

# Olivier Baud

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/10087/publications.pdf>

Version: 2024-02-01

50  
papers

3,386  
citations

201674

27  
h-index

197818

49  
g-index

53  
all docs

53  
docs citations

53  
times ranked

3662  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Spatiotemporal Clutter Filtering of Ultrafast Ultrasound Data Highly Increases Doppler and Ultrasound Sensitivity. <i>IEEE Transactions on Medical Imaging</i> , 2015, 34, 2271-2285.   | 8.9  | 661       |
| 2  | Survival and Morbidity of Preterm Children Born at 22 Through 34 Weeksâ€™ Gestation in France in 2011. <i>JAMA Pediatrics</i> , 2015, 169, 230.   | 6.2  | 576       |
| 3  | 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       |
| 4  | Adaptive Spatiotemporal SVD Clutter Filtering for Ultrafast Doppler Imaging Using Similarity of Spatial Singular Vectors. <i>IEEE Transactions on Medical Imaging</i> , 2018, 37, 1574-1586.  | 8.9  | 203       |
| 5  | Functional ultrasound imaging of brain activity in human newborns. <i>Science Translational Medicine</i> , 2017, 9, .   | 12.4 | 154       |
| 6  | Gestational Hypoxia Induces White Matter Damage in Neonatal Rats: A New Model of Periventricular Leukomalacia. <i>Brain Pathology</i> , 2004, 14, 1-10.   | 4.1  | 107       |
| 7  | Association Between Early Low-Dose Hydrocortisone Therapy in Extremely Preterm Neonates and Neurodevelopmental Outcomes at 2 Years of Age. <i>JAMA - Journal of the American Medical Association</i> , 2017, 317, 1329.                       | 7.4  | 99        |
| 8  | Decreased microglial Wnt/ $\beta$ -catenin signalling drives microglial pro-inflammatory activation in the developing brain. <i>Brain</i> , 2019, 142, 3806-3833.   | 7.6  | 97        |
| 9  | Neonatal and Long-Term Consequences of Fetal Growth Restriction. <i>Current Pediatric Reviews</i> , 2018, 14, 212-218.  | 0.8  | 82        |
| 10 | Effect of Prophylaxis for Early Adrenal Insufficiency Using Low-Dose Hydrocortisone in Very Preterm Infants: An Individual Patient Data Meta-Analysis. <i>Journal of Pediatrics</i> , 2019, 207, 136-142.e5.                                  | 1.8  | 78        |
| 11 | Ultrafast Doppler Reveals the Mapping of Cerebral Vascular Resistivity in Neonates. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014, 34, 1009-1017.   | 4.3  | 71        |
| 12 | Moderate growth restriction: Deleterious and protective effects on white matter damage. <i>Neurobiology of Disease</i> , 2007, 26, 253-263.   | 4.4  | 69        |
| 13 | Inhaled Nitric Oxide Reduces Brain Damage by Collateral Recruitment in a Neonatal Stroke Model. <i>Stroke</i> , 2012, 43, 3078-3084.  | 2.0  | 67        |
| 14 | Is melatonin ready to be used in preterm infants as a neuroprotectant?. <i>Developmental Medicine and Child Neurology</i> , 2014, 56, 717-723.  | 2.1  | 66        |
| 15 | Oxytocin receptor agonist reduces perinatal brain damage by targeting microglia. <i>Glia</i> , 2019, 67, 345-359.   | 4.9  | 65        |
| 16 | Transcriptomic regulations in oligodendroglial and microglial cells related to brain damage following fetal growth restriction. <i>Glia</i> , 2016, 64, 2306-2320.  | 4.9  | 61        |
| 17 | Bedside functional monitoring of the dynamic brain connectivity in human neonates. <i>Nature Communications</i> , 2021, 12, 1080.   | 12.8 | 50        |
| 18 | Ultrafast Doppler for neonatal brain imaging. <i>NeuroImage</i> , 2019, 185, 851-856.   | 4.2  | 44        |

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|----|--|-----|-----------|
| 19 | Two-year neurodevelopmental outcomes of extremely preterm infants treated with early hydrocortisone: treatment effect according to gestational age at birth. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2019, 104, F30-F35. | 2.8 | 42        |
| 20 | Impact of intracranial blood-flow redistribution on stroke size during ischemiaâ€“reperfusion in 7-day-old rats. Journal of Neuroscience Methods, 2011, 198, 103-109.  | 2.5 | 39        |
| 21 | Hormonal Changes Associated With Intra-Uterine Growth Restriction: Impact on the Developing Brain and Future Neurodevelopment. Frontiers in Endocrinology, 2019, 10, 179.  | 3.5 | 39        |
| 22 | Knowledge Gaps and Emerging Research Areas in Intrauterine Growth Restriction-Associated Brain Injury. Frontiers in Endocrinology, 2019, 10, 188.  | 3.5 | 38        |
| 23 | Impact of inhaled nitric oxide on white matter damage in growth-restricted neonatal rats. Pediatric Research, 2015, 77, 563-569.   | 2.3 | 35        |
| 24 | Melatonin Levels in Preterm and Term Infants and Their Mothers. International Journal of Molecular Sciences, 2019, 20, 2077.   | 4.1 | 35        |
| 25 | Intrauterine Growth Restriction, Head Size at Birth, and Outcome in Very Preterm Infants. Journal of Pediatrics, 2015, 167, 975-981.e2.  | 1.8 | 32        |
| 26 | Melatonin and the newborn brain. Early Human Development, 2016, 102, 1-3.  | 1.8 | 32        |
| 27 | Sex differences in the effects of PARP inhibition on microglial phenotypes following neonatal stroke. Brain, Behavior, and Immunity, 2018, 73, 375-389.  | 4.1 | 30        |
| 28 | Pain, Parental Involvement, and Oxytocin in the Neonatal Intensive Care Unit. Frontiers in Psychology, 2019, 10, 715.  | 2.1 | 28        |
| 29 | Prophylactic postnatal corticosteroids: Early hydrocortisone. Seminars in Fetal and Neonatal Medicine, 2019, 24, 202-206.  | 2.3 | 23        |
| 30 | Diagnostic contribution of metabolic workup for neonatal inherited metabolic disorders in the absence of expanded newborn screening. Scientific Reports, 2019, 9, 14098.   | 3.3 | 18        |
| 31 | mGlu3 receptor regulates microglial cell reactivity in neonatal rats. Journal of Neuroinflammation, 2021, 18, 13.  | 7.2 | 17        |
| 32 | Dynamic Spatio-Temporal Imaging of Early Reflow in a Neonatal Rat Stroke Model. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 137-145.  | 4.3 | 16        |
| 33 | Association between Baseline Cortisol Serum Concentrations and the Effect of Prophylactic Hydrocortisone in Extremely Preterm Infants. Journal of Pediatrics, 2021, 234, 65-70.e3.   | 1.8 | 16        |
| 34 | Subjective Visual Vertical and Postural Capability in Children Born Prematurely. PLoS ONE, 2015, 10, e0121616.   | 2.5 | 15        |
| 35 | Prophylactic hydrocortisone in extremely preterm infants and brain MRI abnormality. Archives of Disease in Childhood: Fetal and Neonatal Edition, 2020, 105, 520-525.  | 2.8 | 15        |
| 36 | Survival without Bronchopulmonary Dysplasia of Extremely Preterm Infants: A Predictive Model at Birth. Neonatology, 2021, 118, 385-393.  | 2.0 | 14        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | A Model of Perinatal Ischemic Stroke in the Rat: 20 Years Already and What Lessons?. <i>Frontiers in Neurology</i> , 2018, 9, 650.   | 2.4 | 12        |
| 38 | Cyclooxygenase-2-Derived Prostaglandins Mediate Cerebral Microcirculation in a Juvenile Ischemic Rat Model. <i>Stroke</i> , 2016, 47, 3048-3052.                                       | 2.0 | 11        |
| 39 | Spatial and temporal postural analysis in children born prematurely. <i>Gait and Posture</i> , 2017, 57, 230-235.  | 1.4 | 11        |
| 40 | Cord blood procalcitonin level and early-onset sepsis in extremely preterm infants. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2019, 38, 1651-1657.    | 2.9 | 11        |
| 41 | Brain perfusion imaging in neonates. <i>NeuroImage: Clinical</i> , 2021, 31, 102756.   | 2.7 | 9         |
| 42 | Prostaglandin E1-Mediated Collateral Recruitment Is Delayed in a Neonatal Rat Stroke Model. <i>International Journal of Molecular Sciences</i> , 2018, 19, 2995.                       | 4.1 | 6         |
| 43 | Editorial: Preventing Developmental Brain Injury—From Animal Models to Clinical Trials. <i>Frontiers in Neurology</i> , 2019, 10, 775.   | 2.4 | 6         |
| 44 | In-line filtration in very preterm neonates: a randomized controlled trial. <i>Scientific Reports</i> , 2020, 10, 5003.  | 3.3 | 6         |
| 45 | Genetic Deletion of mGlu3 Metabotropic Glutamate Receptors Amplifies Ischemic Brain Damage and Associated Neuroinflammation in Mice. <i>Frontiers in Neurology</i> , 2021, 12, 668877. | 2.4 | 5         |
| 46 | Safety of Red Blood Cell Transfusion Using Small Central Lines in Neonates: An in vitro Non-inferiority Study. <i>Frontiers in Pediatrics</i> , 2021, 9, 606611.                       | 1.9 | 4         |
| 47 | Impact of Fetal Growth Restriction on the Neonatal Microglial Proteome in the Rat. <i>Nutrients</i> , 2021, 13, 3719.  | 4.1 | 4         |
| 48 | Controlled arterial reflow after ischemia induces better outcomes in the juvenile rat brain. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 3091-3096.               | 4.3 | 3         |
| 49 | Early arterial pressure monitoring and term-equivalent age MRI findings in very preterm infants. <i>Pediatric Research</i> , 2021, , .   | 2.3 | 2         |
| 50 | Systemic and topical glucocorticoids to prevent BPD. , 2020, , 3-19.   |     | 0         |