

# Keith Jarvi

## List of Publications by Year in descending order

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104  
papers

4,368  
citations

94433

37  
h-index

118850

62  
g-index

109  
all docs

109  
docs citations

109  
times ranked

4094  
citing authors

#	ARTICLE	IF	CITATIONS
1	Varicocele and Male Factor Infertility Treatment: A New Meta-analysis and Review of the Role of Varicocele Repair. <i>European Urology</i> , 2011, 60, 796-808.	1.9	351
2	Influence of semen processing technique on human sperm DNA integrity. <i>Urology</i> , 2000, 56, 1081-1084.	1.0	178
3	Potential adverse effect of sperm DNA damage on embryo quality after ICSI. <i>Human Reproduction</i> , 2005, 20, 3476-3480.	0.9	164
4	Mutations in the Cystic Fibrosis Transmembrane Regulator Gene and In Vivo Transepithelial Potentials. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2006, 174, 787-794.	5.6	160
5	Seminal plasma as a diagnostic fluid for male reproductive system disorders. <i>Nature Reviews Urology</i> , 2014, 11, 278-288.	3.8	159
6	Microfluidics for sperm analysis and selection. <i>Nature Reviews Urology</i> , 2017, 14, 707-730.	3.8	144
7	Differential Diagnosis of Azoospermia with Proteomic Biomarkers ECM1 and TEX101 Quantified in Seminal Plasma. <i>Science Translational Medicine</i> , 2013, 5, 212ra160.	12.4	136
8	Biologic variability of sperm DNA denaturation in infertile men. <i>Urology</i> , 2001, 58, 258-261.	1.0	120
9	Prevalence of abnormal sperm DNA denaturation in fertile and infertile men. <i>Urology</i> , 2002, 60, 1069-1072.	1.0	118
10	The incidence and effect of bacteriospermia and elevated seminal leukocytes on semen parameters. <i>Fertility and Sterility</i> , 2012, 97, 1050-1055.	1.0	110
11	Testicular spermatozoa have statistically significantly lower DNA damage compared with ejaculated spermatozoa in patients with unsuccessful oral antioxidant treatment. <i>Fertility and Sterility</i> , 2010, 93, 1142-1146.	1.0	106
12	Molecular Alterations during Progression of Prostate Cancer to Androgen Independence. <i>Clinical Chemistry</i> , 2011, 57, 1366-1375.	3.2	100
13	Verification of Male Infertility Biomarkers in Seminal Plasma by Multiplex Selected Reaction Monitoring Assay. <i>Molecular and Cellular Proteomics</i> , 2011, 10, M110.004127.	3.8	99
14	Quantitative Proteomics Reveals That Enzymes of the Ketogenic Pathway Are Associated with Prostate Cancer Progression. <i>Molecular and Cellular Proteomics</i> , 2013, 12, 1589-1601.	3.8	88
15	Varicocele is associated with abnormal retention of cytoplasmic droplets by human spermatozoa. <i>Fertility and Sterility</i> , 2000, 74, 461-464.	1.0	87
16	Potential adverse effect of semen processing on human sperm deoxyribonucleic acid integrity. <i>Fertility and Sterility</i> , 1999, 72, 496-499.	1.0	76
17	CUA Guideline: The workup of azoospermic males. <i>Canadian Urological Association Journal</i> , 2010, 4, 163-167.	0.6	75
18	Use of In-Biofilm Expression Technology To Identify Genes Involved in <i>Pseudomonas aeruginosa</i> Biofilm Development. <i>Journal of Bacteriology</i> , 2003, 185, 2700-2710.	2.2	70

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19	Finasteride use in the male infertility population: effects on semen and hormone parameters. <i>Fertility and Sterility</i> , 2013, 100, 1542-1546.	1.0	66
20	Cause-Specific Treatment in Patients with High Sperm DNA Damage Resulted in Significant DNA Improvement. <i>Systems Biology in Reproductive Medicine</i> , 2009, 55, 109-115.	2.1	64
21	Deep learning-based selection of human sperm with high DNA integrity. <i>Communications Biology</i> , 2019, 2, 250.	4.4	64
22	Influence of initial semen quality on the integrity of human sperm DNA following semen processing. <i>Fertility and Sterility</i> , 2000, 74, 824-827.	1.0	62
23	The influence of clinical and subclinical varicocele on testicular volume. <i>Fertility and Sterility</i> , 1997, 68, 671-674.	1.0	60
24	Seminal plasma biochemical markers and their association with semen analysis findings. <i>Urology</i> , 1999, 53, 596-603.	1.0	59
25	A comparison of ejaculated and testicular spermatozoa aneuploidy rates in patients with high sperm DNA damage. <i>Systems Biology in Reproductive Medicine</i> , 2012, 58, 142-148.	2.1	58
26	Preclinical evaluation of a TEX101 protein ELISA test for the differential diagnosis of male infertility. <i>BMC Medicine</i> , 2017, 15, 60.	5.5	58
27	Smoking is associated with the retention of cytoplasm by human spermatozoa. <i>Urology</i> , 2000, 56, 463-466.	1.0	55
28	Time for Improvement in Semen Parameters After Varicocelectomy. <i>Journal of Urology</i> , 2012, 187, 227-231.	0.4	54
29	Accessory-free quantitative smartphone imaging of colorimetric paper-based assays. <i>Lab on A Chip</i> , 2019, 19, 1991-1999.	6.0	52
30	OUTCOME OF MICROSURGICAL RECONSTRUCTION IN MEN WITH SUSPECTED EPIDIDYMAL OBSTRUCTION. <i>Journal of Urology</i> , 1998, 159, 831-834.	0.4	48
31	Heterogeneity of reproductive tract abnormalities in men with absence of the vas deferens: role of cystic fibrosis transmembrane conductance regulator gene mutations. <i>Fertility and Sterility</i> , 1998, 70, 724-728.	1.0	48
32	Varicoceles: The Diagnostic Dilemma. <i>Journal of Andrology</i> , 2008, 29, 143-146.	2.0	48
33	Characterization of organic cation/carnitine transporter family in human sperm. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 121-128.	2.1	46
34	Does extensive genotyping and nasal potential difference testing clarify the diagnosis of cystic fibrosis among patients with single-organ manifestations of cystic fibrosis?. <i>Thorax</i> , 2014, 69, 254-260.	5.6	45
35	Use of alternative and hormonal therapies in male infertility. <i>Urology</i> , 2004, 63, 141-143.	1.0	44
36	Comparing the American and European diagnostic guidelines for cystic fibrosis: same disease, different language?. <i>Thorax</i> , 2012, 67, 618-624.	5.6	43

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37	Steps in the investigation and management of low semen volume in the infertile man. Canadian Urological Association Journal, 2013, 3, 479.	0.6	39
38	Immunocapture-Selected Reaction Monitoring Screening Facilitates the Development of ELISA for the Measurement of Native TEX101 in Biological Fluids*. Molecular and Cellular Proteomics, 2015, 14, 1517-1526.	3.8	38
39	Robotic Immobilization of Motile Sperm for Clinical Intracytoplasmic Sperm Injection. IEEE Transactions on Biomedical Engineering, 2019, 66, 444-452.	4.2	36
40	Natural history of varicocele management in the era of intracytoplasmic sperm injection. Fertility and Sterility, 2008, 90, 2251-2256.	1.0	35
41	Epididymal P34H protein deficiency in men evaluated for infertility. Fertility and Sterility, 2007, 88, 1455-1457.	1.0	33
42	CUA Guideline: The workup and management of azoospermic males. Canadian Urological Association Journal, 2015, 9, 229.	0.6	33
43	Hormone abnormalities are not related to the erectile dysfunction and decreased libido found in many men with infertility. Fertility and Sterility, 2014, 101, 1594-1598.	1.0	32
44	Multi-omics Biomarker Pipeline Reveals Elevated Levels of Protein-glutamine Gamma-glutamyltransferase 4 in Seminal Plasma of Prostate Cancer Patients. Molecular and Cellular Proteomics, 2019, 18, 1807-1823.	3.8	31
45	Varicolectomy for Infertile Couples with Advanced Paternal Age. Urology, 2008, 72, 109-113.	1.0	30
46	Effect of platelet-activating factor, lyso-platelet-activating factor, and lysophosphatidylcholine on sperm motion: importance of albumin for motility stimulation. Fertility and Sterility, 1993, 59, 1266-1275.	1.0	29
47	Reproductive endocrinologists are the gatekeepers for male infertility care in North America: results of a North American survey on the referral patterns and characteristics of men presenting to male infertility specialists for infertility investigations. Fertility and Sterility, 2019, 112, 657-662.	1.0	29
48	FertDish: microfluidic sperm selection-in-a-dish for intracytoplasmic sperm injection. Lab on A Chip, 2021, 21, 775-783.	6.0	29
49	Advances in sperm analysis: techniques, discoveries and applications. Nature Reviews Urology, 2021, 18, 447-467.	3.8	29
50	Frequency and severity of sperm DNA damage in patients with confirmed cases of male infertility of different aetiologies. Reproductive BioMedicine Online, 2010, 20, 759-763.	2.4	28
51	Automated Non-Invasive Measurement of Single Sperm's Motility and Morphology. IEEE Transactions on Medical Imaging, 2018, 37, 2257-2265.	8.9	28
52	Effect of different cryoprotectant agents on spermatogenesis efficiency in cryopreserved and grafted neonatal mouse testicular tissue. Cryobiology, 2013, 67, 70-75.	0.7	27
53	Identification of TEX101-associated Proteins Through Proteomic Measurement of Human Spermatozoa Homozygous for the Missense Variant rs35033974*. Molecular and Cellular Proteomics, 2019, 18, 338-351.	3.8	26
54	Effect of adult microsurgical varicolectomy on testicular volume. Urology, 2000, 56, 136-139.	1.0	25

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55	Microsurgical Varicocelectomy for Infertile Couples With Advanced Female Age: Natural History in the Era of ART. <i>Journal of Andrology</i> , 2004, 25, 939-943.	2.0	25
56	Coital frequency and infertility: which male factors predict less frequent coitus among infertile couples?. <i>Fertility and Sterility</i> , 2013, 100, 511-515.	1.0	25
57	Discovery of a Human Testis-specific Protein Complex TEX101-DPEP3 and Selection of Its Disrupting Antibodies. <i>Molecular and Cellular Proteomics</i> , 2018, 17, 2480-2495.	3.8	25
58	Prediction of DNA Integrity from Morphological Parameters Using a Single Sperm DNA Fragmentation Index Assay. <i>Advanced Science</i> , 2019, 6, 1900712.	11.2	23
59	Microsurgical varicocelectomy for infertile men with oligospermia: differential effect of bilateral and unilateral varicocele on pregnancy outcomes. <i>BJU International</i> , 2009, 104, 524-528.	2.5	22
60	Mini-Incision Microsurgical Vasectomy Reversal Using No-Scalpel Vasectomy Principles and Instruments. <i>Urology</i> , 2008, 72, 913-915.	1.0	20
61	Two-dimensional planar swimming selects for high DNA integrity sperm. <i>Lab on A Chip</i> , 2019, 19, 2161-2167.	6.0	20
62	Cysteine-rich secretory protein 1 in seminal plasma: potential biomarker for the distinction between obstructive and nonobstructive azoospermia. <i>Fertility and Sterility</i> , 2013, 100, 1253-1260.	1.0	19
63	Characteristics and Etiologies of Chronic Scrotal Pain: A Common but Poorly Understood Condition. <i>Pain Research and Management</i> , 2017, 2017, 1-5.	1.8	19
64	Live sperm trap microarray for high throughput imaging and analysis. <i>Lab on A Chip</i> , 2019, 19, 815-824.	6.0	19
65	Varicocele surgery or embolization: Which is better?. <i>Canadian Urological Association Journal</i> , 2012, 6, 266-8.	0.6	19
66	Outcomes of organ-sparing surgery for adult testicular tumors: A systematic review of the literature. <i>BJUI Compass</i> , 2021, 2, 306-321.	1.3	18
67	PCR-based technique for the detection of bacteria in semen and urine. <i>Journal of Microbiological Methods</i> , 1996, 26, 61-71.	1.6	17
68	Mini-Incision Vasectomy Reversal Using No-scalpel Vasectomy Principles: Efficacy and Postoperative Pain Compared With Traditional Approaches to Vasectomy Reversal. <i>Urology</i> , 2011, 77, 602-606.	1.0	17
69	The utility and cost of Chlamydia trachomatis and Neisseria gonorrhoeae screening of a male infertility population. <i>Fertility and Sterility</i> , 2012, 97, 299-305.	1.0	16
70	Selection of high-quality sperm with thousands of parallel channels. <i>Lab on A Chip</i> , 2021, 21, 2464-2475.	6.0	15
71	A survey of Canadian urologists' opinions and prescribing patterns of testosterone replacement therapy in men on active surveillance for low-risk prostate cancer. <i>Canadian Urological Association Journal</i> , 2016, 10, 181.	0.6	14
72	Nutrition, genetic variation and male fertility. <i>Translational Andrology and Urology</i> , 2021, 10, 1410-1431.	1.4	14

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73	Does the gonadotropin-releasing hormone stimulation test predict clinical outcomes after microsurgical varicocelectomy?. <i>Urology</i> , 2004, 63, 1143-1147.	1.0	9
74	Is Varicocelectomy Beneficial in Men Previously Deemed Subfertile but With Normal Semen Parameters Based on the New Guidelines? A Retrospective Study. <i>Urology</i> , 2015, 85, 357-362.	1.0	9
75	Semen biomarker TEX101 predicts sperm retrieval success for men with testicular failure. <i>F1000Research</i> , 0, 10, 569.	1.6	9
76	High Levels of Sperm DNA Denaturation as the Sole Semen Abnormality in a Patient After Chemotherapy for Testis Cancer. <i>Journal of Andrology</i> , 2004, 25, 23-24.	2.0	8
77	Comparison of sperm quality and DNA integrity in mouse sperm exposed to various cooling velocities and osmotic stress. <i>Theriogenology</i> , 2010, 74, 1420-1430.	2.1	8
78	The effect of ethnicity on semen analysis and hormones in the infertile patient. <i>Canadian Urological Association Journal</i> , 2019, 14, 31-35.	0.6	8
79	Artificial Intelligence Based Machine Learning Models Predict Sperm Parameter Upgrading after Varicocele Repair: A Multi-Institutional Analysis. <i>World Journal of Men's Health</i> , 2022, 40, 618.	3.3	8
80	Ultrastructural features of the vas deferens from patients undergoing vasectomy and vasectomy reversal. <i>Journal of Andrology</i> , 2002, 23, 691-701.	2.0	8
81	The use of assisted reproductive technology before male factor infertility evaluation. <i>Translational Andrology and Urology</i> , 2018, 7, 678-685.	1.4	7
82	The impact of cannabis use on male sexual function: A 10-year, single-center experience. <i>Canadian Urological Association Journal</i> , 2021, 15, E652-E657.	0.6	7
83	Quantitative selection of single human sperm with high DNA integrity for intracytoplasmic sperm injection. <i>Fertility and Sterility</i> , 2021, 116, 1308-1318.	1.0	7
84	Postmortem Sperm Retrieval: The Canadian Perspective. <i>Journal of Andrology</i> , 2009, 30, 407-409.	2.0	6
85	Automated Laser Ablation of Motile Sperm for Immobilization. <i>IEEE Robotics and Automation Letters</i> , 2019, 4, 323-329.	5.1	6
86	Management of chronic scrotal content pain. <i>Canadian Urological Association Journal</i> , 2018, 12, S164-6.	0.6	5
87	Seminal plasma metabolomics reveals lysine and serine dysregulation as unique features distinguishing between prostate cancer tumors of Gleason grades 6 and 7. <i>Prostate</i> , 2021, 81, 713-720.	2.3	5
88	Receipt of Overactive Bladder Drugs and Incident Dementia: A Population-based Case-control Study. <i>European Urology Focus</i> , 2022, 8, 1433-1440.	3.1	5
89	Mechanisms of chronic urologic pain. <i>Canadian Urological Association Journal</i> , 2018, 12, S147-8.	0.6	4
90	Automated motility and morphology measurement of live spermatozoa. <i>Andrology</i> , 2021, 9, 1205-1213.	3.5	4

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91	Semen and serum platinum levels in cisplatin-treated survivors of germ cell cancer. <i>Cancer Medicine</i> , 2022, 11, 728-734.	2.8	4
92	Hairless or fertile? Finasteride leads to epididymal changes and infertility in rats. <i>Fertility and Sterility</i> , 2012, 97, 1298.	1.0	3
93	Vasectomy as a reversible form of contraception for select patients. <i>Canadian Journal of Urology</i> , 2014, 21, 7234-40.	0.0	3
94	Actionable secondary findings following exome sequencing of 836 non-obstructive azoospermia cases and their value in patient management. <i>Human Reproduction</i> , 2022, 37, 1652-1663.	0.9	3
95	The Genetics You Never Knew: A Genetics Primer. <i>Urologic Clinics of North America</i> , 2008, 35, 243-256.	1.8	2
96	Comparison of cryosurvival and spermatogenesis efficiency of cryopreserved neonatal mouse testicular tissue between three vitrification protocols and controlled-rate freezing. <i>Cryobiology</i> , 2018, 84, 4-9.	0.7	2
97	Chronic Scrotal Pain. <i>Current Urology Reports</i> , 2018, 19, 59.	2.2	2
98	Navigating urology's new normal and mitigating the effects of a second wave of COVID-19. <i>Canadian Urological Association Journal</i> , 2020, 14, E543-E548.	0.6	2
99	Overview of seminal fluid biomarkers for the evaluation of chronic prostatitis: a scoping review. <i>Prostate Cancer and Prostatic Diseases</i> , 2021, , .	3.9	2
100	High Sperm DNA Damage. <i>Urologic Clinics of North America</i> , 2020, 47, 165-174.	1.8	1
101	Renal colic and torsion: case report and review. <i>Canadian Journal of Urology</i> , 2002, 9, 1702-3.	0.0	1
102	Efficacy and Safety of Drug Combinations for Chronic Pelvic Pain: Protocol for a Systematic Review. <i>JMIR Research Protocols</i> , 2021, 10, e21909.	1.0	0
103	AI TO PREDICT SPERM PARAMETER UPGRADING AFTER MICROSURGICAL VARICOCELE REPAIR: INTERNATIONAL EXTERNAL VALIDATION. <i>Fertility and Sterility</i> , 2021, 116, e331-e332.	1.0	0
104	Nomogram to predict changes in semen parameters following clomiphene citrate therapy for males with abnormal semen parameters. <i>F1000Research</i> , 0, 11, 238.	1.6	0