

# Luna Samanta

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

88  
papers

1,435  
citations

22  
h-index

34  
g-index

117  
ext. papers

1,724  
ext. citations

3.2  
avg, IF

4.92  
L-index

#	Paper	IF	Citations
88	Harnessing the potential of dialdehyde alginate-xanthan gum hydrogels as niche bioscaffolds for tissue engineering.. <i>International Journal of Biological Macromolecules</i> , <b>2022</b> , 207, 493-506	7.9	1
87	Paternal factors in recurrent pregnancy loss: an insight through analysis of non-synonymous single-nucleotide polymorphism in human testis-specific chaperone HSPA2 gene. <i>Environmental Science and Pollution Research</i> , <b>2021</b> , 1	5.1	0
86	Paternal contributors in recurrent pregnancy loss: Cues from comparative proteome profiling of seminal extracellular vesicles. <i>Molecular Reproduction and Development</i> , <b>2021</b> , 88, 96-112	2.6	4
85	Protein Fingerprinting of Seminal Plasma Reveals Dysregulation of Exosome-Associated Proteins in Infertile Men with Unilateral Varicocele. <i>World Journal of Men's Health</i> , <b>2021</b> , 39, 324-337	6.8	18
84	Improved Chemosensitization Activity of Carboxymethyl Chitosan/PVA Hydrogels by Plasma Surface Modification. <i>Journal of Polymers and the Environment</i> , <b>2021</b> , 29, 1663-1679	4.5	1
83	Promoter sequence interaction and structure based multi-targeted (redox regulatory genes) molecular docking analysis of vitamin E and curcumin in T4 induced oxidative stress model using H9C2 cardiac cell line. <i>Journal of Biomolecular Structure and Dynamics</i> , <b>2021</b> , 1-20	3.6	1
82	Triazine-cored dendritic molecules containing multiple o-carborane clusters. <i>Applied Organometallic Chemistry</i> , <b>2020</b> , 34, e5754	3.1	2
81	Functional Analysis of Differentially Expressed Acetylated Spermatozoal Proteins in Infertile Men with Unilateral and Bilateral Varicocele. <i>International Journal of Molecular Sciences</i> , <b>2020</b> , 21,	6.3	6
80	Ritalinic Acid Stimulates Human Sperm Motility and Maintains Vitality. <i>World Journal of Men's Health</i> , <b>2020</b> , 38, 61-67	6.8	5
79	Proteomic Signatures in Spermatozoa Reveal the Role of Paternal Factors in Recurrent Pregnancy Loss. <i>World Journal of Men's Health</i> , <b>2020</b> , 38, 103-114	6.8	7
78	Aberrant Upregulation of Compensatory Redox Molecular Machines May Contribute to Sperm Dysfunction in Infertile Men with Unilateral Varicocele: A Proteomic Insight. <i>Antioxidants and Redox Signaling</i> , <b>2020</b> , 32, 504-521	8.4	15
77	Quantitative proteomics decodes clusterin as a critical regulator of paternal factors responsible for impaired compensatory metabolic reprogramming in recurrent pregnancy loss. <i>Andrologia</i> , <b>2020</b> , 52, e13498	2.4	5
76	High fat diet causes distinct aberrations in the testicular proteome. <i>International Journal of Obesity</i> , <b>2020</b> , 44, 1958-1969	5.5	10
75	Effect of Antioxidant Supplementation on the Sperm Proteome of Idiopathic Infertile Men. <i>Antioxidants</i> , <b>2019</b> , 8,	7.1	13
74	Presence of Round Cells Proteins do not Interfere with Identification of Human Sperm Proteins from Frozen Semen Samples by LC-MS/MS. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	7
73	Round cells do not contaminate or mask human sperm proteome in proteomic studies using cryopreserved samples. <i>Andrologia</i> , <b>2019</b> , 51, e13325	2.4	1
72	Effect of Bark Extract on Amelioration of Hyperglycaemia and Oxidative Stress Associated Complications in STZ-Induced Diabetic Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , <b>2019</b> , 2019, 8493190	2.3	7

71	Possible activation of NRF2 by Vitamin E/Curcumin against altered thyroid hormone induced oxidative stress via NFB/AKT/mTOR/KEAP1 signalling in rat heart. <i>Scientific Reports</i> , <b>2019</b> , 9, 7408	4.9	42
70	Bioactivity guided isolation of antidiabetic and antioxidant compound from J. Koenig bark. <i>Biotech</i> , <b>2019</b> , 9, 198	2.8	7
69	Bioactivity guided isolation and structural characterization of the antidiabetic and antioxidant compound from bark extract of <i>Avicennia officinalis</i> L. <i>South African Journal of Botany</i> , <b>2019</b> , 125, 109-115	2.9	1
68	Seminal exosomes proteome profiling reveal impaired cell signaling and defects in chromatin remodeling as paternal contributors in recurrent pregnancy loss patients. <i>Fertility and Sterility</i> , <b>2019</b> , 112, e50-e51	4.8	
67	Proteomic analysis reveals dysregulated cell signaling in ejaculated spermatozoa from infertile men. <i>Asian Journal of Andrology</i> , <b>2019</b> , 21, 121-130	2.8	9
66	Male Oxidative Stress Infertility (MOSI): Proposed Terminology and Clinical Practice Guidelines for Management of Idiopathic Male Infertility. <i>World Journal of Men's Health</i> , <b>2019</b> , 37, 296-312	6.8	151
65	Tracking research trends and hotspots in sperm DNA fragmentation testing for the evaluation of male infertility: a scientometric analysis. <i>Reproductive Biology and Endocrinology</i> , <b>2019</b> , 17, 110	5	14
64	Molecular Pathways Associated with Sperm Biofunction Are Not Affected by the Presence of Round Cell and Leukocyte Proteins in Human Sperm Proteome. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 1191-1197	5.6	7
63	Proteomic Signatures Reveal Differences in Stress Response, Antioxidant Defense and Proteasomal Activity in Fertile Men with High Seminal ROS Levels. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	20
62	Surface modification of cellulose/polyvinyl alcohol biocomposites by non-thermal argon plasma: applications towards biological relevance. <i>Cellulose</i> , <b>2019</b> , 26, 2437-2451	5.5	5
61	Oxidative Stress and Sperm Dysfunction <b>2019</b> , 261-275		3
60	Treatment of semen samples with Echinotrypsin alters the expression pattern of sperm functional proteins-a pilot study. <i>Andrology</i> , <b>2018</b> , 6, 345-350	4.2	12
59	Proteomic Signatures of Sperm Mitochondria in Varicocele: Clinical Use as Biomarkers of Varicocele Associated Infertility. <i>Journal of Urology</i> , <b>2018</b> , 200, 414-422	2.5	47
58	The enigmatic seminal plasma: a proteomics insight from ejaculation to fertilization. <i>Reproductive Biology and Endocrinology</i> , <b>2018</b> , 16, 41	5	68
57	Low H2O2 and enhanced oxidative resistance in the diapause-destined pupa of silkworm, <i>Antheraea mylitta</i> (Lepidoptera:Saturniidae) suggest their possible involvement in dormancy and lifespan extension. <i>BMC Zoology</i> , <b>2018</b> , 3,	1.8	4
56	Tunneling Nanotubes: A Versatile Target for Cancer Therapy. <i>Current Cancer Drug Targets</i> , <b>2018</b> , 18, 514-521	5.2	24
55	Towards the identification of reliable sperm biomarkers for male infertility: A sperm proteomic approach. <i>Andrologia</i> , <b>2018</b> , 50, e12919	2.4	34
54	Constitutively active follicle-stimulating hormone receptor enables androgen-independent spermatogenesis. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 1787-1792	15.9	37

53	Redox regulation & sperm function: A proteomic insight. <i>Indian Journal of Medical Research</i> , <b>2018</b> , 148, S84-S91	2.9	2
52	Sperm DNA and Pregnancy Loss After IVF and ICSI <b>2018</b> , 411-430		0
51	Dietary supplementation of Spirulina ameliorates iron-induced oxidative stress in Indian knife fish <i>Notopterus Notopterus</i> . <i>Environmental Toxicology and Pharmacology</i> , <b>2018</b> , 61, 71-78	5.8	17
50	In silico analysis of candidate proteins sharing homology with Streptococcus agalactiae proteins and their role in male infertility. <i>Systems Biology in Reproductive Medicine</i> , <b>2017</b> , 63, 15-28	2.9	5
49	Effect of Lead acetate on oxidative stress and antioxidant defence system of Bacillus subtilis and plasmid (pBSIISK) isolated from DH5 $\alpha$ <i>Canadian Journal of Biotechnology</i> , <b>2017</b> , 1, 154-154	0.3	1
48	Effect of ethanolic bark extract of the mangrove plant <i>Xylocarpus granatum</i> on oxidative stress indices in streptozotocin-induced diabetic mice testis. <i>Canadian Journal of Biotechnology</i> , <b>2017</b> , 1, 155-155 <sup>3</sup>	0.3	1
47	Partial purification and sugarcane bagasse induction of extracellular thermostable Amylase by <i>Bacillus</i> sp. under submerged fermentation. <i>Canadian Journal of Biotechnology</i> , <b>2017</b> , 1, 156-156	0.3	
46	Effects of seasonal variation on oxidative stress physiology in natural population of toad <i>Bufo melanostictus</i> ; clues for analysis of environmental pollution. <i>Environmental Science and Pollution Research</i> , <b>2016</b> , 23, 22819-22831	5.1	11
45	Antidiabetic potential of mangrove plants: a review. <i>Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences</i> , <b>2016</b> , 9, 75-88	0.7	16
44	Histone retention, protein carbonylation, and lipid peroxidation in spermatozoa: Possible role in recurrent pregnancy loss. <i>Systems Biology in Reproductive Medicine</i> , <b>2016</b> , 62, 201-12	2.9	16
43	TRPV4 is endogenously expressed in vertebrate spermatozoa and regulates intracellular calcium in human sperm. <i>Biochemical and Biophysical Research Communications</i> , <b>2016</b> , 473, 781-788	3.4	19
42	Pro-oxidative challenges and antioxidant protection during larval development of non-mulberry silkworm, <i>Antheraea mylitta</i> (Lepidoptera: Saturniidae). <i>Italian Journal of Zoology</i> , <b>2016</b> , 83, 3-14		7
41	Male Factors in Recurrent Pregnancy Loss <b>2016</b> , 109-129		
40	Sperm proteomics: potential impact on male infertility treatment. <i>Expert Review of Proteomics</i> , <b>2016</b> , 13, 285-96	4.2	21
39	Proteomics and Male Infertility. <i>SpringerBriefs in Reproductive Biology</i> , <b>2016</b> , 21-43		4
38	Proteomics in Assisted Reproduction. <i>SpringerBriefs in Reproductive Biology</i> , <b>2016</b> , 65-69		2
37	Challenges of Proteomic Studies in Human Reproduction. <i>SpringerBriefs in Reproductive Biology</i> , <b>2016</b> , 71-82		3
36	Proteomic signatures of infertile men with clinical varicocele and their validation studies reveal mitochondrial dysfunction leading to infertility. <i>Asian Journal of Andrology</i> , <b>2016</b> , 18, 282-91	2.8	47

35	Proteomics in Human Reproduction. <i>SpringerBriefs in Reproductive Biology</i> , <b>2016</b> ,		1
34	Role of Proteomics in Female Infertility. <i>SpringerBriefs in Reproductive Biology</i> , <b>2016</b> , 45-63		2
33	Post-Translational Modifications in sperm Proteome: The Chemistry of Proteome diversifications in the Pathophysiology of male factor infertility. <i>Biochimica Et Biophysica Acta - General Subjects</i> , <b>2016</b> , 1860, 1450-65	4	41
32	In Vitro Antidiabetic and Antioxidant Potentials of Leaf and Stem Bark Extracts of a Mangrove Plant, <i>Xylocarpus granatum</i> . <i>Journal of Herbs, Spices and Medicinal Plants</i> , <b>2016</b> , 22, 105-117	0.9	7
31	Multivariate analysis of potential biomarkers of oxidative stress in <i>Notopterus notopterus</i> tissues from Mahanadi River as a function of concentration of heavy metals. <i>Chemosphere</i> , <b>2016</b> , 155, 28-38	8.4	30
30	HPV and Cervical Cancer Epidemiology - Current Status of HPV Vaccination in India. <i>Asian Pacific Journal of Cancer Prevention</i> , <b>2016</b> , 17, 3663-73	1.7	25
29	Antioxidant Potential and Toxicity Study of the Cerium Oxide Nanoparticles Synthesized by Microwave-Mediated Synthesis. <i>Applied Biochemistry and Biotechnology</i> , <b>2015</b> , 177, 148-61	3.2	37
28	Establishing the oxidation-reduction potential in semen and seminal plasma. <i>Fertility and Sterility</i> , <b>2015</b> , 104, e146	4.8	3
27	Sperm Proteome: What Is on the Horizon?. <i>Reproductive Sciences</i> , <b>2015</b> , 22, 638-53	3	8
26	Comparative proteomic network signatures in seminal plasma of infertile men as a function of reactive oxygen species. <i>Clinical Proteomics</i> , <b>2015</b> , 12, 23	5	41
25	Oxidative Damaged Products, Level of Hydrogen Peroxide, and Antioxidant Protection in Diapausing Pupa of Tasar Silk Worm, <i>Antheraea mylitta</i> : A Comparative Study in Two Voltine Groups. <i>International Journal of Insect Science</i> , <b>2015</b> , 7, 11-7	2.3	5
24	Supplementation of T3 recovers hypothyroid rat liver cells from oxidatively damaged inner mitochondrial membrane leading to apoptosis. <i>BioMed Research International</i> , <b>2014</b> , 2014, 590897	3	11
23	Overlapping dose responses of spermatogenic and extragonadal testosterone actions jeopardize the principle of hormonal male contraception. <i>FASEB Journal</i> , <b>2014</b> , 28, 2566-76	0.9	29
22	Thermosensitive ion channel TRPV1 is endogenously expressed in the sperm of a fresh water teleost fish ( <i>Labeo rohita</i> ) and regulates sperm motility. <i>Channels</i> , <b>2013</b> , 7, 483-92	3	28
21	A comparative study of hepatic mitochondrial oxygen consumption in four vertebrates by using Clark-type electrode. <i>Acta Biologica Hungarica</i> , <b>2013</b> , 64, 152-60		7
20	Oxidative stress and heart failure in altered thyroid States. <i>Scientific World Journal, The</i> , <b>2012</b> , 2012, 741861	2.2	28
19	The mosquitocidal activity of methanolic extracts of <i>Lantana camara</i> root and <i>Anacardium occidentale</i> leaf: role of glutathione S-transferase in insecticide resistance. <i>Journal of Medical Entomology</i> , <b>2011</b> , 48, 291-5	2.2	7
18	POSTER VIEWING SESSION - ANDROLOGY. <i>Human Reproduction</i> , <b>2011</b> , 26, i123-i148	5.7	4

17	Distribution of sibling species of <i>Anopheles culicifacies</i> s.l. and <i>Anopheles fluviatilis</i> s.l. and their vectorial capacity in eight different malaria endemic districts of Orissa, India. <i>Memorias Do Instituto Oswaldo Cruz</i> , <b>2010</b> , 105, 981-7	2.6	10
16	Effect of turmeric and its active principle curcumin on t(3)-induced oxidative stress and hyperplasia in rat kidney: a comparison. <i>Indian Journal of Clinical Biochemistry</i> , <b>2010</b> , 25, 393-7	1.3	6
15	T3 fails to restore mitochondrial thiol redox status altered by experimental hypothyroidism in rat testis. <i>General and Comparative Endocrinology</i> , <b>2010</b> , 169, 39-47	3	23
14	Thiol redox status critically influences mitochondrial response to thyroid hormone-induced hepatic oxidative injury: A temporal analysis. <i>Cell Biochemistry and Function</i> , <b>2010</b> , 28, 126-34	4.2	12
13	Response of testicular antioxidant enzymes to hexachlorocyclohexane is species specific. <i>Asian Journal of Andrology</i> , <b>2002</b> , 4, 191-4	2.8	5
12	Mediation of oxidative stress in HCH-induced neurotoxicity in rat. <i>Archives of Environmental Contamination and Toxicology</i> , <b>2000</b> , 39, 7-12	3.2	33
11	Changes in rat testicular antioxidant defence profile as a function of age and its impairment by hexachlorocyclohexane during critical stages of maturation. <i>Andrologia</i> , <b>1999</b> , 31, 83-90	2.4	40
10	Age-related changes in rat testicular oxidative stress parameters by hexachlorocyclohexane. <i>Archives of Toxicology</i> , <b>1999</b> , 73, 96-107	5.8	21
9	Hexachlorocyclohexane-induced behavioural and neurochemical changes in rat. <i>Journal of Applied Toxicology</i> , <b>1999</b> , 19, 13-8	4.1	26
8	Changes in rat testicular antioxidant defence profile as a function of age and its impairment by hexachlorocyclohexane during critical stages of maturation <b>1999</b> , 31, 83		14
7	Changes in rat testicular antioxidant defence profile as a function of age and its impairment by hexachlorocyclohexane during critical stages of maturation. <i>Andrologia</i> , <b>1999</b> , 31, 83-90	2.4	13
6	Testosterone-induced changes in testicular antioxidant system. <i>Andrologia</i> , <b>1997</b> , 29, 343-9	2.4	118
5	Comparison of hexachlorocyclohexane-induced oxidative stress in the testis of immature and adult rats. <i>Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology</i> , <b>1997</b> , 118, 319-27		26
4	Age-related differences of hexachlorocyclohexane effect on hepatic oxidative stress parameters of chicks. <i>Indian Journal of Experimental Biology</i> , <b>1997</b> , 35, 457-61		1
3	Effect of aluminum on superoxide dismutase, catalase and lipid peroxidation of rat liver. <i>Research Communications in Molecular Pathology and Pharmacology</i> , <b>1996</b> , 94, 217-20		4
2	Hexachlorocyclohexane-induced changes in lipid peroxidation, superoxide dismutase and catalase activities and glutathione content in chick liver. <i>Indian Journal of Experimental Biology</i> , <b>1995</b> , 33, 131-3		6
1	Control of invasive apple snails and their use as pollutant ecotoxic indicators: a review. <i>Environmental Chemistry Letters</i> , <b>1</b>	13.3	1