

# Pieter Swart

## List of Publications by Year in descending order

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88  
papers

2,239  
citations

218592

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90  
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90  
docs citations

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times ranked

2467  
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#	ARTICLE	IF	CITATIONS
1	11 $\beta$ -Hydroxydihydrotestosterone and 11-ketodihydrotestosterone, novel C19 steroids with androgenic activity: A putative role in castration resistant prostate cancer?. <i>Molecular and Cellular Endocrinology</i> , 2013, 377, 135-146.	1.6	148
2	UF of pulp and paper effluent: membrane fouling-prevention and cleaning. <i>Journal of Membrane Science</i> , 2002, 209, 81-92.	4.1	119
3	Inhibition of tumour promotion in mouse skin by extracts of rooibos ( <i>Aspalathus linearis</i> ) and honeybush ( <i>Cyclopia intermedia</i> ), unique South African herbal teas. <i>Cancer Letters</i> , 2005, 224, 193-202.	3.2	106
4	Chemoprotective properties of rooibos ( <i>Aspalathus linearis</i> ), honeybush ( <i>Cyclopia intermedia</i> ) herbal and green and black ( <i>Camellia sinensis</i> ) teas against cancer promotion induced by fumonisin B1 in rat liver. <i>Food and Chemical Toxicology</i> , 2009, 47, 220-229.	1.8	103
5	Feed-water pretreatment: methods to reduce membrane fouling by natural organic matter. <i>Journal of Membrane Science</i> , 1999, 163, 51-62.	4.1	95
6	Modulation of Hepatic Drug Metabolizing Enzymes and Oxidative Status by Rooibos ( <i>Aspalathus</i> ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 of <i>Agricultural and Food Chemistry</i> , 2003, 51, 8113-8119.	2.4	94
7	11 $\beta$ -Hydroxyandrostenedione, the product of androstenedione metabolism in the adrenal, is metabolized in LNCaP cells by 5 $\alpha$ -reductase yielding 11 $\beta$ -hydroxy-5 $\alpha$ -androstenedione. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2013, 138, 132-142.	1.2	80
8	The influence of <i>Aspalathus linearis</i> (Rooibos) and dihydrochalcones on adrenal steroidogenesis: Quantification of steroid intermediates and end products in H295R cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 128, 128-138.	1.2	75
9	Lipoxygenases: From Isolation to Application. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2017, 16, 199-211.	5.9	69
10	Discovery of Compound A - a selective activator of the glucocorticoid receptor with anti-inflammatory and anti-cancer activity. <i>Oncotarget</i> , 2015, 6, 30730-30744.	0.8	61
11	Enzymatic cleaning of ultrafiltration membranes fouled by abattoir effluent. <i>Journal of Membrane Science</i> , 2003, 218, 107-116.	4.1	59
12	A microbiological, biochemical and sensory characterisation of bovine milk treated by heat and ultraviolet (UV) light for manufacturing Cheddar cheese. <i>Innovative Food Science and Emerging Technologies</i> , 2014, 23, 94-106.	2.7	59
13	Estrogenic activity, chemical levels and health risk assessment of municipal distribution point water from Pretoria and Cape Town, South Africa. <i>Chemosphere</i> , 2017, 186, 305-313.	4.2	49
14	Mechanism for the stabilization in vivo of the aziridine precursor 2-(4-acetoxyphenyl)-2-chloro-N-methyl-ethylammonium chloride by serum proteins. <i>Biochemical Pharmacology</i> , 1997, 53, 189-197.	2.0	48
15	An enzymatic approach to the cleaning of ultrafiltration membranes fouled in abattoir effluent. <i>Journal of Membrane Science</i> , 1996, 119, 9-16.	4.1	46
16	Advances in the analytical methodologies: Profiling steroids in familiar pathways-challenging dogmas. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 153, 80-92.	1.2	45
17	A single amino acid residue, Ala 105, confers 16 $\alpha$ -hydroxylase activity to human cytochrome P450 17 $\alpha$ -hydroxylase/17,20 lyase. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2010, 119, 112-120.	1.2	41
18	Humic membrane foulants in natural brown water: characterization and removal. <i>Desalination</i> , 1998, 115, 215-227.	4.0	39

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19	Functional expression and characterisation of human cytochrome P45017 $\beta$ in <i>Pichia pastoris</i> . <i>Journal of Biotechnology</i> , 2007, 129, 635-644.	1.9	37
20	Membrane Pretreatment: A Method for Reducing Fouling by Natural Organic Matter. <i>Journal of Colloid and Interface Science</i> , 2000, 221, 137-142.	5.0	36
21	Anti-Inflammatory Effects of <i>Aspalathus linearis</i> and <i>Cyclopia</i> spp. Extracts in a UVB/Keratinocyte (HaCaT) Model Utilising Interleukin-1 $\beta$ Accumulation as Biomarker. <i>Molecules</i> , 2016, 21, 1323.	1.7	36
22	Developmental Trauma is Associated with Behavioral Hyperarousal, Altered HPA Axis Activity, and Decreased Hippocampal Neurotrophin Expression in the Adult Rat. <i>Annals of the New York Academy of Sciences</i> , 2006, 1071, 542-546.	1.8	33
23	Ex vivo modulation of chemical-induced mutagenesis by subcellular liver fractions of rats treated with rooibos ( <i>Aspalathus linearis</i> ) tea, honeybush ( <i>Cyclopia intermedia</i> ) tea, as well as green and black ( <i>Camellia sinensis</i> ) teas. <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2004, 558, 145-154.	0.9	32
24	The Effect of <i>Sutherlandia frutescens</i> Steroidogenesis: Confirming Indigenous Wisdom. <i>Endocrine Research</i> , 2004, 30, 745-751.	0.6	31
25	The development of an ultra performance liquid chromatography-coupled atmospheric pressure chemical ionization mass spectrometry assay for seven adrenal steroids. <i>Analytical Biochemistry</i> , 2008, 372, 11-20.	1.1	31
26	Cytochrome b5: Novel roles in steroidogenesis. <i>Molecular and Cellular Endocrinology</i> , 2013, 371, 87-99.	1.6	30
27	The influence of <i>Sutherlandia frutescens</i> on adrenal steroidogenic cytochrome P450 enzymes. <i>Journal of Ethnopharmacology</i> , 2008, 118, 118-126.	2.0	26
28	Cytochrome b5 modulates multiple reactions in steroidogenesis by diverse mechanisms. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2015, 151, 66-73.	1.2	25
29	Inhibition of Cytochrome P-45011 $\beta$ by Some Naturally Occurring Acetophenones and Plant Extracts from the Shrub <i>Salsola tuberculiformis</i> . <i>Planta Medica</i> , 1993, 59, 139-143.	0.7	23
30	Influence of an aziridine precursor on the in vitro binding parameters of rat and ovine corticosteroid-binding globulin (CBG). <i>Biochemical Pharmacology</i> , 2000, 59, 167-175.	2.0	22
31	Biological activities of the shrub <i>Salsola tuberculiformis</i> Botsch.: Contraceptive or stress alleviator?. <i>BioEssays</i> , 2003, 25, 612-619.	1.2	22
32	16 $\beta$ -Hydroxyprogesterone: Origin, biosynthesis and receptor interaction. <i>Molecular and Cellular Endocrinology</i> , 2011, 336, 92-101.	1.6	22
33	Ovine steroid 17 $\beta$ -hydroxylase cytochrome P450: characteristics of the hydroxylase and lyase activities of the adrenal cortex enzyme. <i>Archives of Biochemistry and Biophysics</i> , 2003, 409, 145-152.	1.4	20
34	A robust approach to studying the adsorption of Pluronic F108 on nonporous membranes. <i>Journal of Colloid and Interface Science</i> , 2005, 282, 306-313.	5.0	20
35	The Identification of Two CYP17 Alleles in the South African Angora Goat. <i>Drug Metabolism Reviews</i> , 2007, 39, 467-480.	1.5	20
36	Cytochrome P450 side-chain cleavage: Insights gained from homology modeling. <i>Molecular and Cellular Endocrinology</i> , 2007, 265-266, 65-70.	1.6	20

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37	The potential role of polyphenols in the modulation of skin cell viability by <i>Aspalathus linearis</i> and <i>Cyclopia</i> spp. herbal tea extracts <i>in vitro</i> . <i>Journal of Pharmacy and Pharmacology</i> , 2016, 68, 1440-1453.	1.2	20
38	Removal of natural organic matter by ultrafiltration: Characterisation, fouling and cleaning. <i>Water Science and Technology</i> , 1999, 40, 113.	1.2	18
39	Baboon cytochrome P450 17 $\alpha$ -hydroxylase/17,20-lyase (CYP17). <i>FEBS Journal</i> , 2002, 269, 5608-5616.	0.2	18
40	Rooibos influences glucocorticoid levels and steroid ratios <i>in vivo</i> and <i>in vitro</i> : a natural approach in the management of stress and metabolic disorders?. <i>Molecular Nutrition and Food Research</i> , 2014, 58, 537-549.	1.5	18
41	The interaction of analogues of the antimicrobial lipopeptide, iturin A 2, with alkali metal ions. <i>Biorganic and Medicinal Chemistry</i> , 2000, 8, 2539-2548.	1.4	17
42	In Vitro Chemopreventive Properties of Green Tea, Rooibos and Honeybush Extracts in Skin Cells. <i>Molecules</i> , 2016, 21, 1622.	1.7	17
43	Estrogenic activity, selected plasticizers and potential health risks associated with bottled water in South Africa. <i>Journal of Water and Health</i> , 2018, 16, 253-262.	1.1	17
44	Recovery of trypsin inhibitor and soy milk protein concentration by dynamic filtration. <i>Journal of Membrane Science</i> , 2006, 279, 291-300.	4.1	16
45	Facile immobilization of enzymes on electrospun poly(styrene-alt-maleic anhydride) nanofibres. <i>Polymer Chemistry</i> , 2011, 2, 1479.	1.9	15
46	The effect of cytochrome b5 on progesterone metabolism in the ovine adrenal. <i>Endocrine Research</i> , 1995, 21, 297-306.	0.6	14
47	Sequence specific stabilization of a linear analog of the antifungal lipopeptide iturin A2 by sodium during low energy electrospray ionization mass spectrometry conditions. <i>Journal of the American Society for Mass Spectrometry</i> , 2001, 12, 505-516.	1.2	13
48	Cytochrome b5 augments 3 $\beta$ -hydroxysteroid dehydrogenase/5 $\beta$ - $\Delta^4$ isomerase activity. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2011, 127, 238-247.	1.2	12
49	What are the $^m$ s in a whisker? High-throughput analysis of twenty-eight C19 and C21 steroids in mammalian whiskers by ultra-performance convergence chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1141, 122028.	1.2	12
50	Characterisation techniques for organic foulants adsorbed onto flat-sheet UF membranes used in abattoir effluent. <i>Journal of Membrane Science</i> , 1996, 119, 1-8.	4.1	11
51	Exploration of the Hypothalamic-Pituitary-Adrenal Axis to Improve Animal Welfare by Means of Genetic Selection: Lessons from the South African Merino. <i>Animals</i> , 2013, 3, 442-474.	1.0	11
52	Degradation of Proteins and Starch by Combined Immobilization of Protease, $\alpha$ -Amylase and $\beta$ -Galactosidase on a Single Electrospun Nanofibrous Membrane. <i>Molecules</i> , 2019, 24, 508.	1.7	11
53	Cytokinins in the xylem sap of the dioecious fynbos shrub, <i>Leucadendron rubrum</i> Burm. f.: seasonal fluctuations and their possible interaction with morphological characteristics as expressed in the two sexes. <i>New Phytologist</i> , 1994, 127, 749-759.	3.5	10
54	Effect of UV-C Disinfection of Beer - Sensory Analyses and Consumer Ranking. <i>Journal of the Institute of Brewing</i> , 2010, 116, 348-353.	0.8	10

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55	Surfactant formulations for multi-functional surface modification. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 331, 97-102.	2.3	9
56	Two CYP17 genes in the South African Angora goat ( <i>Capra hircus</i> ) – the identification of three genotypes that differ in copy number and steroidogenic output. <i>FEBS Journal</i> , 2008, 275, 3934-3943.	2.2	9
57	Hypocortisolism in the South African Angora goat: The role of 3 $\beta$ HSD. <i>Molecular and Cellular Endocrinology</i> , 2010, 315, 182-187.	1.6	9
58	Cortisol production in sheep is influenced by the functional expression of two cytochrome P450 17 $\alpha$ -hydroxylase/17,20-lyase (CYP17) isoforms. <i>Journal of Animal Science</i> , 2013, 91, 1193-1206.	0.2	9
59	Expression of human P450C17 as an export protein in <i>Saccharomyces cerevisiae</i> . <i>Endocrine Research</i> , 1995, 21, 289-295.	0.6	7
60	Adsorbed surfactants for affinity chromatography. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2003, 13, 1381-1384.	1.0	7
61	CYP17 causes hypocortisolism in the South African Angora goat. <i>Molecular and Cellular Endocrinology</i> , 2009, 300, 121-125.	1.6	7
62	Cytochrome b5 forms homomeric complexes in living cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2012, 132, 311-321.	1.2	7
63	SHEEP ADRENAL CYTOCHROME b5: ACTIVE AS A MONOMER OR A TETRAMER IN VIVO?. <i>Endocrine Research</i> , 2002, 28, 485-492.	0.6	6
64	A Pluronic-coupled metal-chelating ligand for membrane affinity chromatography. <i>Journal of Membrane Science</i> , 2006, 279, 120-128.	4.1	6
65	Relative contribution of P450c17 towards the acute cortisol response: Lessons from sheep and goats. <i>Molecular and Cellular Endocrinology</i> , 2015, 408, 107-113.	1.6	6
66	Micro-assay for sheep 11 $\beta$ -hydroxylase activity using high-performance liquid chromatography for steroid analysis. <i>Journal of Chromatography A</i> , 1988, 442, 424-430.	1.8	5
67	Investigations on the Spectral Interactions of Fusarin C with Rat Liver Microsomal Cytochrome P-450. <i>Xenobiotica</i> , 1988, 18, 1005-1014.	0.5	5
68	The application of mass spectrometry in the study of labile natural products. <i>Biochemical Society Transactions</i> , 1991, 19, 432S-432S.	1.6	5
69	The electron impact and fast atom bombardment mass spectrometry of aziridines and their 2-chloroethylamine precursors. <i>Biological Mass Spectrometry</i> , 1992, 21, 672-674.	0.5	5
70	Application of fast atom bombardment mass spectrometry for the analysis of biologically active compounds. <i>Analytica Chimica Acta</i> , 1993, 279, 163-166.	2.6	5
71	Antibody production to adrenal cytochrome P450-dependent enzymes using acid-treated bacteria as immune carriers. <i>Biochemical Society Transactions</i> , 1993, 21, 414S-414S.	1.6	5
72	Localisation of <i>Thermomyces lanuginosus</i> SSBP xylanase on polysulphone membranes using immunogold labelling and environmental scanning electron microscopy (ESEM). <i>Process Biochemistry</i> , 2003, 38, 939-943.	1.8	5

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73	The Influence of the Amino Acid Substitution I98K on the Catalytic Activity of Baboon Cytochrome P450 Side-Chain Cleavage (CYP11A1). <i>Endocrine Research</i> , 2004, 30, 761-767.	0.6	5
74	The metabolic fate and receptor interaction of 16 $\beta$ -hydroxyprogesterone and its 5 $\beta$ -reduced metabolite, 16 $\beta$ -hydroxy-dihydroprogesterone. <i>Molecular and Cellular Endocrinology</i> , 2017, 441, 86-98.	1.6	5
75	Sequence of the 11 $\beta$ -hydroxylase gene from the cape baboon ( <i>Papio Ursinus</i> ). <i>Endocrine Research</i> , 1996, 22, 495-499.	0.6	4
76	Affinity chromatography using biocompatible and reusable biotinylated membranes. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007, 859, 1-8.	1.2	4
77	Endocrine disrupting chemicals in commercially available cling film brands in South Africa. <i>Human and Ecological Risk Assessment (HERA)</i> , 2019, 25, 1633-1644.	1.7	4
78	Evidence of a Steroidogenic Enzyme Gene Dose Effect on Adrenal Gene Expression in Hereditary Rabbit Congenital Adrenal Hyperplasia. <i>Pediatric Research</i> , 1994, 36, 660-666.	1.1	3
79	BABOON CYP11B1: THE LOCALIZATION AND CATALYTIC ACTIVITY IN BABOON ADRENAL TISSUE. <i>Endocrine Research</i> , 2002, 28, 477-484.	0.6	3
80	Recovery of trypsin inhibitor by soy milk ultrafiltration using a rotating disk system. <i>Desalination</i> , 2006, 191, 438-445.	4.0	3
81	Allosteric interaction between 3 $\beta$ -hydroxysteroid dehydrogenase/ <sup>5</sup> $\alpha$ - <sup>4</sup> isomerase and cytochrome b <sub>5</sub> influences cofactor binding. <i>FASEB Journal</i> , 2013, 27, 322-332.	0.2	3
82	An Apparatus for the Concentration of Large Volumes of Dilute Protein Solutions to A Predetermined Volume. <i>Preparative Biochemistry and Biotechnology</i> , 1985, 15, 1-8.	0.4	1
83	The interaction of biogenic amines with adrenal cytochrome P450-dependent enzymes. <i>Biochemical Society Transactions</i> , 1993, 21, 413S-413S.	1.6	1
84	An investigation of hypo-adrenocorticism in angora goats. <i>Endocrine Research</i> , 1996, 22, 563-565.	0.6	1
85	Evidence for the functional role of residues in the B $\alpha$ -C loop of baboon cytochrome P450 side-chain cleavage (CYP11A1) obtained by site-directed mutagenesis, kinetic analysis and homology modelling. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2007, 103, 65-75.	1.2	1
86	Computational modelling of the $\beta$ 4 and $\beta$ 5 adrenal steroidogenic pathways provides insight into hypocortisolism. <i>Molecular and Cellular Endocrinology</i> , 2021, 526, 111194.	1.6	1
87	A Novel Method for the Preparation of Substrate-Free Cytochrome P-45011 $\beta$ . <i>Preparative Biochemistry and Biotechnology</i> , 1985, 15, 281-290.	0.4	0
88	Aqua[3,6-bis(methoxycarbonylmethyl)-3,6-diazaoctanedioato]copper(II) dihydrate. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2006, 62, m355-m357.	0.2	0