Giovanni Coticchio

List of Publications by Year
in descending order

117 papers	5,356 citations	70961 41 h-index	88477 70 g-index
121 all docs	121 docs citations	121 times ranked	3217 citing authors

#	Article	IF	Citations
1	Sperm DNA fragmentation: paternal effect on early post-implantation embryo development in ART. Human Reproduction, 2006, 21, 2876-2881.	0.4	410
2	Oocyte maturation: gamete-somatic cells interactions, meiotic resumption, cytoskeletal dynamics and cytoplasmic reorganization. Human Reproduction Update, 2015, 21, 427-454.	5.2	350
3	Cleavage kinetics analysis of human embryos predicts development to blastocyst and implantation. Reproductive BioMedicine Online, 2012, 25, 474-480.	1.1	215
4	Clinical outcome of oocyte cryopreservation after slow cooling with a protocol utilizing a high sucrose concentration. Human Reproduction, 2006, 21, 512-517.	0.4	196
5	Pregnancies and births after oocyte cryopreservation. Fertility and Sterility, 2004, 82, 601-605.	0.5	189
6	Revised guidelines for good practice in IVF laboratories (2015). Human Reproduction, 2016, 31, 685-686.	0.4	169
7	Polar body morphology and spindle imaging as predictors of oocyte quality. Reproductive BioMedicine Online, 2005, 11, 36-42.	1.1	161
8	What Criteria for the Definition of Oocyte Quality?. Annals of the New York Academy of Sciences, 2004, 1034, 132-144.	1.8	148
9	Differential sucrose concentration during dehydration (0.2 mol/l) and rehydration (0.3 mol/l) increases the implantation rate of frozen human oocytes. Reproductive BioMedicine Online, 2007, 14, 64-71.	1.1	134
10	Meiotic spindle imaging in human oocytes frozen with a slow freezing procedure involving high sucrose concentration. Human Reproduction, 2005, 20, 1078-1083.	0.4	121
11	Cumulative pregnancy rates resulting from the use of fresh and frozen oocytes: 7 yearsâ€™ experience. Reproductive BioMedicine Online, 2006, 12, 481-486.	1.1	103
12	Natriuretic Peptide Precursor C Delays Meiotic Resumption and Sustains Gap Junction-Mediated Communication in Bovine Cumulus-Enclosed Oocytes1. Biology of Reproduction, 2014, 91, 61.	1.2	103
13	Ultrastructure of human mature oocytes after slow cooling cryopreservation using different sucrose concentrationsâ€. Human Reproduction, 2007, 22, 1123-1133.	0.4	102
14	Meiotic spindle dynamics in human oocytes following slow-cooling cryopreservation. Human Reproduction, 2009, 24, 2114-2123.	0.4	98
15	Sucrose concentration influences the rate of human oocytes with normal spindle and chromosome configurations after slow-cooling cryopreservation*. Human Reproduction, 2006, 21, 1771-1776.	0.4	97
16	Good practice recommendations for the use of time-lapse technologyâ€. Human Reproduction Open, 2020, 2020, hoaa008.	2.3	97
17	Focused time-lapse analysis reveals novel aspects of human fertilization and suggests new parameters of embryo viability. Human Reproduction, 2018, 33, 23-31.	0.4	94
18	Predictive factors for embryo implantation potential. Reproductive BioMedicine Online, 2005, 10, 653-668.	1.1	85

#	Article	IF	Citations
19	Multicenter observational study on slow-cooling oocyte cryopreservation: clinical outcome. Fertility and Sterility, 2010, 94, 1662-1668.	0.5	82
20	Evidence-based clinical outcome of oocyte slow cooling. Reproductive BioMedicine Online, 2007, 15, 175-181.	1.1	81
21	Vitrification may increase the rate of chromosome misalignment in the metaphase II spindle of human mature oocytes. Reproductive BioMedicine Online, 2009, 19, 29-34.	1.1	81
22	Comparison of the obstetric and perinatal outcomes of children conceived from in vitro or in vivo matured oocytes in in vitro maturation treatments with births from conventional ICSI cycles. Human Reproduction, 2012, 27, 3601-3608.	0.4	78
23	Anomalies in sperm chromatin packaging: implications for assisted reproduction techniques. Reproductive BioMedicine Online, 2009, 18, 486-495.	1.1	76
24	Ultrastructural markers of quality in human mature oocytes vitrified using cryoleaf and cryoloop. Reproductive BioMedicine Online, 2009, 19, 17-27.	1.1	75
25	Characterization of the human cumulus cell transcriptome during final follicular maturation and ovulation. Molecular Human Reproduction, 2014, 20, 719-735.	1.3	68
26	ESHRE PGT Consortium and SIG Embryology good practice recommendations for polar body and embryo biopsy for PGTâ€. Human Reproduction Open, 2020, 2020, hoaa020.	2.3	68
27	Volume changes of mature human oocytes on exposure to cryoprotectant solutions used in slow cooling procedures. Human Reproduction, 2005, 20, 1194-1199.	0.4	65
28	Inhibition of Phosphoinositide Metabolism or Chelation of Intracellular Calcium Blocks FSH-Induced but Not Spontaneous Meiotic Resumption in Mouse Oocytes. Developmental Biology, 1998, 203, 201-209.	0.9	64
29	The current challenges to efficient immature oocyte cryopreservation. Journal of Assisted Reproduction and Genetics, 2013, 30, 1531-1539.	1.2	64
30	Ultrastructure of human mature oocytes after slow cooling cryopreservation with ethylene glycol. Reproductive BioMedicine Online, 2008, 17, 368-377.	1.1	58
31	Clinical Efficiency of Oocyte and Embryo Cryopreservation. Annals of the New York Academy of Sciences, 2008, 1127, 49-58.	1.8	56
32	Comparative analysis of the metaphase II spindle of human oocytes through polarized light and high-performance confocal microscopy. Fertility and Sterility, 2010, 93, 2056-2064.	0.5	56
33	Human oocyte maturation in vitro. International Journal of Developmental Biology, 2012, 56, 909-918.	0.3	55
34	Oocyte inÂvitro maturation in normo-ovulatory women. Fertility and Sterility, 2013, 99, 1162-1169.	0.5	54
35	The enigmatic morula: mechanisms of development, cell fate determination, self-correction and implications for ART. Human Reproduction Update, 2019, 25, 422-438.	5.2	53
36	Permeability of human oocytes to ethylene glycol and their survival and spindle configurations after slow cooling cryopreservation. Human Reproduction, 2007, 22, 2776-2783.	0.4	52

#	Article	IF	Citations
37	Plasticity of the human preimplantation embryo: developmental dogmas, variations on themes and self-correction. Human Reproduction Update, 2021, 27, 848-865.	5.2	51
38	Ultrastructure of human oocytes afterin vitromaturation. Molecular Human Reproduction, 2016, 22, 110-118.	1.3	50
39	Oocyte cryopreservation: a biological perspective. European Journal of Obstetrics, Gynecology and Reproductive Biology, 2004, 115, S2-S7.	0.5	49
40	Criteria to assess human oocyte quality after cryopreservation. Reproductive BioMedicine Online, 2005, 11, 421-427.	1.1	47
41	Mechanistic foundations of the metaphase II spindle of human oocytes matured in vivo and in vitro. Human Reproduction, 2013, 28, 3271-3282.	0.4	47
42	Objective evaluation of the viability of cryopreserved oocytes. Reproductive BioMedicine Online, 2007, 15, 338-345.	1.1	41
43	Truths and myths of oocyte sensitivity to controlled rate freezing. Reproductive BioMedicine Online, 2007, 15, 24-30.	1.1	41
44	Qualitative and morphometric analysis of the ultrastructure of human oocytes cryopreserved by two alternative slow cooling protocols. Journal of Assisted Reproduction and Genetics, 2010, 27, 131-140.	1.2	40
45	Half-dose depot triptorelin in pituitary suppression for multiple ovarian stimulation in assisted reproduction technology: a randomized study*. Human Reproduction, 2004, 19, 2200-2205.	0.4	37
46	Embryo transfer following in vitro maturation and cryopreservation of oocytes recovered from antral follicles during conservative surgery for ovarian cancer. Journal of Assisted Reproduction and Genetics, 2012, 29, 779-781.	1.2	37
47	Anti-mullerian hormone as a predictive marker for the selection of women for oocyte in vitro maturation treatment. Journal of Assisted Reproduction and Genetics, 2011, 28, 501-508.	1.2	34
48	Cumulus cell-oocyte complexes retrieved from antral follicles in IVM cycles: relationship between COCs morphology, gonadotropin priming and clinical outcome. Journal of Assisted Reproduction and Genetics, 2012, 29, 513-519.	1.2	32
49	Perturbations of morphogenesis at the compaction stage affect blastocyst implantation and live birth rates. Human Reproduction, 2021, 36, 918-928.	0.4	32
50	The subcortical maternal complex: emerging roles and novel perspectives. Molecular Human Reproduction, 2021, 27, .	1.3	32
51	Should we still perform fresh embryo transfers in ART?. Human Reproduction, 2019, 34, 2319-2329.	0.4	31
52	Alternative patterns of partial embryo compaction: prevalence, morphokinetic history and possible implications. Reproductive BioMedicine Online, 2020, 40, 347-354.	1.1	30
53	Freeze/thaw stress induces organelle remodeling and membrane recycling in cryopreserved human mature oocytes. Journal of Assisted Reproduction and Genetics, 2016, 33, 1559-1570.	1.2	28
54	Characterization, Expression, and Functional Activity of Pituitary Adenylate Cyclase-Activating Polypeptide and Its Receptors in Human Granulosa-Luteal Cells. Journal of Clinical Endocrinology and Metabolism, 2008, 93, 4924-4932.	1.8	27

#	Article	IF	Citations
55	Contributions of the actin cytoskeleton to the emergence of polarity during maturation in human oocytes. Molecular Human Reproduction, 2014, 20, 200-207.	1.3	27
56	Cumulative live birth rate in freeze-all cycles is comparable to that of a conventional embryo transfer policy at the cleavage stage but superior at the blastocyst stage. Fertility and Sterility, 2018, 110, 703-709.	0.5	27
57	Mouse oocyte meiotic resumption and polar body extrusion in vitro are differentially influenced by FSH, epidermal growth factor and meiosis-activating sterol. Human Reproduction, 2004, 19, 2913-2918.	0.4	25
58	Characterization of the miRNA regulators of the human ovulatory cascade. Scientific Reports, 2018, 8, 15605.	1.6	25
59	Influence of thyroid hormone on mouse preantral follicle development in vitro. Fertility and Sterility, 2004, 81, 919-924.	0.5	24
60	Male factor infertility impacts the rate of mosaic blastocysts in cycles of preimplantation genetic testing for aneuploidy. Journal of Assisted Reproduction and Genetics, 2019, 36, 2047-2055.	1.2	23
61	Cytoplasmic halo characteristics during fertilization and their implications for human preimplantation embryo development and pregnancy outcome. Reproductive BioMedicine Online, 2020, 41, 191-202.	1.1	23
62	IVM in need of clear definitions. Human Reproduction, 2016, 31, 1387-1389.	0.4	21
63	Dysmorphic patterns are associated with cytoskeletal alterations in human oocytes. Human Reproduction, 2017, 32, 1-8.	0.4	21
64	Cytoplasmic movements of the early human embryo: imaging and artificial intelligence to predict blastocyst development. Reproductive BioMedicine Online, 2021, 42, 521-528.	1.1	21
65	Theoretical and experimental basis of slow freezing. Reproductive BioMedicine Online, 2011, 22, 125-132.	1.1	20
66	The Efficacy and Safety of Human Oocyte Cryopreservation by Slow Cooling. Seminars in Reproductive Medicine, 2009, 27, 443-449.	0.5	19
67	A PolScope evaluation of meiotic spindle dynamics in frozenâ€“thawed oocytes. Reproductive BioMedicine Online, 2009, 19, 191-197.	1.1	17
68	Thyroid hormones T3 and T4 regulate human luteinized granulosa cells, counteracting apoptosis and promoting cell survival. Journal of Endocrinological Investigation, 2020, 43, 821-831.	1.8	17
69	Genetic causes of preimplantation embryo developmental failure. Molecular Reproduction and Development, 2021, 88, 338-348.	1.0	17
70	Clinical outcomes from mature oocytes derived from preovulatory and antral follicles: reflections on follicle physiology and oocyte competence. Journal of Assisted Reproduction and Genetics, 2015, 32, 255-261.	1.2	16
71	Does the molecular and metabolic profile of human granulosa cells correlate with oocyte fate? New insights by Fourier transform infrared microspectroscopy analysis. Molecular Human Reproduction, 2018, 24, 521-532.	1.3	15
72	The paternal toolbox for embryo development and health. Molecular Human Reproduction, 2021, 27, .	1.3	15

#	Article	IF	Citations
73	Double-strand DNA breaks and repair response in human immature oocytes and their relevance to meiotic resumption. Journal of Assisted Reproduction and Genetics, 2015, 32, 1509-1516.	1.2	14
74	Morphokinetics of embryos developed from oocytes matured in vitro. Journal of Assisted Reproduction and Genetics, 2016, 33, 247-253.	1.2	13
75	Retrospective analysis of treatments with recombinant FSH and recombinant LH versus human menopausal gonadotropin in women with reduced ovarian reserve. Journal of Assisted Reproduction and Genetics, 2017, 34, 1645-1651.	1.2	13
76	Sperm count affects cumulative birth rate of assisted reproduction cycles in relation to ovarian response. Journal of Assisted Reproduction and Genetics, 2020, 37, 1653-1659.	1.2	13
77	Does morphological assessment predict oocyte developmental competence? A systematic review and proposed score. Journal of Assisted Reproduction and Genetics, 2022, 39, 3-17.	1.2	13
78	Gonadotropin-releasing hormone antagonist linzagolix: possible treatment for assisted reproduction patients presenting with adenomyosis and endometriosis?. Fertility and Sterility, 2020, 114, 517-518.	0.5	12
79	Fertility technologies and how to optimize laboratory performance to support the shortening of time to birth of a healthy singleton: a Delphi consensus. Journal of Assisted Reproduction and Genetics, 2021, 38, 1021-1043.	1.2	12
80	Embryo morphokinetic score is associated with biomarkers of developmental competence and implantation. Journal of Assisted Reproduction and Genetics, 2021, 38, 1737-1743.	1.2	12
81	Spatiotemporal perturbations of pronuclear breakdown preceding syngamy affect early human embryo development: a retrospective observational study. Journal of Assisted Reproduction and Genetics, 2022, 39, 75-84.	1.2	12
82	Cryopreservation of human oocytes. Human Fertility, 2001, 4, 152-157.	0.7	11
83	Artificial Reproductive Technology Achievements for Optimizing Embryo Quality. Annals of the New York Academy of Sciences, 2004, 1034, 252-261.	1.8	11
84	The Histidinol Phosphate Phosphatase Involved in Histidine Biosynthetic Pathway Is Encoded by SCO5208 (hisN) in Streptomyces coelicolor A3(2). Current Microbiology, 2008, 56, 6-13.	1.0	10
85	Oocyte aging: looking beyond chromosome segregation errors. Journal of Assisted Reproduction and Genetics, 2022, 39, 793-800.	1.2	10
86	Outcome of cycles of oocyte inÂvitro maturation requiring testicular sperm extraction for nonobstructive azoospermia. Fertility and Sterility, 2011, 96, 321-323.	0.5	9
87	Polarization microscopy and rescue ICSI. Reproductive BioMedicine Online, 2013, 26, 222-223.	1.1	9
88	Oocyte quantity and quality are crucial for a perspective of fertility preservation in women with Turner syndrome. Fertility and Sterility, 2019, 111, 461-462.	0.5	9
89	Differential regulation of cumulus cell transcription during oocyte maturation in vivo and in vitro. International Journal of Developmental Biology, 2017, 61, 433-437.	0.3	7
90	Type of protein supplement in cryopreservation solutions impacts on the degree of ultrastructural damage in frozen-thawed human oocytes. Cryobiology, 2020, 95, 143-150.	0.3	7

#	Article	IF	Citations
91	Oocyte freezing: a positive comment based on our experience. Reproductive BioMedicine Online, 2003, 7, 120.	1.1	6
92	Fertilization and early developmental ability of cryopreserved human oocytes is not affected compared to sibling fresh oocytes. Fertility and Sterility, 2007, 88, S340.	0.5	6
93	Use of mineral oil in IVF culture systems: physico-chemical aspects, management, and safety. Journal of Assisted Reproduction and Genetics, 2022, 39, 883-892.	1.2	5
94	POSTER VIEWING SESSION - EMBRYOLOGY. Human Reproduction, 2011, 26, i160-i202.	0.4	4
95	Fertilization signatures as biomarkers of embryo quality. Human Reproduction, 2022, 37, 1704-1711.	0.4	4
96	Reprint of: Theoretical and experimental basis of slow freezing. Reproductive BioMedicine Online, 2011, 23, 290-297.	1.1	3
97	Efficacy of luteal phase support with GnRH agonists: a preliminary comparative study. Fertility and Sterility, 2013, 100, S299.	0.5	3
98	The Choreography of Fertilization. , 2013, , 289-306.		3
99	The slippery slope antedating syngamy: pronuclear activity in preparation for the first cleavage. Journal of Assisted Reproduction and Genetics, 2021, 38, 1721-1723.	1.2	3
100	Fine-tuning IVF laboratory key performance indicators of the Vienna consensus according to female age. Journal of Assisted Reproduction and Genetics, 2022, 39, 945-952.	1.2	2
101	IVM rescue in high responders patients at risk of OHSS. Fertility and Sterility, 2013, 100, S419.	0.5	1
102	Slow Freezing of Oocytes. , 2012, , 509-515.		1
103	Oocyte in vitro maturation*. Current Trends in Clinical Embriology, 0, , .	0.1	1
104	Effect of inhibition of phosphoinositide metabolism on follicle hormone-stimulated and spontaneous resumption of meiosis in mouse oocytes. Human Reproduction, 1998, 13, 285-285.	0.4	0
105	Cryopreservation of oocytes by slow cooling. , 2010, , 120-130.		0
106	Activity of maturation promoting factor and microtubule-activated protein kinase in frozen thawed human oocytes. Journal of Biological Research (Italy), 2010, 83, .	0.0	0
107	Time-lapse videomicroscopy as a tool to predict the development of human embryos to the blastocyst stage. Fertility and Sterility, 2011, 96, S108.	0.5	0
108	Comparative analysis of the obstetric and perinatal outcome of children born from oocyte in vitro maturation and controlled ovarian stimulation cycles. Fertility and Sterility, 2012, 98, S259.	0.5	0

#	Article	IF	Citations
109	Slow Freezing of Oocytes. , 2019, , 655-664.		0
110	Artificial neural-network analysis combined with time-lapse imaging predicts embryo ability to develop to the blastocyst stage. Fertility and Sterility, 2019, 112, e273-e274.	0.5	0
111	Importance of early and precise ascertainment of mosaic Turner syndrome for fertility preservation and assisted reproduction counseling. Fertility and Sterility, 2020, 114, 269-270.	0.5	0
112	The Association of Kinetic Variables with Blastocyst Development and Ploidy Status. Journal of Reproduction and Infertility, 2021, 22, 159-164.	1.0	0
113	Birth weight may affect male long-term reproductive fitness. Fertility and Sterility, 2021, 116, 659.	0.5	0
114	The human oocyte. , 2008, , 255-266.		0
115	SESSION 05: EARLY PREGNANCY. Human Reproduction, 2012, 27, ii9-ii11.	0.4	0
116	Slow Freezing of Oocytes. , 2013, , 467-476.		0
117	Preconceptional TSH and miscarriage in infertile women submitted to IVF. Endocrine Abstracts, 0, , .	0.0	0