

Alireza Fazeli

List of Publications by Year in descending order

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131
papers

3,897
citations

136950

32
h-index

138484

58
g-index

134
all docs

134
docs citations

134
times ranked

3541
citing authors

#	ARTICLE	IF	CITATIONS
1	Extracellular vesicle research in reproductive science: Paving the way for clinical achievements. <i>Biology of Reproduction</i> , 2022, 106, 408-424.	2.7	12
2	Profiling Blood Serum Extracellular Vesicles in Plaque Psoriasis and Psoriatic Arthritis Patients Reveals Potential Disease Biomarkers. <i>International Journal of Molecular Sciences</i> , 2022, 23, 4005.	4.1	4
3	The role of extracellular vesicles in endometrial receptivity and their potential in reproductive therapeutics and diagnosis. <i>Reproductive Biology</i> , 2022, 22, 100645.	1.9	9
4	Role of extracellular vesicles in intercellular communication during reproduction. <i>Reproduction in Domestic Animals</i> , 2022, 57, 14-21.	1.4	7
5	Oviduct as a sensor of embryo quality: deciphering the extracellular vesicle (EV)-mediated embryo-maternal dialogue. <i>Journal of Molecular Medicine</i> , 2021, 99, 685-697.	3.9	17
6	Use of Virus-Mimicking Nanoparticles to Investigate Early Infection Events in Upper Airway 3D Models. <i>Methods in Molecular Biology</i> , 2021, 2273, 131-138.	0.9	2
7	Isolation of Extracellular Vesicles (EVs) Using Size-Exclusion High-Performance Liquid Chromatography (SE-HPLC). <i>Methods in Molecular Biology</i> , 2021, 2273, 189-200.	0.9	0
8	Trophoblast derived extracellular vesicles specifically alter the transcriptome of endometrial cells and may constitute a critical component of embryo-maternal communication. <i>Reproductive Biology and Endocrinology</i> , 2021, 19, 115.	3.3	27
9	Sperm transport and male pregnancy in seahorses: An unusual model for reproductive science. <i>Animal Reproduction Science</i> , 2021, , 106854.	1.5	0
10	Isolation of Extracellular Vesicles (EVs) Using Benchtop Size Exclusion Chromatography (SEC) Columns. <i>Methods in Molecular Biology</i> , 2021, 2273, 201-206.	0.9	12
11	Measurement of the Size and Concentration and Zeta Potential of Extracellular Vesicles Using Nanoparticle Tracking Analyzer. <i>Methods in Molecular Biology</i> , 2021, 2273, 207-218.	0.9	9
12	Characterization of Extracellular Vesicles Labelled with a Lipophilic Dye Using Fluorescence Nanoparticle Tracking Analysis. <i>Membranes</i> , 2021, 11, 779.	3.0	3
13	Characteristics of gastric precancerous conditions and <i>Helicobacter pylori</i> infection among dyspeptic patients in north-eastern Iran: is endoscopic biopsy and histopathological assessment necessary?. <i>BMC Cancer</i> , 2021, 21, 1143.	2.6	4
14	Bovine Follicular Fluid Derived Extracellular Vesicles Modulate the Viability, Capacitation and Acrosome Reaction of Bull Spermatozoa. <i>Biology</i> , 2021, 10, 1154.	2.8	12
15	Potential innate immunity-related markers of endometrial receptivity and recurrent implantation failure (RIF). <i>Reproductive Biology</i> , 2021, 21, 100569.	1.9	7
16	Time-critical influences of gestational diet in a seahorse model of male pregnancy. <i>Journal of Experimental Biology</i> , 2020, 223, .	1.7	9
17	Premature birth stunts early growth and is a possible driver of stress-induced maternal effects in the guppy <i>Poecilia reticulata</i> . <i>Journal of Fish Biology</i> , 2020, 96, 506-515.	1.6	2
18	Bovine Follicular Fluid and Extracellular Vesicles Derived from Follicular Fluid Alter the Bovine Oviductal Epithelial Cells Transcriptome. <i>International Journal of Molecular Sciences</i> , 2020, 21, 5365.	4.1	19

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19	Spermatozoa induce transcriptomic alterations in bovine oviductal epithelial cells prior to initial contact. <i>Journal of Cell Communication and Signaling</i> , 2020, 14, 439-451.	3.4	7
20	Cellular, Extracellular and Extracellular Vesicular miRNA Profiles of Pre-Ovulatory Follicles Indicate Signaling Disturbances in Polycystic Ovaries. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9550.	4.1	17
21	Paternal effects in a wild-type zebrafish implicate a role of sperm-derived small RNAs. <i>Molecular Ecology</i> , 2020, 29, 2722-2735.	3.9	24
22	Zeta Potential of Extracellular Vesicles: Toward Understanding the Attributes that Determine Colloidal Stability. <i>ACS Omega</i> , 2020, 5, 16701-16710.	3.5	187
23	Individually cultured bovine embryos produce extracellular vesicles that have the potential to be used as non-invasive embryo quality markers. <i>Theriogenology</i> , 2020, 149, 104-116.	2.1	35
24	Efficient isolation, biophysical characterisation and molecular composition of extracellular vesicles secreted by primary and immortalised cells of reproductive origin. <i>Theriogenology</i> , 2019, 135, 121-137.	2.1	18
25	Specific trophoblast transcripts transferred by extracellular vesicles affect gene expression in endometrial epithelial cells and may have a role in embryo-maternal crosstalk. <i>Cell Communication and Signaling</i> , 2019, 17, 146.	6.5	34
26	Identification of an optimal method for extracting RNA from human skin biopsy, using domestic pig as a model system. <i>Scientific Reports</i> , 2019, 9, 20111.	3.3	12
27	Communication of prostate cancer cells with bone cells via extracellular vesicle RNA; a potential mechanism of metastasis. <i>Oncogene</i> , 2019, 38, 1751-1763.	5.9	61
28	Multicomponent Biomarker Approach Improves the Accuracy of Diagnostic Biomarkers for Psoriasis Vulgaris. <i>Acta Dermato-Venereologica</i> , 2019, 99, 1258-1265.	1.3	13
29	Sperm Transport and Selection in Mammals. , 2018, , .		0
30	Sex hormones alter the response of Toll-like receptor 3 to its specific ligand in fallopian tube epithelial cells. <i>Clinical and Experimental Reproductive Medicine</i> , 2018, 45, 154-162.	1.5	4
31	Variable localization of Toll-like receptors in human fallopian tube epithelial cells. <i>Clinical and Experimental Reproductive Medicine</i> , 2018, 45, 1-9.	1.5	7
32	Sperm Transport and Selection in Mammals. , 2018, , 269-275.		0
33	Understanding the dynamics of Toll-like Receptor 5 response to flagellin and its regulation by estradiol. <i>Scientific Reports</i> , 2017, 7, 40981.	3.3	13
34	Introduction: A Brief Guide to the Periconception Environment. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1014, 1-14.	1.6	2
35	Long-Term Effects of the Periconception Period on Embryo Epigenetic Profile and Phenotype: The Role of Stress and How This Effect Is Mediated. <i>Advances in Experimental Medicine and Biology</i> , 2017, 1014, 117-135.	1.6	7
36	Battle of the Sexes. , 2017, , 251-267.		3

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37	COST-Action GEMINI and EPICONCEPT: what we learned after 8 years?. <i>Animal Reproduction</i> , 2017, 14, 630-634.	1.0	0
38	Cross talk during the periconception period. <i>Theriogenology</i> , 2016, 86, 438-442.	2.1	16
39	An overview of boundary implementation in lattice Boltzmann method for computational heat and mass transfer. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 1-12.	5.6	40
40	Interleukin-1 receptor antagonist mediates toll-like receptor 3-induced inhibition of trophoblast adhesion to endometrial cells <i>in vitro</i> . <i>Human Reproduction</i> , 2016, 31, 2098-2107.	0.9	20
41	Embryonic developmental plasticity in the long-snouted seahorse (<i>Hippocampus reidi</i> , Ginsburg 1933) in relation to parental preconception diet. <i>Reproduction, Fertility and Development</i> , 2016, 28, 1020.	0.4	20
42	Sperm Storage in the Female Reproductive Tract. <i>Annual Review of Animal Biosciences</i> , 2016, 4, 291-310.	7.4	87
43	Sperm selection in the female mammalian reproductive tract. Focus on the oviduct: Hypotheses, mechanisms, and new opportunities. <i>Theriogenology</i> , 2016, 85, 105-112.	2.1	67
44	The Effect of Estradiol and Progesterone on Toll Like Receptor Gene Expression in A Human Fallopian Tube Epithelial Cell Line. <i>Cell Journal</i> , 2016, 17, 678-91.	0.2	17
45	Tribbles role in reproduction. <i>Biochemical Society Transactions</i> , 2015, 43, 1116-1121.	3.4	6
46	Epigenetics and periconception environment: an introduction. <i>Reproduction, Fertility and Development</i> , 2015, 27, iii.	0.4	4
47	Activation of Toll-like receptor 3 reduces actin polymerization and adhesion molecule expression in endometrial cells, a potential mechanism for viral-induced implantation failure. <i>Human Reproduction</i> , 2015, 30, 893-905.	0.9	23
48	Heat shock protein A8 stabilizes the bull sperm plasma membrane during cryopreservation: Effects of breed, protein concentration, and mode of use. <i>Theriogenology</i> , 2015, 84, 693-701.	2.1	29
49	Do sperm possess a molecular passport? Mechanistic insights into sperm selection in the female reproductive tract. <i>Molecular Human Reproduction</i> , 2015, 21, 491-501.	2.8	70
50	Proteomics of the periconception milieu. <i>Proteomics</i> , 2015, 15, 649-655.	2.2	6
51	122 SEX-SPECIFIC EFFECTS OF PARENTAL DIET DURING PREGNANCY ON EMBRYO DEVELOPMENT IN THE LONG SNOUT SEAHORSE (<i>HIPPOCAMPUS REIDI</i> ; GINSBURG, 1933). <i>Reproduction, Fertility and Development</i> , 2015, 27, 153.	0.4	1
52	Heat-shock protein A8 restores sperm membrane integrity by increasing plasma membrane fluidity. <i>Reproduction</i> , 2014, 147, 719-732.	2.6	40
53	An Introduction to Epigenetics as the Link Between Genotype and Environment: A Personal View. <i>Reproduction in Domestic Animals</i> , 2014, 49, 2-10.	1.4	19
54	Relationship between genome and epigenome - challenges and requirements for future research. <i>BMC Genomics</i> , 2014, 15, 487.	2.8	24

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55	Local Activation of Uterine Toll-Like Receptor 2 and 2/6 Decreases Embryo Implantation and Affects Uterine Receptivity in Mice. <i>Biology of Reproduction</i> , 2014, 90, 87.	2.7	12
56	The battle of the sexes starts in the oviduct: modulation of oviductal transcriptome by X and Y-bearing spermatozoa. <i>BMC Genomics</i> , 2014, 15, 293.	2.8	101
57	Effects of spermatozoaâ€™oviductal cell coinubation time and oviductal cell age on spermatozoaâ€™oviduct interactions. <i>Reproduction, Fertility and Development</i> , 2014, 26, 358.	0.4	9
58	The addition of heat shock protein HSPA8 to cryoprotective media improves the survival of brown bear (<i>Ursus arctos</i>) spermatozoa during chilling and after cryopreservation. <i>Theriogenology</i> , 2013, 79, 541-550.	2.1	20
59	Effect of a pre-freezing treatment with cholesterol-loaded cyclodextrins on boar sperm longevity, capacitation dynamics, ability to adhere to porcine oviductal epithelial cells in vitro and DNA fragmentation dynamics. <i>Reproduction, Fertility and Development</i> , 2013, 25, 935.	0.4	9
60	Human Trophoblast Cells Modulate Endometrial Cells Nuclear Factor κ B Response to Flagellin In Vitro. <i>PLoS ONE</i> , 2013, 8, e39441.	2.5	12
61	Constructing Complex 3D Biological Environments from Medical Imaging Using High Performance Computing. <i>IEEE/ACM Transactions on Computational Biology and Bioinformatics</i> , 2012, 9, 643-654.	3.0	5
62	The oviductal protein, heat-shock 70-kDa protein 8, improves the long-term survival of ram spermatozoa during storage at 17Â°C in a commercial extender. <i>Reproduction, Fertility and Development</i> , 2012, 24, 543.	0.4	27
63	Exploring the application of high-throughput genomics technologies in the field of maternal-embryo communication. <i>Theriogenology</i> , 2012, 77, 717-737.	2.1	6
64	Using computational modeling to investigate sperm navigation and behavior in the female reproductive tract. <i>Theriogenology</i> , 2012, 77, 703-716.	2.1	13
65	A review of current proteomics technologies with a survey on their widespread use in reproductive biology investigations. <i>Theriogenology</i> , 2012, 77, 738-765.e52.	2.1	73
66	Foreword. <i>Theriogenology</i> , 2012, 77, 701-702.	2.1	2
67	Characterisation of an in vitro system to study maternal communication with spermatozoa. <i>Reproduction, Fertility and Development</i> , 2012, 24, 988.	0.4	8
68	Early Developing Pig Embryos Mediate Their Own Environment in the Maternal Tract. <i>PLoS ONE</i> , 2012, 7, e33625.	2.5	70
69	Antioxidant combinations are no more beneficial than individual components in combating ram sperm oxidative stress during storage at 5Â°C. <i>Animal Reproduction Science</i> , 2011, 129, 180-187.	1.5	13
70	Computational modelling of maternal interactions with spermatozoa: potentials and prospects. <i>Reproduction, Fertility and Development</i> , 2011, 23, 976.	0.4	5
71	Effects of Complement Component 3 Derivatives on Pig Oocyte Maturation, Fertilization and Early Embryo Development <i>In Vitro</i> . <i>Reproduction in Domestic Animals</i> , 2011, 46, 1017-1021.	1.4	17
72	Maternal Communication with Gametes and Embryo: A Personal Opinion. <i>Reproduction in Domestic Animals</i> , 2011, 46, 75-78.	1.4	9

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73	Modelling sperm behaviour in a 3D environment. , 2011, , .		6
74	Altered patterns of differentiation in karyotypically abnormal human embryonic stem cells. International Journal of Developmental Biology, 2011, 55, 175-180.	0.6	34
75	The oviduct as a complex mediator of mammalian sperm function and selection. Molecular Reproduction and Development, 2010, 77, 934-943.	2.0	119
76	Expression and function of Toll-like receptors in human endometrial epithelial cell lines. Journal of Reproductive Immunology, 2010, 84, 41-51.	1.9	39
77	Activation of Toll-like receptor 5 decreases the attachment of human trophoblast cells to endometrial cells in vitro. Human Reproduction, 2010, 25, 2217-2228.	0.9	28
78	Using the GPU and Multi-core CPU to Generate a 3D Oviduct through Feature Extraction from Histology Slides. , 2010, , .		0
79	Nuclear Proteome Dynamics in Differentiating Embryonic Carcinoma (NTERA-2) Cells. Journal of Proteome Research, 2010, 9, 3412-3426.	3.7	9
80	Modeling the interaction of gametes and embryos with the maternal genital tract: From in vivo to in silico. Theriogenology, 2010, 73, 828-837.	2.1	15
81	Preface. Theriogenology, 2010, 73, 711-712.	2.1	0
82	In vitro post-meiotic germ cell development from human embryonic stem cells. Human Reproduction, 2009, 24, 3150-3159.	0.9	134
83	Effects of oviductal proteins, including heat shock 70 kDa protein 8, on survival of ram spermatozoa over 48 h in vitro. Reproduction, Fertility and Development, 2009, 21, 408.	0.4	46
84	Effects of HSPA8, an evolutionarily conserved oviductal protein, on boar and bull spermatozoa. Reproduction, 2009, 137, 191-203.	2.6	89
85	Proteomics Analysis of Epithelial Cells Reprogrammed in Cell-free Extract. Molecular and Cellular Proteomics, 2009, 8, 1401-1412.	3.8	7
86	12th International Congress on Animal Reproduction The Hague, The Netherlands 23-27 August 1992. Andrologia, 2009, 23, 296-296.	2.1	0
87	The Virtual Oviduct: An Essential Tool for the Application of Computational Biology Approaches to Investigation of Maternal Interaction with Gametes and Embryo.. Biology of Reproduction, 2009, 81, 299-299.	2.7	0
88	Toll-like receptors in female reproductive tract and their menstrual cycle dependent expression. Journal of Reproductive Immunology, 2008, 77, 7-13.	1.9	69
89	Maternal communication with gametes and embryos. Theriogenology, 2008, 70, 1182-1187.	2.1	41
90	Oviductal Cell Proteome Alterations during the Reproductive Cycle in Pigs. Journal of Proteome Research, 2008, 7, 2825-2833.	3.7	53

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91	Maternal communication with gametes and embryos: a complex interactome. Briefings in Functional Genomics & Proteomics, 2008, 7, 111-118.	3.8	23
92	Temporal dynamics of ram sperm binding and survival during 48-h coculture with oviducal epithelial cells. Reproduction, Fertility and Development, 2008, 20, 835.	0.4	9
93	Sex Hormones Enhance TLR3 Response to Its Specific Ligand in Human Fallopian Tube Epithelial Cells.. Biology of Reproduction, 2008, 78, 197-197.	2.7	0
94	Localization and variable expression of GÎ±2 in human endometrium and Fallopian tubes. Human Reproduction, 2007, 22, 1224-1230.	0.9	12
95	Menstrual cycle-dependent changes of Toll-like receptors in endometrium. Human Reproduction, 2007, 22, 586-593.	0.9	108
96	Hormonal regulation of GÎ±2 and mPRÎ± in immortalized human oviductal cell line OE-E6/E7. Molecular Human Reproduction, 2007, 13, 845-851.	2.8	22
97	Proteome Analysis of Sulfolobus solfataricus P2 Propanol Metabolism. Journal of Proteome Research, 2007, 6, 1430-1439.	3.7	19
98	Proteome and Transcriptional Analysis of Ethanol-Grown <i>Sulfolobus solfataricus</i> P2 Reveals ADH2, a Potential Alcohol Dehydrogenase. Journal of Proteome Research, 2007, 6, 3985-3994.	3.7	13
99	Modulation of The Oviductal Environment by Gametes. Journal of Proteome Research, 2007, 6, 4656-4666.	3.7	132
100	Translational and transcriptional analysis of <i>Sulfolobus solfataricus</i> P2 to provide insights into alcohol and ketone utilisation. Proteomics, 2007, 7, 424-435.	2.2	21
101	Contents: Proteomics 10/2007. Proteomics, 2007, 7, NA-NA.	2.2	0
102	Global Profiling of Surface Plasma Membrane Proteome of Oviductal Epithelial Cells. Journal of Proteome Research, 2006, 5, 3029-3037.	3.7	55
103	Expression of toll-like receptors in endometrium during the menstrual cycle. Journal of Reproductive Immunology, 2006, 71, 152.	1.9	1
104	Characterization of Toll-like receptors in the female reproductive tract in humans. Human Reproduction, 2005, 20, 1372-1378.	0.9	221
105	Gametes Alter the Oviductal Secretory Proteome. Molecular and Cellular Proteomics, 2005, 4, 1785-1796.	3.8	133
106	Validation of an experimental strategy for studying surface-exposed proteins involved in porcine sperm - oviduct contact interactions. Reproduction, Fertility and Development, 2005, 17, 683.	0.4	18
107	Effects of cryo-injury on progesterone receptor(s) of canine spermatozoa and its response to progesterone. Theriogenology, 2005, 64, 844-854.	2.1	15
108	264 PORCINE SPERM-HEAD RECEPTOR INTERACTION WITH PROTEINS PERIPHERALLY BOUND TO THE OVIDUCTAL LUMEN. Reproduction, Fertility and Development, 2005, 17, 282.	0.4	0

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109	293. Gametes alter the oviductal secretory proteome in vivo. <i>Reproduction, Fertility and Development</i> , 2005, 17, 124.	0.4	0
110	Sperm-Induced Modification of the Oviductal Gene Expression Profile After Natural Insemination in Mice1. <i>Biology of Reproduction</i> , 2004, 71, 60-65.	2.7	147
111	In vitro maintenance of boar sperm viability by a soluble fraction obtained from oviductal apical plasma membrane preparations. <i>Reproduction</i> , 2003, 125, 509-517.	2.6	51
112	A probabilistic model for the extraction of expression levels from oligonucleotide arrays. <i>Biochemical Society Transactions</i> , 2003, 31, 1510-1512.	3.4	30
113	Progesterone in mare follicular fluid induces the acrosome reaction in stallion spermatozoa and enhances in vitro binding to the zona pellucida. <i>Journal of Developmental and Physical Disabilities</i> , 2002, 21, 57-66.	3.6	39
114	Carbohydrate mediation of boar sperm binding to oviductal epithelial cells in vitro. <i>Reproduction</i> , 2001, 122, 305-315.	2.6	89
115	British Andrology Society Workshop: Sperm interactions with epithelia and their products. <i>Human Fertility</i> , 2000, 3, 166-171.	1.7	2
116	Sperm-Oviduct Interaction: Induction of Capacitation and Preferential Binding of Uncapacitated Spermatozoa to Oviductal Epithelial Cells in Porcine Species1. <i>Biology of Reproduction</i> , 1999, 60, 879-886.	2.7	177
117	Inhibition of Boar Sperm Binding to Homologous Zona Pellucida by Antibodies against ZP3 ^{1±} and ZP3 ¹² Glycoproteins. <i>Reproduction in Domestic Animals</i> , 1998, 33, 21-25.	1.4	3
118	Progesterone-Induced Acrosome Reaction in Stallion Spermatozoa Is Mediated by a Plasma Membrane Progesterone Receptor. <i>Biology of Reproduction</i> , 1998, 59, 733-742.	2.7	86
119	Acrosome-Intact Boar Spermatozoa Initiate Binding to the Homologous Zona Pellucida in Vitro1. <i>Biology of Reproduction</i> , 1997, 56, 430-438.	2.7	96
120	Influence of thawing method on motility, plasma membrane integrity and morphology of frozen-thawed stallion spermatozoa. <i>Theriogenology</i> , 1997, 48, 531-536.	2.1	17
121	Relationship between sperm-zona pellucida binding assays and the 56-day nonreturn rate of cattle inseminated with frozen-thawed bull semen. <i>Theriogenology</i> , 1997, 48, 853-863.	2.1	31
122	THE HEMIZONA ASSAY: EVALUATION OF SPERM ZONA PELLUCIDA INTERACTION. <i>Reproduction in Domestic Animals</i> , 1995, 31, 113-118.	1.4	2
123	INHIBITION OF PORCINE SPERM BINDING TO HOMOLOGOUS ZONA PELLUCIDA USING HEMIZONA ASSAY and ANTIBODIES AGAINST ZONA PELLUCIDA PROTEINS. <i>Reproduction in Domestic Animals</i> , 1995, 31, 233-234.	1.4	0
124	Development of a sperm Hemizona binding assay for boar semen. <i>Theriogenology</i> , 1995, 44, 17-27.	2.1	27
125	Relation between stallion sperm binding to homologous hemizonae and fertility. <i>Theriogenology</i> , 1995, 44, 751-760.	2.1	32
126	Use of sperm binding to homologous hemizona pellucida to predict stallion fertility. <i>Equine Veterinary Journal</i> , 1993, 25, 57-59.	1.7	4

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127	Repeated transvaginal ultrasoundâ€guided follicle aspiration in the mare. <i>Equine Veterinary Journal</i> , 1993, 25, 75-78.	1.7	8
128	Development of a sperm zona pellucida binding assay for bull semen. <i>Veterinary Record</i> , 1993, 132, 14-16.	0.3	63
129	Characterisation of extracellular vesicles produced by the Porcine oviductal epithelial cells using size exclusion chromatography. <i>Reproduction Abstracts</i> , 0, , .	0.0	0
130	Investigating of the role of Tribbles-2 protein in mammalian embryo implantation. <i>Reproduction Abstracts</i> , 0, , .	0.0	0
131	Brief exposures to conspecific-derived alarm substance are sufficient to induce paternal intergenerational effects in zebrafish. <i>Environmental Biology of Fishes</i> , 0, , .	1.0	0