

# Abbas Piryaei

## List of Publications by Year in descending order

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95  
papers

2,016  
citations

218662

26  
h-index

315719

38  
g-index

100  
all docs

100  
docs citations

100  
times ranked

3071  
citing authors

#	ARTICLE	IF	CITATIONS
1	Differentiation of Bone Marrow-derived Mesenchymal Stem Cells into Hepatocyte-like Cells on Nanofibers and Their Transplantation into a Carbon Tetrachloride-Induced Liver Fibrosis Model. <i>Stem Cell Reviews and Reports</i> , 2011, 7, 103-118.	5.6	113
2	Mesenchymal stem cell infusion therapy in a carbon tetrachloride-induced liver fibrosis model affects matrix metalloproteinase expression. <i>Cell Biology International</i> , 2010, 34, 601-605.	3.0	93
3	Three-dimensional liver-derived extracellular matrix hydrogel promotes liver organoids function. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 4320-4333.	2.6	90
4	Effect of Secreted Molecules of Human Embryonic Stem Cell-Derived Mesenchymal Stem Cells on Acute Hepatic Failure Model. <i>Stem Cells and Development</i> , 2016, 25, 1898-1908.	2.1	62
5	Tissue Engineering in Liver Regenerative Medicine: Insights into Novel Translational Technologies. <i>Cells</i> , 2020, 9, 304.	4.1	62
6	A Fresh Look at the Male-specific Region of the Human Y Chromosome. <i>Journal of Proteome Research</i> , 2013, 12, 6-22.	3.7	52
7	Human mesenchymal stem cells-conditioned medium improves diabetic wound healing mainly through modulating fibroblast behaviors. <i>Archives of Dermatological Research</i> , 2020, 312, 325-336.	1.9	49
8	Molecular and ultrastructural characterization of endothelial cells differentiated from human bone marrow mesenchymal stem cells. <i>Cell Biology International</i> , 2008, 32, 1183-1192.	3.0	47
9	Proliferation of small number of human spermatogonial stem cells obtained from azoospermic patients. <i>Journal of Assisted Reproduction and Genetics</i> , 2012, 29, 957-967.	2.5	47
10	Introducing a rat model of prenatal androgen-induced polycystic ovary syndrome in adulthood. <i>Experimental Physiology</i> , 2014, 99, 792-801.	2.0	46
11	The effect of vitrification on ultrastructure of human in vitro matured germinal vesicle oocytes. <i>European Journal of Obstetrics, Gynecology and Reproductive Biology</i> , 2013, 167, 69-75.	1.1	43
12	Efficient and cost-effective generation of hepatocyte-like cells through microparticle-mediated delivery of growth factors in a 3D culture of human pluripotent stem cells. <i>Biomaterials</i> , 2018, 159, 174-188.	11.4	41
13	Effect of L-carnitine supplementation on maturation and early embryo development of immature mouse oocytes selected by brilliant cresyle blue staining. <i>Journal of Assisted Reproduction and Genetics</i> , 2015, 32, 635-643.	2.5	38
14	Organoid technology in female reproductive biomedicine. <i>Reproductive Biology and Endocrinology</i> , 2020, 18, 64.	3.3	37
15	Isoform-Level Gene Expression Profiles of Human Y Chromosome Azoospermia Factor Genes and Their X Chromosome Paralogs in the Testicular Tissue of Non-Obstructive Azoospermia Patients. <i>Journal of Proteome Research</i> , 2015, 14, 3595-3605.	3.7	35
16	The Effect of Combined Pulsed Wave Low-Level Laser Therapy and Human Bone Marrow Mesenchymal Stem Cell-Conditioned Medium on Open Skin Wound Healing in Diabetic Rats. <i>Photomedicine and Laser Surgery</i> , 2016, 34, 345-354.	2.0	35
17	Bioceramic-collagen scaffolds loaded with human adipose-tissue derived stem cells for bone tissue engineering. <i>Molecular Biology Reports</i> , 2014, 41, 741-749.	2.3	34
18	Intracytoplasmic oxidative stress reverses epigenetic modifications in polycystic ovary syndrome. <i>Reproduction, Fertility and Development</i> , 2017, 29, 2313.	0.4	34

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19	COVID-19 disrupts spermatogenesis through the oxidative stress pathway following induction of apoptosis. <i>Apoptosis: an International Journal on Programmed Cell Death</i> , 2021, 26, 415-430.	4.9	34
20	Effects of Photobiomodulation on Degranulation and Number of Mast Cells and Wound Strength in Skin Wound Healing of Streptozotocin-Induced Diabetic Rats. <i>Photomedicine and Laser Surgery</i> , 2018, 36, 415-423.	2.0	32
21	Human Bone Marrow Mesenchymal Stem Cell Conditioned Medium Promotes Wound Healing in Deep Second-Degree Burns in Male Rats. <i>Cells Tissues Organs</i> , 2018, 206, 317-329.	2.3	31
22	Insight into epigenetics of human endometriosis organoids: DNA methylation analysis of HOX genes and their cofactors. <i>Fertility and Sterility</i> , 2021, 115, 125-137.	1.0	31
23	The Time of Prenatal Androgen Exposure Affects Development of Polycystic Ovary Syndrome-Like Phenotype in Adulthood in Female Rats. <i>International Journal of Endocrinology and Metabolism</i> , 2014, 12, e16502.	1.0	30
24	The effect of combined pulsed wave low-level laser therapy and mesenchymal stem cell-conditioned medium on the healing of an infected wound with methicillin-resistant <i>Staphylococcus aureus</i> in diabetic rats. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 5788-5797.	2.6	30
25	Bone marrow or adipose tissue mesenchymal stem cells: Comparison of the therapeutic potentials in mice model of acute liver failure. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 5834-5842.	2.6	30
26	Ultrastructural comparison of developing mouse embryonic stem cell- and in vivo-derived cardiomyocytes. <i>Cell Biology International</i> , 2006, 30, 800-807.	3.0	29
27	Improvement of oocyte in vitro maturation from mice with polycystic ovary syndrome by human mesenchymal stromal cell-conditioned media. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 10365-10375.	2.6	28
28	Galactosylated collagen matrix enhanced in vitro maturation of human embryonic stem cell-derived hepatocyte-like cells. <i>Biotechnology Letters</i> , 2014, 36, 1095-1106.	2.2	27
29	Effect of low-level laser therapy and oxytocin on osteoporotic bone marrow-derived mesenchymal stem cells. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 983-997.	2.6	27
30	Prenatal Testosterone Exposure Worsen the Reproductive Performance of Male Rat at Adulthood. <i>PLoS ONE</i> , 2013, 8, e71705.	2.5	25
31	Effect of Low-Level Laser Therapy on Skin Fibroblasts of Streptozotocin-Diabetic Rats. <i>Photomedicine and Laser Surgery</i> , 2007, 25, 519-525.	2.0	24
32	Combined effects of rat Schwann cells and 17 $\beta$ -estradiol in a spinal cord injury model. <i>Metabolic Brain Disease</i> , 2018, 33, 1229-1242.	2.9	24
33	Potential applications of sheep oocytes as affected by vitrification and in vitro aging. <i>Theriogenology</i> , 2012, 77, 1741-1753.	2.1	22
34	Thymoquinone reduces intracytoplasmic oxidative stress and improves epigenetic modification in polycystic ovary syndrome mice oocytes, during in vitro maturation. <i>Molecular Reproduction and Development</i> , 2019, 86, 1053-1066.	2.0	22
35	Cardiac extracellular matrix hydrogel together with or without inducer cocktail improves human adipose tissue-derived stem cells differentiation into cardiomyocyte-like cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 502, 215-225.	2.1	21
36	Mesenchymal stem cells as an alternative for Schwann cells in rat spinal cord injury. <i>Iranian Biomedical Journal</i> , 2013, 17, 113-22.	0.7	21

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37	Transplantation of schwann cells differentiated from adipose stem cells improves functional recovery in rat spinal cord injury. <i>Archives of Iranian Medicine</i> , 2013, 16, 533-41.	0.6	21
38	Repeated versus single transplantation of mesenchymal stem cells in carbon tetrachloride-induced liver injury in mice. <i>Cell Biology International</i> , 2013, 37, 340-7.	3.0	20
39	Effect of long-term nitrite administration on browning of white adipose tissue in type 2 diabetic rats: A stereological study. <i>Life Sciences</i> , 2018, 207, 219-226.	4.3	20
40	Engraftment of bioengineered three-dimensional scaffold from human amniotic membrane-derived extracellular matrix accelerates ischemic diabetic wound healing. <i>Archives of Dermatological Research</i> , 2021, 313, 567-582.	1.9	20
41	SDF-1 $\beta$ loaded bioengineered human amniotic membrane-derived scaffold transplantation in combination with hyperbaric oxygen improved diabetic wound healing. <i>Journal of Bioscience and Bioengineering</i> , 2022, 133, 489-501.	2.2	20
42	Effect of Artificial Oocyte Activation on Intra-Cytoplasmic Sperm Injection Outcomes in Patients with Lower Percentage of Sperm Containing Phospholipase C $\beta$ : A Randomized Clinical Trial. <i>Journal of Reproduction and Infertility</i> , 2019, 20, 3-9.	1.0	19
43	Low-level laser therapy with helium-neon laser improved viability of osteoporotic bone marrow-derived mesenchymal stem cells from ovariectomy-induced osteoporotic rats. <i>Journal of Biomedical Optics</i> , 2016, 21, 098002.	2.6	18
44	Combined effects of low-level laser therapy and human bone marrow mesenchymal stem cell conditioned medium on viability of human dermal fibroblasts cultured in a high-glucose medium. <i>Lasers in Medical Science</i> , 2016, 31, 749-757.	2.1	18
45	Hyperthermia versus busulfan: Finding the effective method in animal model of azoospermia induction. <i>Andrologia</i> , 2019, 51, e13438.	2.1	18
46	Differentiation of spermatogonial stem cells by soft agar three-dimensional culture system. <i>Artificial Cells, Nanomedicine and Biotechnology</i> , 2019, 47, 1772-1781.	2.8	18
47	Ultrastructural maturation of human bone marrow mesenchymal stem cells-derived cardiomyocytes under alternative induction of 5-azacytidine. <i>Cell Biology International</i> , 2015, 39, 519-530.	3.0	17
48	Targeting axonal degeneration and demyelination using combination administration of 17 $\beta$ -estradiol and Schwann cells in the rat model of spinal cord injury. <i>Journal of Cellular Biochemistry</i> , 2018, 119, 10195-10203.	2.6	17
49	Photobiomodulation therapy improves the growth factor and cytokine secretory profile in human type 2 diabetic fibroblasts. <i>Journal of Photochemistry and Photobiology B: Biology</i> , 2020, 210, 111962.	3.8	17
50	Transplantation of human dental pulp stem cells compensates for striatal atrophy and modulates neuro-inflammation in 3-nitropropionic acid rat model of Huntington's disease. <i>Neuroscience Research</i> , 2021, 170, 133-144.	1.9	16
51	Rhenium Perrhenate (188ReO <sub>4</sub> ) Induced Apoptosis and Reduced Cancerous Phenotype in Liver Cancer Cells. <i>Cells</i> , 2022, 11, 305.	4.1	15
52	Tissue-Specific Microparticles Improve Organoid Microenvironment for Efficient Maturation of Pluripotent Stem-Cell-Derived Hepatocytes. <i>Cells</i> , 2021, 10, 1274.	4.1	14
53	Disturbed progesterone signalling in an advanced preclinical model of endometriosis. <i>Reproductive BioMedicine Online</i> , 2021, 43, 139-147.	2.4	13
54	Bone Marrow Mesenchymal Stem Cell Condition Medium Loaded on PCL Nanofibrous Scaffold Promoted Nerve Regeneration After Sciatic Nerve Transection in Male Rats. <i>Neurotoxicity Research</i> , 2021, 39, 1470-1486.	2.7	13

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55	The effect of 30-day pretreatment with pentoxifylline on the survival of a random skin flap in the rat: an ultrastructural and biomechanical evaluation. <i>Medical Science Monitor</i> , 2006, 12, BR201-7.	1.1	13
56	Effects of fetal hypothyroidism on uterine smooth muscle contraction and structure of offspring rats. <i>Experimental Physiology</i> , 2018, 103, 683-692.	2.0	12
57	Generation of Transplantable Three-Dimensional Hepatic-Patch to Improve the Functionality of Hepatic Cells In Vitro and In Vivo. <i>Stem Cells and Development</i> , 2020, 29, 301-313.	2.1	12
58	Improved healing of critical-size femoral defect in osteoporosis rat models using 3D elastin/polycaprolactone/nHA scaffold in combination with mesenchymal stem cells. <i>Journal of Materials Science: Materials in Medicine</i> , 2021, 32, 27.	3.6	12
59	Phospholipase C zeta parameters in sperm from polymorphic teratozoospermic men. <i>Annals of Anatomy</i> , 2018, 215, 63-70.	1.9	11
60	Chronic scrotal hyperthermia induces azoospermia and severe damage to testicular tissue in mice. <i>Acta Histochemica</i> , 2021, 123, 151712.	1.8	11
61	The Effects of Insulin-Like Growth Factor-1 Gene Therapy and Cell Transplantation on Rat Acute Wound Model. <i>Iranian Red Crescent Medical Journal</i> , 2014, 16, e16323.	0.5	10
62	Induced premature ovarian insufficiency by using D galactose and its effects on reproductive profiles in small laboratory animals: a systematic review. <i>Journal of Ovarian Research</i> , 2019, 12, 96.	3.0	9
63	Photobiomodulation therapy compensate the impairments of diabetic bone marrow mesenchymal stem cells. <i>Lasers in Medical Science</i> , 2020, 35, 547-556.	2.1	9
64	Generation of Scalable Hepatic Micro-Tissues as a Platform for Toxicological Studies. <i>Tissue Engineering and Regenerative Medicine</i> , 2020, 17, 459-475.	3.7	9
65	Adipose Derived Stem Cells Conditioned Media in Combination with Bioceramic-Collagen Scaffolds Improved Calvarial Bone Healing in Hypothyroid Rats. <i>Iranian Red Crescent Medical Journal</i> , 2017, 19, .	0.5	9
66	Focal Injection of Ethidium Bromide as a Simple Model to Study Cognitive Deficit and Its Improvement. <i>Basic and Clinical Neuroscience</i> , 2016, 7, 63-72.	0.6	9
67	Evaluation of PAWP and PLC $\zeta$ Expression in Infertile Men with Previous ICSI Fertilization Failure. <i>Urology Journal</i> , 2018, 15, 116-121.	0.4	9
68	Hemodynamic properties and arterial structure in male rat offspring with fetal hypothyroidism. <i>General Physiology and Biophysics</i> , 2016, 35, 397-405.	0.9	8
69	Improvement of in situ Follicular Activation and Early Development in Cryopreserved Human Ovarian Cortical Tissue by Co-Culturing with Mesenchymal Stem Cells. <i>Cells Tissues Organs</i> , 2019, 208, 48-58.	2.3	8
70	Oligoasthenoteratozoospermic (OAT) men display altered phospholipase C $\zeta$ (PLC $\zeta$ ) localization and a lower percentage of sperm cells expressing PLC $\zeta$ and post-acrosomal sheath WW domain-binding protein (PAWP). <i>Bosnian Journal of Basic Medical Sciences</i> , 2018, 18, 178-184.	1.0	8
71	Effects of pentoxifylline administration on histomorphological parameters of streptozotocin-induced diabetic rat testes. <i>Laboratory Animal Research</i> , 2015, 31, 111.	2.5	7
72	Peripheral axotomy-induced changes of motor function and histological structure of spinal anterior horn. <i>European Journal of Translational Myology</i> , 2019, 29, 7945.	1.7	7

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73	Functional dopaminergic neurons derived from human chorionic mesenchymal stem cells ameliorate striatal atrophy and improve behavioral deficits in Parkinsonian rat model. <i>Anatomical Record</i> , 2020, 303, 2274-2289.	1.4	7
74	Neural differentiation of choroid plexus epithelial cells: role of human traumatic cerebrospinal fluid. <i>Neural Regeneration Research</i> , 2017, 12, 84.	3.0	7
75	Conditioned Media Derived from Human Adipose Tissue Mesenchymal Stromal Cells Improves Primary Hepatocyte Maintenance. <i>Cell Journal</i> , 2018, 20, 377-387.	0.2	6
76	Effect of low-frequency stimulation on kindling induced changes in rat dentate gyrus: an ultrastructural study. <i>Acta Neurologica Belgica</i> , 2014, 114, 47-53.	1.1	5
77	Biofabrication of size-controlled liver microtissues incorporated with ECM-derived microparticles to prolong hepatocyte function. <i>Bio-Design and Manufacturing</i> , 2021, 4, 790-805.	7.7	5
78	In vitro modeling of liver fibrosis in 3D microtissues using scalable micropatterning system. <i>Archives of Toxicology</i> , 2022, 96, 1799-1813.	4.2	5
79	Derivation of hormone-responsive human endometrial organoids and stromal cells from cryopreserved biopsies. <i>Experimental Cell Research</i> , 2022, 417, 113205.	2.6	5
80	The ability of mouse nuclear transfer embryonic stem cells to differentiate into primordial germ cells. <i>Genetics and Molecular Biology</i> , 2015, 38, 220-226.	1.3	4
81	Different approaches to establish infertile rooster. <i>Animal Reproduction Science</i> , 2017, 186, 31-36.	1.5	4
82	Quercetin improves developmental competence of mouse oocytes by reducing oxidative stress during in vitro maturation. <i>Annals of Animal Science</i> , 2018, 18, 87-98.	1.6	4
83	Protective Effects of Fisetin in the Mice Induced by Long-Term Scrotal Hyperthermia. <i>Reproductive Sciences</i> , 2021, 28, 3123-3136.	2.5	4
84	Hepatic stellate cell activation by TGF $\beta$ <sup>2</sup> induces hedgehog signaling and endoplasmic reticulum stress simultaneously. <i>Toxicology in Vitro</i> , 2022, 80, 105315.	2.4	4
85	Athletesâ€™ Mesenchymal Stem Cells Could Be the Best Choice for Cell Therapy in Omicron-Infected Patients. <i>Cells</i> , 2022, 11, 1926.	4.1	4
86	Prenatal liver stromal cells: Favorable feeder cells for long-term culture of hepatic progenitor cells. <i>Journal of Cellular Biochemistry</i> , 2019, 120, 16624-16633.	2.6	3
87	An effective method for establishing animal models of azoospermia and oligospermia. <i>Andrologia</i> , 2021, 53, e14095.	2.1	3
88	Nigral injection of 6-hydroxydopamine induces changes in spatial arrangement of striatal neuron and glial cells. <i>Frontiers in Bioscience - Scholar</i> , 2019, 11, 1-8.	2.1	3
89	A simple method for generating small calcium-alginate beads by syringe. <i>Journal of Histotechnology</i> , 2014, 37, 132-137.	0.5	2
90	Association between increased expression of endothelial isoform of nitric oxide synthase in the human fallopian tube and tubal ectopic pregnancy. <i>Iranian Journal of Reproductive Medicine</i> , 2014, 12, 19-28.	0.8	2

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91	Maternal Exposure to D-galactose Reduces Ovarian Reserve in Female Rat Offspring Later in Life. International Journal of Endocrinology and Metabolism, 2022, 20, .	1.0	2
92	The effects of testosterone intrauterine disturbance on sperm quality and testis tissue in male rat's offspring after puberty. Iranian South Medical Journal, 2016, 19, 372-384.	0.1	1
93	Culture strategy as a modulator of target assessments: Functionality of suspension versus hanging drop-derived choriocarcinoma spheroids as in vitro model of embryo implantation. Journal of Cellular Biochemistry, 2021, 122, 1192-1206.	2.6	0
94	Adipose-Derived Stem Cells Conditioned Media Promote In Vitro Osteogenic Differentiation of Hypothyroid Mesenchymal Stem Cells. Gene, Cell and Tissue, 2020, 7, .	0.2	0
95	Immunohistochemical Analysis of LGR5 and TROY Expression in Gastric Carcinogenesis Demonstrates an Inverse Trend. Iranian Biomedical Journal, 2019, 23, 107-20.	0.7	0