

# Silvana A Andric

## List of Publications by Citations

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70  
papers

1,631  
citations

25  
h-index

38  
g-index

80  
ext. papers

1,816  
ext. citations

4  
avg, IF

4.3  
L-index

#	Paper	IF	Citations
70	Nitric oxide-scavenging activity of polyhydroxylated fullereneol, C <sub>60</sub> (OH) <sub>24</sub> . <i>Nitric Oxide - Biology and Chemistry</i> , <b>2004</b> , 11, 201-7	5	154
69	cGMP signaling pathway is involved in Leydig cell stress response. <i>BMC Pharmacology</i> , <b>2007</b> , 7,		78
68	Hydroxyurea nitrosylates and activates soluble guanylyl cyclase in human erythroid cells. <i>Blood</i> , <b>2008</b> , 111, 1117-23	2.2	77
67	Inhibition of rat testicular androgenesis by a polychlorinated biphenyl mixture aroclor 1248. <i>Biology of Reproduction</i> , <b>2000</b> , 62, 1882-8	3.9	69
66	Sildenafil treatment in vivo stimulates Leydig cell steroidogenesis via the cAMP/cGMP signaling pathway. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2010</b> , 299, E544-50	6	55
65	Inhibitory effects of stress-activated nitric oxide on antioxidant enzymes and testicular steroidogenesis. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2000</b> , 75, 299-306	5.1	52
64	Spontaneous and receptor-controlled soluble guanylyl cyclase activity in anterior pituitary cells. <i>Molecular Endocrinology</i> , <b>2001</b> , 15, 1010-22		51
63	Protein kinase G-mediated stimulation of basal Leydig cell steroidogenesis. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2007</b> , 293, E1399-408	6	49
62	Testosterone-induced modulation of nitric oxide-cGMP signaling pathway and androgenesis in the rat Leydig cells. <i>Biology of Reproduction</i> , <b>2010</b> , 83, 434-42	3.9	47
61	Contribution of multidrug resistance protein MRP5 in control of cyclic guanosine 5'-monophosphate intracellular signaling in anterior pituitary cells. <i>Endocrinology</i> , <b>2006</b> , 147, 3435-45	4.8	43
60	The involvement of nitric oxide in stress-impaired testicular steroidogenesis. <i>European Journal of Pharmacology</i> , <b>1998</b> , 346, 267-73	5.3	41
59	New D-modified androstane derivatives as aromatase inhibitors. <i>Steroids</i> , <b>2001</b> , 66, 645-53	2.8	39
58	Characterization of a plasma membrane calcium oscillator in rat pituitary somatotrophs. <i>Journal of Biological Chemistry</i> , <b>1999</b> , 274, 35693-702	5.4	38
57	Synthesis and biological evaluation of some 17-picolyl and 17-picolinylidene androst-5-ene derivatives. <i>Steroids</i> , <b>2007</b> , 72, 31-40	2.8	34
56	Synthesis of some epoxy and/or N-oxy 17-picolyl and 17-picolinylidene-androst-5-ene derivatives and evaluation of their biological activity. <i>Steroids</i> , <b>2008</b> , 73, 129-38	2.8	32
55	Dependence of electrical activity and calcium influx-controlled prolactin release on adenylyl cyclase signaling pathway in pituitary lactotrophs. <i>Molecular Endocrinology</i> , <b>2006</b> , 20, 2231-46		32
54	Circadian rhythm of the Leydig cells endocrine function is attenuated during aging. <i>Experimental Gerontology</i> , <b>2016</b> , 73, 5-13	4.5	31

53	Pharmacological doses of testosterone upregulated androgen receptor and 3-Beta-hydroxysteroid dehydrogenase/delta-5-delta-4 isomerase and impaired leydig cells steroidogenesis in adult rats. <i>Toxicological Sciences</i> , <b>2011</b> , 121, 397-407	4.4	31
52	Synthesis and biological evaluation of some new A,B-ring modified steroidal D-lactones. <i>Steroids</i> , <b>2008</b> , 73, 681-8	2.8	31
51	Repeated immobilization stress disturbed steroidogenic machinery and stimulated the expression of cAMP signaling elements and adrenergic receptors in Leydig cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2012</b> , 302, E1239-51	6	29
50	Age related changes of cAMP and MAPK signaling in Leydig cells of Wistar rats. <i>Experimental Gerontology</i> , <b>2014</b> , 58, 19-29	4.5	28
49	Synthesis, X-ray crystal structures and biological activity of 16-amino-17-substituted-D-homo steroid derivatives. <i>Steroids</i> , <b>2003</b> , 68, 667-76	2.8	28
48	Melatonin replacement restores the circadian behavior in adult rat Leydig cells after pinealectomy. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 413, 26-35	4.4	26
47	Synthesis, structure, and screening of estrogenic and antiestrogenic activity of new 3,17-substituted-16,17-seco-estratriene derivatives. <i>Bioorganic Chemistry</i> , <b>2003</b> , 31, 475-84	5.1	26
46	Receptor-controlled phosphorylation of alpha 1 soluble guanylyl cyclase enhances nitric oxide-dependent cyclic guanosine 5' monophosphate production in pituitary cells. <i>Molecular Endocrinology</i> , <b>2004</b> , 18, 458-70		25
45	Anabolic-androgenic steroids induce apoptosis and NOS2 (nitric-oxide synthase 2) in adult rat Leydig cells following in vivo exposure. <i>Reproductive Toxicology</i> , <b>2012</b> , 34, 686-93	3.4	24
44	Dependence of soluble guanylyl cyclase activity on calcium signaling in pituitary cells. <i>Journal of Biological Chemistry</i> , <b>2001</b> , 276, 844-9	5.4	23
43	Luteinizing hormone signaling is involved in synchronization of Leydig cell's clock and is crucial for rhythm robustness of testosterone production. <i>Biology of Reproduction</i> , <b>2019</b> , 100, 1406-1415	3.9	22
42	Insulin and IGF1 receptors are essential for the development and steroidogenic function of adult Leydig cells. <i>FASEB Journal</i> , <b>2018</b> , 32, 3321-3335	0.9	21
41	Structural complexity of the testis and PKG I / StAR interaction regulate the Leydig cell adaptive response to repeated immobilization stress. <i>Journal of Developmental and Physical Disabilities</i> , <b>2010</b> , 33, 717-29		21
40	The effect of opioid antagonists in local regulation of testicular response to acute stress in adult rats. <i>Steroids</i> , <b>1997</b> , 62, 703-8	2.8	21
39	Effect of a PCB-based transformer oil on testicular steroidogenesis and xenobiotic-metabolizing enzymes. <i>Reproductive Toxicology</i> , <b>2006</b> , 22, 102-10	3.4	21
38	The opposing roles of nitric oxide and cGMP in the age-associated decline in rat testicular steroidogenesis. <i>Endocrinology</i> , <b>2013</b> , 154, 3914-24	4.8	20
37	The adaptive response of adult rat Leydig cells to repeated immobilization stress: the role of protein kinase A and steroidogenic acute regulatory protein. <i>Stress</i> , <b>2008</b> , 11, 370-80	3	20
36	Synthesis and Biological Activity of New 16,17-Secoestrone Derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2000</b> , 65, 77-82		20

35	The opposite roles of glucocorticoid and $\beta$ -adrenergic receptors in stress triggered apoptosis of rat Leydig cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 304, E51-9	6	18
34	Transient rise of serum testosterone level after single sildenafil treatment of adult male rats. <i>Journal of Sexual Medicine</i> , <b>2012</b> , 9, 2534-43	1.1	16
33	Stress triggers mitochondrial biogenesis to preserve steroidogenesis in Leydig cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2015</b> , 1853, 2217-27	4.9	16
32	Nitric oxide inhibits prolactin secretion in pituitary cells downstream of voltage-gated calcium influx. <i>Endocrinology</i> , <b>2003</b> , 144, 2912-21	4.8	16
31	Calcium-independent and cAMP-dependent modulation of soluble guanylyl cyclase activity by G protein-coupled receptors in pituitary cells. <i>Journal of Biological Chemistry</i> , <b>2002</b> , 277, 16412-8	5.4	16
30	Endothelin-induced, long lasting, and Ca <sup>2+</sup> influx-independent blockade of intrinsic secretion in pituitary cells by G $\alpha$ subunits. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 26896-903	5.4	16
29	In vivo blockade of $\beta$ -adrenergic receptors mitigates stress-disturbed cAMP and cGMP signaling in Leydig cells. <i>Molecular Human Reproduction</i> , <b>2014</b> , 20, 77-88	4.4	15
28	Orally applied doxazosin disturbed testosterone homeostasis and changed the transcriptional profile of steroidogenic machinery, cAMP/cGMP signalling and adrenergic receptors in Leydig cells of adult rats. <i>Andrology</i> , <b>2013</b> , 1, 332-47	4.2	15
27	Sustained in vivo blockade of $\beta$ adrenergic receptors prevented some of stress-triggered effects on steroidogenic machinery in Leydig cells. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , <b>2013</b> , 305, E194-204	6	15
26	Parallelism and dissociation in the actions of an Aroclor 1260-based transformer fluid on testicular androgenesis and antioxidant enzymes. <i>Toxicology</i> , <b>2003</b> , 194, 65-75	4.4	14
25	Multiple roles of Gi/o protein-coupled receptors in control of action potential secretion coupling in pituitary lactotrophs. <i>Annals of the New York Academy of Sciences</i> , <b>2009</b> , 1152, 174-86	6.5	12
24	Molecular adaptations of testosterone-producing Leydig cells during systemic in vivo blockade of the androgen receptor. <i>Molecular and Cellular Endocrinology</i> , <b>2014</b> , 396, 10-25	4.4	11
23	Aging has the opposite effect on cAMP and cGMP circadian variations in rat Leydig cells. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , <b>2017</b> , 187, 613-623	2.2	10
22	Prolonged in vivo administration of testosterone-enanthate, the widely used and abused anabolic androgenic steroid, disturbs prolactin and cAMP signaling in Leydig cells of adult rats. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , <b>2015</b> , 149, 58-69	5.1	9
21	Long-term inhibition of PDE5 ameliorates aging-induced changes in rat testis. <i>Experimental Gerontology</i> , <b>2018</b> , 108, 139-148	4.5	9
20	Insulin/IGF1 signaling regulates the mitochondrial biogenesis markers in steroidogenic cells of prepubertal testis, but not ovary. <i>Biology of Reproduction</i> , <b>2019</b> , 100, 253-267	3.9	9
19	Evaluation of biological activity of new hemiesters of 17-hydroxy-16,17-secoestra-1,3,5(10)-triene-16-nitrile. <i>Medicinal Chemistry Research</i> , <b>2011</b> , 20, 1102-1110 <sup>2</sup>		8
18	Synthesis, X-ray Crystal Structure and Antiestrogenic Activity of 17-Methyl-16,17-secoestra-1,3,5(10)-triene Derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2005</b> , 70, 63-71		8

17	Synthesis and Estrogenic Activity Screening of Some 6,9-Disubstituted Estradiol Derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2005</b> , 70, 479-486		6
16	Dependence of Leydig Cell's Mitochondrial Physiology on Luteinizing Hormone Signaling. <i>Life</i> , <b>2020</b> , 11,	3	6
15	Aging-Related Increase of cGMP Disrupts Mitochondrial Homeostasis in Leydig Cells. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , <b>2021</b> , 76, 177-186	6.4	6
14	Reduced spermatozoa functionality during stress is the consequence of adrenergic-mediated disturbance of mitochondrial dynamics markers. <i>Scientific Reports</i> , <b>2020</b> , 10, 16813	4.9	5
13	Regulation of Leydig cell steroidogenesis: intriguing network of signaling pathways and mitochondrial signalosome. <i>Current Opinion in Endocrine and Metabolic Research</i> , <b>2019</b> , 6, 7-20	1.7	4
12	Intratesticular alpha1-adrenergic receptors mediate stress-disturbed transcription of steroidogenic stimulator NUR77 as well as steroidogenic repressors DAX1 and ARR19 in Leydig cells of adult rats. <i>Molecular and Cellular Endocrinology</i> , <b>2015</b> , 412, 309-19	4.4	3
11	Teaching Animal Physiology: a 12-year experience transitioning from a classical to interactive approach with continual assessment and computer alternatives. <i>American Journal of Physiology - Advances in Physiology Education</i> , <b>2017</b> , 41, 405-414	1.9	2
10	Growing Up Under Constant Light: A Challenge to the Endocrine Function of the Leydig Cells. <i>Frontiers in Endocrinology</i> , <b>2021</b> , 12, 653602	5.7	2
9	Mitochondrial Dynamics Markers and Related Signaling Molecules Are Important Regulators of Spermatozoa Number and Functionality. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	2
8	Dependence of prolactin release on coupling between Ca(2+) mobilization and voltage-gated Ca(2+) influx pathways in rat lactotrophs. <i>Endocrine</i> , <b>2003</b> , 20, 45-52		1
7	Deficiency in insulin-like growth factors signalling in mouse Leydig cells increase conversion of testosterone to estradiol because of feminization. <i>Acta Physiologica</i> , <b>2021</b> , 231, e13563	5.6	1
6	D-Secoestrone derivatives. VI. 17 beta-Benzyl-17 alpha-hydroxy-3-methoxyestra-1,3,5(10)-trien-16-one. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>2002</b> , 58, o172-3		0
5	Synthesis and Biological Evaluation of 17-[4-(2-Aminoethoxy)phenyl]-16,17-secoestra-1,3,5(10)-triene Derivatives. <i>Collection of Czechoslovak Chemical Communications</i> , <b>2007</b> , 72, 403-410		0
4	Stress-induced glucocorticoids alter the Leydig cells timing and steroidogenesis-related systems. <i>Molecular and Cellular Endocrinology</i> , <b>2021</b> , 538, 111469	4.4	0
3	Involvement of nitric oxide-cGMP signaling in Leydig cell stress response. <i>FASEB Journal</i> , <b>2007</b> , 21, A622.9		
2	Protein kinase G-dependent stimulation of Leydig cell steroidogenesis. <i>FASEB Journal</i> , <b>2007</b> , 21, A622	0.9	
1	4249 Markers of mitochondrial biogenesis, fusion and architecture are disturbed in PBMC from war veterans with posttraumatic stress disorder (PTSD). <i>Journal of Clinical and Translational Science</i> , <b>2020</b> , 4, 98-99	0.4	