# Luna Samanta

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 110 papers | 2,051 citations | 236612 25 h-index | 276539 41 g-index |
| 118 all docs | 118 docs citations | 118 times ranked | 2866 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Male Oxidative Stress Infertility (MOSI): Proposed Terminology and Clinical Practice Guidelines for Management of Idiopathic Male Infertility. World Journal of Men?s Health, 2019, 37, 296. | 1.7 | 256 |
| 2 | Testosterone-induced changes in testicular antioxidant system. Andrologia, 1997, 29, 343-349. | 1.0 | 136 |
| 3 | The enigmatic seminal plasma: a proteomics insight from ejaculation to fertilization. Reproductive Biology and Endocrinology, 2018, 16, 41. | 1.4 | 104 |
| 4 | Possible activation of NRF2 by Vitamin E/Curcumin against altered thyroid hormone induced oxidative stress via NFÄ¸B/AKT/mTOR/KEAP1 signalling in rat heart. Scientific Reports, 2019, 9, 7408. | 1.6 | 66 |
| 5 | Proteomic Signatures of Sperm Mitochondria in Varicocele: Clinical Use as Biomarkers of Varicocele Associated Infertility. Journal of Urology, 2018, 200, 414-422. | 0.2 | 65 |
| 6 | Proteomic signatures of infertile men with clinical varicocele and their validation studies reveal mitochondrial dysfunction leading to infertility. Asian Journal of Andrology, 2016, 18, 282. | 0.8 | 63 |
| 7 | Antioxidant Potential and Toxicity Study of the Cerium Oxide Nanoparticles Synthesized by Microwave-Mediated Synthesis. Applied Biochemistry and Biotechnology, 2015, 177, 148-161. | 1.4 | 59 |
| 8 | Post-Translational Modifications in sperm Proteome: The Chemistry of Proteome diversifications in the Pathophysiology of male factor infertility. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 1450-1465. | 1.1 | 57 |
| 9 | Constitutively active follicle-stimulating hormone receptor enables androgen-independent spermatogenesis. Journal of Clinical Investigation, 2018, 128, 1787-1792. | 3.9 | 54 |
| 10 | Changes in rat testicular antioxidant defence profile as a function of age and its impairment by hexachlorocyclohexane during critical stages of maturation. Andrologia, 1999, 31, 83-90. | 1.0 | 48 |
| 11 | Comparative proteomic network signatures in seminal plasma of infertile men as a function of reactive oxygen species. Clinical Proteomics, 2015, 12, 23. | 1.1 | 48 |
| 12 | Towards the identification of reliable sperm biomarkers for male infertility: A sperm proteomic approach. Andrologia, 2018, 50, e12919. | 1.0 | 46 |
| 13 | Mediation of Oxidative Stress in HCH-Induced Neurotoxicity in Rat. Archives of Environmental Contamination and Toxicology, 2000, 39, 7-12. | 2.1 | 41 |
| 14 | Thermosensitive ion channel TRPV1 is endogenously expressed in the sperm of a fresh water teleost fish (Labeo rohita) and regulates sperm motility. Channels, 2013, 7, 483-492. | 1.5 | 41 |
| 15 | Multivariate analysis of potential biomarkers of oxidative stress in Notopterus notopterus tissues from Mahanadi River as a function of concentration of heavy metals. Chemosphere, 2016, 155, 28-38. | 4.2 | 38 |
| 16 | TRPV4 is endogenously expressed in vertebrate spermatozoa and regulates intracellular calcium in human sperm. Biochemical and Biophysical Research Communications, 2016, 473, 781-788. | 1.0 | 37 |
| 17 | Oxidative Stress and Heart Failure in Altered Thyroid States. Scientific World Journal, The, 2012, 2012, 1-17. | 0.8 | 36 |
| 18 | Comparison of Hexachlorocyclohexane-Induced Oxidative Stress in the Testis of Immature and Adult Rats. Comparative Biochemistry and Physiology C, Comparative Pharmacology and Toxicology, 1997, 118, 319-327. | 0.5 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Overlapping dose responses of spermatogenic and extragonadal testosterone actions jeopardize the principle of hormonal male contraception. FASEB Journal, 2014, 28, 2566-2576. | 0.2 | 31 |
| 20 | Tunneling Nanotubes: A Versatile Target for Cancer Therapy. Current Cancer Drug Targets, 2018, 18, 514-521. | 0.8 | 31 |
| 21 | Hexachlorocyclohexane-induced behavioural and neurochemical changes in rat. Journal of Applied Toxicology, 1999, 19, 13-18. | 1.4 | 30 |
| 22 | T3 fails to restore mitochondrial thiol redox status altered by experimental hypothyroidism in rat testis. General and Comparative Endocrinology, 2010, 169, 39-47. | 0.8 | 29 |
| 23 | Sperm proteomics: potential impact on male infertility treatment. Expert Review of Proteomics, 2016, 13, 285-296. | 1.3 | 29 |
| 24 | Aberrant Upregulation of Compensatory Redox Molecular Machines May Contribute to Sperm Dysfunction in Infertile Men with Unilateral Varicocele: A Proteomic Insight. Antioxidants and Redox Signaling, 2020, 32, 504-521. | 2.5 | 29 |
| 25 | Proteomic Signatures Reveal Differences in Stress Response, Antioxidant Defense and Proteasomal Activity in Fertile Men with High Seminal ROS Levels. International Journal of Molecular Sciences, 2019, 20, 203. | 1.8 | 27 |
| 26 | HPV and Cervical Cancer Epidemiology - Current Status of HPV Vaccination in India. Asian Pacific Journal of Cancer Prevention, 2016, 17, 3663-73. | 0.5 | 27 |
| 27 | Age-related changes in rat testicular oxidative stress parameters by hexachlorocyclohexane. Archives of Toxicology, 1999, 73, 96-107. | 1.9 | 25 |
| 28 | Histone retention, protein carbonylation, and lipid peroxidation in spermatozoa: Possible role in recurrent pregnancy loss. Systems Biology in Reproductive Medicine, 2016, 62, 201-212. | 1.0 | 25 |
| 29 | Tracking research trends and hotspots in sperm DNA fragmentation testing for the evaluation of male infertility: a scientometric analysis. Reproductive Biology and Endocrinology, 2019, 17, 110. | 1.4 | 25 |
| 30 | Protein Fingerprinting of Seminal Plasma Reveals Dysregulation of Exosome-Associated Proteins in Infertile Men with Unilateral Varicocele. World Journal of Men?s Health, 2021, 39, 324. | 1.7 | 25 |
| 31 | Antidiabetic potential of mangrove plants: a review. Frontiers in Life Science: Frontiers of Interdisciplinary Research in the Life Sciences, 2016, 9, 75-88. | 1.1 | 22 |
| 32 | Effect of Antioxidant Supplementation on the Sperm Proteome of Idiopathic Infertile Men. Antioxidants, 2019, 8, 488. | 2.2 | 22 |
| 33 | Dietary supplementation of Spirulina ameliorates iron-induced oxidative stress in Indian knife fish Notopterus Notopterus. Environmental Toxicology and Pharmacology, 2018, 61, 71-78. | 2.0 | 21 |
| 34 | Thiol redox status critically influences mitochondrial response to thyroid hormoneâ€induced hepatic oxidative injury: A temporal analysis. Cell Biochemistry and Function, 2010, 28, 126-134. | 1.4 | 17 |
| 35 | High fat diet causes distinct aberrations in the testicular proteome. International Journal of Obesity, 2020, 44, 1958-1969. | 1.6 | 17 |
| 36 | Paternal contributors in recurrent pregnancy loss: Cues from comparative proteome profiling of seminal extracellular vesicles. Molecular Reproduction and Development, 2021, 88, 96-112. | 1.0 | 17 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Changes in rat testicular antioxidant defence profile as a function of age and its impairment by hexachlorocyclohexane during critical stages of maturation. Andrologia, 1999, 31, 83-90. | 1.0 | 16 |
| 38 | Effects of seasonal variation on oxidative stress physiology in natural population of toad Bufo melanostictus; clues for analysis of environmental pollution. Environmental Science and Pollution Research, 2016, 23, 22819-22831. | 2.7 | 15 |
| 39 | Control of invasiveÂapple snails and their use as pollutant ecotoxicÂindicators: a review. Environmental Chemistry Letters, 2021, 19, 4627-4653. | 8.3 | 15 |
| 40 | Proteomic analysis reveals dysregulated cell signaling in ejaculated spermatozoa from infertile men. Asian Journal of Andrology, 2019, 21, 121. | 0.8 | 15 |
| 41 | Changes in rat testicular antioxidant defence profile as a function of age and its impairment by hexachlorocyclohexane during critical stages of maturation. Andrologia, 1999, 31, 83-90. | 1.0 | 15 |
| 42 | Distribution of sibling species of Anopheles culicifacies s.l. and Anopheles fluviatilis s.l. and their vectorial capacity in eight different malaria endemic districts of Orissa, India. Memorias Do Instituto Oswaldo Cruz, 2010, 105, 981-987. | 0.8 | 14 |
| 43 | Treatment of semen samples with Î±â€chymotrypsin alters the expression pattern of sperm functional proteinsâ€"a pilot study. Andrology, 2018, 6, 345-350. | 1.9 | 14 |
| 44 | Functional Analysis of Differentially Expressed Acetylated Spermatozoal Proteins in Infertile Men with Unilateral and Bilateral Varicocele. International Journal of Molecular Sciences, 2020, 21, 3155. | 1.8 | 14 |
| 45 | Proteomic Signatures in Spermatozoa Reveal the Role of Paternal Factors in Recurrent Pregnancy Loss. World Journal of Men?s Health, 2020, 38, 103. | 1.7 | 13 |
| 46 | The Mosquitocidal Activity of Methanolic Extracts of Lantana cramera Root and Anacardium occidentale Leaf: Role of Glutathione S-Transferase in Insecticide Resistance. Journal of Medical Entomology, 2011, 48, 291-295. | 0.9 | 12 |
| 47 | Supplementation of T<sub>3</sub>Recovers Hypothyroid Rat Liver Cells from Oxidatively Damaged Inner Mitochondrial Membrane Leading to Apoptosis. BioMed Research International, 2014, 2014, 1-12. | 0.9 | 12 |
| 48 | Harnessing the potential of dialdehyde alginate-xanthan gum hydrogels as niche bioscaffolds for tissue engineering. International Journal of Biological Macromolecules, 2022, 207, 493-506. | 3.6 | 12 |
| 49 | Sperm Proteome: What Is on the Horizon?. Reproductive Sciences, 2015, 22, 638-653. | 1.1 | 11 |
| 50 | Quantitative proteomics decodes clusterin as a critical regulator of paternal factors responsible for impaired compensatory metabolic reprogramming in recurrent pregnancy loss. Andrologia, 2020, 52, e13498. | 1.0 | 11 |
| 51 | Presence of Round Cells Proteins do not Interfere with Identification of Human Sperm Proteins from Frozen Semen Samples by LC-MS/MS. International Journal of Molecular Sciences, 2019, 20, 314. | 1.8 | 10 |
| 52 | Effect of Xylocarpus granatum Bark Extract on Amelioration of Hyperglycaemia and Oxidative Stress Associated Complications in STZ-Induced Diabetic Mice. Evidence-based Complementary and Alternative Medicine, 2019, 2019, 1-13. | 0.5 | 10 |
| 53 | Molecular Pathways Associated with Sperm Biofunction Are Not Affected by the Presence of Round Cell and Leukocyte Proteins in Human Sperm Proteome. Journal of Proteome Research, 2019, 18, 1191-1197. | 1.8 | 9 |
| 54 | Surface modification of cellulose/polyvinyl alcohol biocomposites by non-thermal argon plasma: applications towards biological relevance. Cellulose, 2019, 26, 2437-2451. | 2.4 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | A comparative study of hepatic mitochondrial oxygen consumption in four vertebrates by using Clark-type electrode. Acta Biologica Hungarica, 2013, 64, 152-160. | 0.7 | 8 |
| 56 | Oxidative Damaged Products, Level of Hydrogen Peroxide, and Antioxidant Protection in Diapausing Pupa of Tasar Silk Worm,Antheraea mylitta: A Comparative Study in Two Voltine Groups. International Journal of Insect Science, 2015, 7, IJIS.S21326. | 1.7 | 8 |
| 57 | In Vitro Antidiabetic and Antioxidant Potentials of Leaf and Stem Bark Extracts of a Mangrove Plant,Xylocarpus granatum. Journal of Herbs, Spices and Medicinal Plants, 2016, 22, 105-117. | 0.5 | 8 |
| 58 | Bioactivity guided isolation of antidiabetic and antioxidant compound from Xylocarpus granatum J. Koenig bark. 3 Biotech, 2019, 9, 198. | 1.1 | 8 |
| 59 | Ritalinic Acid Stimulates Human Sperm Motility and Maintains VitalityIn Vitro. World Journal of Men?s Health, 2020, 38, 61. | 1.7 | 8 |
| 60 | Effect of Turmeric and its Active Principle Curcumin on T3-Induced Oxidative Stress and Hyperplasia in Rat Kidney: A Comparison. Indian Journal of Clinical Biochemistry, 2010, 25, 393-397. | 0.9 | 7 |
| 61 | Pro-oxidative challenges and antioxidant protection during larval development of non-mulberry silkworm,Antheraea mylitta(Lepidoptera: Saturniidae). Italian Journal of Zoology, 2016, 83, 3-14. | 0.6 | 7 |
| 62 | Low H2O2 and enhanced oxidative resistance in the diapause-destined pupa of silkworm, Antheraea mylitta (Lepidoptera:Saturniidae) suggest their possible involvement in dormancy and lifespan extension. BMC Zoology, 2018, 3, . | 0.3 | 6 |
| 63 | Bioactivity guided isolation and structural characterization of the antidiabetic and antioxidant compound from bark extract of Avicennia officinalis L. South African Journal of Botany, 2019, 125, 109-115. | 1.2 | 6 |
| 64 | Improved Chemosensitization Activity of Carboxymethyl Chitosan/PVA Hydrogels by Plasma Surface Modification. Journal of Polymers and the Environment, 2021, 29, 1663-1679. | 2.4 | 6 |
| 65 | Hexachlorocyclohexane-induced changes in lipid peroxidation, superoxide dismutase and catalase activities and glutathione content in chick liver. Indian Journal of Experimental Biology, 1995, 33, 131-3. | 0.5 | 6 |
| 66 | In silico analysis of candidate proteins sharing homology with Streptococcus agalactiae proteins and their role in male infertility. Systems Biology in Reproductive Medicine, 2017, 63, 15-28. | 1.0 | 5 |
| 67 | Triazineâ€cored dendritic molecules containing multiple oâ€carborane clusters. Applied Organometallic Chemistry, 2020, 34, e5754. | 1.7 | 5 |
| 68 | 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. Journal of Biomolecular Structure and Dynamics, 2022, 40, 12316-12335. | 2.0 | 5 |
| 69 | Paternal factors in recurrent pregnancy loss: an insight through analysis of non-synonymous single-nucleotide polymorphism in human testis-specific chaperone HSPA2 gene. Environmental Science and Pollution Research, 2022, 29, 62219-62234. | 2.7 | 5 |
| 70 | Response of testicular antioxidant enzymes to hexachlorocyclohexane is species specific. Asian Journal of Andrology, 2002, 4, 191-4. | 0.8 | 5 |
| 71 | POSTER VIEWING SESSION - ANDROLOGY. Human Reproduction, 2011, 26, i123-i148. | 0.4 | 4 |
| 72 | Establishing the oxidation-reduction potential in semen and seminal plasma. Fertility and Sterility, 2015, 104, e146. | 0.5 | 4 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Effect of aluminum on superoxide dismutase, catalase and lipid peroxidation of rat liver. Research Communications in Molecular Pathology and Pharmacology, 1996, 94, 217-20. | 0.2 | 4 |
| 74 | Proteomics in Human Reproduction. SpringerBriefs in Reproductive Biology, 2016, , . | 0.0 | 3 |
| 75 | Oxidative Stress and Sperm Dysfunction. , 2019, , 261-275. | | 3 |
| 76 | Challenges of Proteomic Studies in Human Reproduction. SpringerBriefs in Reproductive Biology, 2016, , 71-82. | 0.0 | 3 |
| 77 | Round cells do not contaminate or mask human sperm proteome in proteomic studies using cryopreserved samples. Andrologia, 2019, 51, e13325. | 1.0 | 2 |
| 78 | Proteomics in Assisted Reproduction. SpringerBriefs in Reproductive Biology, 2016, , 65-69. | 0.0 | 2 |
| 79 | Redox regulation & sperm function: A proteomic insight. Indian Journal of Medical Research, 2018, 148, S84-S91. | 0.4 | 2 |
| 80 | Effect of time on oxidation-reduction potential in semen and seminal plasma. Fertility and Sterility, 2015, 104, e295. | 0.5 | 1 |
| 81 | High throughput integrated proteomic analysis of spermatozoal proteins in pathophysiology of varicocele associated male infertility. Fertility and Sterility, 2015, 104, e237. | 0.5 | 1 |
| 82 | Comparative proteomic analysis reveals differential regulation of redox homestasis and purturbed oxidative phoshorylation pathway in unilateral compared to bilateral varicocele condition. Fertility and Sterility, 2019, 112, e375-e376. | 0.5 | 1 |
| 83 | Effect of Lead acetate on oxidative stress and antioxidant defence system of Bacillus subtilis and plasmid (pBSIISK) isolated from DH5Î±. Canadian Journal of Biotechnology, 2017, 1, 154-154. | 0.3 | 1 |
| 84 | Sperm DNA and Pregnancy Loss After IVF and ICSI. , 2018, , 411-430. | | 1 |
| 85 | Age-related differences of hexachlorocyclohexane effect on hepatic oxidative stress parameters of chicks. Indian Journal of Experimental Biology, 1997, 35, 457-61. | 0.5 | 1 |
| 86 | Follicular oxidative predominance as a function of maternal age and its effect on IVF outcome. Fertility and Sterility, 2007, 88, S140. | 0.5 | 0 |
| 87 | Comparative proteomic analysis indicates underexpression of molecular chaperones in spermatozoa of infertile men. Fertility and Sterility, 2015, 104, e235. | 0.5 | 0 |
| 88 | What makes some ROS-positive men fertile? - A comparative proteomic study. Fertility and Sterility, 2015, 104, e144-e145. | 0.5 | 0 |
| 89 | Proteomic analysis of seminal plasma of infertileÂmen with differing levels of reactive oxygen species reveals defective protein turnover. Fertility and Sterility, 2015, 104, e144. | 0.5 | 0 |
| 90 | The in-vitro effect of Ritalin on human sperm motility. Fertility and Sterility, 2015, 104, e140-e141. | 0.5 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Morphologically distinct phenotypes of spermatozoa in infertile men reveal down regulation of multiple signaling pathways. Fertility and Sterility, 2015, 104, e296. | 0.5 | 0 |
| 92 | Comparative proteomic pathway analysis of different phenotypes of ejaculated spermatozoa in fertile and infertile men. Fertility and Sterility, 2015, 104, e297-e298. | 0.5 | 0 |
| 93 | An efficient androgen response, antioxidant defense and proteosomal pathway maintain fertility in donors with ROS-positive sperm. Fertility and Sterility, 2016, 106, e237. | 0.5 | 0 |
| 94 | Differential expression of TRP channels modulate ART outcome. Fertility and Sterility, 2016, 106, e316. | 0.5 | 0 |
| 95 | Identification of common underlying pathologies associated with male infertility and diabetes using data mining and in silico analyses. Fertility and Sterility, 2016, 106, e303-e304. | 0.5 | 0 |
| 96 | Male Factors in Recurrent Pregnancy Loss. , 2016, , 109-129. | | 0 |
| 97 | Varicocele-induced male infertility - a mitochondrial disease. Fertility and Sterility, 2017, 108, e309-e310. | 0.5 | 0 |
| 98 | Proteomic analysis reveals BAG6 and HIST1H2BA are potential sperm biomarker candidates in infertile men with primary and secondary infertility. Fertility and Sterility, 2017, 108, e140. | 0.5 | 0 |
| 99 | Association of single nucleotide polymorphism (SNP) of HSPA2 gene with paternal factors in recurrent pregnancy loss: an in silico functional and structural analysis with validation at protein level. Fertility and Sterility, 2018, 110, e302. | 0.5 | 0 |
| 100 | Understanding the molecular dynamics of fertility preservation in ROS positive men: a proteomic insight. Fertility and Sterility, 2018, 110, e168. | 0.5 | 0 |
| 101 | Proteomic analysis of seminal plasma biomarkers in infertile men with varicocele. Fertility and Sterility, 2018, 110, e302-e303. | 0.5 | 0 |
| 102 | Validation of key seminal plasma proteins in men with primary and secondary infertility. Fertility and Sterility, 2018, 110, e167. | 0.5 | 0 |
| 103 | Seminal exosomes proteome profiling reveal impaired cell signaling and defects in chromatin remodeling as paternal contributors in recurrent pregnancy loss patients. Fertility and Sterility, 2019, 112, e50-e51. | 0.5 | 0 |
| 104 | Proteomic signatures of epigenetic and transcription regulators are pivotal in controlling paternal factors in recurrent pregnancy loss. Fertility and Sterility, 2019, 112, e401. | 0.5 | 0 |
| 105 | INSIGHTS IN THE MECHANISMS OF DEFECTIVE SPERM MATURATION IN INFERTILE MEN USING A COMPARATIVE PROTEOMICS APPROACH. Fertility and Sterility, 2020, 114, e365-e366. | 0.5 | 0 |
| 106 | TRPV1 AS A MODULATOR OF ROS-INDUCED SPERM FUNCTION AND ITS CORRELATION WITH PREGNANCY OUTCOME (NATURAL CONCEPTION AND ART). Fertility and Sterility, 2020, 114, e380. | 0.5 | 0 |
| 107 | POLY AROMATIC HYDROCARBONS (PAHS) IN SEMEN OF INFERTILE MEN REVEAL DISTINCT SIGNATURES OF OXIDATIVE STRESS AND PROTEIN TRAFFICKING AS MODULATORS OF SPERM FUNCTION: A PROTEOMIC INSIGHT THROUGH SEMINAL EXTRACELLULAR VESICLES. Fertility and Sterility, 2020, 114, e16. | 0.5 | 0 |
| 108 | UNDERSTANDING MOLECULAR MECHANISMS ASSOCIATED WITH INFERTILITY IN MEN WITH LOW LEVELS OF SEMINAL REACTIVE OXYGEN SPECIES THROUGH COMPARATIVE PROTEOMICS. Fertility and Sterility, 2020, 114, e370-e371. | 0.5 | 0 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | Effect of ethanolic bark extract of the mangrove plant Xylocarpus granatum on oxidative stress indices in streptozotocin-induced diabetic mice testis. Canadian Journal of Biotechnology, 2017, 1, 155-155. | 0.3 | 0 |
| 110 | Partial purification and sugarcane bagasse induction of extracellular thermostable Amylase by Bacillus sp. under submerged fermentation. Canadian Journal of Biotechnology, 2017, 1, 156-156. | 0.3 | 0 |