

Sebastian Acosta

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

810
citations

840119

11
h-index

552369

26
g-index

53
all docs

53
docs citations

53
times ranked

1366
citing authors

#	ARTICLE	IF	CITATIONS
1	Multisystem inflammatory syndrome in children: A systematic review. <i>EClinicalMedicine</i> , 2020, 26, 100527.	3.2	411
2	Prediction of imminent, severe deterioration of children with parallel circulations using real-time processing of physiologic data. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 152, 171-177.	0.4	61
3	Automated Prediction of Cardiorespiratory Deterioration in Patients With Single Ventricle. <i>Journal of the American College of Cardiology</i> , 2021, 77, 3184-3192.	1.2	25
4	Numerical method of characteristics for one-dimensional blood flow. <i>Journal of Computational Physics</i> , 2015, 294, 96-109.	1.9	24
5	Multiwave imaging in an enclosure with variable wave speed. <i>Inverse Problems</i> , 2015, 31, 065009.	1.0	22
6	Coupling of Dirichlet-to-Neumann boundary condition and finite difference methods in curvilinear coordinates for multiple scattering. <i>Journal of Computational Physics</i> , 2010, 229, 5498-5517.	1.9	21
7	On-surface radiation condition for multiple scattering of waves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2015, 283, 1296-1309.	3.4	19
8	High order local absorbing boundary conditions for acoustic waves in terms of farfield expansions. <i>Journal of Computational Physics</i> , 2017, 333, 331-351.	1.9	17
9	Cardiovascular mechanics in the early stages of pulmonary hypertension: a computational study. <i>Biomechanics and Modeling in Mechanobiology</i> , 2017, 16, 2093-2112.	1.4	17
10	Hypotensive Response to IV Acetaminophen in Pediatric Cardiac Patients*. <i>Pediatric Critical Care Medicine</i> , 2019, 20, 527-533.	0.2	15
11	Thermoacoustic tomography for an integro-differential wave equation modeling attenuation. <i>Journal of Differential Equations</i> , 2018, 264, 1984-2010.	1.1	14
12	Generation of smooth grids with line control for scattering from multiple obstacles. <i>Mathematics and Computers in Simulation</i> , 2009, 79, 2506-2520.	2.4	12
13	A computational study of the Fontan circulation with fenestration or hepatic vein exclusion. <i>Computers in Biology and Medicine</i> , 2017, 89, 405-418.	3.9	11
14	High order surface radiation conditions for time-harmonic waves in exterior domains. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017, 322, 296-310.	3.4	9
15	Epinephrine syringe exchange events in a paediatric cardiovascular ICU: analysing the storm. <i>Cardiology in the Young</i> , 2018, 28, 409-415.	0.4	9
16	The DtN nonreflecting boundary condition for multiple scattering problems in the half-plane. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012, 217-220, 1-11.	3.4	8
17	Nonlinear Ultrasound Imaging Modeled by a Westervelt Equation. <i>SIAM Journal on Applied Mathematics</i> , 2022, 82, 408-426.	0.8	8
18	An effective model of blood flow in capillary beds. <i>Microvascular Research</i> , 2015, 100, 40-47.	1.1	7

#	ARTICLE	IF	CITATIONS
19	RBC Transfusion Induced ST Segment Variability Following the Norwood Procedure. , 2021, 3, e0417.		7
20	Finite difference on grids with nearly uniform cell area and line spacing for the wave equation on complex domains. Journal of Computational and Applied Mathematics, 2010, 234, 1970-1979.	1.1	6
21	Time reversal for radiative transport with applications to inverse and control problems. Inverse Problems, 2013, 29, 085014.	1.0	6
22	Photoacoustic imaging taking into account thermodynamic attenuation. Inverse Problems, 2016, 32, 115001.	1.0	6
23	Solvability for Photoacoustic Imaging With Idealized Piezoelectric Sensors. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2020, 67, 2413-2422.	1.7	6
24	Impact of Medical Interventions and Comorbidities on Norwood Admission for Patients with Hypoplastic Left Heart Syndrome. Pediatric Cardiology, 2022, 43, 267-278.	0.6	6
25	An effective model of cerebrovascular pressure reactivity and blood flow autoregulation. Microvascular Research, 2018, 115, 34-43.	1.1	5
26	Creatinine filtration kinetics in critically ill neonates. Pediatric Research, 2021, 89, 952-957.	1.1	5
27	Hemodynamic Response to Calcium Chloride Boluses in Single-Ventricle Patients with Parallel Circulation. Pediatric Cardiology, 2022, 43, 554-560.	0.6	5
28	Comparison of Laboratory and Hemodynamic Time Series Data Across Original, Alpha, and Delta Variants in Patients With Multisystem Inflammatory Syndrome in Children. Pediatric Critical Care Medicine, 2022, 23, e372-e381.	0.2	5
29	Observed and calculated cerebral critical closing pressure are highly correlated in preterm infants. Pediatric Research, 2019, 86, 242-246.	1.1	4
30	A weight-adjusted discontinuous Galerkin method for wave propagation in coupled elastic-acoustic media. Journal of Computational Physics, 2020, 418, 109632.	1.9	4
31	A robust Fourier-based method to measure pulse pressure variability. Biomedical Signal Processing and Control, 2020, 60, 101947.	3.5	4
32	Social and Demographic Disparities in the Severity of Multisystem Inflammatory Syndrome in Children. Pediatric Infectious Disease Journal, 2022, 41, e256-e258.	1.1	4
33	Recovery of pressure and wave speed for photoacoustic imaging under a condition of relative uncertainty. Inverse Problems, 2019, 35, 115013.	1.0	3
34	High order methods for acoustic scattering: Coupling farfield expansions ABC with deferred-correction methods. Wave Motion, 2020, 95, 102529.	1.0	3
35	A control approach to recover the wave speed (conformal factor) from one measurement. Inverse Problems and Imaging, 2015, 9, 301-315.	0.6	3
36	Quantification of electrocardiogram instability prior to cardiac arrest in patients with single-ventricle physiology. Journal of Electrocardiology, 2022, 73, 29-33.	0.4	3

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37	Quantum fluctuations in the dressed vacuum of a bosonic model system. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2012, 45, 275303.	0.7	2
38	Source estimation with incoherent waves in random waveguides. <i>Inverse Problems</i> , 2015, 31, 035013.	1.0	2
39	Well-Posedness for Photoacoustic Tomography with Fabry–Perot Sensors. <i>SIAM Journal on Imaging Sciences</i> , 2019, 12, 1669-1685.	1.3	2
40	Local on-surface radiation condition for multiple scattering of waves from convex obstacles. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 378, 113697.	3.4	2
41	Recovery of the absorption coefficient in radiative transport from a single measurement. <i>Inverse Problems and Imaging</i> , 2015, 9, 289-300.	0.6	2
42	High order local farfield expansions absorbing boundary conditions for multiple scattering. <i>Journal of Computational Physics</i> , 2022, 460, 111187.	1.9	2
43	Physiologic profile associated with severe multisystem inflammatory syndrome in children: a retrospective study. <i>Pediatric Research</i> , 2023, 93, 102-109.	1.1	2
44	Hemodynamic Response to Fluid Boluses in Patients with Single-Ventricle Parallel Circulation. <i>Pediatric Cardiology</i> , 2022, 43, 1784-1791.	0.6	1
45	55: HEMODYNAMIC RESPONSE TO IV ACETAMINOPHEN IN PEDIATRIC CARDIAC PATIENTS. <i>Critical Care Medicine</i> , 2018, 46, 28-28.	0.4	0
46	The authors reply. <i>Pediatric Critical Care Medicine</i> , 2019, 20, 1004-1005.	0.2	0
47	Critical Closing Pressure by Diffuse Correlation Spectroscopy in a Neonatal Piglet Model. <i>Acta Neurochirurgica Supplementum</i> , 2021, 131, 295-299.	0.5	0
48	Novel Method of Calculating Pulse Pressure Variation to Predict Fluid Responsiveness to Transfusion in Very Low Birth Weight Infants. <i>Journal of Pediatrics</i> , 2021, 234, 265-268.e1.	0.9	0
49	Numerical Wave Scattering Taking Account of Energy Dissipation and Media Stiffness as Modeled by the Telegraph Equation. <i>SIAM Undergraduate Research Online</i> , 2008, 1, 100-119.	0.2	0
50	Abstract 16847: Comparison of Urine Output and Creatinine as Markers for Severe Acute Kidney Injury in the Immediate Post-Operative Period After Pediatric Heart Transplant. <i>Circulation</i> , 2020, 142, .	1.6	0
51	Postoperative physiological parameters associated with severe acute kidney injury after pediatric heart transplant. <i>Pediatric Transplantation</i> , 2022, , e14267.	0.5	0
52	Abstract 13443: Multi-Center Independent Validation of an Automated Algorithm for Predicting Cardiorespiratory Deterioration Events in Single Ventricle Patients. <i>Circulation</i> , 2021, 144, .	1.6	0