

Frederick C Wu

List of Publications by Citations

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104
papers

7,943
citations

40
h-index

88
g-index

114
ext. papers

9,198
ext. citations

5.3
avg, IF

5.39
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 104 | Identification of late-onset hypogonadism in middle-aged and elderly men. <i>New England Journal of Medicine</i> , 2010 , 363, 123-35 | 59.2 | 1005 |
| 103 | Hypothalamic-pituitary-testicular axis disruptions in older men are differentially linked to age and modifiable risk factors: the European Male Aging Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2008 , 93, 2737-45 | 5.6 | 639 |
| 102 | Testosterone Therapy in Men With Hypogonadism: An Endocrine Society Clinical Practice Guideline. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 1715-1744 | 5.6 | 634 |
| 101 | Effects of testosterone on muscle strength, physical function, body composition, and quality of life in intermediate-frail and frail elderly men: a randomized, double-blind, placebo-controlled study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, 639-50 | 5.6 | 455 |
| 100 | Characteristics of secondary, primary, and compensated hypogonadism in aging men: evidence from the European Male Ageing Study. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, 1810-8 | 5.6 | 402 |
| 99 | Age-related changes in general and sexual health in middle-aged and older men: results from the European Male Ageing Study (EMAS). <i>Journal of Sexual Medicine</i> , 2010 , 7, 1362-80 | 1.1 | 290 |
| 98 | Reference ranges for testosterone in men generated using liquid chromatography tandem mass spectrometry in a community-based sample of healthy nonobese young men in the Framingham Heart Study and applied to three geographically distinct cohorts. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, 2430-9 | 5.6 | 271 |
| 97 | Characteristics of androgen deficiency in late-onset hypogonadism: results from the European Male Aging Study (EMAS). <i>Journal of Clinical Endocrinology and Metabolism</i> , 2012 , 97, 1508-16 | 5.6 | 207 |
| 96 | Investigation, treatment, and monitoring of late-onset hypogonadism in males: ISA, ISSAM, EAU, EAA, and ASA recommendations. <i>European Urology</i> , 2009 , 55, 121-30 | 10.2 | 195 |
| 95 | Molecular phenotyping of a UK population: defining the human serum metabolome. <i>Metabolomics</i> , 2015 , 11, 9-26 | 4.7 | 167 |
| 94 | Genetic determinants of serum testosterone concentrations in men. <i>PLoS Genetics</i> , 2011 , 7, e1002313 | 6 | 148 |
| 93 | ISA, ISSAM, EAU, EAA and ASA recommendations: investigation, treatment and monitoring of late-onset hypogonadism in males. <i>Aging Male</i> , 2009 , 12, 5-12 | 2.1 | 144 |
| 92 | A Reappraisal of Testosterone's Binding in Circulation: Physiological and Clinical Implications. <i>Endocrine Reviews</i> , 2017 , 38, 302-324 | 27.2 | 141 |
| 91 | Association of hypogonadism with vitamin D status: the European Male Ageing Study. <i>European Journal of Endocrinology</i> , 2012 , 166, 77-85 | 6.5 | 138 |
| 90 | Comparison of serum testosterone and estradiol measurements in 3174 European men using platform immunoassay and mass spectrometry; relevance for the diagnostics in aging men. <i>European Journal of Endocrinology</i> , 2012 , 166, 983-91 | 6.5 | 135 |
| 89 | Harmonized Reference Ranges for Circulating Testosterone Levels in Men of Four Cohort Studies in the United States and Europe. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017 , 102, 1161-1173 | 5.6 | 126 |
| 88 | Increased estrogen rather than decreased androgen action is associated with longer androgen receptor CAG repeats. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2009 , 94, 277-84 | 5.6 | 116 |

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|----|--|-----|-----|
| 87 | The European Male Ageing Study (EMAS): design, methods and recruitment. <i>Journal of Developmental and Physical Disabilities</i> , 2009 , 32, 11-24 | | 109 |
| 86 | Association between 25-hydroxyvitamin D levels and cognitive performance in middle-aged and older European men. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2009 , 80, 722-9 | 5.5 | 108 |
| 85 | Low Free Testosterone Is Associated with Hypogonadal Signs and Symptoms in Men with Normal Total Testosterone. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016 , 101, 2647-57 | 5.6 | 100 |
| 84 | European Academy of Andrology (EAA) guidelines on investigation, treatment and monitoring of functional hypogonadism in males: Endorsing organization: European Society of Endocrinology. <i>Andrology</i> , 2020 , 8, 970-987 | 4.2 | 98 |
| 83 | The ability of three different models of frailty to predict all-cause mortality: results from the European Male Aging Study (EMAS). <i>Archives of Gerontology and Geriatrics</i> , 2013 , 57, 360-8 | 4 | 96 |
| 82 | Development of and Recovery from Secondary Hypogonadism in Aging Men: Prospective Results from the EMAS. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 3172-82 | 5.6 | 95 |
| 81 | The relationships between sex hormones and sexual function in middle-aged and older European men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2011 , 96, E1577-87 | 5.6 | 89 |
| 80 | Vitamin D, parathyroid hormone and the metabolic syndrome in middle-aged and older European men. <i>European Journal of Endocrinology</i> , 2009 , 161, 947-54 | 6.5 | 88 |
| 79 | Lower vitamin D levels are associated with depression among community-dwelling European men. <i>Journal of Psychopharmacology</i> , 2011 , 25, 1320-8 | 4.6 | 81 |
| 78 | Induction of spermatogenesis by recombinant follicle-stimulating hormone (puregon) in hypogonadotropic azoospermic men who failed to respond to human chorionic gonadotropin alone. <i>Journal of Andrology</i> , 2003 , 24, 604-11 | | 74 |
| 77 | Associations between sex steroids and the development of metabolic syndrome: a longitudinal study in European men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2015 , 100, 1396-404 | 5.6 | 73 |
| 76 | The association between testosterone and aggression among young men: Empirical findings and a meta-analysis. <i>Aggressive Behavior</i> , 1998 , 24, 411-420 | 2.8 | 70 |
| 75 | Musculoskeletal pain is associated with very low levels of vitamin D in men: results from the European Male Ageing Study. <i>Annals of the Rheumatic Diseases</i> , 2010 , 69, 1448-52 | 2.4 | 68 |
| 74 | Assessment of sexual health in aging men in Europe: development and validation of the European Male Ageing Study sexual function questionnaire. <i>Journal of Sexual Medicine</i> , 2008 , 5, 1374-85 | 1.1 | 63 |
| 73 | A frailty index based on laboratory deficits in community-dwelling men predicted their risk of adverse health outcomes. <i>Age and Ageing</i> , 2016 , 45, 463-8 | 3 | 63 |
| 72 | Testosterone treatment is not associated with increased risk of prostate cancer or worsening of lower urinary tract symptoms: prostate health outcomes in the Registry of Hypogonadism in Men. <i>BJU International</i> , 2017 , 119, 216-224 | 5.6 | 60 |
| 71 | A multi-step, dynamic allosteric model of testosterone's binding to sex hormone binding globulin. <i>Molecular and Cellular Endocrinology</i> , 2015 , 399, 190-200 | 4.4 | 56 |
| 70 | Chronic widespread pain is associated with worsening frailty in European men. <i>Age and Ageing</i> , 2016 , 45, 268-74 | 3 | 49 |

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| 69 | Endocrine determinants of incident sarcopenia in middle-aged and elderly European men. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2015 , 6, 242-52 | 10.3 | 49 |
| 68 | Frailty in relation to variations in hormone levels of the hypothalamic-pituitary-testicular axis in older men: results from the European male ageing study. <i>Journal of the American Geriatrics Society</i> , 2011 , 59, 814-21 | 5.6 | 49 |
| 67 | Genetic variation in the RANKL/RANK/OPG signaling pathway is associated with bone turnover and bone mineral density in men. <i>Journal of Bone and Mineral Research</i> , 2010 , 25, 1830-8 | 6.3 | 49 |
| 66 | Androgens, health and sexuality in women and men. <i>Maturitas</i> , 2010 , 67, 275-89 | 5 | 44 |
| 65 | Ethnic differences in aortic pulse wave velocity occur in the descending aorta and may be related to vitamin D. <i>Hypertension</i> , 2011 , 58, 247-53 | 8.5 | 39 |
| 64 | Androgen effects on skeletal muscle: implications for the development and management of frailty. <i>Asian Journal of Andrology</i> , 2014 , 16, 203-12 | 2.8 | 39 |
| 63 | A novel male contraceptive pill-patch combination: oral desogestrel and transdermal testosterone in the suppression of spermatogenesis in normal men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2001 , 86, 5201-9 | 5.6 | 38 |
| 62 | Genetic Determinants of Circulating Estrogen Levels and Evidence of a Causal Effect of Estradiol on Bone Density in Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 991-1004 | 5.6 | 37 |
| 61 | No evidence for a role of the catechol-O-methyltransferase pain sensitivity haplotypes in chronic widespread pain. <i>Annals of the Rheumatic Diseases</i> , 2010 , 69, 2009-12 | 2.4 | 36 |
| 60 | Metabolic dysregulation in vitamin E and carnitine shuttle energy mechanisms associate with human frailty. <i>Nature Communications</i> , 2019 , 10, 5027 | 17.4 | 35 |
| 59 | Testosterone treatment is not associated with increased risk of adverse cardiovascular events: results from the Registry of Hypogonadism in Men (RHYME). <i>International Journal of Clinical Practice</i> , 2016 , 70, 843-852 | 2.9 | 33 |
| 58 | Cohort profile: the European Male Ageing Study. <i>International Journal of Epidemiology</i> , 2013 , 42, 391-401 | 7.8 | 33 |
| 57 | Effect of polymorphisms in selected genes involved in pituitary-testicular function on reproductive hormones and phenotype in aging men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2010 , 95, 1898-908 | 5.6 | 32 |
| 56 | Symptomatic androgen deficiency develops only when both total and free testosterone decline in obese men who may have incident biochemical secondary hypogonadism: Prospective results from the EMAS. <i>Clinical Endocrinology</i> , 2018 , 89, 459-469 | 3.4 | 30 |
| 55 | Natural history, risk factors and clinical features of primary hypogonadism in ageing men: Longitudinal Data from the European Male Ageing Study. <i>Clinical Endocrinology</i> , 2016 , 85, 891-901 | 3.4 | 27 |
| 54 | Associations of muscle force, power, cross-sectional muscle area and bone geometry in older UK men. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2017 , 8, 598-606 | 10.3 | 25 |
| 53 | Influence of bone remodelling rate on quantitative ultrasound parameters at the calcaneus and DXA BMDa of the hip and spine in middle-aged and elderly European men: the European Male Ageing Study (EMAS). <i>European Journal of Endocrinology</i> , 2011 , 165, 977-86 | 6.5 | 24 |
| 52 | Endogenous hormones, androgen receptor CAG repeat length and fluid cognition in middle-aged and older men: results from the European Male Ageing Study. <i>European Journal of Endocrinology</i> , 2010 , 162, 1155-64 | 6.5 | 23 |

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| 51 | Clinical practice update on testosterone therapy for male hypogonadism: Contrasting perspectives to optimize care. <i>Clinical Endocrinology</i> , 2019 , 90, 56-65 | 3.4 | 22 |
| 50 | Distribution of Salivary Testosterone in Men and Women in a British General Population-Based Sample: The Third National Survey of Sexual Attitudes and Lifestyles (Natsal-3). <i>Journal of the Endocrine Society</i> , 2017 , 1, 14-25 | 0.4 | 21 |
| 49 | Influence of Lifestyle Factors on Quantitative Heel Ultrasound Measurements in Middle-Aged and Elderly Men. <i>Calcified Tissue International</i> , 2010 , 86, 211-219 | 3.9 | 21 |
| 48 | Reproductive Hormone Levels Predict Changes in Frailty Status in Community-Dwelling Older Men: European Male Ageing Study Prospective Data. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 701-709 | 5.6 | 20 |
| 47 | Reassessing Free-Testosterone Calculation by Liquid Chromatography-Tandem Mass Spectrometry Direct Equilibrium Dialysis. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2018 , 103, 2167-2174 | 5.6 | 20 |
| 46 | Influence of insulin-like growth factor binding protein (IGFBP)-1 and IGFBP-3 on bone health: results from the European Male Ageing Study. <i>Calcified Tissue International</i> , 2011 , 88, 503-10 | 3.9 | 20 |
| 45 | Genetic variation in sex hormone genes influences heel ultrasound parameters in middle-aged and elderly men: results from the European Male Aging Study (EMAS). <i>Journal of Bone and Mineral Research</i> , 2009 , 24, 314-23 | 6.3 | 20 |
| 44 | Low vitamin D and the risk of developing chronic widespread pain: results from the European male ageing study. <i>BMC Musculoskeletal Disorders</i> , 2016 , 17, 32 | 2.8 | 19 |
| 43 | Quality of Life and Sexual Function Benefits of Long-Term Testosterone Treatment: Longitudinal Results From the Registry of Hypogonadism in Men (RHYME). <i>Journal of Sexual Medicine</i> , 2017 , 14, 1104-1115 | 4.1 | 19 |
| 42 | Elevated levels of gonadotrophins but not sex steroids are associated with musculoskeletal pain in middle-aged and older European men. <i>Pain</i> , 2011 , 152, 1495-1501 | 8 | 18 |
| 41 | Elevated luteinizing hormone despite normal testosterone levels in older men-natural history, risk factors and clinical features. <i>Clinical Endocrinology</i> , 2018 , 88, 479-490 | 3.4 | 18 |
| 40 | Adrenal and gonadal contributions to urinary excretion and plasma concentration of epitestosterone in men--effect of adrenal stimulation and implications for detection of testosterone abuse. <i>Clinical Endocrinology</i> , 1999 , 50, 661-8 | 3.4 | 17 |
| 39 | Clinical practice patterns in the assessment and management of low testosterone in men: an international survey of endocrinologists. <i>Clinical Endocrinology</i> , 2015 , 82, 234-41 | 3.4 | 16 |
| 38 | Association of 25-hydroxyvitamin D, 1,25-dihydroxyvitamin D and parathyroid hormone with mortality among middle-aged and older European men. <i>Age and Ageing</i> , 2014 , 43, 528-35 | 3 | 16 |
| 37 | Changes in prevalence of obesity and high waist circumference over four years across European regions: the European male ageing study (EMAS). <i>Endocrine</i> , 2017 , 55, 456-469 | 4 | 16 |
| 36 | New horizons in testosterone and the ageing male. <i>Age and Ageing</i> , 2015 , 44, 188-95 | 3 | 16 |
| 35 | Commentary: Guideline for male testosterone therapy: a European perspective. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2007 , 92, 418-9 | 5.6 | 16 |
| 34 | Large divergence in testosterone concentrations between men and women: Frame of reference for elite athletes in sex-specific competition in sports, a narrative review. <i>Clinical Endocrinology</i> , 2019 , 90, 15-22 | 3.4 | 15 |

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| 33 | Influence of polymorphisms in the RANKL/RANK/OPG signaling pathway on volumetric bone mineral density and bone geometry at the forearm in men. <i>Calcified Tissue International</i> , 2011 , 89, 446-53 ⁹ | 3.9 | 15 |
| 32 | Androgens, health and sexuality in women and men. <i>Human Fertility</i> , 2010 , 13, 277-97 | 1.9 | 15 |
| 31 | Frailty and bone health in European men. <i>Age and Ageing</i> , 2017 , 46, 635-641 | 3 | 15 |
| 30 | Nonandrogenic Anabolic Hormones Predict Risk of Frailty: European Male Ageing Study Prospective Data. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017 , 102, 2798-2806 | 5.6 | 14 |
| 29 | The effect of musculoskeletal pain on sexual function in middle-aged and elderly european men: results from the european male ageing study. <i>Journal of Rheumatology</i> , 2011 , 38, 370-7 | 4.1 | 14 |
| 28 | Low testosterone in ageing men: a modifiable risk factor for frailty?. <i>Trends in Endocrinology and Metabolism</i> , 2011 , 22, 491-8 | 8.8 | 12 |
| 27 | Demographic and Clinical Correlates of Patient-Reported Improvement in Sex Drive, Erectile Function, and Energy With Testosterone Solution 2. <i>Journal of Sexual Medicine</i> , 2016 , 13, 1212-9 | 1.1 | 10 |
| 26 | Serum Testosterone is Inversely and Sex Hormone-binding Globulin is Directly Associated with All-cause Mortality in Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2021 , 106, e625-e637 | 5.6 | 10 |
| 25 | The androgen receptor gene CAG repeat ?in relation to 4-year changes in ?androgen-sensitive endpoints in ?community-dwelling older European men. <i>European Journal of Endocrinology</i> , 2016 , 175, 583-593 | 6.5 | 9 |
| 24 | Sex hormone-binding globulin has no effect on salivary testosterone. <i>Annals of Clinical Biochemistry</i> , 2016 , 53, 717-720 | 2.2 | 8 |
| 23 | Androgen receptor polymorphism-dependent variation in prostate-specific antigen concentrations of European men. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2014 , 23, 2048-56 | 4 | 7 |
| 22 | Sociodemographic, lifestyle and medical influences on serum testosterone and sex hormone-binding globulin in men from UK Biobank. <i>Clinical Endocrinology</i> , 2021 , 94, 290-302 | 3.4 | 7 |
| 21 | The association between different cognitive domains and age in a multi-centre study of middle-aged and older European men. <i>International Journal of Geriatric Psychiatry</i> , 2009 , 24, 1257-66 | 3.9 | 6 |
| 20 | The ESR1 (6q25) locus is associated with calcaneal ultrasound parameters and radial volumetric bone mineral density in European men. <i>PLoS ONE</i> , 2011 , 6, e22037 | 3.7 | 6 |
| 19 | Ethnic differences in male reproductive hormones and relationships with adiposity and insulin resistance in older men. <i>Clinical Endocrinology</i> , 2017 , 86, 660-668 | 3.4 | 5 |
| 18 | Relationship of Anabolic Hormones With Motor Unit Characteristics in Quadriceps Muscle in Healthy and Frail Aging Men. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2020 , 105, | 5.6 | 5 |
| 17 | Registry of Hypogonadism in Men (RHYME): design of a multi-national longitudinal, observational registry of exogenous testosterone use in hypogonadal men. <i>Aging Male</i> , 2013 , 16, 1-7 | 2.1 | 5 |
| 16 | Low heel ultrasound parameters predict mortality in men: results from the European Male Ageing Study (EMAS). <i>Age and Ageing</i> , 2015 , 44, 801-7 | 3 | 4 |

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| 15 | Society for Endocrinology guidelines for testosterone replacement therapy in male hypogonadism. <i>Clinical Endocrinology</i> , 2021 , 96, 200 | 3.4 | 4 |
| 14 | Lower serum testosterone concentrations are associated with a higher incidence of dementia in men: The UK Biobank prospective cohort study.. <i>Alzheimers and Dementia</i> , 2022 , | 1.2 | 4 |
| 13 | Perturbed insulin-like growth factor-1 (IGF-1) and IGF binding protein-3 are not associated with chronic widespread pain in men: results from the European Male Ageing Study. <i>Journal of Rheumatology</i> , 2009 , 36, 2523-30 | 4.1 | 3 |
| 12 | Longitudinal changes in serum testosterone and sex hormone-binding globulin in men aged 40-69 years from the UK Biobank. <i>Clinical Endocrinology</i> , 2021 , | 3.4 | 3 |
| 11 | Diagnosing secondary hypogonadism: important consequences for fertility and reversibility. <i>BJU International</i> , 2016 , 117, 552-4 | 5.6 | 3 |
| 10 | Inflammatory markers are associated with quality of life, physical activity, and gait speed but not sarcopenia in aged men (40-79 years). <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2021 , | 10.3 | 3 |
| 9 | Self-Reported Shorter Than Desired Ejaculation Latency and Related Distress-Prevalence and Clinical Correlates: Results From the European Male Ageing Study. <i>Journal of Sexual Medicine</i> , 2021 , 18, 908-919 | 1.1 | 2 |
| 8 | Gonadotropin-releasing hormone receptor mutations in ageing men. <i>Clinical Endocrinology</i> , 2016 , 84, 150-1 | 3.4 | 1 |
| 7 | Associations of Serum Testosterone and Sex Hormone-Binding Globulin With Incident Cardiovascular Events in Middle-Aged to Older Men.. <i>Annals of Internal Medicine</i> , 2021 , | 8 | 1 |
| 6 | Ageing male (part 2): Management of functional hypogonadism in older men, a patient-centric holistic approach.. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2022 , 101626 | 6.5 | 1 |
| 5 | Ageing male (part 1): Pathophysiology and diagnosis of functional hypogonadism.. <i>Best Practice and Research in Clinical Endocrinology and Metabolism</i> , 2022 , 101622 | 6.5 | 0 |
| 4 | Reproductive hormone levels, androgen receptor CAG repeat length and their longitudinal relationships with decline in cognitive subdomains in men: The European Male Ageing Study.. <i>Physiology and Behavior</i> , 2022 , 252, 113825 | 3.5 | 0 |
| 3 | Obesity and Aging in Late-Onset Hypogonadism 2017 , 349-366 | | |
| 2 | Clinical Manifestation and Diagnosis of Androgen Deficiency. <i>Endocrinology</i> , 2017 , 669-686 | 0.1 | |
| 1 | Clinical Manifestation and Diagnosis of Androgen Deficiency. <i>Endocrinology</i> , 2017 , 1-18 | 0.1 | |