease as first sign of vertical HIV infection in an adolescent. Italian Journal of Pediatrics, 2010, 36, 34.	1.0	0
54	Novel design of drug delivery in stented arteries: A numerical comparative study. Mathematical Biosciences and Engineering, 2009, 6, 493-508.	1.0	27

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55	Modeling of Mass Dynamics in Arterial Drug-Eluting Stents. <i>Journal of Porous Media</i> , 2009, 12, 19-28.	1.0	34
56	Epidemiological and virological characterization of a large community-wide outbreak of hepatitis A in southern Italy. <i>Epidemiology and Infection</i> , 2008, 136, 1027-1034.	1.0	40
57	Concentration wave of a solute in an artery: the influence of curvature. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2007, 10, 129-136.	0.9	2
58	Mass diffusion through two-layer porous media: an application to the drug-eluting stent. <i>International Journal of Heat and Mass Transfer</i> , 2007, 50, 3658-3669.	2.5	99
59	Wave propagation in a fluid flowing through a curved thin-walled elastic tube. <i>European Journal of Mechanics, B/Fluids</i> , 2006, 25, 987-1007.	1.2	7
60	The role of the arterial prestress in blood flow dynamics. <i>Medical Engineering and Physics</i> , 2006, 28, 6-12.	0.8	5
61	Legionnaires' disease outbreak in Rome, Italy. <i>Epidemiology and Infection</i> , 2005, 133, 853-859.	1.0	22
62	A one-dimensional model for blood flow in prestressed vessels. <i>European Journal of Mechanics, A/Solids</i> , 2005, 24, 23-33.	2.1	11
63	A Multiscale Approach for Modelling Wave Propagation in an Arterial Segment. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2004, 7, 79-89.	0.9	21
64	Numerical modelling of the pressure wave propagation in the arterial flow. <i>International Journal for Numerical Methods in Fluids</i> , 2003, 43, 651-671.	0.9	37
65	Nonlinear problems in arterial flows. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 2001, 47, 4905-4915.	0.6	6
66	BLOOD FLOW THROUGH A CIRCULAR PIPE WITH AN IMPULSIVE PRESSURE GRADIENT. <i>Mathematical Models and Methods in Applied Sciences</i> , 2000, 10, 187-202.	1.7	32
67	Spline approximation of advection-diffusion problems using upwind type collocation nodes. <i>Journal of Computational and Applied Mathematics</i> , 1999, 110, 141-153.	1.1	11
68	Pulsatile blood flow in a pipe. <i>Computers and Fluids</i> , 1998, 27, 367-380.	1.3	36
69	Mathematical modelling for viscoelastic fluids. <i>Nonlinear Analysis: Theory, Methods &amp; Applications</i> , 1997, 30, 349-357.	0.6	1