

Biswaranjan Paital

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

1,991
citations

304602

22
h-index

276775

41
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71
all docs

71
docs citations

71
times ranked

2071
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Inter nation social lockdown versus medical care against COVID-19, a mild environmental insight with special reference to India. <i>Science of the Total Environment</i> , 2020, 728, 138914. | 3.9 | 179 |
| 2 | Nurture to nature via COVID-19, a self-regenerating environmental strategy of environment in global context. <i>Science of the Total Environment</i> , 2020, 729, 139088. | 3.9 | 144 |
| 3 | Air pollution by NO ₂ and PM _{2.5} explains COVID-19 infection severity by overexpression of angiotensin-converting enzyme 2 in respiratory cells: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 25-42. | 8.3 | 136 |
| 4 | Antioxidant defenses and oxidative stress parameters in tissues of mud crab (<i>Scylla serrata</i>) with reference to changing salinity. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010, 151, 142-151. | 1.3 | 114 |
| 5 | Epigenetic alterations in cancer. <i>Frontiers in Bioscience - Landmark</i> , 2020, 25, 1058-1109. | 3.0 | 101 |
| 6 | An Overview of Seasonal Changes in Oxidative Stress and Antioxidant Defence Parameters in Some Invertebrate and Vertebrate Species. <i>Scientifica</i> , 2016, 2016, 1-8. | 0.6 | 88 |
| 7 | Twenty years of the "Preparation for Oxidative Stress"™ (POS) theory: Ecophysiological advantages and molecular strategies. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2019, 234, 36-49. | 0.8 | 88 |
| 8 | Alleviation of enhanced oxidative stress and oxygen consumption of l-thyroxine induced hyperthyroid rat liver mitochondria by vitamin E and curcumin. <i>Chemico-Biological Interactions</i> , 2008, 173, 105-114. | 1.7 | 76 |
| 9 | Seasonal variability of antioxidant biomarkers in mud crabs (<i>Scylla serrata</i>). <i>Ecotoxicology and Environmental Safety</i> , 2013, 87, 33-41. | 2.9 | 67 |
| 10 | Possible activation of NRF2 by Vitamin E/Curcumin against altered thyroid hormone induced oxidative stress via NF- κ B/AKT/mTOR/KEAP1 signalling in rat heart. <i>Scientific Reports</i> , 2019, 9, 7408. | 1.6 | 66 |
| 11 | Positive environmental effects of the coronavirus 2020 episode: a review. <i>Environment, Development and Sustainability</i> , 2021, 23, 12738-12760. | 2.7 | 61 |
| 12 | Longevity of animals under reactive oxygen species stress and disease susceptibility due to global warming. <i>World Journal of Biological Chemistry</i> , 2016, 7, 110. | 1.7 | 60 |
| 13 | Effects of temperature on complexes I and II mediated respiration, ROS generation and oxidative stress status in isolated gill mitochondria of the mud crab <i>Scylla serrata</i> . <i>Journal of Thermal Biology</i> , 2014, 41, 104-111. | 1.1 | 55 |
| 14 | Modulation of physiological oxidative stress and antioxidant status by abiotic factors especially salinity in aquatic organisms. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2021, 241, 108971. | 1.3 | 53 |
| 15 | Supplementation of curcumin and vitamin E enhances oxidative stress, but restores hepatic histoarchitecture in hypothyroid rats. <i>Life Sciences</i> , 2009, 84, 372-379. | 2.0 | 50 |
| 16 | Antioxidant and oxidative stress parameters in brain of <i>Heteropneustes fossilis</i> under air exposure condition; role of mitochondrial electron transport chain. <i>Ecotoxicology and Environmental Safety</i> , 2013, 95, 69-77. | 2.9 | 49 |
| 17 | Ecotoxic impact assessment of graphene oxide on lipid peroxidation at mitochondrial level and redox modulation in fresh water fish <i>Anabas testudineus</i> . <i>Chemosphere</i> , 2019, 224, 796-804. | 4.2 | 45 |
| 18 | Effects of salinity on O ₂ consumption, ROS generation and oxidative stress status of gill mitochondria of the mud crab <i>Scylla serrata</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2012, 155, 228-237. | 1.3 | 40 |

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|----|---|-----|-----------|
| 19 | Modulation of expression of SOD isoenzymes in mud crab (<i>Scylla serrata</i>): effects of inhibitors, salinity and season. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013, 28, 195-204. | 2.5 | 32 |
| 20 | Wastewater Based Epidemiology Perspective as a Faster Protocol for Detecting Coronavirus RNA in Human Populations: A Review with Specific Reference to SARS-CoV-2 Virus. <i>Pathogens</i> , 2021, 10, 1008. | 1.2 | 30 |
| 21 | Modulation of redox regulatory molecules and electron transport chain activity in muscle of air breathing fish <i>Heteropneustes fossilis</i> under air exposure stress. <i>Journal of Comparative Physiology B: Biochemical, Systemic, and Environmental Physiology</i> , 2014, 184, 65-76. | 0.7 | 29 |
| 22 | A detailed review of the outbreak of COVID-19. <i>Frontiers in Bioscience - Landmark</i> , 2021, 26, 149. | 3.0 | 26 |
| 23 | A Modified Fluorimetric Method for Determination of Hydrogen Peroxide Using Homovanillic Acid Oxidation Principle. <i>BioMed Research International</i> , 2014, 2014, 1-8. | 0.9 | 23 |
| 24 | Outbreak of COVID-19: A Detailed Overview and Its Consequences. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1353, 23-45. | 0.8 | 23 |
| 25 | In silico prediction and characterization of 3D structure and binding properties of catalase from the commercially important crab, <i>Scylla serrata</i> . <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2011, 3, 110-120. | 2.2 | 21 |
| 26 | microRNAs Epigenetic players in cancer and aging. <i>Frontiers in Bioscience - Scholar</i> , 2019, 11, 29-55. | 0.8 | 20 |
| 27 | Socio-economic impact of COVID-19. , 2022, , 153-190. | | 18 |
| 28 | In silico prediction of 3D structure of Mn superoxide dismutase of <i>Scylla serrata</i> and its binding properties with inhibitors. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2013, 5, 69-76. | 2.2 | 17 |
| 29 | First week of social lockdown versus medical care against COVID-19 - with special reference to India. <i>Current Trends in Biotechnology and Pharmacy</i> , 2020, 14, 196-216. | 0.3 | 17 |
| 30 | Temporal morphometric analyses of <i>Pila globosa</i> in India for its use in aquaculture and food industry. <i>Journal of Basic and Applied Zoology</i> , 2021, 82, . | 0.4 | 16 |
| 31 | 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> , 2016, 23, 22819-22831. | 2.7 | 15 |
| 32 | Control of invasive Apple snails and their use as pollutant ecotoxic indicators: a review. <i>Environmental Chemistry Letters</i> , 2021, 19, 4627-4653. | 8.3 | 15 |
| 33 | Social lockdown and ecological intervention for the prevention of the community spread of COVID-19. <i>Cancer Research Statistics and Treatment</i> , 2020, 3, 667. | 0.1 | 15 |
| 34 | Constitutional, organopathic and combined homeopathic treatment of benign prostatic hypertrophy: a clinical trial. <i>Homeopathy</i> , 2012, 101, 217-223. | 0.5 | 14 |
| 35 | Low salinity induced challenges in the hardy fish <i>Heteropneustes fossilis</i> ; future prospective of aquaculture in near coastal zones. <i>Aquaculture</i> , 2021, 543, 737007. | 1.7 | 14 |
| 36 | Removing small non-enzymatic molecules for biochemical assay of redox regulatory enzymes; An exemplary comments on "Antioxidant responses in gills and digestive gland of oyster <i>Crassostrea madrasensis</i> (Preston) under lead exposure.. <i>Ecotoxicology and Environmental Safety</i> , 2018, 154, 337-340. | 2.9 | 11 |

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|----|--|-----|-----------|
| 37 | CQD@ Fe_2O_3 multifunctional nanoprobe for selective fluorescence sensing, detoxification and removal of Hg(II). <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2020, 589, 124445. | 2.3 | 11 |
| 38 | Future call for policy making to speed up interdisciplinarity between natural and social sciences and humanities in countries such as India. <i>Heliyon</i> , 2021, 7, e06484. | 1.4 | 11 |
| 39 | Sensing and 3D printing technologies in personalized healthcare for the management of health crises including the COVID-19 outbreak. <i>Sensors International</i> , 2022, 3, 100180. | 4.9 | 11 |
| 40 | Investigating the Conformational Structure and Potential Site Interactions of SOD Inhibitors on Ec-SOD in Marine Mud Crab <i>Scylla serrata</i> : A Molecular Modeling Approach. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2016, 8, 312-318. | 2.2 | 9 |
| 41 | Management of environmental health to prevent an outbreak of COVID-19. , 2021, , 235-267. | | 9 |
| 42 | Heavy metal and organic load in Haripur creek of Gopalpur along the Bay of Bengal, east coast of India. <i>Environmental Science and Pollution Research</i> , 2021, 28, 28275-28288. | 2.7 | 9 |
| 43 | Spike in pollution to ignite the bursting of COVID-19 second wave is more dangerous than spike of SAR-CoV-2 under environmental ignorance in long term: a review. <i>Environmental Science and Pollution Research</i> , 2022, 29, 85595-85611. | 2.7 | 9 |
| 44 | A comparative study of hepatic mitochondrial oxygen consumption in four vertebrates by using Clark-type electrode. <i>Acta Biologica Hungarica</i> , 2013, 64, 152-160. | 0.7 | 8 |
| 45 | Nutraceutical values of fish demand their ecological genetic studies: a short review. <i>Journal of Basic and Applied Zoology</i> , 2018, 79, . | 0.4 | 8 |
| 46 | Combinatorial approach of vitamin C derivative and anti-HIV drug-darunavir against SARS-CoV-2. <i>Frontiers in Bioscience</i> , 2022, 27, 1. | 0.8 | 8 |
| 47 | Biology and conservation of the genus <i>Scylla</i> in India subcontinent. <i>Journal of Environmental Biology</i> , 2012, 33, 871-9. | 0.2 | 7 |
| 48 | AgNO_3 dependant modulation of glucose mediated respiration kinetics in <i>Escherichia coli</i> at different pH and temperature. <i>Journal of Molecular Recognition</i> , 2016, 29, 544-554. | 1.1 | 6 |
| 49 | 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> , 2022, 40, 12316-12335. | 2.0 | 5 |
| 50 | Successful treatment of ureteric calculi with constitutional homeopathic medicine <i>Lycopodium clavatum</i> : A Case report. <i>Journal of Drug Delivery and Therapeutics</i> , 2018, 8, 1-7. | 0.2 | 5 |
| 51 | An insight into molecular interaction of PGIP with PG for banana cultivar. <i>Frontiers in Bioscience - Landmark</i> , 2020, 25, 335-362. | 3.0 | 5 |
| 52 | Pathways in small cell lung cancer and its therapeutic perspectives. <i>Frontiers in Bioscience</i> , 2021, 26, 1668-1678. | 0.8 | 5 |
| 53 | Re: Editorial Comment on Constitutional, Organopathic and Combined Homeopathic Treatment of Benign Prostatic Hypertrophy: A Clinical Trial. <i>Journal of Urology</i> , 2014, 192, 1000-1001. | 0.2 | 4 |
| 54 | A discrete $\text{Cu}_2(\text{Pd-bpy})_2\text{L}_2$ heterometallic compound with superoxide dismutase enzyme like activity. <i>Dalton Transactions</i> , 2020, 49, 8850-8854. | 1.6 | 4 |

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|----|--|-----|-----------|
| 55 | Mass Spectrophotometry: An Advanced Technique in Biomedical Sciences. <i>Advanced Techniques in Biology & Medicine</i> , 2015, 4, . | 0.1 | 4 |
| 56 | Daily Dietary Nutrition and Nutraceutical Intake in Agricultural Laborers of Hirakud Command Area, Sambalpur, Odisha, India. <i>Journal of Drug Delivery and Therapeutics</i> , 2019, 9, 56-61. | 0.2 | 4 |
| 57 | Changes in physicochemical, heavy metals and air quality linked to spot <i>Aplocheilus panchax</i> along Mahanadi industrial belt of India under COVID-19-induced lockdowns. <i>Environmental Geochemistry and Health</i> , 2023, 45, 751-770. | 1.8 | 4 |
| 58 | Dehydration induced hypoxia and its role on mitochondrial respiratory enzymes and oxidative stress responses in liver of Asian stinging catfish <i>Heteropneustes fossilis</i> . <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2022, 256, 109300. | 1.3 | 4 |
| 59 | Right Potency Matters: A Case Report of Homoeopathic Treatment of <i>Verruca Palmaris</i> . <i>Homopathic Links</i> , 2018, 31, 204-208. | 0.1 | 3 |
| 60 | COVID-19 Outbreak Challenges in Indian Migrant Pregnant and Lactating Mothers: Learnt Lesson Demands Phronesis and Hierarchical Strategies for Such Future Pandemics. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1353, 151-171. | 0.8 | 3 |
| 61 | Approaches for network based drug discovery. <i>Frontiers in Bioscience - Scholar</i> , 2021, 13, 30. | 0.8 | 2 |
| 62 | Combined Effects of Constitutional and Organopathic Homeopathic Medicines for Better Improvement of Benign Prostatic Hyperplasia Cases. <i>International Journal of Clinical & Medical Imaging</i> , 2017, 04, . | 0.1 | 2 |
| 63 | Human health care against COVID-19 via environmental management. , 2022, 2, 142-149. | | 2 |
| 64 | Self-nurturing of nature via SARS-CoV-2. , 0, , . | | 1 |
| 65 | Artificial superoxide dismutase for cosmetic therapy and industrial use. , 0, , . | | 0 |
| 66 | Over Generalized Discussion of Results and Poor Use of the Terminology in Science. <i>Bioenergetics: Open Access</i> , 2015, 04, . | 0.1 | 0 |
| 67 | Biochemical and Environmental Insights of Declining Vulture Population in Some South Asian Countries: Role of Diclofenac. <i>Pharmaceutica Analytica Acta</i> , 2015, 6, . | 0.2 | 0 |
| 68 | Antioxidants for human health. , 2020, , 22-26. | | 0 |
| 69 | Role of environmental factors in transmission of COVID-19. , 2022, , 35-72. | | 0 |
| 70 | Soil Type as One of the Major Contributing Factors for Top Ten Agri-Producing States of India. <i>Journal of Biomedical Research & Environmental Sciences</i> , 2021, 2, 790-811. | 0.1 | 0 |