

Keith Jarvi

List of Publications by Year in descending order

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Version: 2024-02-01

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 | 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 |
| 2 | 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 |
| 3 | Semen and serum platinum levels in cisplatin-treated survivors of germ cell cancer. <i>Cancer Medicine</i> , 2022, 11, 728-734. | 2.8 | 4 |
| 4 | 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 |
| 5 | FertDish: microfluidic sperm selection-in-a-dish for intracytoplasmic sperm injection. <i>Lab on A Chip</i> , 2021, 21, 775-783. | 6.0 | 29 |
| 6 | Selection of high-quality sperm with thousands of parallel channels. <i>Lab on A Chip</i> , 2021, 21, 2464-2475. | 6.0 | 15 |
| 7 | 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 |
| 8 | Nutrition, genetic variation and male fertility. <i>Translational Andrology and Urology</i> , 2021, 10, 1410-1431. | 1.4 | 14 |
| 9 | Automated motility and morphology measurement of live spermatozoa. <i>Andrology</i> , 2021, 9, 1205-1213. | 3.5 | 4 |
| 10 | 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 |
| 11 | Advances in sperm analysis: techniques, discoveries and applications. <i>Nature Reviews Urology</i> , 2021, 18, 447-467. | 3.8 | 29 |
| 12 | 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 |
| 13 | 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 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | High Sperm DNA Damage. <i>Urologic Clinics of North America</i> , 2020, 47, 165-174. | 1.8 | 1 |

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|----|--|------|-----------|
| 19 | Robotic Immobilization of Motile Sperm for Clinical Intracytoplasmic Sperm Injection. IEEE Transactions on Biomedical Engineering, 2019, 66, 444-452. | 4.2 | 36 |
| 20 | Deep learning-based selection of human sperm with high DNA integrity. Communications Biology, 2019, 2, 250. | 4.4 | 64 |
| 21 | 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 |
| 22 | 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 |
| 23 | The effect of ethnicity on semen analysis and hormones in the infertile patient. Canadian Urological Association Journal, 2019, 14, 31-35. | 0.6 | 8 |
| 24 | Live sperm trap microarray for high throughput imaging and analysis. Lab on A Chip, 2019, 19, 815-824. | 6.0 | 19 |
| 25 | Prediction of DNA Integrity from Morphological Parameters Using a Single Sperm DNA Fragmentation Index Assay. Advanced Science, 2019, 6, 1900712. | 11.2 | 23 |
| 26 | Two-dimensional planar swimming selects for high DNA integrity sperm. Lab on A Chip, 2019, 19, 2161-2167. | 6.0 | 20 |
| 27 | Accessory-free quantitative smartphone imaging of colorimetric paper-based assays. Lab on A Chip, 2019, 19, 1991-1999. | 6.0 | 52 |
| 28 | 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 |
| 29 | Automated Laser Ablation of Motile Sperm for Immobilization. IEEE Robotics and Automation Letters, 2019, 4, 323-329. | 5.1 | 6 |
| 30 | The use of assisted reproductive technology before male factor infertility evaluation. Translational Andrology and Urology, 2018, 7, 678-685. | 1.4 | 7 |
| 31 | Comparison of cryosurvival and spermatogenesis efficiency of cryopreserved neonatal mouse testicular tissue between three vitrification protocols and controlled-rate freezing. Cryobiology, 2018, 84, 4-9. | 0.7 | 2 |
| 32 | Automated Non-Invasive Measurement of Single Sperm's Motility and Morphology. IEEE Transactions on Medical Imaging, 2018, 37, 2257-2265. | 8.9 | 28 |
| 33 | Mechanisms of chronic urologic pain. Canadian Urological Association Journal, 2018, 12, S147-8. | 0.6 | 4 |
| 34 | Management of chronic scrotal content pain. Canadian Urological Association Journal, 2018, 12, S164-6. | 0.6 | 5 |
| 35 | Discovery of a Human Testis-specific Protein Complex TEX101-DPEP3 and Selection of Its Disrupting Antibodies. Molecular and Cellular Proteomics, 2018, 17, 2480-2495. | 3.8 | 25 |
| 36 | Chronic Scrotal Pain. Current Urology Reports, 2018, 19, 59. | 2.2 | 2 |

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|----|--|------|-----------|
| 37 | Preclinical evaluation of a TEX101 protein ELISA test for the differential diagnosis of male infertility. BMC Medicine, 2017, 15, 60. | 5.5 | 58 |
| 38 | Microfluidics for sperm analysis and selection. Nature Reviews Urology, 2017, 14, 707-730. | 3.8 | 144 |
| 39 | Characteristics and Etiologies of Chronic Scrotal Pain: A Common but Poorly Understood Condition. Pain Research and Management, 2017, 2017, 1-5. | 1.8 | 19 |
| 40 | A survey of Canadian urologists' opinions and prescribing patterns of testosterone replacement therapy in men on active surveillance for low-risk prostate cancer. Canadian Urological Association Journal, 2016, 10, 181. | 0.6 | 14 |
| 41 | CUA Guideline: The workup and management of azoospermic males. Canadian Urological Association Journal, 2015, 9, 229. | 0.6 | 33 |
| 42 | Is Varicocelectomy Beneficial in Men Previously Deemed Subfertile but With Normal Semen Parameters Based on the New Guidelines? A Retrospective Study. Urology, 2015, 85, 357-362. | 1.0 | 9 |
| 43 | 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 |
| 44 | Does extensive genotyping and nasal potential difference testing clarify the diagnosis of cystic fibrosis among patients with single-organ manifestations of cystic fibrosis?. Thorax, 2014, 69, 254-260. | 5.6 | 45 |
| 45 | 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 |
| 46 | Seminal plasma as a diagnostic fluid for male reproductive system disorders. Nature Reviews Urology, 2014, 11, 278-288. | 3.8 | 159 |
| 47 | Vasectomy as a reversible form of contraception for select patients. Canadian Journal of Urology, 2014, 21, 7234-40. | 0.0 | 3 |
| 48 | Finasteride use in the male infertility population: effects on semen and hormone parameters. Fertility and Sterility, 2013, 100, 1542-1546. | 1.0 | 66 |
| 49 | Differential Diagnosis of Azoospermia with Proteomic Biomarkers ECM1 and TEX101 Quantified in Seminal Plasma. Science Translational Medicine, 2013, 5, 212ra160. | 12.4 | 136 |
| 50 | Effect of different cryoprotectant agents on spermatogenesis efficiency in cryopreserved and grafted neonatal mouse testicular tissue. Cryobiology, 2013, 67, 70-75. | 0.7 | 27 |
| 51 | Coital frequency and infertility: which male factors predict less frequent coitus among infertile couples?. Fertility and Sterility, 2013, 100, 511-515. | 1.0 | 25 |
| 52 | Cysteine-rich secretory protein 1 in seminal plasma: potential biomarker for the distinction between obstructive and nonobstructive azoospermia. Fertility and Sterility, 2013, 100, 1253-1260. | 1.0 | 19 |
| 53 | Quantitative Proteomics Reveals That Enzymes of the Ketogenic Pathway Are Associated with Prostate Cancer Progression. Molecular and Cellular Proteomics, 2013, 12, 1589-1601. | 3.8 | 88 |
| 54 | Steps in the investigation and management of low semen volume in the infertile man. Canadian Urological Association Journal, 2013, 3, 479. | 0.6 | 39 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | Comparing the American and European diagnostic guidelines for cystic fibrosis: same disease, different language?. <i>Thorax</i> , 2012, 67, 618-624. | 5.6 | 43 |
| 57 | Time for Improvement in Semen Parameters After Varicocelectomy. <i>Journal of Urology</i> , 2012, 187, 227-231. | 0.4 | 54 |
| 58 | 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 |
| 59 | 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 |
| 60 | Hairless or fertile? Finasteride leads to epididymal changes and infertility in rats. <i>Fertility and Sterility</i> , 2012, 97, 1298. | 1.0 | 3 |
| 61 | Varicocele surgery or embolization: Which is better?. <i>Canadian Urological Association Journal</i> , 2012, 6, 266-8. | 0.6 | 19 |
| 62 | 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 |
| 63 | 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 |
| 64 | 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 |
| 65 | Molecular Alterations during Progression of Prostate Cancer to Androgen Independence. <i>Clinical Chemistry</i> , 2011, 57, 1366-1375. | 3.2 | 100 |
| 66 | 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 |
| 67 | 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 |
| 68 | Frequency and severity of sperm DNA damage in patients with confirmed cases of male infertility of different aetiologies. <i>Reproductive BioMedicine Online</i> , 2010, 20, 759-763. | 2.4 | 28 |
| 69 | CUA Guideline: The workup of azoospermic males. <i>Canadian Urological Association Journal</i> , 2010, 4, 163-167. | 0.6 | 75 |
| 70 | 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 |
| 71 | Postmortem Sperm Retrieval: The Canadian Perspective. <i>Journal of Andrology</i> , 2009, 30, 407-409. | 2.0 | 6 |
| 72 | 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 |

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|----|---|-----|-----------|
| 73 | Varicoceles: The Diagnostic Dilemma. <i>Journal of Andrology</i> , 2008, 29, 143-146. | 2.0 | 48 |
| 74 | Varicocelectomy for Infertile Couples with Advanced Paternal Age. <i>Urology</i> , 2008, 72, 109-113. | 1.0 | 30 |
| 75 | Mini-Incision Microsurgical Vasectomy Reversal Using No-Scalpel Vasectomy Principles and Instruments. <i>Urology</i> , 2008, 72, 913-915. | 1.0 | 20 |
| 76 | Natural history of varicocele management in the era of intracytoplasmic sperm injection. <i>Fertility and Sterility</i> , 2008, 90, 2251-2256. | 1.0 | 35 |
| 77 | The Genetics You Never Knew: A Genetics Primer. <i>Urologic Clinics of North America</i> , 2008, 35, 243-256. | 1.8 | 2 |
| 78 | Epididymal P34H protein deficiency in men evaluated for infertility. <i>Fertility and Sterility</i> , 2007, 88, 1455-1457. | 1.0 | 33 |
| 79 | 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 |
| 80 | Potential adverse effect of sperm DNA damage on embryo quality after ICSI. <i>Human Reproduction</i> , 2005, 20, 3476-3480. | 0.9 | 164 |
| 81 | Use of alternative and hormonal therapies in male infertility. <i>Urology</i> , 2004, 63, 141-143. | 1.0 | 44 |
| 82 | Does the gonadotropin-releasing hormone stimulation test predict clinical outcomes after microsurgical varicocelectomy?. <i>Urology</i> , 2004, 63, 1143-1147. | 1.0 | 9 |
| 83 | 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 |
| 84 | 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 |
| 85 | Characterization of organic cation/carnitine transporter family in human sperm. <i>Biochemical and Biophysical Research Communications</i> , 2003, 306, 121-128. | 2.1 | 46 |
| 86 | 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 |
| 87 | Prevalence of abnormal sperm DNA denaturation in fertile and infertile men. <i>Urology</i> , 2002, 60, 1069-1072. | 1.0 | 118 |
| 88 | 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 |
| 89 | Renal colic and torsion: case report and review. <i>Canadian Journal of Urology</i> , 2002, 9, 1702-3. | 0.0 | 1 |
| 90 | Biologic variability of sperm DNA denaturation in infertile men. <i>Urology</i> , 2001, 58, 258-261. | 1.0 | 120 |

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|-----|--|-----|-----------|
| 91 | Effect of adult microsurgical varicocelectomy on testicular volume. Urology, 2000, 56, 136-139. | 1.0 | 25 |
| 92 | Smoking is associated with the retention of cytoplasm by human spermatozoa. Urology, 2000, 56, 463-466. | 1.0 | 55 |
| 93 | Influence of semen processing technique on human sperm DNA integrity. Urology, 2000, 56, 1081-1084. | 1.0 | 178 |
| 94 | Influence of initial semen quality on the integrity of human sperm DNA following semen processing. Fertility and Sterility, 2000, 74, 824-827. | 1.0 | 62 |
| 95 | Varicocele is associated with abnormal retention of cytoplasmic droplets by human spermatozoa. Fertility and Sterility, 2000, 74, 461-464. | 1.0 | 87 |
| 96 | Seminal plasma biochemical markers and their association with semen analysis findings. Urology, 1999, 53, 596-603. | 1.0 | 59 |
| 97 | Potential adverse effect of semen processing on human sperm deoxyribonucleic acid integrity. Fertility and Sterility, 1999, 72, 496-499. | 1.0 | 76 |
| 98 | OUTCOME OF MICROSURGICAL RECONSTRUCTION IN MEN WITH SUSPECTED EPIDIDYMAL OBSTRUCTION. Journal of Urology, 1998, 159, 831-834. | 0.4 | 48 |
| 99 | Heterogeneity of reproductive tract abnormalities in men with absence of the vas deferens: role of cystic fibrosis transmembrane conductance regulator gene mutations. Fertility and Sterility, 1998, 70, 724-728. | 1.0 | 48 |
| 100 | The influence of clinical and subclinical varicocele on testicular volume. Fertility and Sterility, 1997, 68, 671-674. | 1.0 | 60 |
| 101 | PCR-based technique for the detection of bacteria in semen and urine. Journal of Microbiological Methods, 1996, 26, 61-71. | 1.6 | 17 |
| 102 | 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 |
| 103 | Semen biomarker TEX101 predicts sperm retrieval success for men with testicular failure. F1000Research, 0, 10, 569. | 1.6 | 9 |
| 104 | Nomogram to predict changes in semen parameters following clomiphene citrate therapy for males with abnormal semen parameters. F1000Research, 0, 11, 238. | 1.6 | 0 |