

CURRICULUM VITAE

Dr. P. Saravanane



DOB: 10.09.1975

Professor (Agronomy) &
Principal Investigator-AICRP (Weeds)
Department of Agronomy

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1. Academic Proficiency

Degree/PDF	Year	University
B.Sc. (Agriculture)	1993-1998	Tamil Nadu Agricultural University, Coimbatore
M.Sc.(Agronomy)	1999-2000	Tamil Nadu Agricultural University, Coimbatore
Ph.D (Agronomy) (Specialization in weed science)	2001-2004	University of Agricultural Sciences, Bangalore
Post- Doctoral Fellowship	April.2018- Oct .2018	University of Queensland, Brisbane, Australia

2. Professional Experience

Experience	University/ College	Period	Responsibilities	City
Assistant Professor	Adhiparasakthi Agrl. College	2004-2006	Teaching	TN, India
Assistant Professor	PAJANCOA&RI (Govt. of Puducherry)	17 Aug 2006- 16 Aug 2018	Teaching, Research & Extension	Karaikal, Puducherry UT
Associate Professor	„	17 Aug 2018- 16 Aug 2021	„	„
Professor	„	17 Aug 2021- Till date	„	„

3. Awards & Recognitions

Year	Awards/recognition received	City/ Country
2000	Coromandel Indag Products Pvt. Limited Award for best thesis in herbicide science in Agronomy.	TNAU, India

	Hexamer Agricultural Research foundation Award for best thesis in chemical weed control in Agronomy	TNAU, India
2007	Young scientist Award from Asian Pacific Weed Science Society. Travel award- Dept. of Science &Technology (DSTE), Puducherry to participate in the Asian Pacific weed science society conference at Colombo, Sri Lanka	Colombo, SriLanka Puducherry, India
2010	Travel grant- CSIR, New Delhi - To attend the First International Parthenium conference held at Nairobi, Kenya. Travel grant- International Organization for Biological Control (IOBC)- To attend the First International Parthenium conference held at Nairobi, Kenya.	Nairobi, Kenya
2011	Young and deserving scientist Award from Asian Pacific Weed Science Society Travel grant- DSTE, Puducherry travel grants to participate in the Asian Pacific weed science society conference at Cairns,Australia.	Cairns,Australia
2017	Travel grant- European Weed Research Society (EWRS) to participate in the European weed research conference.	Chios, Greece
2018	Fellow- Endeavour Post-Doctoral fellowship at University of Queensland, Brisbane, Australia	Department of Education & Training, Australia
2018	Endeavour “Fully Focussed” video competition winner award	Department of Education & Training, Australia
2018	Travel grant- Department of Education& Training, Australia & The Weed Society of New South Wales to participate in the 21st Australasian Weed Conference at Sydney, Australia.	Sydney, Australia
2019	Best Poster award	PAJANCOA&RI, Karaikal
2022	Associate Fellow award- Society for nature and applied sciences	Puducherry, India
2022	Fellow- Indian Society of Weed Science (ISWS)	Anand, Gujarat
2022	Best Teacher Award (Agronomy)- Society for nature and applied sciences	Salem, TN
2023	Travel grant- Department of Science &Technology (ITS) to present research paper in International Rice Congress (IRC), Manilla, Phillipines.	Manilla, Phillipines

4. Foreign countries visited for academic work

Sl.No	Country visited	Year of visit	Purpose
1	Colombo, Sri Lanka	2007	Asian Pacific weed science society conference
2	Nairobi, Kenya	2010	International Parthenium conference
3	Cairns, Australia	2011	Asian Pacific weed science society conference
4	Chios, Greece	2017	European weed research conference.
5	Brisbane, Australia	2018	Endeavour Post-Doctoral fellowship, 21 st Australasian Weed Conference
6	Manilla, Philipines	2023	International Rice Congress

5. Publications from journals:

a) List of articles in NAAS rated journals

SL. No.	Title	Year of Publication	NAAS Score
1	Kowsalya BV, R Poonguzhalan, P Saravanane and S Nadaradjan. 2023. Effect of nitrogen levels and liquid nano urea application on growth and yield of rice (<i>Oryza sativa</i> L.). <i>Oryza</i> 60 (4): 547-552.	2023	5.03
2	S Vijayakumar, Sanjay Saha , P Saravanane , E Subramanian , R Mahender Kumar and R Meenakshi Sundaram. 2023. Barnyardgrass (<i>Echinochloa crus-galli</i>) seed production and shattering in response to its emergence time and transplanted rice geometry. <i>Indian Journal of Weed Science</i> , 55(2): 162–168.	2023	5.84
3	Saravanane, P. , Bajwa, A. A., Djanaguiraman, M., & Adkins, S. W. 2023. Biological Response of Invasive Parthenium Weed to Elevated Concentration of Atmospheric Carbon Dioxide and Soil Salinity. <i>Sustainability</i> , 15(2), 1025.	2023	9.98
4	Keerthi DE, Saravanane P , Poonguzhalan R, Nadaradjan, S. Muthukumarasamy and Vijayakumar S.2022. Effect of brown manuring practices on yield, nutrient dynamics and soil- microflorain wet seeded rice in the coastal deltaic ecosystem. <i>Oryza</i> 59(4): 519-524.	2022	5.03
5	MK Barati, Manivasagam VS, Nikoo MR, Saravanane P , Narayanan AL and Sudeesh M. Rainfall variability and rice sustainability: An evaluation study of two distinct rice-growing ecosystems. <i>Land</i> , 11,1242. https://doi.org/10.3390/land11081242	2022	9.91
6	K. Pooja and Saravanane P . Performance of rice cultivars with weed management practices in dry direct-seeded rice. <i>Indian Journal of Weed Science</i> 53(1): 92-94.	2021	5.84
7	M. Pavithra, R. Poonguzhalan, AL. Narayanan and Saravanane P . Weed management in aerobic rice with sequential application of pendimethalin and bispyribac-sodium under coastal deltaic eco-system. <i>Indian Journal of Weed Science</i> 53(1): 85-87.	2021	5.84

8	S. Vijayakumar, Dinesh Kumar, K. Ramesh, G. Prabu, D. Jinger, P. Saravanane , E. Subramanian, E. Joshi, VK Sharma and KR Sudhir. Potassium nutrition in rice- A review. Oryza 58 (2): 341-353.	2021	5.03
9	K Pooja , P Saravanane, S. Nadaradjan, S .Sundaravaradhan, S. Muthukumaraswamy and S Vijayakumar. Effect of cultivars and different weed management practices on yield, nutrient uptake and soil micro-flora of direct-seeded rice under coastal deltaic ecosystem. Oryza 58 (1): 21-25.	2021	5.03
10	P. Saravanane , M. Djanaguiraman, T. Ramanadane, K. Raja and S. Nadaradjan.. Effect of biosynthesized ZnO nanoparticles on seed germination and seedling vigour index of sesame (<i>Sesamum indicum</i> L.). J. Oilseeds Research. , 38 (3): 275-279.	2021	4.59
11	Saravanane P , R. Poonguzhalan, S. Vijayakumar and K. Pooja. Crop-weed competition in blackgram in coastal deltaic eco-system. Indian Journal of Weed Science 52 (3): 283-285.	2020	5.84
12	Saravanane P . 2020. Effect of different weed management options on weed flora, rice grain yield and economics in dry direct-sown rice. Indian Journal of Weed Science 52 (2): 102-106.	2020	5.84
13	V. Rajendra Prasath, V. Chellamuthu and P. Saravanane . 2020. Economics and energetic of direct seeded rice under different levels of tillage, seed rate and weed management. Plant Archives 20 (2): 3809-3817	2020	4.73
14	S. Vijayakumar, Dinesh Kumar, Y.S. Shivay, Anjali Anand, P. Saravanane , Poornima S, Dinesh Jinger and Nain Singh. Effect of potassium fertilization on growth indices, yield attributes and economics of dry direct seeded basmati rice (<i>Oryza sativa</i> L). Oryza 56 (2): 214-220	2019	5.03
15	S. Vijayakumar, Dinesh Kumar, Sharma VK, Y.S. Shivay, Anjali Anand, P. Saravanane and Nain Singh. 2019. Potassium fertilization for enhancing yield attributes, yield and economics of wheat (<i>Triticum aestivum</i>). Indian Journal of Agronomy 64 (2): 226-231	2019	5.55
16	S. Vijayakumar, Dinesh Kumar, Sharma VK, Y.S. Shivay, Anjali Anand, P. Saravanane , Poornima S, Dinesh Jinger and Nain Singh. Potassium fertilization to augment growth, yield attributes and yield of dry direct seeded basmati rice (<i>Oryza sativa</i>) Indian Journal of Agricultural Sciences 89 (11): 1916-20	2019	6.37
17	S. Vijayakumar, Dinesh Kumar, Y.S. Shivay, Sharma, VK, Sharma, DK, P. Saravanane , Poornima S and Nain Singh. Energy budgeting of aerobic rice (<i>Oriza sativa</i>)-wheat (<i>Triticum aestivum</i>) cropping system as influenced by potassium fertilization. Indian Journal of Agricultural Sciences 89 (11): 1911-15	2019	6.37

18	Manju P, Saravanane P , Kumar K and Gopal V. Evaluation of botanicals for pesticidal activity against tobacco caterpillar, <i>Spodoptera litura</i> (F.). J. Oilseeds Research. , 36(1): 51-55	2019	4.59
19	Saravanane P. , and Chellamuthu V. Seeding method and weed competition effect on growth and yield of direct seeded rice under puddled condition. Indian Journal of Weed Science 48 (3): 323-324	2016	5.84
20	Saravanane P , Mala S, Chellamuthu V. Integrated weed management in aerobic rice. Indian Journal of Weed Science 48:152-154	2016	5.84
21	Balathandayutham, K., Kottiswaran, S.V. and Saravanane,P . Rainfall characteristics of Krishnagiri district, Tamilnadu, India. International Journal of Bio-resource and Stress Management 7(6 spl.): 552-560	2016	5.11
22	Saravanane, P. and Chellamuthu V.2015. Economic analysis of weed management practices for transplanted rice in coastal ecosystem of Puducherry UT. Madras Agricultural Journal 102: 135-136	2015	4.52
23	Akula S, Chellamuhtu V, Saravanane P , Sridevi P. Split application of nitrogen and potassium along with azophos on yield of cotton in the coastal region of Karaikal, Puducherry UT. Crop Research 49:42-44	2015	4.41
24	Chellamuthu,V, Saravanane,P and Paradis,SG. Evaluation of Bajra-Napier cultivars under coastal ecosystem of Karaikal,Puducherry UT. Madras Agric. J. , 98 (7-9):253-254	2011	4.52
25	Saravanane,P. , Nanjappa,H.V..and B.K. Ramachandrappa . Effect of residual fertility of preceeding potato crop on yield and nutrient uptake of finger millet. Karnataka J. Agric. Sci. , 24 (2): 234-236.	2011	4.58
26	Saravanane,P. , Nanjappa,H.V. and B.K. Ramachandrappa. 2008. Effect of weed utilization on growth parameters, yield and nutrient uptake of potato. Potato J. ,35(3-4): 122-125	2008	4.94
27	Saravanane,P. Studies on the chemical and non-chemical methods of weed management in tomato, Green Farming ,1(6): 20-22	2008	3.85
28	Saravanane,P. , Nanjappa,H.V.and B.K. Ramachandrappa. Effect of weed utilization as nutrient source on soil fertility and tuber yield of potato. Mysore J. Agric. Sci. ,42(3): 464-467	2008	4.64
29	A.P. Sivamurugan, Y.R. Rekha., P. Jagathambal and P.Saravanane. Influence of organic wastes and artificial feeding on growth and yield of fish. International Journal of Agricultural Sciences , 4(2):624- 627	2008	4.73
30	A.P. Sivamurugan, Y.R. Rekha., P. Jagathambal and P.Saravanane. Influence of organic and inorganic of nutrients on yield in cropping systems. International Journal of Agricultural Sciences , 4(2):572-575	2008	4.73

31	A.P. Sivamurugan, P.Saravanane , P. Jagathambal, and Y.R. Rekha. Integrated farming system systems research for sustaining productivity in irrigated uplands. International Journal of Agricultural Sciences , 4(2):506-509	2008	4.73
32	Nanjappa,H.V., Saravanane,P. and B.K. Ramachandrappa. Biology and management of lantana camara (L)- A Review, Agricultural Reviews , 26 (4): 272-280	2005	4.63
33	Saravanane,P. and Kandasamy, O.S. Studies on the weed management in tomato under coimbatore condition, Pestology , 25 (5): 35- 37.	2001	2.33

6. Publications from non- refereed journals

S Vijayakumar, P Saravanane and Rubina Khanam. 2023. <i>Parthenium hysterophorus</i> and its Management in Crop and Non-crop Environment. Chronicle of Bioresource Management 2023, 7(3):053-060.
Karthickraja, A. and Saravanane.P. 2023. Smart weed management systems to revolutionize agriculture. Kerala Karshakan e-journal 11(2). 10-14.
Karthickraja, A. and Saravanane, P. (2023). Revolutionizing Weed Management with Drone-based precision farming. <i>Kisan world</i> , 50(5), 44–46.
Karthickraja and Saravanane. 2023. Integrated management of a dreaded complete root parasite. <i>Kisan world</i> . <i>Kisan world</i> , 50(2), 24-26.
Kanagasuppurathinam, Coumaravel , Bagavathi Ammal , P. Saravanane. 2022. Production and characterization of biochar from different sources of biomass. <i>International Journal of Environmental Science</i> .7:232-239.
Saravanane P , M. Pavithra and Vijayakumar. S. 2021. Weed management in direct-seeded rice. Indian Farming ,71(04):61-64.
S. Vijayakumar, P. Saravanane , E.Subramanian and Prabhu Govindasamy. 2021. Agricultural waste to wealth: Way to sustainable agriculture development. Indian Farming ,71(05):34-36.
S. Vijayakumar, E.Subramanian, P. Saravanane , R. Gopinath and Sanjoy Saha. 2021. Farm mechanization in rice cultivation: Present status, bottlenecks and potential. Indian Farming , 71(04):04-07
S. Nadaradjan and P. Saravanane. 2020. Rice bran oil. A safe lubricant for human engine. 2021. Kisan world 48 (08). 33-34.
K.Pooja and P. Saravanane. 2019. Integrated plant nutrient management for better crop production. Kisan world 46 (10). 25-26
Saravanane P , Poonguzhalan R, Chellamuthu V. 2012. <i>Parthenium (Parthenium hysterophorus L.)</i> distribution and its bioresource potential for rice production in Puducherry, India. Pakistan Journal of Weed Science Research 18:551-555.
Saravanane,P. and Kandasamy, O.S.2002. Effect of chemical and non- chemical methods of weed

management on nutrient uptake by tomato crop and associated weeds, **South Indian Hort.**, 50 (4-6): 527- 532

Saravanane,P. and Kandasamy, O.S. 2002. Growth analysis and fruit quality studies in tomato under different weed management methods, **South Indian Hort.**, 50 (4-6): 342- 348

7. Details of research projects handled as P.I/ Co-P.I

- i. Chemical and non-chemical methods of weed management in tomato. (1999-2000) **M.Sc Thesis**
- ii. Utilization of selected invaded weeds as nutrient source and their effect on potato - finger millet cropping system (2001-2004) **Ph.D Thesis**
- iii. Utilizing the problematic weeds (*Parthenium hysterophorus* and *Eichornia crassipes*) for enhancing the production potential of rice in the U.T. of Puducherry (External funded project from DSTE, Puducherry 2008-09) -Co-PI
- iv. Relative performance of CN hybrids in the coastal region of Karaikal. (2009-10) Co-PI
- v. Yield Maximization in Bajra-Napier hybrid grass by optimizing plant population.(2010-11) Co-PI
- vi. Integrated weed management in aerobic rice (2011-12)
- vii. Effect of sowing time on *sesbania aculeata* seed production (2012)
- viii. Evaluation of herbicide mixtures in transplanted rice under coastal ecosystem of Karaikal.(Directorate of weed research co-ordinated trial from 2013, ICAR, India)
- ix. Evaluation of herbicide mixtures in direct seeded rice under coastal ecosystem of Karaikal.(Directorate of weed research co-ordinated trial from 2015 onwards ICAR, India)
- x. Estimation of yield losses in direct seeded rice in puddled irrigated condition (2015) Co-PI
- xi. Effect of allelopathic plant products on growth of *Parthenium hysterophorus* (2015)
- xii. Preliminary evaluation of herbigation in direct seeded rice. (Directorate of weed research funded trial from 2016, ICAR, India)
- xiii. Green synthesis of nanoparticles from medicinal weed and its utilization in agriculture. (External funded project from DSTE,Puducherry 2016-17)
- xiv. Herbicide combinations for control of complex weed flora in transplanted rice.(2017-18)
- xv. Herbicides combinations for control of complex weed flora in direct- seeded rice (semi dry system) (2017-18)
- xvi. Weed survey of *Parthenium hysterophorus* in Karaikal (2018)
- xvii. Preliminary investigation to study the allelopathic potential of *Sida acuta* on seed germination and seedling length of *Parthenium hysterophorus* (2019)
- xviii. Evaluation of non-chemical weed management methods in Finger millet (2019-20)
- xix. Evaluation of weed management methods in Finger millet (2020-2021)
- xx. Influence of seed rate and weed management methods in DDSR (2020-2021)
- xxi. Competition effect of *Cassia torra* on parthenium (2021-2022)
- xxii. Intercropping in Cotton for weed management (2021-2022)
- xxiii. Bio efficacy and Phytotoxicity evaluation of coded herbicides against major weeds in Maize and Sugarcane (2022-23)
- xxiv. Bio-efficacy evaluation of bio-stimulants in chilli (2023)

8. Conference / Seminar/ Symposium papers

- **Saravanane,P.**, H.V. Nanjappa and B.K. Ramachandrappa. 2007. Allelopathic potential of invaded weeds on diverse weed spectrum of potato .In.:Proc. of 21st Asian pacific weed Science Society : 437-441
- P. Saravanane, H.V. Nanjappa and B.K. Ramachandrappa. 2007. Exploration of Efficient Technology for Maximizing the Production Potential of Potato (*Solanum tuberosum*) using Invaded Weeds.In: Proceedings of 21st Century challenges to sustainable Agri-Food systems : Biotechnology, Environment, Nutrition, Trade and Policy, 2007: 324-327

- **Saravanane,P.** and H.V. Nanjappa. 2008. Residual Effect of Rabi Potato on Growth and Yield of Succeeding Finger millet in Eastern dry zone of Karnataka In: Abstracts of National symposium on “Integrated Approaches for Productivity Enhancement in Agriculture (IAPEA)”, held at Department of Agronomy, Faculty of Agriculture, Annamalai University, Chidambaram on 13th and 14th March, 2008,p.42
- **Saravanane, P.**, S. Sundaravarathan and Nanjappa, H.V.. 2008. Recycling the eco-problematic weeds as source of plant nutrients in Agriculture. In: Proceedings of National symposium on “Impending approaches to environmental menace, (IMEAM)”, held at T.B.M.L College, Porayar on 25th and 26th September.
- **Saravanane, P.**, and Nanjappa, H.V., 2009, Study of weed utilization as nutrient source on yield and soil health of potato- finger millet cropping system. In: Proceedings of the national seminar on Recent advances in soil health and crop management for sustainable agriculture, February 26-27,Annamalai University, Chidambaram, Tamilnadu,309-313
- Sowrirajan,A, Sowmya,P.K., **Saravanane, P.** and Subramanian,E. 2009. Post harvest losses in Finger millet(*Eleusine coracana* L.). In: Abstracts of the national seminar on” A road map to emerging trends in food processing and marketing’, September 17-18, PAJANCOA & RI, Karaikal,pp. 134
- Sowmya,P.K., Sowrirajan,A., **Saravanane, P.** and Saravanan.S., 2009. Post harvest losses in Sesame(*Sesamum indicum* L.). In: Abstracts of the national seminar on” A road map to emerging trends in food processing and marketing’, September 17-18, PAJANCOA & RI, Karaikal,pp. 135
- **Saravanane, P.** and Kandasamy,O.S., 2009, Effect of chemical and non chemical weed management practices on weed spectrum, yield of tomato and its residual effect on succeeding crops. In: Abstracts of the national symposium on Weed threat to environment, biodiversity and agriculture productivity, Tamil Nadu Agricultural University , Coimbatore,Tamilnadu , August 2-3 , pp. 137
- Chellamuthu,V., **Saravanane,P.** and S. George Paradis. 2010. Yield maximization in Bajra-Napier hybrid grass by optimizing plant population in coastal region of Karaikal.In:Proceedings of XIX National symposium on “Resource management Approaches towards livelihood security” 2-4 December,UAS-GKVK, Bengaluru,Karnataka. P 352
- **Saravanane, P.**, Nanjappa, H.V and B.K. Ramachandrappa. 2010. Invasive weed management in potato based cropping system of south India. In.: Proceedings of 1st IOBC International workshop on biological control and management of *Parthenium hysterophorus*, 01-05 November, Nairobi, Kenya:p. 17
- Chellamuthu,V., **Saravanane,P.** and S. George Paradis. 2010. Yield maximization in Bajra-Napier hybrid grass by optimizing plant population in coastal region of Karaikal.In:Proceedings of XIX National symposium on “Resource management Approaches towards livelihood security” 2-4 December,UAS-GKVK, Bengaluru,Karnataka. P 352
- **Saravanane, P.**, Nanjappa ,H.V., and Ramachandrappa .B.K. 2013.Utilization of selected plant species in potato and finger millet cropping system of Southern India. In: Proceedings of eighth international workshop on biological control and management of *Chromolaena odorata* and other Eupatorieae. Nairobi, Kenya, 1-2, November, 2013. Eds. Zachariades C, Strathie LW,Day MD, Muniappan R., ARC-Pretoria. 77-83.
- R.POONGUZHALLAN, **P. SARAVANANE** and V. CHELLAMUTHU. 2012.Ecological distribution of water hyacinth and parthenium in the union territory of Puducherry.In Proc.; Extended summaries vol. 3: 3rd International Agronomy Congress, -30 November, 2012, IARI,New Delhi. P. 194-195

- V. CHELLAMUTHU, **P. SARAVANANE**, and George Paradis. 2012. Agronomic investigations to improve the productivity of Bajra-Napier hybrid grass in coastal region. In Proc.; Extended summaries vol. 3: 3rd International Agronomy Congress, 26-30 November, 2012, IARI, New Delhi. P. 1350-1151.
- **P. SARAVANANE**, R. POONGUZHALLAN and V. CHELLAMUTHU. 2012. Effect of Parthenium and water hyacinth used as bioresource for improving the rice productivity in Pudukkottai, India. In Proc.; Extended summaries vol. 3: 3rd International Agronomy Congress, 26-30 November, 2012, IARI, New Delhi. P. 1372-1373.
- . Susheela, Nithya, S, Nivedita C, Paruvathavathani, M, Chellamuthu, V, **Saravanane, P** and Ramanadane, T. 2013. Optimizing the spacing for seed production of two green manure crops viz., Daincha (*Sesbania aculeata*) and Manila Agathi (*Sesbania rostrata*). In. International conference on Conventional and non-conventional organic inputs in Agriculture, August 1 & 17, Puducherry. 213-216.
- **Saravanane, P.** and V. Chellamuthu. 2014. Management of diverse spectrum of weeds in aerobic rice of Puducherry. In: Biennial conference of Indian Society of Weed Science on "Emerging challenges in weed Management" at Directorate of Weed Science Research (DWSR), Jabalpur, 15-17 February, 2014: 77
- **Saravanane, P.** S. Mala and V. Chellamuthu. 2014. Integrated weed management in aerobic rice. In: Biennial conference of Indian Society of Weed Science on "Emerging challenges in weed Management" at Directorate of Weed Science Research (DWSR), Jabalpur, 15-17 February, 2014: 163
- **P. Saravanane** and V. Chellamuthu. 2015. Weed management in transplanted rice under deltaic coastal ecosystem. 25th APWSS, PJTSAU, Hyderabad. p.79.
- **Saravanane, P.** Poonguzhalan, R Ramanadane, T 2015. Allelopathic potential of botanicals against Parthenium. 25th APWSS, Hyderabad
- **Saravanane P.**, and Chellamuthu V. 2016. Effect of weed competition and establishment methods in direct-seeded rice. Extended summaries of 4th International agronomy congress, Nov 22-26, IARI, New Delhi 3: 267-268
- Saravanane, P., Poonguzhalan, R., and Chellamuthu, V. 2017. Biology and management of parthenium (*Parthenium hysterophorus* L.) in India. 5th International Symposium on Weeds & invasive plants, 10-14 October, 2017, Chios, Greece, Proceedings edited by Uludag A, Economu G, Bohren C, Torresen K and Jabran K. p. 60.
- **P. Saravanane.** 2018. Interventional weed management methods in direct seeded rice. 21st Australasian Weeds Conference, The Weed Society of New South Wales Inc. Australia, 9-13 Sep 2018, Sydney, Australia. p.79.
- **P. Saravanane**, R. Poonguzhalan, V. Sridevi and Santosh Kumar Meena 2018. Integrated weed management strategies in direct-seeded semi-dry rice. Golden Jubilee International Conference on "Weeds and Society: Challenges and Opportunities", ICAR-Directorate of Weed Research, Jabalpur, India during 21-24 November 2018. 217
- Saravanane P, **K. Pooja** and S. Vijayakumar. 2020. Weed management practices for different cultivars in dry direct-seeded rice. **1st Indian Rice Congress – 2020** on "Rice research and development for achieving sustainable development goals, ICAR-NRRI, Cuttack, India during 08-09 October 2020. 536-537
- Pooja, K and **P. Saravanane.** 2019. Food security and climate change: **Emerging challenges and mitigation strategies.** In: **National conference on "Ascertaining food security thro' livelihood enrichment interventions: challenges and Opportunities"**, PAJANCOA & RI, Karaikal, 04-05 September. 19

- Karthickraja, S. Kanth, H. Bindu, B. Dhivya, B., Dhamayandhy, A., **P.Saravanane**, & R.Mohan,. 2022. Phyto-sociological studies of weeds under rice fallow cotton in coastal deltaic ecosystem. In P. Arivazhagi, P. Savitha, T. sivakumar, T. Prabha, P. Silambarasan, R. Meenatchi, & M. Radha (Eds.), First National Conference on Emerging Trends and New Vistas in Applied Sciences - 2022 (pp. 50–54). Society for Nature and Applied Sciences.
- **P. Saravanane**, A.A. Bajwa, M. Djanaguiraman and Steve Adkins. 2022. Does change in carbondioxide level influence salinity tolerance to parthenium? In: Proceedings of 3rd International Weed Conference on “Weed Problems and management challenges: Future perspectives”. (Eds. Rao AN, Dubey RP, Sondhia Shobha and Yadav Ashok), Anand Agricultural University, Anand, Gujarat, India.137.
- **P. Saravanane**, A. Karthickraja, S. Nadaradjan and R. Mohan. 2023. Sustainable and eco-friendly weed management options for transplanted finger millet. In: Proceedings of International seminar abstracts on “Sensitizing the millet farming, consumption and nutritional security-Challenges and opportunities”. (Eds. A. Pouchepparadjou, V. Krishnan, N. Swaminathan, R. Sendhil, L. Umamaheswari, T. Sivasakthidevi, S. Parthasarathi, V. Vengadessan and M. Umamageswari), Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal, Puducherry UT, India. 05

9.Training booklets

Saravanane, P, R.Poonguzhalan, S. Nataradjan and V. Chellamuthu. 2014. Weed management strategies in Rice (Tamil). p.1-20.

Saravanane, P, R.Poonguzhalan, S. Nataradjan and T. Ramanadane 2021. Weed management strategies in Rice (Tamil). p.1-24.

Saravanane, P, R.Poonguzhalan, and AL. Narayanan 2021. Weed management technologies in agricultural crops (Tamil). p.1-40.

10. Leaflet

V. CHELLAMUTHU and **P. Saravanane**. 2013. Leaflet on “**Improved forage cultivation techniques** (Tamil)”. Proceedings of NABARD sponsored training programme for farmers.

11.Books chapter (ISBN)

P. Saravanane, H.V. Nanjappa and B.K. Ramachandrappa. 2007. Exploration of Efficient Technology for Maximizing the Production Potential of Potato (*Solanum tuberosum*) using Invaded Weeds.In: Proceedings of 21st Century challenges to sustainable Agri-Food systems : Biotechnology, Environment, Nutrition, Trade and Policy, 2007: 324-327.

Saravanane, P., Nanjappa, H.V and B.K. Ramachandrappa. 2010. Invasive weed management in potato based cropping system of south India. In.: Proceedings of 1st IOBC International workshop on biological control and management of *Parthenium hysterophorus*, 01-05 November, Nairobi, Kenya:p. 17

P. Saravanane. 2016. Nanotechnology in agriculture. In: Agriculture exam’s made easy. Ed. G.

*Pallavi, N. Shashidhara, N. Ashoka, D.T. Santhosh, M.S. Anantha, R. M. Shet, S.L. Krishnamurthy, D. Umamaheswari and S. Nadaradjan.*New Delhi Publishers, New Delhi. **526-532**

Vijayakumar S, Suchismita Pattanaik and **Saravanane P.** Low Carbon technologies for agriculture. Sabujima 2021. Volume 29. Page-94-100. Publisher- Plant Lovers Association. ISSN 0972-8562

A. Karthickraja, SA. Sanjay Kanth, J. Hima Bindu, B. Dhivya, A. Dhamayandhy, **P. Saravanane** and R. Mohan. 2022. Phyto-sociological studies of weeds under rice fallow cotton in coastal deltaic ecosystem. In: Proceedings of First National conference on “Emerging trends and new Vistas in Applied Sciences- 2022”. (Eds. P. Arivazhagi, P. Savitha, T. Sivakumar, T. Prabha, P. Silambarasan, R. Meenatchi and M. Radha), Nandha college of Pharmacy, Erode, Tamilnadu, India. 50

S. Vijayakumar, Dibyendu Chatterjee, E. Subramanian, Kulasekaran Ramesh, and **P. Saravanane.** 2023. Efficient Management of Energy in Agriculture. A. Rakshit et al. (eds.), Handbook of Energy Management in Agriculture. Springer Nature Singapore Pte Ltd. https://doi.org/10.1007/978-981-19-7736-7_18-1


P. Saravanane, A. Karthickraja, S. Nadaradjan and R. Mohan. 2023. Sustainable and eco-friendly weed management options for transplanted finger millet. In: Proceedings of International seminar on “Sensitizing the millet farming, consumption and nutritional security-Challenges and opportunities”. (Eds. A. Pouchepparadjou, V. Krishnan, N. Swaminathan, R. Sendhil, L. Umamaheswari, T. Sivasakthidevi, S. Parthasarathi, V. Vengadessan and M. Umamageswari), Pandit Jawaharlal Nehru College of Agriculture and Research Institute, Karaikal, Puducherry UT, India. 183-186.

12.Books with ISBN number

1. Babou, C., Guna., B and **Saravanane,P.** 2010. Irrigation and Weed Management. A.E. Publications, Coimbatore (ISBN 978-93-80460-10-9). Pp 1-195.

13. Research projects from private companies (Ongoing):

- **Bio-efficacy and phytotoxicity evaluation of coded herbicides against major weeds in sugarcane and maize (external funded)** Funding Agency: M/s. AGROW ALLIED Ventures (P) Ltd., Gurgaon
- **Bio-efficacy and phytotoxicity evaluation of bio-stimulants on chilli.** Funding Agency: M/s. Janatha Agro Products, Karnataka



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