

# Charles L Bormann

## List of Publications by Citations

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

27  
papers

458  
citations

10  
h-index

21  
g-index

34  
ext. papers

654  
ext. citations

3.6  
avg, IF

3.96  
L-index

#	Paper	IF	Citations
27	Cryopreserved embryo transfer is an independent risk factor for placenta accreta. <i>Fertility and Sterility</i> , <b>2015</b> , 103, 1176-84.e2	4.8	104
26	An automated smartphone-based diagnostic assay for point-of-care semen analysis. <i>Science Translational Medicine</i> , <b>2017</b> , 9,	17.5	99
25	Artificial intelligence and machine learning for human reproduction and embryology presented at ASRM and ESHRE 2018. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2019</b> , 36, 591-600	3.4	47
24	Performance of a deep learning based neural network in the selection of human blastocysts for implantation. <i>ELife</i> , <b>2020</b> , 9,	8.9	29
23	A pilot randomized controlled trial of Day 3 single embryo transfer with adjunctive time-lapse selection versus Day 5 single embryo transfer with or without adjunctive time-lapse selection. <i>Human Reproduction</i> , <b>2017</b> , 32, 1598-1603	5.7	28
22	Consistency and objectivity of automated embryo assessments using deep neural networks. <i>Fertility and Sterility</i> , <b>2020</b> , 113, 781-787.e1	4.8	20
21	Prenatal testosterone and dihydrotestosterone exposure disrupts ovine testicular development. <i>Reproduction</i> , <b>2011</b> , 142, 167-73	3.8	19
20	Development and evaluation of inexpensive automated deep learning-based imaging systems for embryology. <i>Lab on A Chip</i> , <b>2019</b> , 19, 4139-4145	7.2	15
19	Automated smartphone-based system for measuring sperm viability, DNA fragmentation, and hyaluronic binding assay score. <i>PLoS ONE</i> , <b>2019</b> , 14, e0212562	3.7	13
18	Müllerian-Inhibiting Substance/Anti-Müllerian Hormone as a Predictor of Preterm Birth in Polycystic Ovary Syndrome. <i>Journal of Clinical Endocrinology and Metabolism</i> , <b>2018</b> , 103, 4187-4196	5.6	13
17	Evaluation of deep convolutional neural networks in classifying human embryo images based on their morphological quality. <i>Heliyon</i> , <b>2021</b> , 7, e06298	3.6	9
16	Automated quality assessment of individual embryologists performing ICSI using deep learning-enabled fertilization and embryo grading technology. <i>Fertility and Sterility</i> , <b>2019</b> , 112, e71	4.8	7
15	Is the presence of an uncleaved embryo on day 3 a useful predictor of outcomes following day 5 transfer?. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2015</b> , 32, 1379-84	3.4	6
14	Human sperm morphology analysis using smartphone microscopy and deep learning. <i>Fertility and Sterility</i> , <b>2019</b> , 112, e41	4.8	6
13	Induction of chemokines and prostaglandin synthesis pathways in luteinized human granulosa cells: potential role of luteotropin withdrawal and prostaglandin F <sub>2</sub> in regression of the human corpus luteum. <i>Reproductive Biology</i> , <b>2015</b> , 15, 247-56	2.3	6
12	Deep learning early warning system for embryo culture conditions and embryologist performance in the ART laboratory. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1641-1646	3.4	6
11	A patient-specific model combining antimüllerian hormone and body mass index as a predictor of polycystic ovary syndrome and other oligo-anovulation disorders. <i>Fertility and Sterility</i> , <b>2021</b> , 115, 229-237	4.8	6

10	A deep learning framework outperforms embryologists in selecting day 5 euploid blastocysts with the highest implantation potential. <i>Fertility and Sterility</i> , <b>2019</b> , 112, e77-e78	4.8	4
9	Deep convolutional neural networks (CNN) for assessment and selection of normally fertilized human embryos. <i>Fertility and Sterility</i> , <b>2019</b> , 112, e272	4.8	4
8	Improved monitoring of human embryo culture conditions using a deep learning-derived key performance indicator (KPI). <i>Fertility and Sterility</i> , <b>2019</b> , 112, e70-e71	4.8	4
7	Deep learning-enabled prediction of fertilization based on oocyte morphological quality. <i>Fertility and Sterility</i> , <b>2019</b> , 112, e275	4.8	3
6	Predicting blastocyst formation of day 5 embryos using a convolutional neural network (CNN): a machine learning approach. <i>Fertility and Sterility</i> , <b>2019</b> , 112, e272-e273	4.8	2
5	The effect of semen collection location and time to processing on sperm parameters and early IVF/ICSI outcomes. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1449-1457	3.4	2
4	Pretreatment antimüllerian hormone levels and outcomes of ovarian stimulation with gonadotropins/intrauterine insemination cycles. <i>Fertility and Sterility</i> , <b>2021</b> , 116, 422-430	4.8	1
3	Response to ovulation induction treatments in women with polycystic ovary syndrome as a function of serum anti-Müllerian hormone levels. <i>Journal of Assisted Reproduction and Genetics</i> , <b>2021</b> , 38, 1827-1833	3.4	0
2	Adaptive adversarial neural networks for the analysis of lossy and domain-shifted datasets of medical images. <i>Nature Biomedical Engineering</i> , <b>2021</b> , 5, 571-585	19	0
1	ART: Laboratory Aspects <b>2022</b> , 393-408		