

# Emre Seli

## List of Publications by Year in descending order

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Version: 2024-02-01

107  
papers

5,224  
citations

76326

40  
h-index

95266

68  
g-index

129  
all docs

129  
docs citations

129  
times ranked

3996  
citing authors

#	ARTICLE	IF	CITATIONS
1	Extent of nuclear DNA damage in ejaculated spermatozoa impacts on blastocyst development after in vitro fertilization. <i>Fertility and Sterility</i> , 2004, 82, 378-383.	1.0	367
2	Noninvasive metabolomic profiling of embryo culture media using Raman and near-infrared spectroscopy correlates with reproductive potential of embryos in women undergoing in vitro fertilization. <i>Fertility and Sterility</i> , 2007, 88, 1350-1357.	1.0	255
3	Oocyte mitochondrial function and reproduction. <i>Current Opinion in Obstetrics and Gynecology</i> , 2015, 27, 175-181.	2.0	228
4	Metabolomics and its application for non-invasive embryo assessment in IVF. <i>Molecular Human Reproduction</i> , 2008, 14, 679-690.	2.8	202
5	Noninvasive metabolomic profiling of human embryo culture media using Raman spectroscopy predicts embryonic reproductive potential: a prospective blinded pilot study. <i>Fertility and Sterility</i> , 2008, 90, 77-83.	1.0	178
6	Noninvasive metabolomic profiling of embryo culture media using proton nuclear magnetic resonance correlates with reproductive potential of embryos in women undergoing in vitro fertilization. <i>Fertility and Sterility</i> , 2008, 90, 2183-2189.	1.0	168
7	Noninvasive metabolomic profiling as an adjunct to morphology for noninvasive embryo assessment in women undergoing single embryo transfer. <i>Fertility and Sterility</i> , 2010, 94, 535-542.	1.0	142
8	Interleukin-8 Induces Proliferation of Endometrial Stromal Cells: a Potential Autocrine Growth Factor1. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 1201-1205.	3.6	134
9	Pathogenesis of endometriosis. <i>Obstetrics and Gynecology Clinics of North America</i> , 2003, 30, 41-61.	1.9	131
10	Interleukin-8 in the Human Endometrium<sup>1</sup>. <i>Journal of Clinical Endocrinology and Metabolism</i> , 1998, 83, 1783-1787.	3.6	130
11	A multicenter, prospective, blinded, nonselection study evaluating the predictive value of an aneuploid diagnosis using a targeted next-generation sequencingâ€‘based preimplantation genetic testing for aneuploidy assay and impact of biopsy. <i>Fertility and Sterility</i> , 2021, 115, 627-637.	1.0	126
12	Fertility preservation options for female patients with malignancies. <i>Current Opinion in Obstetrics and Gynecology</i> , 2005, 17, 299-308.	2.0	122
13	Spermatozoal nuclear determinants of reproductive outcome: implications for ART. <i>Human Reproduction Update</i> , 2005, 11, 337-349.	10.8	119
14	OMICS in assisted reproduction: possibilities and pitfalls. <i>Molecular Human Reproduction</i> , 2010, 16, 513-530.	2.8	113
15	Assessment of embryo viability in assisted reproductive technology: shortcomings of current approaches and the emerging role of metabolomics. <i>Current Opinion in Obstetrics and Gynecology</i> , 2008, 20, 234-241.	2.0	111
16	An embryonic poly(A)-binding protein (ePAB) is expressed in mouse oocytes and early preimplantation embryos. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 367-372.	7.1	100
17	Rate of true recurrent implantation failure is low: results of three successive frozen euploid single embryo transfers. <i>Fertility and Sterility</i> , 2021, 115, 45-53.	1.0	94
18	Mitochondrial Stress Response Gene Clpp Is Not Required for Granulosa Cell Function. <i>Antioxidants</i> , 2021, 10, 1.	5.1	88

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19	Endometriosis: Interaction of Immune and Endocrine Systems. <i>Seminars in Reproductive Medicine</i> , 2003, 21, 135-144.	1.1	84
20	Mitochondrial Dysfunction and Ovarian Aging. <i>Endocrinology</i> , 2020, 161, .	2.8	81
21	The role of mitochondrial activity in female fertility and assisted reproductive technologies: overview and current insights. <i>Reproductive BioMedicine Online</i> , 2018, 36, 686-697.	2.4	75
22	Reproductive aging is associated with changes in oocyte mitochondrial dynamics, function, and mtDNA quantity. <i>Maturitas</i> , 2016, 93, 121-130.	2.4	72
23	Mitochondrial unfolded protein response gene <i>Clpp</i> is required to maintain ovarian follicular reserve during aging, for oocyte competence, and development of preimplantation embryos. <i>Aging Cell</i> , 2018, 17, e12784.	6.7	71
24	Mitofusin 1 is required for female fertility and to maintain ovarian follicular reserve. <i>Cell Death and Disease</i> , 2019, 10, 560.	6.3	71
25	Metazoan oocyte and early embryo development program: a progression through translation regulatory cascades. <i>Genes and Development</i> , 2006, 20, 138-146.	5.9	69
26	Embryonic poly(A)-binding protein (EPAB) is required for oocyte maturation and female fertility in mice. <i>Biochemical Journal</i> , 2012, 446, 47-58.	3.7	69
27	Developmental potential of aneuploid human embryos cultured beyond implantation. <i>Nature Communications</i> , 2020, 11, 3987.	12.8	66
28	A review of the pathophysiology of recurrent implantation failure. <i>Fertility and Sterility</i> , 2021, 116, 1436-1448.	1.0	66
29	Removal of hydrosalpinges increases endometrial leukaemia inhibitory factor (LIF) expression at the time of the implantation window. <i>Human Reproduction</i> , 2005, 20, 3012-3017.	0.9	65
30	Mitochondrial dysfunction and ovarian aging. <i>American Journal of Reproductive Immunology</i> , 2017, 77, e12651.	1.2	63
31	Estradiol down-regulates MCP-1 expression in human coronary artery endothelial cells. <i>Fertility and Sterility</i> , 2002, 77, 542-547.	1.0	59
32	Receiver operating characteristic (ROC) analysis of day 5 morphology grading and metabolomic Viability Score on predicting implantation outcome. <i>Journal of Assisted Reproduction and Genetics</i> , 2011, 28, 137-144.	2.5	59
33	Mitofusin 2 plays a role in oocyte and follicle development, and is required to maintain ovarian follicular reserve during reproductive aging. <i>Aging</i> , 2019, 11, 3919-3938.	3.1	57
34	Mitochondrial unfolded protein response: a stress response with implications for fertility and reproductive aging. <i>Fertility and Sterility</i> , 2019, 111, 197-204.	1.0	50
35	Minireview: Metabolism of Female Reproduction: Regulatory Mechanisms and Clinical Implications. <i>Molecular Endocrinology</i> , 2014, 28, 790-804.	3.7	49
36	Identification and characterization of human embryonic poly(A) binding protein (EPAB). <i>Molecular Human Reproduction</i> , 2008, 14, 581-588.	2.8	48

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37	Metabolomic Assessment of Embryo Viability. <i>Seminars in Reproductive Medicine</i> , 2014, 32, 141-152.	1.1	48
38	Mitochondrial DNA as a biomarker for in-vitro fertilization outcome. <i>Current Opinion in Obstetrics and Gynecology</i> , 2016, 28, 158-163.	2.0	47
39	The impact of age beyond ploidy: outcome data from 8175 euploid single embryo transfers. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 595-602.	2.5	43
40	Identification and <i>in Vitro</i> Characterization of Follicle Stimulating Hormone (FSH) Receptor Variants Associated with Abnormal Ovarian Response to FSH. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010, 95, 529-536.	3.6	42
41	Poor ovarian response in women undergoing <i>in Vitro</i> fertilization is associated with altered microRNA expression in cumulus cells. <i>Fertility and Sterility</i> , 2015, 103, 1469-1476.e3.	1.0	42
42	Mitochondria as a biomarker for IVF outcome. <i>Reproduction</i> , 2019, 157, R235-R242.	2.6	41
43	Diminished ovarian reserve versus ovarian aging: overlaps and differences. <i>Current Opinion in Obstetrics and Gynecology</i> , 2019, 31, 139-147.	2.0	39
44	Treatment of PCOS with metformin and other insulin-sensitizing agents. <i>Current Diabetes Reports</i> , 2004, 4, 69-75.	4.2	38
45	Metabolic imaging with the use of <i>in vivo</i> fluorescence lifetime imaging microscopy (FLIM) accurately detects mitochondrial dysfunction in mouse oocytes. <i>Fertility and Sterility</i> , 2018, 110, 1387-1397.	1.0	34
46	Estradiol Increases Apoptosis in Human Coronary Artery Endothelial Cells by Up-Regulating Fas and Fas Ligand Expression. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 4995-5001.	3.6	29
47	Growth-Regulated $\beta$ Expression in Human Preovulatory Follicles and Ovarian Cells. <i>American Journal of Reproductive Immunology</i> , 1997, 38, 19-25.	1.2	28
48	Embryonic poly(A)-binding protein (ePAB) phosphorylation is required for <i>Xenopus</i> oocyte maturation. <i>Biochemical Journal</i> , 2012, 445, 93-100.	3.7	28
49	Metabolomic Prediction of Pregnancy Viability in Superovulated Cattle Embryos and Recipients with Fourier Transform Infrared Spectroscopy. <i>BioMed Research International</i> , 2014, 2014, 1-8.	1.9	28
50	Epbab and Pabpc1 Are Differentially Expressed During Male Germ Cell Development. <i>Reproductive Sciences</i> , 2012, 19, 911-922.	2.5	27
51	Non-invasive assessment of embryonic sex in cattle by metabolic fingerprinting of <i>in vitro</i> culture medium. <i>Metabolomics</i> , 2014, 10, 443-451.	3.0	27
52	Mitochondrial DNA content is not predictive of reproductive competence in euploid blastocysts. <i>Reproductive BioMedicine Online</i> , 2020, 41, 183-190.	2.4	27
53	The Appraisal of Body Content (ABC) trial: Increased male or female adiposity does not significantly impact <i>in vitro</i> fertilization laboratory or clinical outcomes. <i>Fertility and Sterility</i> , 2021, 116, 444-452.	1.0	27
54	Should patients with polycystic ovarian syndrome be treated with metformin?. <i>Human Reproduction</i> , 2002, 17, 2230-2236.	0.9	26

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55	Economics of assisted reproductive technologies. <i>Current Opinion in Obstetrics and Gynecology</i> , 2010, 22, 183-188.	2.0	26
56	Follicle-stimulating hormone receptor (FSHR) alternative skipping of exon 2 or 3 affects ovarian response to FSH. <i>Molecular Human Reproduction</i> , 2014, 20, 630-643.	2.8	25
57	Characterization of the Gonadotropin Releasing Hormone Receptor (GnRHR) Expression and Activity in the Female Mouse Ovary. <i>Endocrinology</i> , 2013, 154, 3877-3887.	2.8	24
58	Human embryo polarization requires PLC signaling to mediate trophectoderm specification. <i>ELife</i> , 2021, 10, .	6.0	24
59	The Peritoneal Fluid Levels of Interleukin-12 in Women with Endometriosis. <i>American Journal of Reproductive Immunology</i> , 1998, 39, 152-156.	1.2	23
60	Ovarian reserve parameters and IVF outcomes in 510 women with poor ovarian response (POR) treated with intraovarian injection of autologous platelet rich plasma (PRP). <i>Aging</i> , 2022, 14, 2513-2523.	3.1	23
61	Embryonic Poly(A)-Binding Protein (EPAB) Is Required for Granulosa Cell EGF Signaling and Cumulus Expansion in Female Mice. <i>Endocrinology</i> , 2016, 157, 405-416.	2.8	22
62	Shorter telomere length of white blood cells is associated with higher rates of aneuploidy among infertile women undergoing in vitro fertilization. <i>Fertility and Sterility</i> , 2021, 115, 957-965.	1.0	21
63	Embryonic poly(A)-binding protein is required at the preantral stage of mouse folliculogenesis for oocyte-somatic communication. <i>Biology of Reproduction</i> , 2017, 96, 341-351.	2.7	20
64	Cumulus cells have longer telomeres than leukocytes in reproductive-age women. <i>Fertility and Sterility</i> , 2020, 113, 217-223.	1.0	20
65	Oocyte Cryopreservation as a Preventive Measure for Age-Related Fertility Loss. <i>Seminars in Reproductive Medicine</i> , 2015, 33, 429-435.	1.1	19
66	Metabolism of the oocyte and the preimplantation embryo: implications for assisted reproduction. <i>Current Opinion in Obstetrics and Gynecology</i> , 2018, 30, 163-170.	2.0	19
67	Translational activation of maternally derived mRNAs in oocytes and early embryos and the role of embryonic poly(A) binding protein (EPAB). <i>Biology of Reproduction</i> , 2019, 100, 1147-1157.	2.7	19
68	Fertility preservation as a public health issue: an epidemiological perspective. <i>Current Opinion in Obstetrics and Gynecology</i> , 2011, 23, 143-150.	2.0	17
69	Cross-Talk Between FSH and Endoplasmic Reticulum Stress: A Mutually Suppressive Relationship. <i>Reproductive Sciences</i> , 2016, 23, 352-364.	2.5	17
70	Noninvasive preimplantation genetic testing for aneuploidy exhibits high rates of deoxyribonucleic acid amplification failure and poor correlation with results obtained using trophectoderm biopsy. <i>Fertility and Sterility</i> , 2021, 115, 1461-1470.	1.0	17
71	Optimizing ovulation induction in women with polycystic ovary syndrome. <i>Current Opinion in Obstetrics and Gynecology</i> , 2002, 14, 245-254.	2.0	16
72	<i>Epab</i> is dispensable for mouse spermatogenesis and male fertility. <i>Molecular Reproduction and Development</i> , 2014, 81, 390-390.	2.0	16

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73	Human embryonic poly(A)-binding protein (EPAB) alternative splicing is differentially regulated in human oocytes and embryos. <i>Molecular Human Reproduction</i> , 2014, 20, 59-65.	2.8	15
74	Estradiol suppresses vascular monocyte chemotactic protein-1 expression during early atherogenesis. <i>American Journal of Obstetrics and Gynecology</i> , 2002, 187, 1544-1549.	1.3	14
75	Estrogen increases apoptosis in the arterial wall in a murine atherosclerosis model. <i>Fertility and Sterility</i> , 2007, 88, 1190-1196.	1.0	14
76	Gonadotropin-Releasing Hormone Analogs for Gonadal Protection During Gonadotoxic Chemotherapy: A Systematic Review and Meta-Analysis. <i>Reproductive Sciences</i> , 2019, 26, 939-953.	2.5	14
77	B-cell lymphoma 6 expression is not associated with live birth in a normal responder in vitro fertilization population. <i>Fertility and Sterility</i> , 2022, 117, 351-358.	1.0	13
78	Embryo assessment strategies and their validation for clinical use. <i>Current Opinion in Obstetrics and Gynecology</i> , 2012, 24, 141-150.	2.0	12
79	Mitochondrial function in women with polycystic ovary syndrome. <i>Current Opinion in Obstetrics and Gynecology</i> , 2020, 32, 205-212.	2.0	12
80	Ovarian Aging. <i>Seminars in Reproductive Medicine</i> , 2015, 33, 375-376.	1.1	11
81	Transcriptomic landscape of granulosa cells and peripheral blood mononuclear cells in women with PCOS compared to young poor responders and women with normal response. <i>Human Reproduction</i> , 2022, 37, 1274-1286.	0.9	11
82	Metabolic imaging via fluorescence lifetime imaging microscopy for egg and embryo assessment. <i>Fertility and Sterility</i> , 2019, 111, 212-218.	1.0	10
83	Analysis of female demographics in the United States: life expectancy, education, employment, family building decisions, and fertility service utilization. <i>Current Opinion in Obstetrics and Gynecology</i> , 2021, 33, 170-177.	2.0	10
84	Follicular activation in women previously diagnosed with poor ovarian response: a randomized, controlled trial. <i>Fertility and Sterility</i> , 2022, 117, 747-755.	1.0	10
85	Alternative splicing of the mouse embryonic poly(A) binding protein (Epab) mRNA is regulated by an exonic splicing enhancer: a model for post-transcriptional control of gene expression in the oocyte. <i>Molecular Human Reproduction</i> , 2008, 14, 393-398.	2.8	9
86	Assisted reproduction in a patient with Klippel-Trenaunay syndrome: management of thrombophilia and consumptive coagulopathy. <i>Journal of Assisted Reproduction and Genetics</i> , 2011, 28, 217-219.	2.5	9
87	A step towards the automation of intracytoplasmic sperm injection: real time confirmation of mouse and human oocyte penetration and viability by electrical resistance measurement. <i>Fertility and Sterility</i> , 2020, 113, 234-236.	1.0	9
88	The appraisal of body content (ABC) trial: obesity does not significantly impact gamete production in infertile men and women. <i>Journal of Assisted Reproduction and Genetics</i> , 2020, 37, 2733-2742.	2.5	9
89	Evaluation of genome-wide DNA methylation profile of human embryos with different developmental competences. <i>Human Reproduction</i> , 2021, 36, 1682-1690.	0.9	8
90	Metabolomic profiling of embryo culture media to predict IVF outcome. <i>Expert Review of Obstetrics and Gynecology</i> , 2008, 3, 441-447.	0.4	7

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91	Strategies for Controlled Ovarian Stimulation in the Setting of Ovarian Aging. <i>Seminars in Reproductive Medicine</i> , 2015, 33, 436-448.	1.1	7
92	Evaluation of Embryo Quality by Metabolomics: A New Strategy to Aid Single Embryo Transfer. <i>Journal of Mammalian Ova Research</i> , 2008, 25, 26-31.	0.1	5
93	Natural birth-induced UCP2 in brain development. <i>Reviews in Endocrine and Metabolic Disorders</i> , 2013, 14, 347-350.	5.7	5
94	Analysis of accessible chromatin landscape in the inner cell mass and trophectoderm of human blastocysts. <i>Molecular Human Reproduction</i> , 2020, 26, 702-711.	2.8	5
95	Interpretation of noninvasive prenatal testing results following in vitro fertilization and preimplantation genetic testing for aneuploidy. <i>American Journal of Obstetrics &amp; Gynecology</i> MFM, 2020, 2, 100232.	2.6	4
96	Mitochondrial DNA content decreases during in vitro human embryo development: insights into mitochondrial DNA variation in preimplantation embryos donated for research. <i>F&amp;S Science</i> , 2020, 1, 36-45.	0.9	3
97	Cumulus cells of euploid versus whole chromosome 21 aneuploid embryos reveal differentially expressed genes. <i>Reproductive BioMedicine Online</i> , 2021, 43, 614-626.	2.4	3
98	The reproductive system from an immunologic perspective. <i>Immunology and Allergy Clinics of North America</i> , 2002, 22, 383-405.	1.9	2
99	Oocyte activation, oolemma piercing, and real-time viability confirmation in human oocytes using electrophysiological techniques. <i>Current Opinion in Obstetrics and Gynecology</i> , 2020, 32, 191-197.	2.0	2
100	Embryology outcomes after oocyte vitrification with super-cooled slush nitrogen are similar to outcomes with conventional liquid nitrogen: a randomized controlled trial. <i>Fertility and Sterility</i> , 2022, 117, 106-114.	1.0	2
101	Targeted Deletion of Mitofusin 1 and Mitofusin 2 Causes Female Infertility and Loss of Follicular Reserve. <i>Reproductive Sciences</i> , 2023, 30, 560-568.	2.5	2
102	Gonadotropin-Releasing Hormone Agonists in Fertility Preservation. , 2012, , 145-157.		0
103	Metabolomic Profiling of Embryos Using Spectroscopy. , 2013, , 275-280.		0
104	Preimplantation genetic testing to evaluate for mitochondrial deoxyribonucleic acid disease and aneuploidy: a two-birds-with-one-stone approach. <i>Fertility and Sterility</i> , 2021, 115, 1439-1440.	1.0	0
105	Gonadotropin-Releasing Hormone Agonists in Fertility Preservation. , 2013, , 183-199.		0
106	How new technical knowledge impacts clinical approach to infertile patients. <i>Current Opinion in Obstetrics and Gynecology</i> , 2018, 30, 137-138.	2.0	0
107	Mitochondrial dysfunction caused by targeted deletion of <i>Mfn1</i> does not result in telomere shortening in oocytes. <i>Zygote</i> , 2022, 30, 735-737.	1.1	0