

Natchimuthu Karmegam

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6202442/publications.pdf>

Version: 2024-02-01

87
papers

2,864
citations

117571

34
h-index

189801

50
g-index

89
all docs

89
docs citations

89
times ranked

1424
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficiency of microbial fuel cells in the treatment and energy recovery from food wastes: Trends and applications - A review. <i>Chemosphere</i> , 2022, 287, 132439.	4.2	25
2	Detoxification of coir pith through refined vermicomposting engaging <i>Eudrilus eugeniae</i> . <i>Chemosphere</i> , 2022, 291, 132675.	4.2	19
3	Waste Ox bone based heterogeneous catalyst synthesis, characterization, utilization and reaction kinetics of biodiesel generation from <i>Jatropha curcas</i> oil. <i>Chemosphere</i> , 2022, 288, 132534.	4.2	26
4	Vermiremediation of engine oil contaminated soil employing indigenous earthworms, <i>Drawida modesta</i> and <i>Lampito mauritii</i> . <i>Journal of Environmental Management</i> , 2022, 301, 113849.	3.8	10
5	Co-composting of food waste and swine manure augmenting biochar and salts: Nutrient dynamics, gaseous emissions and microbial activity. <i>Bioresource Technology</i> , 2022, 344, 126300.	4.8	49
6	Valorization of food waste and poultry manure through co-composting amending saw dust, biochar and mineral salts for value-added compost production. <i>Bioresource Technology</i> , 2022, 346, 126442.	4.8	33
7	Emerging trends and nanotechnology advances for sustainable biogas production from lignocellulosic waste biomass: A critical review. <i>Fuel</i> , 2022, 312, 122928.	3.4	51
8	Antibacterial activity of silver nanoparticles phytosynthesized from <i>Glochidion candolleianum</i> leaves. <i>Materials Letters</i> , 2022, 311, 131572.	1.3	50
9	Recent development patterns, utilization and prospective of biofuel production: Emerging nanotechnological intervention for environmental sustainability – A review. <i>Fuel</i> , 2022, 314, 122757.	3.4	44
10	Impact of biosynthesized CuO nanoparticles on seed germination and cyto-physiological responses of <i>Trigonella foenum-graecum</i> and <i>Vigna radiata</i> . <i>Materials Letters</i> , 2022, 313, 131756.	1.3	5
11	Nanomaterials for transforming barrier properties of lignocellulosic biomass towards potential applications – A review. <i>Fuel</i> , 2022, 316, 123444.	3.4	24
12	Bio-management of Textile Industrial Wastewater Sludge Using Earthworms: A Doable Strategy Toward Sustainable Environment. , 2022, , 1337-1355.		0
13	The urge of algal biomass-based fuels for environmental sustainability against a steady tide of biofuel conflict analysis: Is third-generation algal biorefinery a boon?. <i>Fuel</i> , 2022, 317, 123494.	3.4	43
14	Biosurfactants: Potential and Eco-Friendly Material for Sustainable Agriculture and Environmental Safety – A Review. <i>Agronomy</i> , 2022, 12, 662.	1.3	86
15	Extraction, identification, and environmental risk assessment of microplastics in commercial toothpaste. <i>Chemosphere</i> , 2022, 296, 133976.	4.2	25
16	Assessment, characterization, and quantification of microplastics from river sediments. <i>Chemosphere</i> , 2022, 298, 134268.	4.2	30
17	Optimization of binary acids pretreatment of corncob biomass for enhanced recovery of cellulose to produce bioethanol. <i>Fuel</i> , 2022, 321, 124060.	3.4	56
18	Advanced thermochemical conversion of algal biomass to liquid and gaseous biofuels: A comprehensive review of recent advances. <i>Sustainable Energy Technologies and Assessments</i> , 2022, 52, 102211.	1.7	8

#	ARTICLE	IF	CITATIONS
19	Enhanced biogas production from food waste and activated sludge using advanced techniques â€“ A review. <i>Bioresource Technology</i> , 2022, 355, 127234.	4.8	52
20	Graphene oxide-based nanomaterials for the treatment of pollutants in the aquatic environment: Recent trends and perspectives â€“ A review. <i>Environmental Pollution</i> , 2022, 306, 119377.	3.7	45
21	Advances in bioremediation of emerging contaminants from industrial wastewater by oxidoreductase enzymes. <i>Bioresource Technology</i> , 2022, 359, 127444.	4.8	25
22	Graphene materials: Armor against nosocomial infections and biofilm formation â€“ A review. <i>Environmental Research</i> , 2022, 214, 113867.	3.7	13
23	Emerging nano-structured innovative materials as adsorbents in wastewater treatment. <i>Bioresource Technology</i> , 2021, 320, 124394.	4.8	41
24	Centrality of cattle solid wastes in vermicomposting technology â€“ A cleaner resource recovery and biowaste recycling option for agricultural and environmental sustainability. <i>Environmental Pollution</i> , 2021, 268, 115688.	3.7	61
25	Precomposting and green manure amendment for effective vermitransformation of hazardous coir industrial waste into enriched vermicompost. <i>Bioresource Technology</i> , 2021, 319, 124136.	4.8	65
26	Cleaner production of agriculturally valuable benignant materials from industry generated bio-wastes: A review. <i>Bioresource Technology</i> , 2021, 320, 124281.	4.8	78
27	Effect of vermiwash prepared from livestock biowaste as vermiponics medium on the growth and biochemical indices of <i>Amaranthus viridis</i> L.. <i>Environmental Technology and Innovation</i> , 2021, 21, 101300.	3.0	8
28	Metallothionein dependent-detoxification of heavy metals in the agricultural field soil of industrial area: Earthworm as field experimental model system. <i>Chemosphere</i> , 2021, 267, 129240.	4.2	43
29	Assessment of earthworm diversity and pesticide toxicity in <i>Eudrilus Eugeniae</i> . <i>Environmental Chemistry and Ecotoxicology</i> , 2021, 3, 23-30.	4.6	7
30	Earthworm intervened nutrient recovery and greener production of vermicompost from <i>Ipomoea staphylina</i> â€“ An invasive weed with emerging environmental challenges. <i>Chemosphere</i> , 2021, 263, 128080.	4.2	41
31	Vermi transformation of monogastric <i>Elephas maximus</i> and ruminant <i>Bos taurus</i> excrements into vermicompost using <i>Eudrilus eugeniae</i> . <i>Bioresource Technology</i> , 2021, 320, 124302.	4.8	22
32	Extraction of microplastics from commonly used sea salts in India and their toxicological evaluation. <i>Chemosphere</i> , 2021, 263, 128181.	4.2	59
33	Bio-management of Textile Industrial Wastewater Sludge Using Earthworms: A Doable Strategy Toward Sustainable Environment. , 2021, , 1-19.		0
34	Chemico-nanotreatment methods for the removal of persistent organic pollutants and xenobiotics in water â€“ A review. <i>Bioresource Technology</i> , 2021, 324, 124678.	4.8	69
35	Heterogeneous base catalysts: Synthesis and application for biodiesel production â€“ A review. <i>Bioresource Technology</i> , 2021, 331, 125054.	4.8	137
36	Removal of emerging micropollutants originating from pharmaceuticals and personal care products (PPCPs) in water and wastewater by advanced oxidation processes: A review. <i>Environmental Technology and Innovation</i> , 2021, 23, 101757.	3.0	102

#	ARTICLE	IF	CITATIONS
37	Activation of biochar through exoenzymes prompted by earthworms for vermibiochar production: A viable resource recovery option for heavy metal contaminated soils and water. <i>Chemosphere</i> , 2021, 278, 130458.	4.2	35
38	Effect of biochar amendment on compost quality, gaseous emissions and pathogen reduction during in-vessel composting of chicken manure. <i>Chemosphere</i> , 2021, 283, 131129.	4.2	69
39	Phycoremediation of wastewater for pollutant removal: A green approach to environmental protection and long-term remediation. <i>Environmental Pollution</i> , 2021, 290, 117989.	3.7	84
40	Ligninolytic valorization of agricultural residues by <i>Aspergillus nomius</i> and <i>Trichoderma harzianum</i> isolated from gut and comb of <i>Odontotermes obesus</i> (Termitidae). <i>Chemosphere</i> , 2021, 284, 131384.	4.2	9
41	Vermiconversion of biowastes with low-to-high C/N ratio into value added vermicompost. <i>Bioresource Technology</i> , 2020, 297, 122398.	4.8	76
42	Environment-friendly management of textile mill wastewater sludge using epigeic earthworms: Bioaccumulation of heavy metals and metallothionein production. <i>Journal of Environmental Management</i> , 2020, 254, 109813.	3.8	43
43	Enriched pressmud vermicompost production with green manure plants using <i>Eudrilus eugeniae</i> . <i>Bioresource Technology</i> , 2020, 299, 122578.	4.8	115
44	Vermiremediation of Urban and Agricultural Biomass Residues for Nutrient Recovery and Vermifertilizer Production. <i>Waste and Biomass Valorization</i> , 2020, 11, 6483-6497.	1.8	18
45	Green Synthesis of Zinc Sulfide Nanoparticles Using <i>Abrus precatorius</i> and Its Effect on Coelomic Fluid Protein Profile and Enzymatic Activity of the Earthworm, <i>Eudrilus eugeniae</i> . <i>BioNanoScience</i> , 2020, 10, 149-156.	1.5	13
46	Aqueous two-phase partitioning and characterization of xylanase produced by <i>Streptomyces geysiriensis</i> from low cost lignocellulosic substrates. <i>Journal of Bioscience and Bioengineering</i> , 2020, 130, 571-576.	1.1	13
47	Recycling of leather industrial sludge through vermitechnology for a cleaner environmentâ€”A review. <i>Industrial Crops and Products</i> , 2020, 155, 112791.	2.5	29
48	Nutrient recovery and vermicompost production from livestock solid wastes with epigeic earthworms. <i>Bioresource Technology</i> , 2020, 313, 123690.	4.8	43
49	Earthworms and vermicompost: an eco-friendly approach for repaying natureâ€™s debt. <i>Environmental Geochemistry and Health</i> , 2020, 42, 1617-1642.	1.8	69
50	Effect of pre-composting on seed viability and subsequent vermicomposting of an invasive alien weed, <i>Alternanthera ficoidea</i> (L.) P. Beauv.. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2020, 7, 37-45.	0.1	5
51	Optimization of culture medium for improved production of antimicrobial compounds by <i>Amycolatopsis</i> sp. -AS9 isolated from vermicasts. <i>Biocatalysis and Agricultural Biotechnology</i> , 2019, 20, 101186.	1.5	3
52	Plant-Mediated Synthesis, Characterization and Bactericidal Potential of Emerging Silver Nanoparticles Using Stem Extract of <i>Phyllanthus pinnatus</i> : A Recent Advance in Phytonanotechnology. <i>Journal of Cluster Science</i> , 2019, 30, 1481-1488.	1.7	72
53	Vermicomposting of paper industry sludge with cowdung and green manure plants using <i>Eisenia fetida</i> : A viable option for cleaner and enriched vermicompost production. <i>Journal of Cleaner Production</i> , 2019, 228, 718-728.	4.6	95
54	Vermistabilization of seaweeds using an indigenous earthworm species, <i>Perionyx excavatus</i> (Perrier). <i>Ecological Engineering</i> , 2019, 130, 23-31.	1.6	31

#	ARTICLE	IF	CITATIONS
55	Seaweeds as bioresources for vermicompost production using the earthworm, <i>Perionyx excavatus</i> (Perrier). <i>Bioresource Technology</i> , 2019, 275, 394-401.	4.8	41
56	Alarming spread of invasive weeds: A qualitative assessment and scope for sustainable weed biomass utilization. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2019, 6, 20-25.	0.1	1
57	<i>Memecylon royenii</i> Blume (Olisbeoideae: Melastomataceae): A new record for Tamil Nadu, India. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2019, 6, 26-28.	0.1	0
58	Some new combinations and new names for Flora of India. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2019, 6, 33-46.	0.1	2
59	Statistical optimization of culture conditions for the production of bioactive compounds by <i>Streptomyces</i> spp. isolated from vermicasts. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2019, 6, 1-7.	0.1	1
60	Synthesis of bioactive compounds from vermicast isolated actinomycetes species and its antimicrobial activity against human pathogenic bacteria. <i>Microbial Pathogenesis</i> , 2018, 121, 155-165.	1.3	35
61	Vermistabilization of paper mill sludge by an epigeic earthworm <i>Perionyx excavatus</i> : Mitigation strategies for sustainable environmental management. <i>Ecological Engineering</i> , 2018, 120, 187-197.	1.6	43
62	Extraction, separation and characterization of bioactive compounds produced by <i>Streptomyces</i> isolated from vermicast soil. <i>Research Journal of Pharmacy and Technology</i> , 2018, 11, 4569.	0.2	6
63	Antibacterial Activity of Ethanol Extracts of <i>Sesamum alatum</i> Thonn. Leaves. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2018, 5, 38-41.	0.1	2
64	Amelioration of Allelopathic Effect of <i>Lantana camara</i> L. on Germination, Seedling Growth and Chlorophyll Contents of <i>Sorghum bicolor</i> (L.) Conrad Moench Using Vermicompost. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2018, 5, 53-59.	0.1	0
65	Antimicrobial Activity of Ethnomedicinally Important Asclepiads from Shervaroyan Hills, Southern Eastern Ghats. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2018, 5, 86-94.	0.1	1
66	GC-MS Analysis of Phytocomponents in the Ethanol Extract of <i>Sesamum alatum</i> Thonn. Leaves. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2018, 5, 74-81.	0.1	0
67	Comparative Study of Biochemical Responses in Three Species of Earthworms Exposed to Pesticide and Metal Contaminated Soil. <i>Environmental Processes</i> , 2016, 3, 167-178.	1.7	15
68	Floral Diversity of Vaigai River in Thiruppuvanam Region of Sivagangai District, Tamil Nadu, Southern India. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2016, 3, 96-105.	0.1	1
69	Floristic Composition of Weeds in Coconut (<i>Cocos nucifera</i> L.) Plantations of Sivagangai District, Tamil Nadu, Southern India. <i>International Journal of Current Research in Biosciences and Plant Biology</i> , 2016, 3, 121-126.	0.1	0
70	Gc- ms analysis of ethyl acetate extract Of sterptomycesspecies isolated From vermicast. <i>International Journal of Pharma and Bio Sciences</i> , 2016, 7, .	0.1	4
71	Biosynthesis of silver nanoparticles from <i>Premna serratifolia</i> L. leaf and its anticancer activity in CCl ₄ -induced hepato-cancerous Swiss albino mice. <i>Applied Nanoscience (Switzerland)</i> , 2015, 5, 937-944.	1.6	32
72	Tropical Earthworms. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
73	Microbial Enrichment of Vermicompost. ISRN Soil Science, 2012, 2012, 1-13.	0.8	6
74	Enrichment of Biogas Slurry Vermicompost with Azotobacter chroococcum and Bacillus megaterium. Journal of Environmental Science and Technology, 2012, 5, 91-108.	0.3	8
75	Municipal solid waste (MSW) vermicomposting with an epigeic earthworm, Perionyx ceylanensis Mich.. Bioresource Technology, 2011, 102, 6769-6773.	4.8	43
76	Synergistic Antibacterial Activity of Four Medicinal Plants Collected from Dharapuram Taluk of Tiruppur District, South India. Journal of Plant Sciences, 2011, 7, 32-38.	0.2	6
77	Effect of turkey litter (Meleagris gallopavo L.) vermicompost on growth and yield characteristics of paddy, Oryza sativa (ADT-37). African Journal of Biotechnology, 2011, 10, .	0.3	27
78	In vitro Cytotoxic Evaluation of Hugonia mystax Linn. Leaf and Stem Bark Extracts. International Journal of Botany, 2011, 7, 300-304.	0.2	0
79	Dynamics of nutrients and microflora during vermicomposting of mango leaf litter (Mangifera) Tj ETQq1 1 0.784314 rgBT /Overlock 10 0.15 19	0.15	19
80	Vermistabilization of pressmud using Perionyx ceylanensis Mich.. Bioresource Technology, 2010, 101, 8464-8468.	4.8	85
81	Status, Trends, and Advances in Earthworm Research and Vermitechnology. Applied and Environmental Soil Science, 2010, 2010, 1-2.	0.8	1
82	The Role of Earthworms in Tropics with Emphasis on Indian Ecosystems. Applied and Environmental Soil Science, 2010, 2010, 1-16.	0.8	37
83	Earthworm casts as an alternate carrier material for biofertilizers: Assessment of endurance and viability of Azotobacter chroococcum, Bacillus megaterium and Rhizobium leguminosarum. Scientia Horticulturae, 2010, 124, 286-289.	1.7	31
84	Investigating efficiency of Lampito mauritii (Kinberg) and Perionyx ceylanensis Michaelsen for vermicomposting of different types of organic substrates. The Environmentalist, 2009, 29, 287-300.	0.7	47
85	Growth, reproductive biology and life cycle of the vermicomposting earthworm, Perionyx ceylanensis Mich. (Oligochaeta: Megascolecidae). Bioresource Technology, 2009, 100, 4790-4796.	4.8	32
86	Biosynthesis Of Cellulase Protein From Cheaper Substrates Using Mixed Culture Of Trichoderma Reesei And Penicillium Funiculosum - A Novel Approach. International Journal on Applied Bio-Engineering, 2009, 3, 11-16.	0.2	0
87	Indigenous-plant extracts as larvicidal agents against Culex quinquefasciatus Say. Bioresource Technology, 1997, 59, 137-140.	4.8	62