

# Alain BeuchÃ©e

## List of Publications by Year in descending order

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71  
papers

1,928  
citations

394421

19  
h-index

276875

41  
g-index

81  
all docs

81  
docs citations

81  
times ranked

2217  
citing authors

#	ARTICLE	IF	CITATIONS
1	Survival and Morbidity of Preterm Children Born at 22 Through 34 Weeks <sup>â</sup> ™ Gestation in France in 2011. <i>JAMA Pediatrics</i> , 2015, 169, 230.	6.2	576
2	Effect of early low-dose hydrocortisone on survival without bronchopulmonary dysplasia in extremely preterm infants (PREMILOC): a double-blind, placebo-controlled, multicentre, randomised trial. <i>Lancet, The</i> , 2016, 387, 1827-1836.	13.7	261
3	Outbreak of <i>Serratia marcescens</i> in a neonatal intensive care unit: contaminated unmedicated liquid soap and risk factors. <i>Journal of Hospital Infection</i> , 2009, 72, 17-22.	2.9	71
4	Left ventricle output and mean arterial blood pressure in preterm infants during the 1st day of life. <i>European Journal of Pediatrics</i> , 1999, 158, 817-824.	2.7	68
5	Congenital diaphragmatic hernia: prenatal diagnosis permits immediate intensive care with high survival rate in isolated cases. A population <sup>â</sup> based study. <i>Prenatal Diagnosis</i> , 2004, 24, 487-493.	2.3	51
6	Benefits of a New Pediatric Triple <sup>â</sup> Chamber Bag for Parenteral Nutrition in Preterm Infants. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2012, 54, 210-217.	1.8	41
7	Perinatal management and outcome of prenatally diagnosed congenital diaphragmatic hernia: a 1995 <sup>â</sup> 2000 series in Rennes University Hospital. <i>Prenatal Diagnosis</i> , 2002, 22, 988-994.	2.3	39
8	Hand washing soap as a source of neonatal <i>Serratia marcescens</i> outbreak. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2008, 97, 1381-1385.	1.5	37
9	Effect of Atropine With Propofol vs Atropine With Atracurium and Sufentanil on Oxygen Desaturation in Neonates Requiring Nonemergency Intubation. <i>JAMA - Journal of the American Medical Association</i> , 2018, 319, 1790.	7.4	35
10	Uncorrelated Randomness of the Heart Rate Is Associated with Sepsis in Sick Premature Infants. <i>Neonatology</i> , 2009, 96, 109-114.	2.0	34
11	Early MRI in neonatal hypoxic-ischaemic encephalopathy treated with hypothermia: Prognostic role at 2-year follow-up. <i>European Journal of Radiology</i> , 2016, 85, 1366-1374.	2.6	34
12	Early Detection of Late Onset Sepsis in Premature Infants Using Visibility Graph Analysis of Heart Rate Variability. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2021, 25, 1006-1017.	6.3	32
13	Autonomic maturation from birth to 2 years: normative values. <i>Heliyon</i> , 2019, 5, e01300.	3.2	31
14	Effect of Early Targeted Treatment of Ductus Arteriosus with Ibuprofen on Survival Without Cerebral Palsy at 2 <sup>â</sup> Years in Infants with Extreme Prematurity: A Randomized Clinical Trial. <i>Journal of Pediatrics</i> , 2021, 233, 33-42.e2.	1.8	28
15	Biological Impact of Recent Guidelines on Parenteral Nutrition in Preterm Infants. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2015, 61, 605-609.	1.8	27
16	Perinatal morbidity and mortality in twin pregnancies with dichorionic placentas following assisted reproductive techniques or ovarian induction alone: a comparative study. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2010, 153, 138-142.	1.1	25
17	Denosing preterm EEG by signal decomposition and adaptive filtering: A comparative study. <i>Medical Engineering and Physics</i> , 2015, 37, 315-320.	1.7	22
18	Comparison of early and late MRI in neonatal hypoxic <sup>â</sup> ischemic encephalopathy using three assessment methods. <i>Pediatric Radiology</i> , 2015, 45, 1988-2000.	2.0	22

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19	Online apnea-bradycardia detection based on hidden semi-Markov models. <i>Medical and Biological Engineering and Computing</i> , 2015, 53, 1-13.	2.8	21
20	Coupled Hidden Markov Model-Based Method for Apnea Bradycardia Detection. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 527-538.	6.3	21
21	Improving methodology in heart rate variability analysis for the premature infants: Impact of the time length. <i>PLoS ONE</i> , 2019, 14, e0220692.	2.5	20
22	On-line apnea-bradycardia detection using hidden semi-Markov models. , 2011, 2011, 4374-7.		18
23	Impact of surfactant administration through a thin catheter in the delivery room: A quality control chart analysis coupled with a propensity score matched cohort study in preterm infants. <i>PLoS ONE</i> , 2018, 13, e0208252.	2.5	18
24	Prolonged Dynamic Changes in Autonomic Heart Rate Modulation Induced by Acid Laryngeal Stimulation in Non-Sedated Lambs. <i>Neonatology</i> , 2007, 91, 83-91.	2.0	17
25	Influence of Hypoxia and Hypercapnia on Sleep State-Dependent Heart Rate Variability Behavior in Newborn Lambs. <i>Sleep</i> , 2012, 35, 1541-9.	1.1	17
26	Early-onset neonatal sepsis is associated with a high heart rate during automatically selected stationary periods. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2017, 106, 749-754.	1.5	17
27	Patent ductus arteriosus, tracheal ventilation, and the risk of bronchopulmonary dysplasia. <i>Pediatric Research</i> , 2022, 91, 652-658.	2.3	16
28	Association between Baseline Cortisol Serum Concentrations and the Effect of Prophylactic Hydrocortisone in Extremely Preterm Infants. <i>Journal of Pediatrics</i> , 2021, 234, 65-70.e3.	1.8	16
29	Artifact rejection and cycle detection in immature breathing: Application to the early detection of neonatal sepsis. <i>Biomedical Signal Processing and Control</i> , 2015, 16, 9-16.	5.7	14
30	Robust, real-time generic detector based on a multi-feature probabilistic method. <i>PLoS ONE</i> , 2019, 14, e0223785.	2.5	13
31	Association Between Early Amino Acid Intake and Full-Scale IQ at Age 5 Years Among Infants Born at Less Than 30 Weeks' Gestation. <i>JAMA Network Open</i> , 2021, 4, e2135452.	5.9	13
32	Impact of early protein and energy intakes on neurodevelopment at 2 years of corrected age in very low birth weight infants: A single-center observational study. <i>PLoS ONE</i> , 2019, 14, e0218887.	2.5	12
33	Higher tactile sensitivity in preterm infants at term-equivalent age: A pilot study. <i>PLoS ONE</i> , 2020, 15, e0229270.	2.5	12
34	<i>Staphylococcus capitis</i> isolated from bloodstream infections: a nationwide 3-month survey in 38 neonatal intensive care units. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2020, 39, 2185-2194.	2.9	12
35	Chorioamnionitis following preterm premature rupture of membranes and fetal heart rate variability. <i>PLoS ONE</i> , 2017, 12, e0184924.	2.5	12
36	Beat-to-beat blood pressure variability and patent ductus arteriosus in ventilated, premature infants. <i>Pflugers Archiv European Journal of Physiology</i> , 2003, 446, 154-160.	2.8	11

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37	Possible Predictors of Cardiorespiratory Events after Immunization in Preterm Neonates. <i>Neonatology</i> , 2013, 104, 151-155.	2.0	11
38	Multivariate ECG analysis for apnoea bradycardia detection and characterisation in preterm infants. <i>International Journal of Biomedical Engineering and Technology</i> , 2011, 5, 247.	0.2	9
39	Recursive identification of an arterial baroreflex model for the evaluation of cardiovascular autonomic modulation. <i>Computers in Biology and Medicine</i> , 2015, 66, 287-294.	7.0	9
40	Novel Interface Designs for Patient Monitoring Applications in Critical Care Medicine: Human Factors Review. <i>JMIR Human Factors</i> , 2020, 7, e15052.	2.0	9
41	Magnetic resonance imaging measurement of fetal lung volume does not match postnatal survival. <i>Archives of Disease in Childhood: Fetal and Neonatal Edition</i> , 2007, 92, F78-F78.	2.8	8
42	Early detection of apnea-bradycardia episodes in preterm infants based on coupled hidden Markov model. , 2013, , .		8
43	Evaluation of Maturation in Preterm Infants Through an Ensemble Machine Learning Algorithm Using Physiological Signals. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2022, 26, 400-410.	6.3	8
44	Postnatal autonomic activity in the preterm lamb. <i>Research in Veterinary Science</i> , 2010, 89, 242-249.	1.9	7
45	Assessment of tobacco smoke effects on neonatal cardiorespiratory control using a semi-automated processing approach. <i>Medical and Biological Engineering and Computing</i> , 2018, 56, 2025-2037.	2.8	7
46	Evolutionary Optimization of ECG Feature Extraction Methods: Applications to the Monitoring of Adult Myocardial Ischemia and Neonatal Apnea Bradycardia Events. , 2012, , 237-273.		6
47	Performance analysis of Hurst exponent estimators using surrogate-data and fractional lognormal noise models: Application to breathing signals from preterm infants. , 2013, 23, 1610-1619.		6
48	Apnea bradycardia detection based on new coupled hidden semi Markov model. <i>Medical and Biological Engineering and Computing</i> , 2021, 59, 1-11.	2.8	6
49	Detection of Apnea Bradycardia from ECG Signals of Preterm Infants Using Layered Hidden Markov Model. <i>Annals of Biomedical Engineering</i> , 2021, 49, 2159-2169.	2.5	6
50	Augmenting Critical Care Patient Monitoring Using Wearable Technology: Review of Usability and Human Factors. <i>JMIR Human Factors</i> , 2021, 8, e16491.	2.0	6
51	Influence of sympathetic tone on heart rate during vagal stimulation and nitroprusside induced hypotension in ovine fetus. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2005, 123, 19-25.	2.8	5
52	Analysis of the QRS complex for apnea-bradycardia characterization in preterm infants. , 2009, 2009, 946-9.		5
53	Premedication practices for delivery room intubations in premature infants in France: Results from the EPIPAGE 2 cohort study. <i>PLoS ONE</i> , 2019, 14, e0215150.	2.5	5
54	Diagnosis of Neonatal Late-Onset Infection in Very Preterm Infant: Inter-Observer Agreement and International Classifications. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 882.	2.6	5

#	ARTICLE	IF	CITATIONS
55	Short term prediction of severe bradycardia in premature newborns. , 2003, , .		4
56	Performance analysis of hurst's exponent estimators in highly immature breathing patterns of preterm infants. , 2011, , .		4
57	Transvesical Intra-Abdominal Pressure Measurement in Newborn. Pediatric Critical Care Medicine, 2016, 17, 144-149.	0.5	4
58	Frequency of Extracorporeal Membrane Oxygenation Support and Outcomes After Implementation of a Structured PICU Network in Neonates and Children. Pediatric Critical Care Medicine, 2021, Publish Ahead of Print, e558-e570.	0.5	4
59	Recurrent Neural Networks for Early Detection of Late Onset Sepsis in Premature Infants Using Heart Rate Variability. , 2021, , .		4
60	A model-based approach for the evaluation of vagal and sympathetic activities in a newborn lamb. , 2013, 2013, 3881-4.		3
61	Multi-feature classifiers for burst detection in single EEG channels from preterm infants. Journal of Neural Engineering, 2017, 14, 046015.	3.5	3
62	A novel, short and easy-to-perform method to evaluate newborns' social olfactory preferences. Animal Cognition, 2020, 23, 843-850.	1.8	3
63	Early bradycardia detection and therapeutic interventions in preterm infant monitoring. Scientific Reports, 2021, 11, 10486.	3.3	3
64	Beat-to-beat Analysis of the Relation between RT and RR Intervals in Newborns. Journal of Perinatology, 2003, 23, 212-217.	2.0	2
65	HRV complexity as a diagnostic tool for late onset sepsis in sick premature infants. , 2008, , .		1
66	Red cell transport and transfusion in preterm infants. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2008, 94, F229-F229.	2.8	1
67	Recursive Model Identification for the Evaluation of Baroreflex Sensitivity. Acta Biotheoretica, 2016, 64, 469-478.	1.5	1
68	Prototyping a User Interface for a New Sepsis Risk Decision Support System Using Participatory Design. Advances in Intelligent Systems and Computing, 2019, , 242-248.	0.6	1
69	Room 220-222, 10/16/2000 9: 00 AM - 10: 30 AM (PD) Influence of the Bazett Correction on the Stress-Velocity Relation of the Left Ventricle in Children. Anesthesiology, 2000, 93, A-1308.	2.5	0
70	Defining User Needs for a New Sepsis Risk Decision Support System in Neonatal ICU Settings Through Ethnography: User Interviews and Participatory Design. Advances in Intelligent Systems and Computing, 2019, , 221-227.	0.6	0
71	State of the Art and Future Trends in the Usability of Patient Monitors. Advances in Intelligent Systems and Computing, 2019, , 338-344.	0.6	0