

# Kantha Deivi Arunachalam

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

2,207  
citations

331670

21  
h-index

223800

46  
g-index

60  
all docs

60  
docs citations

60  
times ranked

2983  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Memecylon edule leaf extract mediated green synthesis of silver and gold nanoparticles. International Journal of Nanomedicine, 2011, 6, 1265.   | 6.7  | 279       |
| 2  | Enhancement of natural immune function by dietary consumption of Bifidobacterium lactis (HN019). European Journal of Clinical Nutrition, 2000, 54, 263-267.   | 2.9  | 261       |
| 3  | Tissue engineered plant extracts as nanofibrous wound dressing. Biomaterials, 2013, 34, 724-734.  | 11.4 | 216       |
| 4  | Ultrafine dispersed CuO nanoparticles and their antibacterial activity. Journal of Experimental Nanoscience, 2008, 3, 185-193.  | 2.4  | 186       |
| 5  | One-step green synthesis and characterization of leaf extract-mediated biocompatible silver and gold nanoparticles from Memecylon umbellatum. International Journal of Nanomedicine, 2013, 8, 1307.   | 6.7  | 165       |
| 6  | Potential anticancer properties of bioactive compounds of Gymnema sylvestre and its biofunctionalized silver nanoparticles. International Journal of Nanomedicine, 2015, 10, 31.  | 6.7  | 93        |
| 7  | Evaluation of in vitro antibacterial property of seaweeds of southeast coast of India. African Journal of Biotechnology, 2008, 7, 1958-1961.  | 0.6  | 88        |
| 8  | Role of Bifidobacteria in nutrition, medicine and technology. Nutrition Research, 1999, 19, 1559-1597.  | 2.9  | 86        |
| 9  | Earthworms and vermicompost: an eco-friendly approach for repaying nature's debt. Environmental Geochemistry and Health, 2020, 42, 1617-1642.   | 3.4  | 69        |
| 10 | Core-Shell Structured Antimicrobial Nanofiber Dressings Containing Herbal Extract and Antibiotics Combination for the Prevention of Biofilms and Promotion of Cutaneous Wound Healing. ACS Applied Materials & Interfaces, 2021, 13, 24356-24369. | 8.0  | 61        |
| 11 | Chrysopogon zizanioides aqueous extract mediated synthesis characterization of crystalline silver and gold nanoparticles for biomedical applications. International Journal of Nanomedicine, 2013, 8, 2375.                                       | 6.7  | 59        |
| 12 | Poly- $\mu$ -Caprolactone/Gelatin Hybrid Electrospun Composite Nanofibrous Mats Containing Ultrasound Assisted Herbal Extract: Antimicrobial and Cell Proliferation Study. Nanomaterials, 2019, 9, 462.   | 4.1  | 58        |
| 13 | Antimicrobial properties and biocompatibility of electrospun poly- $\mu$ -caprolactone fibrous mats containing Gymnema sylvestre leaf extract. Materials Science and Engineering C, 2019, 98, 503-514.  | 7.3  | 58        |
| 14 | Characterization, antibacterial and photocatalytic evaluation of green synthesized copper oxide nanoparticles. Biocatalysis and Agricultural Biotechnology, 2021, 31, 101904.   | 3.1  | 46        |
| 15 | Comparison of characteristics and biocompatibility of green synthesized iron oxide nanoparticles with chemical synthesized nanoparticles. Environmental Research, 2021, 201, 111585.  | 7.5  | 42        |
| 16 | Green synthesis, characterization and antibacterial evaluation of electrospun nickel oxide nanofibers. Materials Letters, 2019, 256, 126616.  | 2.6  | 34        |
| 17 | Copper oxide nanoparticles infused electrospun polycaprolactone/gelatin scaffold as an antibacterial wound dressing. Materials Letters, 2021, 294, 129787.  | 2.6  | 34        |
| 18 | Effects of radiation and role of plants in radioprotection: A critical review. Science of the Total Environment, 2021, 779, 146431.   | 8.0  | 30        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Uranium (238U)-induced ROS and cell cycle perturbations, antioxidant responses and erythrocyte nuclear abnormalities in the freshwater iridescent shark fish <i>Pangasius sutchi</i> . <i>Aquatic Toxicology</i> , 2017, 186, 145-158.                           | 4.0 | 27        |
| 20 | Production and characterization of Bio Caulk by <i>Bacillus pasteurii</i> and its remediation properties with carbon nano tubes on concrete fractures and fissures. <i>Materials Research Bulletin</i> , 2012, 47, 3362-3368.                                    | 5.2 | 25        |
| 21 | Potential health risk caused by heavy metal associated with seafood consumption around coastal area. <i>Environmental Pollution</i> , 2022, 294, 118553.   | 7.5 | 25        |
| 22 | &lt;i>i</i>&lt;i>IN-VIVO</i>&lt;i>i</i>; EVALUATION OF HEXAVALENT CHROMIUM INDUCED DNA DAMAGE BY ALKALINE COMET ASSAY AND OXIDATIVE STRESS IN &lt;i>i</i>&lt;i>CATLA CATLA</i>&lt;i>i</i>. <i>American Journal of Environmental Sciences</i> , 2013, 9, 470-482. | 0.5 | 22        |
| 23 | In vivo anti-ulcer, anti-stress, anti-allergic, and functional properties of Gymnemic Acid Isolated from <i>Gymnema sylvestre</i> R Br. <i>BMC Complementary and Alternative Medicine</i> , 2014, 14, 70.  | 3.7 | 22        |
| 24 | Current technologies of biochemical conversion of food waste into biogas production: A review. <i>Fuel</i> , 2022, 323, 124321.  | 6.4 | 21        |
| 25 | Baseline measurements of 210Po and 210Pb in the seafood of Kasimedu fishing harbour, Chennai, South East Coast of India and related dose to population. <i>Environmental Chemistry and Ecotoxicology</i> , 2019, 1, 43-48.                                       | 9.1 | 17        |
| 26 | Isolation and characterization of pepsin from polar cod ( <i>Boreogadus saida</i> ). <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1985, 80, 467-473.  | 0.2 | 15        |
| 27 | Ingestion of Polonium ( <sup>210</sup> Po) via dietary sources in high background radiation areas of south India. <i>International Journal of Radiation Biology</i> , 2014, 90, 867-875.   | 1.8 | 15        |
| 28 | Synthesis and characterization of magnetite carbon nanocomposite from agro waste as chromium adsorbent for effluent treatment. <i>Environmental Research</i> , 2021, 202, 111669.  | 7.5 | 15        |
| 29 | Pilot-scale study on downdraft gasification of municipal solid waste with mass and energy balance analysis. <i>Fuel</i> , 2022, 315, 123287.   | 6.4 | 14        |
| 30 | Uranium induces genomic instability and slows cell cycle progression in human lymphocytes in acute toxicity study. <i>Toxicology in Vitro</i> , 2021, 73, 105149.  | 2.4 | 11        |
| 31 | Kaempferol loaded albumin nanoparticles and dexamethasone encapsulation into electrospun polycaprolactone fibrous mat &acirc; Concurrent release for cartilage regeneration. <i>Journal of Drug Delivery Science and Technology</i> , 2021, 64, 102666.          | 3.0 | 10        |
| 32 | Synthesis and characterization of polyphenols functionalized graphitic hematite nanocomposite adsorbent from an agro waste and its application for removal of Cs from aqueous solution. <i>Chemosphere</i> , 2022, 286, 131493.                                  | 8.2 | 10        |
| 33 | Natural radionuclide dose and lifetime cancer risk due to ingestion of fish and water from fresh water reservoirs near the proposed uranium mining site. <i>Environmental Science and Pollution Research</i> , 2017, 24, 15427-15443.                            | 5.3 | 9         |
| 34 | Radio-protective dosimetry of <i>Pangasius sutchi</i> as a biomarker, against gamma radiation dosages perceived by genotoxic assays. <i>Ecotoxicology and Environmental Safety</i> , 2018, 164, 629-640.   | 6.0 | 9         |
| 35 | Fabrication, characterization and in vitro evaluation of <i>Melia dubia</i> extract infused nanofibers for wound dressing. <i>Journal of King Saud University - Science</i> , 2022, 34, 101931.  | 3.5 | 9         |
| 36 | Anti-genotoxic potential of casein phosphopeptides (CPPs): a class of fermented milk peptides against low background radiation and prevention of cancer in radiation workers. <i>Toxicology and Industrial Health</i> , 2011, 27, 867-872.                       | 1.4 | 7         |

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|----|--|-----|-----------|
| 37 | Effect of gamma sterilization on <i>Gymnema sylvestre</i> leaf extract fused Polycaprolactone nanofiber for effective wound dressing applications. <i>Materials Letters</i> , 2021, 300, 130145.   | 2.6 | 7         |
| 38 | SPATIAL AND MULTIVARIATE ANALYSIS OF TRACE ELEMENTS IN THE SURFACE WATER AND DEEP SEDIMENTS OF FRESH WATER AQUATIC ECOSYSTEM. <i>American Journal of Environmental Sciences</i> , 2014, 10, 102-122.   | 0.5 | 6         |
| 39 | Uranium ( <sup>238</sup> U) bioaccumulation and its persuaded alterations on hematological, serological and histological parameters in freshwater fish <i>Pangasius sutchi</i> . <i>Environmental Toxicology and Pharmacology</i> , 2017, 52, 262-275.       | 4.0 | 6         |
| 40 | Pulverization and characterization of nano borax decahydrate and shielding efficiency of gamma and neutron radiation in bio-caulk enriched high-performance concrete. <i>Materials Letters</i> , 2021, 302, 130400.  | 2.6 | 5         |
| 41 | Assessment of seasonal variation in distribution and abundance of plankton and ichthyofaunal diversity in relation to environmental indices of Karankadu Mangrove, South East Coast of India. <i>Marine Pollution Bulletin</i> , 2021, 173, 113142.          | 5.0 | 5         |
| 42 | Effects of Azomite enriched diet on gonadal steroid hormone levels and milt quality indices in <i>Oreochromis mossambicus</i> . <i>Aquaculture Reports</i> , 2020, 17, 100341.   | 1.7 | 4         |
| 43 | Microbial uptake and accumulation of (14C carbofuran) 1,3-dihydro-2,2-dimethyl-7 benzofuranylmethyl carbamate in twenty fungal strains isolated by miniecosystem studies. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1988, 41, 127-134. | 2.7 | 3         |
| 44 | Decomposition of 14C-labelled carbofuran in a black tropical soil under laboratory conditions. <i>Soil Biology and Biochemistry</i> , 1990, 22, 407-412.   | 8.8 | 3         |
| 45 | Genotoxicity Evaluation of 1,2 Dichlorobenzene in the Indian Major Carp, <i>Catla catla</i> L. Using Alkaline Comet Assay. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2013, 91, 616-622.  | 2.7 | 3         |
| 46 | Single step pulverization effect of Borax decahydrate and Boric acid—a comparison. <i>Materials Research Express</i> , 2019, 6, 094009.  | 1.6 | 3         |
| 47 | Experimental investigations on sugarcane bagasse pyrolytic oil production from flash pyrolysis using a rotary screw reactor. <i>Biofuels, Bioproducts and Biorefining</i> , 2022, 16, 576-586.   | 3.7 | 3         |
| 48 | Translocation, accumulation and persistence of carbofuran in paddy, ground nut, and cotton. <i>Bulletin of Environmental Contamination and Toxicology</i> , 1982, 28, 230-238.   | 2.7 | 2         |
| 49 | Nanoscale Analysis of Surface Topography and Adhesion Force Measurements of Flagella Isolated from <i>Chlamydomonas reinhardtii</i> . <i>Journal of Advanced Microscopy Research</i> , 2013, 8, 163-170.   | 0.3 | 2         |
| 50 | Optimization of hydrogen enrichment via palladium membrane in vacuum environments using Taguchi method and normalized regression analysis. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 42280-42292.  | 7.1 | 2         |
| 51 | Protective effect of <i>Gymnema sylvestre</i> leaf extract against uranium toxicity in human peripheral blood mononuclear cells. <i>Journal of King Saud University - Science</i> , 2022, 34, 101895.  | 3.5 | 2         |
| 52 | Structural and physico-mechanical investigations of Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> geopolymer for <sup>137</sup> I-radiation attenuating applications. <i>Ceramics International</i> , 2022, 48, 29359-29365.                                 | 4.8 | 2         |
| 53 | Feasibility of ZrSiO <sub>4</sub> as reference signature in naturally-occurring radioactive elements for the application of radioactivity monitoring. <i>Chemosphere</i> , 2022, 286, 131942.  | 8.2 | 1         |
| 54 | Effect of halothane on the growth of microbial species isolated from a peat biofilter. <i>Ecological Engineering</i> , 1996, 7, 151-155.   | 3.6 | 0         |

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|----|--|-----|-----------|
| 55 | Simulation Model for Feasibility Studies on Bioremediation of Uranium Mill Tailings using Hyper Accumulator <i>Chrysopogon zizanioides</i>. American Journal of Environmental Sciences, 2016, 12, 370-378. | 0.5 | 0         |
| 56 | In vitro Antibacterial Activity of Tuber Extracts of <i>Zhenaria scabra</i> . Journal of Plant Sciences, 2008, 3, 224-229.   | 0.2 | 0         |
| 57 | Environmental and anthropogenic impact on conservation and sustainability of marine fish diversity. Environmental Science and Pollution Research, 0, , .   | 5.3 | 0         |