

# Emma Muñoz-Moreno

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8188630/publications.pdf>

Version: 2024-02-01

43  
papers

968  
citations

471509

17  
h-index

454955

30  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1611  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Altered small-world topology of structural brain networks in infants with intrauterine growth restriction and its association with later neurodevelopmental outcome. <i>NeuroImage</i> , 2012, 60, 1352-1366.                                  | 4.2  | 151       |
| 2  | Neonatal Neurobehavior and Diffusion MRI Changes in Brain Reorganization Due to Intrauterine Growth Restriction in a Rabbit Model. <i>PLoS ONE</i> , 2012, 7, e31497.  | 2.5  | 73        |
| 3  | Normalization of similarity-based individual brain networks from gray matter MRI and its association with neurodevelopment in infants with intrauterine growth restriction. <i>NeuroImage</i> , 2013, 83, 901-911.                             | 4.2  | 58        |
| 4  | Early brain connectivity alterations and cognitive impairment in a rat model of Alzheimer's disease. <i>Alzheimer's Research and Therapy</i> , 2018, 10, 16.   | 6.2  | 57        |
| 5  | Brain network characterization of high-risk preterm-born school-age children. <i>NeuroImage: Clinical</i> , 2016, 11, 195-209.   | 2.7  | 55        |
| 6  | Whole heart detailed and quantitative anatomy, myofibre structure and vasculature from X-ray phase-contrast synchrotron radiation-based micro computed tomography. <i>European Heart Journal Cardiovascular Imaging</i> , 2017, 18, 732-741.   | 1.2  | 50        |
| 7  | The Ins and Outs of the BCCAO Model for Chronic Hypoperfusion: A Multimodal and Longitudinal MRI Approach. <i>PLoS ONE</i> , 2013, 8, e74631.  | 2.5  | 45        |
| 8  | Long-Term Functional Outcomes and Correlation with Regional Brain Connectivity by MRI Diffusion Tractography Metrics in a Near-Term Rabbit Model of Intrauterine Growth Restriction. <i>PLoS ONE</i> , 2013, 8, e76453.                        | 2.5  | 38        |
| 9  | Long-term reorganization of structural brain networks in a rabbit model of intrauterine growth restriction. <i>NeuroImage</i> , 2014, 100, 24-38.  | 4.2  | 32        |
| 10 | Structural Brain Network Reorganization and Social Cognition Related to Adverse Perinatal Condition from Infancy to Early Adolescence. <i>Frontiers in Neuroscience</i> , 2016, 10, 560.   | 2.8  | 32        |
| 11 | A Magnetic Resonance Image Based Atlas of the Rabbit Brain for Automatic Parcellation. <i>PLoS ONE</i> , 2013, 8, e67418.  | 2.5  | 30        |
| 12 | Motor and cortico-striatal-thalamic connectivity alterations in intrauterine growth restriction. <i>American Journal of Obstetrics and Gynecology</i> , 2016, 214, 725.e1-725.e9.  | 1.3  | 30        |
| 13 | Toward the automatic quantification of in utero brain development in 3D structural MRI: A review. <i>Human Brain Mapping</i> , 2017, 38, 2772-2787.  | 3.6  | 30        |
| 14 | Sequential anisotropic multichannel Wiener filtering with Rician bias correction applied to 3D regularization of DWI data. <i>Medical Image Analysis</i> , 2009, 13, 19-35.  | 11.6 | 29        |
| 15 | M2 cortex-dorsolateral striatum stimulation reverses motor symptoms and synaptic deficits in Huntington's disease. <i>ELife</i> , 2020, 9, .   | 6.0  | 25        |
| 16 | Brain metabolite alterations in infants born preterm with intrauterine growth restriction: association with structural changes and neurodevelopmental outcome. <i>American Journal of Obstetrics and Gynecology</i> , 2017, 216, 62.e1-62.e14. | 1.3  | 22        |
| 17 | Altered resting-state whole-brain functional networks of neonates with intrauterine growth restriction. <i>Cortex</i> , 2016, 77, 119-131.   | 2.4  | 19        |
| 18 | Automatic articulated registration of hand radiographs. <i>Image and Vision Computing</i> , 2009, 27, 1207-1222.   | 4.5  | 18        |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | In Vivo Detection of Perinatal Brain Metabolite Changes in a Rabbit Model of Intrauterine Growth Restriction (IUGR). PLoS ONE, 2015, 10, e0131310.                        | 2.5  | 18        |
| 20 | Resting State Networks in the TgF344-AD Rat Model of Alzheimer's Disease Are Altered From Early Stages. Frontiers in Aging Neuroscience, 2019, 11, 213.                   | 3.4  | 16        |
| 21 | Articulated registration: elastic registration based on a wire-model. , 2005, 5747, 182.  |      | 15        |
| 22 | Neurodevelopmental Effects of Undernutrition and Placental Underperfusion in Fetal Growth Restriction Rabbit Models. Fetal Diagnosis and Therapy, 2017, 42, 189-197.      | 1.4  | 15        |
| 23 | Early Environmental Enrichment Enhances Abnormal Brain Connectivity in a Rabbit Model of Intrauterine Growth Restriction. Fetal Diagnosis and Therapy, 2018, 44, 184-193. | 1.4  | 15        |
| 24 | Food craving-like episodes during pregnancy are mediated by accumbal dopaminergic circuits. Nature Metabolism, 2022, 4, 424-434.  | 11.9 | 13        |
| 25 | Brain connectivity during Alzheimer's disease progression and its cognitive impact in a transgenic rat model. Network Neuroscience, 2020, 4, 397-415.                     | 2.6  | 12        |
| 26 | Analysis of the pyramidal tract in tumor patients using diffusion tensor imaging. NeuroImage, 2010, 50, 27-39.  | 4.2  | 10        |
| 27 | Predictive Modeling of Cardiac Fiber Orientation Using the Knutsson Mapping. Lecture Notes in Computer Science, 2011, 14, 50-57.  | 1.3  | 10        |
| 28 | A 3-D Collision Handling Algorithm for Surgery Simulation Based on Feedback Fuzzy Logic. IEEE Transactions on Information Technology in Biomedicine, 2009, 13, 451-457.   | 3.2  | 8         |
| 29 | Feasibility and technical features of fetal brain magnetic resonance spectroscopy in 1.5 T scanners. American Journal of Obstetrics and Gynecology, 2015, 213, 741-742.   | 1.3  | 8         |
| 30 | Characterization of the similarity between diffusion tensors for image registration. Computers in Biology and Medicine, 2009, 39, 251-265.                                | 7.0  | 7         |
| 31 | Saturn: A software application of tensor utilities for research in neuroimaging. Computer Methods and Programs in Biomedicine, 2010, 97, 264-279.                         | 4.7  | 6         |
| 32 | Effects of Orientation and Anisometry of Magnetic Resonance Imaging Acquisitions on Diffusion Tensor Imaging and Structural Connectomes. PLoS ONE, 2017, 12, e0170703.    | 2.5  | 6         |
| 33 | P2F-1 A Speckle Removal Filter Based on Anisotropic Wiener Filtering and the Rice Distribution. , 2006, , .   |      | 5         |
| 34 | Analysis of the helix and transverse angles of the muscle fibers in the myocardium based on Diffusion Tensor Imaging. , 2010, 2010, 5720-3.                               |      | 3         |
| 35 | Spatial normalization of cardiac Diffusion Tensor Imaging for modeling the muscular structure of the myocardium. , 2010, , .  |      | 2         |
| 36 | P2C-3 Ultrasound Based Intraoperative Brain Shift Correction. Proceedings IEEE Ultrasonics Symposium, 2007, , .   | 0.0  | 1         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 37 | Altered structural brain network topology in infants with intrauterine growth restriction. , 2012, , .                                |     | 1         |
| 38 | Characterization of Anatomic Fiber Bundles for Diffusion Tensor Image Analysis. Lecture Notes in Computer Science, 2009, 12, 903-910. | 1.3 | 1         |
| 39 | A methodology for quality assessment in tensor images. , 2008, , .  |     | 0         |
| 40 | TECHNIQUES IN THE CONTOUR DETECTION OF KIDNEYS AND THEIR APPLICATIONS. , 2007, , 273-334.   |     | 0         |
| 41 | Atlas Construction and Image Analysis Using Statistical Cardiac Models. Lecture Notes in Computer Science, 2010, , 1-13.              | 1.3 | 0         |
| 42 | Quantitative Analysis of Pyramidal Tracts in Brain Tumor Patients Using Diffusion Tensor Imaging. , 2012, , 143-152.                  |     | 0         |
| 43 | <sup>1</sup> H Spectroscopic Imaging of the Rodent Brain. Methods in Molecular Biology, 2018, 1718, 189-202.                          | 0.9 | 0         |