Nanjappa Ashwath

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4326441/publications.pdf

Version: 2024-02-01

99 papers	3,891 citations	172386 29 h-index	128225 60 g-index
100 all docs	100 docs citations	100 times ranked	4431 citing authors

#	Article	IF	Citations
1	Biofuels Production through Biomass Pyrolysis â€"A Technological Review. Energies, 2012, 5, 4952-5001.	1.6	998
2	Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. Critical Reviews in Plant Sciences, 2014, 33, 374-391.	2.7	279
3	Prospects of 2nd generation biodiesel as a sustainable fuelâ€"Part: 1 selection of feedstocks, oil extraction techniques and conversion technologies. Renewable and Sustainable Energy Reviews, 2016, 55, 1109-1128.	8.2	224
4	Prospects of 2nd generation biodiesel as a sustainable fuel â€" Part 2: Properties, performance and emission characteristics. Renewable and Sustainable Energy Reviews, 2016, 55, 1129-1146.	8.2	144
5	Production optimization and quality assessment of papaya (Carica papaya) biodiesel with response surface methodology. Energy Conversion and Management, 2018, 156, 103-112.	4.4	115
6	Energy recovery from municipal solid waste using pyrolysis technology: A review on current status and developments. Renewable and Sustainable Energy Reviews, 2021, 145, 111073.	8.2	113
7	Second Generation Biodiesel: Potential Alternative to-edible Oil-derived Biodiesel. Energy Procedia, 2014, 61, 1969-1972.	1.8	109
8	Tissue Culture Studies of Tomato (Lycopersicon esculentum). Plant Cell, Tissue and Organ Culture, 2004, 78, 1-21.	1.2	76
9	The potential of utilising papaya seed oil and stone fruit kernel oil as non-edible feedstock for biodiesel production in Australiaâ€"A review. Energy Reports, 2019, 5, 280-297.	2.5	76
10	Experimental investigation of pyrolysis of rice straw using bench-scale auger, batch and fluidized bed reactors. Energy, 2015, 93, 2384-2394.	4.5	73
11	Studies on spatial distribution of nickel in leaves and stems of the metal hyperaccumulator Stackhousia tryonii Bailey using nuclear microprobe (micro-PIXE) and EDXS techniques. Functional Plant Biology, 2004, 31, 1061.	1.1	67
12	Optimisation of Oil Extraction Process from Australian Native Beauty Leaf Seed (Calophyllum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302	1.8	65
13	Physio-chemical assessment of beauty leaf (Calophyllum inophyllum) as second-generation biodiesel feedstock. Energy Reports, 2015, 1, 204-215.	2.5	62
14	Optimisation of Second-Generation Biodiesel Production from Australian Native Stone Fruit Oil Using Response Surface Method. Energies, 2018, 11, 2566.	1.6	62
15	Optimisation of Bio-Oil Extraction Process from Beauty Leaf (Calophyllum Inophyllum) Oil Seed as a Second Generation Biodiesel Source. Procedia Engineering, 2013, 56, 619-624.	1.2	61
16	Mycorrhizas in the Kakadu region of tropical Australia. Plant and Soil, 1996, 184, 173-184.	1.8	58
17	Comparison of oil extraction between screw press and solvent (n-hexane) extraction technique from beauty leaf (Calophyllum inophyllum L.) feedstock. Industrial Crops and Products, 2020, 144, 112024.	2.5	58
18	Mycorrhizas in the Kakadu region of tropical Australia. Plant and Soil, 1996, 184, 159-171.	1.8	56

#	Article	IF	Citations
19	Phytocapping: An Alternative Technology for the Sustainable Management of Landfill Sites. Critical Reviews in Environmental Science and Technology, 2014, 44, 561-637.	6.6	50
20	Elemental mapping using PIXE shows the main pathway of nickel movement is principally symplastic within the fruit of the hyperaccumulator Stackhousia tryonii. New Phytologist, 2003, 160, 479-488.	3.5	45
21	Glomeromycotan mycorrhizal fungi from tropical Australia III. Measuring diversity in natural and disturbed habitats. Plant and Soil, 2013, 370, 419-433.	1.8	44
22	The efficacy of multiple-criteria design matrix for biodiesel feedstock selection. Energy Conversion and Management, 2019, 198, 111790.	4.4	44
23	CFD study of heat transfer enhancement and fluid flow characteristics of laminar flow through tube with helical screw tape insert. Energy Procedia, 2019, 160, 699-706.	1.8	42
24	Effects of agronomic treatments on functional diversity of soil microbial community and microbial activity in a revegetated coal mine spoil. Geoderma, 2019, 338, 40-47.	2.3	40
25	Effects of genotype, explant orientation, and wounding on shoot regeneration in tomato. In Vitro Cellular and Developmental Biology - Plant, 2005, 41, 457-464.	0.9	37
26	Antioxidative and therapeutic potential of selected Australian plants: A review. Journal of Ethnopharmacology, 2021, 268, 113580.	2.0	37
27	Biodiesel production and characterisation of poppy (Papaver somniferum L.) seed oil methyl ester as a source of 2nd generation biodiesel feedstock. Industrial Crops and Products, 2020, 152, 112493.	2.5	34
28	Glomalean mycorrhizal fungi from tropical Australia. Mycorrhiza, 1999, 8, 315-321.	1.3	32
29	Quantitative evaluation of strategies for erosion control on a railway embankment batter. Hydrological Processes, 2001, 15, 3249-3268.	1.1	31
30	Variation in oil content and fatty acid profile of Calophyllum inophyllum L. with fruit maturity and its implications on resultant biodiesel quality. Industrial Crops and Products, 2011, 33, 629-632.	2.5	31
31	Potential for Fourier transform infrared (FTIR) spectroscopy toward predicting antioxidant and phenolic contents in powdered plant matrices. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 233, 118228.	2.0	31
32	Effect of Medium pH on Shoot Regeneration from the Cotyledonary Explants of Tomato. Biotechnology, 2004, 4, 7-10.	0.5	31
33	Emission characteristics of waste tallow and waste cooking oil based ternary biodiesel fuels. Energy Procedia, 2019, 160, 842-847.	1.8	30
34	Effects of Pyrolysis Bio-Oils on Fuel Atomisationâ€"A Review. Energies, 2021, 14, 794.	1.6	30
35	Responses to nitrogen, phosphorus, potassium and sodium chloride by three mangrove species in pot culture. Trees - Structure and Function, 2002, 16, 120-125.	0.9	29
36	Performance and Emission Characteristics of Binary Mixture of Poppy and Waste Cooking Biodiesel. Energy Procedia, 2017, 110, 523-528.	1.8	28

#	Article	IF	Citations
37	Optimization of biodiesel production from stone fruit kernel oil. Energy Procedia, 2019, 160, 268-276.	1.8	28
38	A pragmatic and critical analysis of engine emissions for biodiesel blended fuels. Fuel, 2020, 270, 117513.	3.4	27
39	Nitrogen relations of natural and disturbed plant communities in tropical Australia. Oecologia, 1998, 117, 95-104.	0.9	26
40	Comparative metabolic and ionomic profiling of two cultivars of Stevia rebaudiana Bert. (Bertoni) grown under salinity stress. Plant Physiology and Biochemistry, 2018, 129, 56-70.	2.8	26
41	Provenance variations in seed-related characters and oil content of Calophyllum inophyllum L. in northern Australia and Sri Lanka. New Forests, 2011, 41, 89-94.	0.7	25
42	Process options for conversion of Agave tequilana leaves into bioethanol. Industrial Crops and Products, 2016, 84, 263-272.	2.5	21
43	The synergistic effects of oxygenated additives on papaya biodiesel binary and ternary blends. Fuel, 2019, 256, 115980.	3.4	21
44	A Systematic Multivariate Analysis of Carica papaya Biodiesel Blends and Their Interactive Effect on Performance. Energies, 2018, 11, 2931.	1.6	20
45	Application of FTIR-ATR spectroscopy to detect salinity response in Beauty Leaf Tree (Calophyllum) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	19
46	In vitro spore germination of the fern Schizaea dichotoma. Scientia Horticulturae, 2003, 97, 369-378.	1.7	17
47	Physiological and morphological responses to abiotic stresses in two cultivars of Stevia rebaudiana (Bert.) Bertoni. South African Journal of Botany, 2019, 123, 124-132.	1.2	17
48	Ex Vitro Rooting of Micropropagated Shoots of Stackhousia Tryonii. Biologia Plantarum, 2002, 45, 441-444.	1.9	15
49	Phytocapping: An alternative technique to reduce leachate and methane generation from municipal landfills. The Environmentalist, 2007, 27, 155-164.	0.7	14
50	Phytocapping: Importance of Tree Selection and Soil Thickness. Water, Air and Soil Pollution, 2009, 9, 421-430.	0.8	14
51	Periodic variation in kernel oil content and fatty acid profiles of Calophyllum innophyllm L.: A potential biodiesel feedstock in Australia. Biomass and Bioenergy, 2011, 35, 3448-3452.	2.9	13
52	Improving the Quality of in vitro Cultured Shoots of Tomato (Lycopersicon esculentum Mill. cv. Red) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.5	13
53	Title is missing!. Biodiversity and Conservation, 2002, 11, 1469-1477.	1.2	12
54	Successful Seed Germination of the Nickel Hyperaccumulator Stackhousia tryonii. Annals of Botany, 2005, 96, 159-163.	1.4	12

#	Article	IF	Citations
55	Land disposal of municipal effluents: importance of choosing agroforestry systems. Desalination, 2006, 187, 361-374.	4.0	12
56	Can phytocapping technique reduce methane emission from municipal landfills?. International Journal of Environmental Technology and Management, 2009, 10, 4.	0.1	12
57	Comparative Performance of Micropropagated and Seed-Grown Tomato Plants. Biologia Plantarum, 2004, 48, 625-628.	1.9	11
58	Title is missing!. Plant and Soil, 1999, 215, 73-84.	1.8	10
59	Seed ecology and successional status of 27 tropical rainforest cabinet timber species from Queensland. Forest Ecology and Management, 2008, 256, 1031-1038.	1.4	10
60	Emission Characteristics of Polymer Additive Mixed Diesel-Sunflower Biodiesel Fuel. Energy Procedia, 2019, 156, 59-64.	1.8	10
61	Tolerance of Australian tropical and subtropical Acacias to acid soil. Plant and Soil, 1995, 171, 83-87.	1.8	9
62	Hydrophobicity of 43 potting media: Its implications for raising seedlings in revegetation programs. Journal of Hydrology, 2012, 430-431, 111-117.	2.3	9
63	Pasture composition in cleared and uncleared woodlands. Australian Journal of Botany, 2006, 54, 459.	0.3	9
64	Phytocapping: an alternative technique for landfill remediation. International Journal of Environment and Waste Management, 2010, 6, 51.	0.2	8
65	Optimization of biodiesel production process from papaya (Carica papaya) seed oil. , 2017, , .		8
66	Field performance of a phytocap at Lakes Creek landfill, Rockhampton, Australia. Management of Environmental Quality, 2010, 21, 237-252.	2.2	7
67	Biochar Improves Plant Growth and Reduces Nutrient Leaching in Red Clay Loam and Sandy Loam. Hydro Nepal: Journal of Water, Energy & Environment, 0, , 86-90.	0.1	7
68	Performance and emission characteristics of a compression ignition (CI) engine operated with beauty leaf biodiesel. Energy Procedia, 2019, 160, 641-647.	1.8	7
69	Application of Internet of Things (IoT) to Develop a Smart Watering System for Cairns Parklands â€“ A Case Study. , 2020, , .		7
70	Effects of biochar addition on plant available water of a loamy sandy soil and consequences on cowpea growth. Acta Horticulturae, 2016, , 357-364.	0.1	6
71	Quality Estimation of Agave Tequilana Leaf for Bioethanol Production. Journal of Near Infrared Spectroscopy, 2016, 24, 453-465.	0.8	6
72	Reviewing commercial prospects of bioethanol as a renewable source of future energyâ€”an Australian perspective. , 2019, , 441-458.		6

#	Article	IF	Citations
73	Transpiration in 15 Tree Species Grown on a Phytocapped Landfill Site. Hydrology Current Research, 2016, 7, .	0.4	6
74	Canopy Rainfall Intercepted by Nineteen Tree Species Grown on a Phytocapped Landfill. International Journal of Waste Resources, 2016, 06, .	0.2	5
75	Asexual propagation of Stackhousia tryonii: a step towards restoration of a rare metallophyte. Australian Journal of Botany, 2002, 50, 577.	0.3	4
76	Predicting the site water balance of a phytocapped landfill using HYDRUS 1D. International Journal of Environmental Technology and Management, 2011, 14, 269.	0.1	4
77	Comparison of oil refining and biodiesel production process between screw press and n-hexane techniques from beauty leaf feedstock. AIP Conference Proceedings, 2016, , .	0.3	4
78	Optimising Pyrolysis Conditions for Thermal Conversion of Beauty Leaf Tree (Calophyllum inophyllum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.4	4
79	Bioenergy and charcoal production: an alternative option for disposal of combustible municipal wastes. International Journal of Environment and Waste Management, 2010, 6, 71.	0.2	3
80	Investigation on the impact of papaya biodiesel-diesel blends on combustion of an agricultural CI engine. IOP Conference Series: Earth and Environmental Science, 2020, 463, 012001.	0.2	3
81	Editorial: The Potential of Fungi for Enhancing Crops and Forestry Systems. Frontiers in Microbiology, 2021, 12, 813051.	1.5	3
82	Variations in bark thickness and sapwood density of Calophyllum inophyllum provenances in Australia and in Sri Lanka. Journal of Forestry Research, 2011, 22, 399-402.	1.7	2
83	Environmental, Economic, and Social Impacts of Biofuel Production from Sugarcane in Australia. , 2019, , 267-284.		2
84	Combustion characteristics of an agricultural diesel engine fuelled with papaya and stone fruit biodiesel: A comparison. , 2019, , .		2
85	Beauty Leaf (Calophyllum inophyllum L.), tree: a tree with great economic potential. Proceedings of the International Forestry and Enviroment Symposium, 2012, 12, .	0.0	2
86	Reproductive phenology of Calophyllum inophyllum in Yeppoon, Australia and Meegoda Western Province, Sri Lanka. Journal of Forestry Research, 2011, 22, 615-619.	1.7	1
87	Calophyllum inophyllum: recalcitrant or intermediate seed?. Journal of Forestry Research, 2012, 23, 103-107.	1.7	1
88	Toxicity of Environmental Contaminants. BioMed Research International, 2015, 2015, 1-1.	0.9	1
89	Phytocapping of Landfills. , 2018, , 677-688.		1
90	Experimental Investigations to Demonstrate Biodiesel Potential of Beauty Leaf Tree (Calophyllum) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.3	1

#	Article	IF	Citations
91	A comparative study of engine performance and emission characteristics of biodiesels produced from the waste seeds of papaya and stone fruit. , 2019, , .		1
92	Ranking the Feedstocks Using Neural Network-Based System for Biofuel Production. , 2021, , .		1
93	Maximizing Energy Recovery from Beauty Leaf Tree (Calophyllum inophyllum L.) Oil Seed Press Cake via Pyrolysis. Energies, 2021, 14, 2625.	1.6	1
94	Novel Microsatellite Markers for Conservation of Australian Native <i>Samadera bidwillii</i>. Open Journal of Ecology, 2018, 08, 75-85.	0.4	1
95	Foliar Heavy Metal Concentrations of 19 Tree Species Grown on a Phytocapped Landfill Site. International Journal of Plant & Soil Science, 2015, 4, 100-113.	0.2	1
96	Policy interventions needed to manage bacterial build-up in municipal effluent irrigated agroforestry plantations. International Journal of Environmental Technology and Management, 2010, 13, 253.	0.1	0
97	Ternary or binary blend? A case study using papaya seed oil biodiesel. AIP Conference Proceedings, 2021, , .	0.3	0
98	Enteric bacteria build-up in effluent irrigated plantations. Microbiology Australia, 2009, 30, 40.	0.1	0
99	Seed biology of tropical Australian plants.. , 0, , 416-427.		0