

RESUME

Dr.P. SENTHAMARAIKANNAN

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OBJECTIVE

To perform consistently and excel in the aspects of learning and teaching, adapt dynamically to progressive and proactive activities, and constantly enhance my skills in the emerging technologies related to the field of engineering.

EDUCATION

Qualification	Name of the University/ Institution	Year of passing	Specialization	Percentage of marks
PhD	Anna University, Chennai.	July 2023	Natural fibre-reinforced composites	-
M.E	Anna University/ P.T.R college of engineering and Technology, Madurai	June 2015	Engineering Design	80.5 %
B. E	Anna University/ Pandian Saraswathi Yadav Engineering College, Sivaganga	May 2013	Mechanical Engineering	77.1%
H.Sc	State Board of Tamilnadu/ Government Higher secondary school, M.Kalluppatti	2009	PCM	74.41%
SSLC	State Board of Tamilnadu/ Government Higher secondary school, M.Kalluppatti	2007	Maths, Science	69.2%

TEACHING EXPERIENCE

Name of the Institution	Position	Duration	Years of Experience
Kamaraj college of engineering and Technology	Asst. Professor	Jaune 2015 to Dec 2023	8.5 Years
KSR Institute for Engineering and Technology	Asst. Professor	December 2023 to till date	6 months

RESPONSIBILITIES

INSTITUTIONAL LEVEL

- Research Forum Member

DEPARTMENT LEVEL

- NBA criteria-V in charge
- NAAC Criteria III in charge
- Mentor mentee system in charge
- Department research file in charge

AREA OF INTEREST

1. Engineering metallurgy
2. Strength of materials
3. Lean manufacturing
4. Composite materials

MEMBERSHIP

1. Technical association of the pulp and paper industry (TAPPI)
2. Indian Society for Technical Education (ISTE)

AWARDS/Achievement

- Listed Top 2% scientist worldwide – Report released by Elsevier PV in the years of 2020, 2021 and 2022
- Award from Kamaraj college of engineering for more no publications in 2020.
- Received recognized reviewer certificate from various Elsevier journals like Carbohydrate Research, Composites Part B: Engineering, Composite Structures, etc.,

PUBLICATIONS

S.NO	Journal article/ Book chapter	Count
1	SCI-Indexed journal article	51
2	Scopus-indexed journal article	03
3	Scopus-indexed Book chapters	08
	Total	62

SCI-Indexed journal article

1. **Senthamarai kanna n, P.**, and S. S. Saravanakumar. 2022. "Utilization of Mucuna Atropurpurea Stem Fiber as a Reinforcement in Fiber Reinforced Plastics." Polymer Composites 43 (8): 4959–78. <https://doi.org/10.1002/pc.26763> . **IF: 3.171**
2. **Senthamarai kanna n, P.**, and S. S. Saravanakumar. 2022. "Effect of Cocos Nucifera Shell Powder on Mechanical and Thermal Properties of Mucuna Atropurpurea Stem Fibre-Reinforced Polyester Composites." Biomass Conversion and Biorefinery, no. 0123456789 (December). <https://doi.org/10.1007/s13399-022-03621-8> . **IF: 4.0**
3. **Senthamarai kanna n, P.**, and S. S. Saravanakumar 2023. "Evaluation of Characteristic Features of Untreated and Alkali-Treated Cellulosic Plant Fibers from Mucuna Atropurpurea for Polymer Composite Reinforcement." Biomass Conversion and Biorefinery, no. 0123456789 (January). <https://doi.org/10.1007/s13399-022-03736-y> . **IF: 4.0**
4. Balavairavan, B, S S Saravanakumar, **P Senthamarai kanna n**, S Indran, and S Siengchin. 2023. "Evaluation of Physiochemical, Mechanical, Thermal, UV Barrier, and Biodegradation Properties of PVA/Corn (Zea Mays) Cob Powder Biofilms." Biomass Conversion and Biorefinery. <https://doi.org/10.1007/s13399-023-04404-5> **IF: 4.0**
5. **Senthamarai kanna n, P.**, M.R. R. Sanjay, K.S. Subrahmanya Bhat, N.H. H. Padmaraj, and Mohammad Jawaid. 2018. "Characterization of Natural Cellulosic Fiber from Bark of Albizia Amara." Journal of Natural Fibers 16 (8): 1124–31. <https://doi.org/10.1080/15440478.2018.1453432> . **IF: 3.507**
6. **Senthamarai kanna n, P.**, S.S. S. Saravanakumar, M.R. R. Sanjay, Mohammad Jawaid, and Suchart Siengchin. 2019. "Physico-Chemical and Thermal Properties of Untreated and Treated Acacia Planifrons Bark Fibers for Composite Reinforcement." Materials Letters 240: 221–24. <https://doi.org/10.1016/j.matlet.2019.01.024> . **IF: 3.574**
7. **Senthamarai kanna n, P.**, S.S. S. Saravanakumar, V.P. P. Arthanarieswaran, and P. Sugumaran. 2016. "Physico-Chemical Properties of New Cellulosic Fibers from the Bark of Acacia Planifrons." International Journal of Polymer Analysis and Characterization 21 (3): 207–13. <https://doi.org/10.1080/1023666X.2016.1133138> . **IF: 2.583**

8. **Senthamarai kanna n, P.**, and M. Kathiresan. 2018. "Characterization of Raw and Alkali Treated New Natural Cellulosic Fiber from Coccinia Grandis.L." Carbohydrate Polymers 186: 332–43. <https://doi.org/10.1016/j.carbpol.2018.01.072> . **IF: 10.723**
9. Manimaran, P., **P. Senthamarai kanna n**, M.R. R. Sanjay, M.K. K. Marichelvam, and Mohammad Jawaid. 2018. "Study on Characterization of Furcraea Foetida New Natural Fiber as Composite Reinforcement for Lightweight Applications." Carbohydrate Polymers 181 (July 2017): 650–58. <https://doi.org/10.1016/j.carbpol.2017.11.099> . **IF: 10.723**
10. Ganapathy, T., **P. Senthamarai kanna n**, K Murugeswari, S. Arivazhagan, and Santhoshkumar Muthu. 2024. "Suitability Evaluation of Raw and Alkali-Treated Cannonball Fibers as Reinforcement in Polymer Composites." Waste and Biomass Valorization, April. <https://doi.org/10.1007/s12649-024-02514-3> . **IF: 3.2**
11. Sanjay, M.R., P. Madhu, Mohammad Jawaid, **P. Senthamarai kanna n**, S. Senthil, and S. Pradeep. 2018. "Characterization and Properties of Natural Fiber Polymer Composites: A Comprehensive Review." Journal of Cleaner Production 172 (January): 566–81. <https://doi.org/10.1016/j.jclepro.2017.10.101> . **IF: 11.072**
12. Boominathan, S., I. Suyambulingam, S. Narayanaperumal, D. Divakaran, **P. Senthamarai kanna n**, and S. Siengchin. 2023. "Comprehensive Characterization of Novel Bioplasticizer from Pandanus Tectorius Leaves: A Sustainable Biomaterial for Biofilm Applications." Macromolecular Research 31 (11): 1061–75. <https://doi.org/10.1007/s13233-023-00192-z>. **IF: 2.4**
13. Ganesh Babu, A., S. S. Saravanakumar, B. Balavairavan, and **P. Senthamarai kanna n**. 2024. "Modification of Rice Hull Powder by in Situ Generation of Silver Nanoparticles for Antibacterial Composite Filler Applications." Macromolecular Research, no. 0123456789 (March). <https://doi.org/10.1007/s13233-024-00257-7> . **IF: 2.4**
14. Ramesh, T., S.S. Saravanakumar, B. Balavairavan, and **P. Senthamarai kanna n**. 2023. "Development and Characterization of a Polylactic Acid/Sesame Husk Powder–Based Biocomposite Film for Packaging Application." Waste and Biomass Valorization. <https://doi.org/10.1007/s12649-023-02317-y> **IF: 3.2**
15. Suganya Priyadarshini, G., G. Sivanantham, D. Divakaran, I. Suyambulingam, **P. Senthamarai kanna n**, A. Murugan, M.R. Sanjay, and S. Siengchin. 2024. "Physicochemical Characterization of Novel Biomass-Based Microcrystalline Cellulose Derived from Agro-Industrial Residues of Rosa Indica Petals." Physiologia Plantarum 176 (1). <https://doi.org/10.1111/ppl.14152> **IF:6.4**
16. Ganapathy, T., R. Sathiskumar, **P. Senthamarai kanna n**, S.S. S Saravanakumar, and Anish Khan. 2019. "Characterization of Raw and Alkali Treated New Natural Cellulosic Fibres Extracted from the Aerial Roots of Banyan Tree." International Journal of Biological Macromolecules 138: 573–81. <https://doi.org/10.1016/j.ijbiomac.2019.07.136> . **IF: 8.025**
17. Ahmed, Javeed, M.A. Balaji, S.S. Saravanakumar, and **P. Senthamarai kanna n**. 2021. "A Comprehensive Physical, Chemical and Morphological Characterization of Novel Cellulosic Fiber Extracted from the Stem of Elettaria Cardamomum Plant." Journal of Natural Fibers 18 (10): 1460–71. <https://doi.org/10.1080/15440478.2019.1691121> . **IF: 3.507**

18. Ahmed, Md Javeed M.J., MA Sai M.A.S. Balaji, S.S. S. SS Saravanakumar, M.R. R. MR Sanjay, **P. SenthamaraiKannan**, Javeed Ahmed Md, MA Sai M.A.S. Balaji, et al. 2018. "Characterization of Areva Javanica Fiber – A Possible Replacement for Synthetic Acrylic Fiber in the Disc Brake Pad." *Journal of Industrial Textiles* 49 (3): 294–317. <https://doi.org/10.1177/1528083718779446> . **IF: 2.926**
19. Arpitha, G.R. R., M.R. R. Sanjay, **P. SenthamaraiKannan**, C. Barile, and B. Yogesha. 2017. "Hybridization Effect of Sisal/Glass/Epoxy/Filler Based Woven Fabric Reinforced Composites." *Experimental Techniques* 41 (6): 577–84. <https://doi.org/10.1007/s40799-017-0203-4> . **IF: 1.700**
20. Balasundar, P., P. Narayanasamy, **P. SenthamaraiKannan**, S. Senthil, R. Prithivirajan, and T. Ramkumar. 2018. "Extraction and Characterization of New Natural Cellulosic Chloris Barbata Fiber." *Journal of Natural Fibers* 15 (3): 436–44. <https://doi.org/10.1080/15440478.2017.1349015> . **IF: 3.507**
21. Baskaran, P.G. G., M. Kathiresan, **P. SenthamaraiKannan**, and S.S. S. Saravanakumar. 2018. "Characterization of New Natural Cellulosic Fiber from the Bark of Dichrostachys Cinerea." *Journal of Natural Fibers* 15 (1): 62–68. <https://doi.org/10.1080/15440478.2017.1304314> . **IF: 3.507**
22. Boominathan, Senthil Kumar, V Amutha, **P SenthamaraiKannan**, D. Vijay Kirubhakar Raj, Senthil Kumar Selvaraj, and S Sakthivel. 2022. "Investigation of Mechanical, Thermal, and Moisture Diffusion Behavior of Acacia Concinna FIBER/POLYESTER Matrix Composite." *Journal of Natural Fibers*, August, 1–16. <https://doi.org/10.1080/15440478.2022.2099502> . **IF: 3.507**
23. Ganapathy, T, R Sathiskumar, M R Sanjay, **P SenthamaraiKannan**, Jyotishkumar Parameswaranpillai, Suchart Siengchin, R Sathiskumar, M R Sanjay, and P SenthamaraiKannan. 2019. "Effect of Graphene Powder on Banyan Aerial Root Fibers Reinforced Epoxy Composites Effect of Graphene Powder on Banyan Aerial Root Fibers." *Journal of Natural Fibers* 00 (00): 1–8. <https://doi.org/10.1080/15440478.2019.1675219> . **IF: 3.507**
24. Ganesan, K., C. Kailasanathan, M.R. R. Sanjay, **P. SenthamaraiKannan**, and S.S. S. Saravanakumar. 2020. "A New Assessment on Mechanical Properties of Jute Fiber Mat with Egg Shell Powder/Nanoclay-Reinforced Polyester Matrix Composites." *Journal of Natural Fibers* 17 (00): 1–9. <https://doi.org/10.1080/15440478.2018.1500340> . **IF: 3.507**
25. Gurukarthik Babu, B., D. Prince Winston, **P. SenthamaraiKannan**, S.S. Saravanakumar, and M.R. R. Sanjay. 2019. "Study on Characterization and Physicochemical Properties of New Natural Fiber from Phaseolus Vulgaris." *Journal of Natural Fibers* 16 (7): 1035–42. <https://doi.org/10.1080/15440478.2018.1448318> . **IF: 3.507**
26. Hyness, N.R.J. Rajesh Jesudoss, N.J. J. Vignesh, **P. SenthamaraiKannan**, S.S. S. Saravanakumar, and M.R. R. Sanjay. 2018. "Characterization of New Natural Cellulosic Fiber from Heteropogon Contortus Plant." *Journal of Natural Fibers* 15 (1): 146–53. <https://doi.org/10.1080/15440478.2017.1321516> . **IF: 3.507**
27. Kathiresan, M., P. Pandiarajan, **P. SenthamaraiKannan**, and S.S. S. Saravanakumar. 2016. "Physicochemical Properties of New Cellulosic Artisdita Hystrix Leaf Fiber."

28. kumaar, A.S. Saravana, A. Senthilkumar, S.S. S. Saravanakumar, **P. Senthamarai kanna n**, L. Loganathan, and B. Muthu Chozha Rajan. 2022. “Mechanical Properties of Alkali-Treated Carica Papaya Fiber-Reinforced Epoxy Composites.” Journal of Natural Fibers 19 (1): 269–79. <https://doi.org/10.1080/15440478.2020.1739590> . IF: 3.507
29. Kumar, R., N.R.J. Rajesh Jesudoss Hynes, **P. Senthamarai kanna n**, S. Saravanakumar, and M.R. R. Sanjay. 2018. “Physicochemical and Thermal Properties of Ceiba Pentandra Bark Fiber.” Journal of Natural Fibers 15 (6): 822–29. <https://doi.org/10.1080/15440478.2017.1369208> . IF: 3.507
30. Kumar, R., S. Sivaganesan, **P. Senthamarai kanna n**, S.S. S. Saravanakumar, Anish Khan, S. Ajith Arul Daniel, and L. Loganathan. 2022. “Characterization of New Cellulosic Fiber from the Bark of Acacia Nilotica L . Plant.” Journal of Natural Fibers 19 (1): 199–208. <https://doi.org/10.1080/15440478.2020.1738305> . IF: 3.507
31. Liu, Yucheng, Lining Wang, Daxin Liu, Yunhai Ma, Yong Tian, Jin Tong, **Palanichamy Senthamarai kanna n**, and Sankaranarayanan Saravanakumar. 2019. “Evaluation of Wear Resistance of Corn Stalk Fiber Reinforced Brake Friction Materials Prepared by Wet Granulation.” Wear 432–433 (February): 102918. <https://doi.org/10.1016/j.wear.2019.05.033> IF: 4.695
32. Madhu, P., M.R. R. Sanjay, **P. Senthamarai kanna n**, S. Pradeep, S.S. S. Saravanakumar, and B. Yogesha. 2019a. “A Review on Synthesis and Characterization of Commercially Available Natural Fibers: Part-I.” Journal of Natural Fibers 16 (8): 1132–44. <https://doi.org/10.1080/15440478.2018.1453433> . IF: 3.507
33. Madhu, P., M.R. R. Sanjay, **P. Senthamarai kanna n**, S. Pradeep, S. Siengchin, M. Jawaid, and M. Kathiresan. 2018. “Effect of Various Chemical Treatments of Prosopis Juliflora Fibers as Composite Reinforcement: Physicochemical, Thermal, Mechanical, and Morphological Properties.” Journal of Natural Fibers 17 (6): 1–12. <https://doi.org/10.1080/15440478.2018.1534191> . IF: 3.507
34. Madhu, P, M. R Sanjay, **P Senthamarai kanna n**, S Pradeep, S. S Saravanakumar, and B Yogesha. 2019b. “A Review on Synthesis and Characterization of Commercially Available Natural Fibers: Part II.” Journal of Natural Fibers 16 (1): 25–36. <https://doi.org/10.1080/15440478.2017.1379045> . IF: 3.507
35. Maheshwaran, M.V. V., N.R.J. Rajesh Jesudoss Hyness, **P. Senthamarai kanna n**, S.S. S. Saravanakumar, and M.R. R. Sanjay. 2018. “Characterization of Natural Cellulosic Fiber from Epipremnum Aureum Stem.” Journal of Natural Fibers 15 (6): 789–98. <https://doi.org/10.1080/15440478.2017.1364205> . IF: 3.507
36. Manikandan, K.M. M., A. Yelilarasi, P. Pandaram, **P. Senthamarai kanna n**, S.S. S. Saravanakumar, Anish Khan, and Abdullah M. A.M. Asiri. 2020. “The Effect of γ -Ray-Irradiated Conducting Polymer Electrolyte and Its Application of Dye-Sensitized Solar Cells to Building Window Glass System.” Journal of Solid State Electrochemistry 24 (2): 251–61. <https://doi.org/10.1007/s10008-019-04306-5> . IF: 2.647

37. Manikandan, K.M., A. Yelilarasi, S.S. Saravanakumar, **P. Senthamarai kanna n**, A. Khan, and A.M. Asiri. 2019. "Effect of Imidazole Based Polymer Blend Electrolytes for Dye-Sensitized Solar Cells in Energy Harvesting Window Glass Applications." Chinese Journal of Chemical Engineering 27 (11): 2807–14. <https://doi.org/10.1016/j.cjche.2019.03.034> . IF: 3.898
38. Manikandan, K.M., A. Yelilarasi, **P. Senthamarai kanna n**, S.S. Saravanakumar, A. Khan, and A.M. Asiri. 2018. "The Conducting Polymer Electrolyte Based on Polypyrrole-Polyvinyl Alcohol and Its Application in Low-Cost Quasi-Solid-State Dye-Sensitized Solar Cells." Journal of Solid State Electrochemistry 22 (12): 3785–97. <https://doi.org/10.1007/s10008-018-4070-4> . IF: 2.647
39. Manikandan, K.M., A. Yelilarasi, **P. Senthamarai kanna n**, S.S. Saravanakumar, A. Khan, and A.M. Asiri. 2019a. "A Green-Nanocomposite Film Based on Poly(Vinyl Alcohol)/ Eleusine Coracana: Structural, Thermal, and Morphological Properties." International Journal of Polymer Analysis and Characterization 24 (3): 257–65. <https://doi.org/10.1080/1023666X.2019.1567087> . IF: 2.583
40. Manikandan, K.M., A. Yelilarasi, **P. Senthamarai kanna n**, S.S. Saravanakumar, A. Khan, and A.M. Asiri. 2019b. "A Study on Optical Limiting Properties of Eosin-Y and Eriochrome Black-T Dye-Doped Poly (Vinyl Alcohol) Composite Film." International Journal of Polymer Analysis and Characterization 24 (4): 326–33. <https://doi.org/10.1080/1023666X.2019.1596366> . IF: 2.583
41. Manimaran, P., M. Prithiviraj, S.S. S. Saravanakumar, V.P. P. Arthanarieswaran, and **P. Senthamarai kanna n**. 2018. "Physicochemical, Tensile, and Thermal Characterization of New Natural Cellulosic Fibers from the Stems of Sida Cordifolia." Journal of Natural Fibers 15 (6): 860–69. <https://doi.org/10.1080/15440478.2017.1376301> . IF: 3.507
42. Manimaran, P., M.R. R. Sanjay, **P. Senthamarai kanna n**, Mohammad Jawaid, S.S. S. Saravanakumar, and Raji George. 2019. "Synthesis and Characterization of Cellulosic Fiber from Red Banana Peduncle as Reinforcement for Potential Applications." Journal of Natural Fibers 16 (5): 768–80. <https://doi.org/10.1080/15440478.2018.1434851> . IF: 3.507
43. Manimaran, P., M.R. R. Sanjay, **P. Senthamarai kanna n**, S.S. S. Saravanakumar, Suchart Siengchin, G. Pitchayapillai, and Anish Khan. 2021. "Physico-Chemical Properties of Fiber Extracted from the Flower of Celosia Argentea Plant." Journal of Natural Fibers 18 (3): 464–73. <https://doi.org/10.1080/15440478.2019.1629149>. IF: 3.507
44. Manimaran, P., M.R. Sanjay, **P. Senthamarai kanna n**, B. Yogesha, C. Barile, and S. Siengchin. 2020. "A New Study on Characterization of Pithecellobium Dulce Fiber as Composite Reinforcement for Light-Weight Applications." Journal of Natural Fibers 17 (3): 359–70. <https://doi.org/10.1080/15440478.2018.1492491> . IF: 3.507
45. Manimaran, P., S.S. S. Saravanakumar, N.K. K. Mithun, and **P. Senthamarai kanna n**. 2016. "Physicochemical Properties of New Cellulosic Fibers from the Bark of Acacia Arabica." International Journal of Polymer Analysis and Characterization 21 (6): 548–53. <https://doi.org/10.1080/1023666X.2016.1177699> . IF: 2.583
46. Manimaran, P., **P. Senthamarai kanna n**, K. Murugananthan, and M.R. R. Sanjay. 2018. "Physicochemical Properties of New Cellulosic Fibers from Azadirachta Indica

Plant.” Journal of Natural Fibers 15 (1): 29–38.
<https://doi.org/10.1080/15440478.2017.1302388> . IF: 3.507

47. Maran, M., R. Kumar, **P. Senthamarai kanna n**, S.S. S. Saravanakumar, S. Nagarajan, M.R. R. Sanjay, and Suchart Siengchin. 2022. “Suitability Evaluation of Sida Mysorensis Plant Fiber as Reinforcement in Polymer Composite.” Journal of Natural Fibers 19 (5): 1659–69. <https://doi.org/10.1080/15440478.2020.1787920> . IF: 3.507
48. Muthu Chozha Rajan, B., A. Senthil Kumar, T. Sornakumar, **P. Senthamarai kanna n**, and M.R. R. Sanjay. 2018. “Multi Response Optimization of Fabrication Parameters of Carbon Fiber-Reinforced Aluminium Laminates (CARAL): By Taguchi Method and Gray Relational Analysis.” Polymer Composites 40 (S2): E1041–48. <https://doi.org/10.1002/pc.24815> . IF: 3.171
49. Prithiviraj, M., R. Muralikanna n, **P. Senthamarai kanna n**, and S.S. S. Saravanakumar. 2016. “Characterization of New Natural Cellulosic Fiber from the Perotis Indica Plant.” International Journal of Polymer Analysis and Characterization 21 (8): 669–74. <https://doi.org/10.1080/1023666X.2016.1202466> . IF: 3.507
50. Sanjay, M.R. R., G.R. R. Arpitha, **P. Senthamarai kanna n**, M. Kathiresan, M.A. A. Saibalaji, and B. Yogesha. 2019. “The Hybrid Effect of Jute/Kenaf/E-Glass Woven Fabric Epoxy Composites for Medium Load Applications: Impact, Inter-Laminar Strength, and Failure Surface Characterization.” Journal of Natural Fibers 16 (4): 600–612. <https://doi.org/10.1080/15440478.2018.1431828> . IF: 3.507
51. Syafri, Edi, Anwar Kasim, Alfi Asben, **P. Senthamarai kanna n**, and M.R. R. Sanjay. 2020. “Studies on Ramie Cellulose Microfibrils Reinforced Cassava Starch Composite: Influence of Microfibrils Loading.” Journal of Natural Fibers, 2020. <https://doi.org/10.1080/15440478.2018.1470057> . . IF: 3.507

Scopus indexed journal article

1. Yashas Gowda, T.G., M.R. Sanjay, K. Subrahmanya Bhat, P. Madhu, **P. Senthamarai kanna n**, and B. Yogesha. 2018. “Polymer Matrix-Natural Fiber Composites: An Overview.” Cogent Engineering 5 (1): 1–13. <https://doi.org/10.1080/23311916.2018.1446667>.
2. Rokbi, Mansour, Abderaouf Khaldoune, M.R. Sanjay, **P. Senthamarai kanna n**, Abdelaziz Ati, and Suchart Siengchin. 2020. “Effect of Processing Parameters on Tensile Properties of Recycled Polypropylene Based Composites Reinforced with Jute Fabrics.” International Journal of Lightweight Materials and Manufacture 3 (2): 144–49. <https://doi.org/10.1016/j.ijlmm.2019.09.005> .
3. Manimaran, P., **P. Senthamarai kanna n**, M.R. Sanjay, and C. Barile. 2018. “Comparison of Fibres Properties of Azadirachta Indica and Acacia Arabica Plant for Lightweight Composite Applications.” Structural Integrity and Life 18 (1): 37–43.

Scopus-indexed Book chapters

1. Khan, A., A. Aslam Parwaz Khan, M. Omaish Ansari, I. Khan, M. Mujahid Ali Khan, A.M. Asiri, A. Evhenovych Kolosov, and **P. Senthamarai kanna n**. 2018. Functionalized Graphene Aerogel: Structural and Morphological Properties and Applications. Functionalized Graphene Nanocomposites and Their Derivatives: Synthesis, Processing and Applications. <https://doi.org/10.1016/B978-0-12-814548-7.00008-8>.

2. Kumar, R., Abdullah Arul Marcel Moshi, S.R. Sundara Bharathi, C. Dhanasekaran, S. Sivaganesan, **P. SenthamaraiKannan**, S.S. Saravanakumar, and Anish Khan. 2020. "Significance of Metal-Organic Frameworks Consisting of Porous Materials." In Metal-Organic Framework Nanocomposites, 1–12. CRC Press. <https://doi.org/10.1201/9780429346262-1> .
3. Kumar, R., N. Rajesh Jesudoss Hynes, R. Manju, **P. SenthamaraiKannan**, S.S. Saravanakumar, A. Khan, S.R. Sundara Bharathi, et al. 2019. Self-Healing Fiber-Reinforced Epoxy Composites. Self-Healing Composite Materials: From Design to Applications. <https://doi.org/10.1016/B978-0-12-817354-1.00020-X>.
4. Kumar, R., N. Rajesh Jesudoss Hynes, S.S. Saravanakumar, **P. SenthamaraiKannan**, A. Khan, A.M. Asiri, I. Khan, M.M.A. Khan, and S. Nagarajan. 2019. Concept of Self-Repair and Efficiency Measurement in Polymer Matrix Composites. Self-Healing Composite Materials: From Design to Applications. <https://doi.org/10.1016/B978-0-12-817354-1.00019-3> .
5. Kumar, R., N. Rajesh Jesudoss Hynes, **P. SenthamaraiKannan**, A. Khan, S.M. Rangappa, S. Siengchin, S.R. Sundara Bharathi, A.M. Asiri, and I. Khan. 2019. Self-Repairing Fiber Polymer Composites: Mechanisms and Properties. Self-Healing Composite Materials: From Design to Applications. <https://doi.org/10.1016/B978-0-12-817354-1.00005-3> .
6. Kumar, R., **P. SenthamaraiKannan**, S.S. Saravanakumar, Anish Khan, K. Ganesh, and S. Vijay Ananth. 2020. "Electroactive Polymer Composites and Applications." In Polymer Nanocomposite-Based Smart Materials, 149–56. Elsevier. <https://doi.org/10.1016/B978-0-08-103013-4.00008-X> .
7. Rajesh Jesudoss Hynes, N., R. Sankaranarayanan, M. Kathiresan, **P. SenthamaraiKannan**, A. Khan, A.M. Asiri, and I. Khan. 2018. Synthesis, Properties, and Characterization of Carbon Nanotube-Reinforced Metal Matrix Composites. Nanocarbon and Its Composites: Preparation, Properties and Applications. <https://doi.org/10.1016/B978-0-08-102509-3.00027-4>
8. Sankaranarayanan, R., N. Rajesh Jesudoss Hynes, **P. Senthamarai Kannan**, Anish Khan, and Abdullah Mohamed Asiri. 2020. "Mechanical Behavior of Self-Healing Polyethylenimine/Polyacrylic Acid Multilevel Polymer Films." In Self-Healing Composite Materials, 405–14. Elsevier. <https://doi.org/10.1016/B978-0-12-817354-1.00021-1>

RESEARCH METRICS

S.NO	Description	Google Scholar	Scopus	Web of Science
1	Citations	5916	4954	4351
2	H-index	33	31	30
3	i10-index	44	-	-

Google Scholar



Dr.P.Senthamarai kannan ✎

FOLLOWING

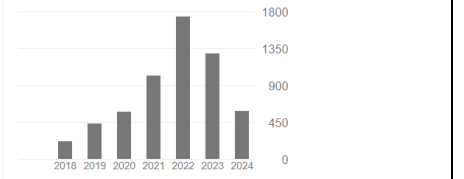
Asst. Prof./Mechanical Engg., KSR Institute for Engineering and Technology
Verified email at ksriet.ac.in

Composite Materials Material science bio fibers lean manufacturing

Cited by

	All	Since 2019
Citations	5916	5656
h-index	33	33
i10-index	44	44

TITLE	CITED BY	YEAR
Characterization and properties of natural fiber polymer composites: A comprehensive review C1 A +	1394	2018
MR Sanjay, P Madhu, M Jawaid, P Senthamarai kannan, S Senthil, ... Journal of Cleaner Production 172, 566-581		
Characterization of raw and alkali treated new natural cellulosic fiber from <i>Coccinia grandis</i> . L C1 +	393	2018
P Senthamarai kannan, M Kathiresan Carbohydrate polymers 186, 332-343		
Study on characterization of <i>Furcraea foetida</i> new natural fiber as composite reinforcement for lightweight applications C1 +	369	2018
P Manimaran, P Senthamarai kannan, MR Sanjay, MK Marichelvam, ... Carbohydrate polymers 181, 650-658		
Polymer matrix-natural fiber composites: An overview C2	367	2018
TG Yashas Gowda, MR Sanjay, K Subrahmanya Bhat, P Madhu, ... Composites Part B: Engineering 162, 1025-1037		



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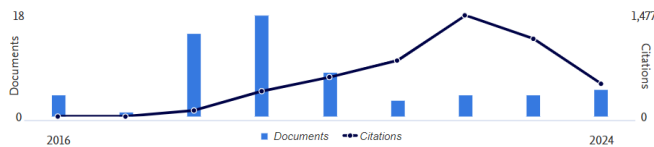
Senthamarai kannan, P.

[Kamaraj College of Engineering and Technology, Vellakulam, India](#) [57115388800](#) <https://orcid.org/0000-0002-5136-2269> [View more](#)

4,954 Citations by 2,552 documents | 62 Documents | 31 h-index [View h-graph](#) | [View all metrics >](#)

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Document & citation trends



Most contributed Topics 2018–2022

- Mechanical Properties; Sisal; Coir**
28 documents
- Nanocellulose; Nanocrystal; Nanowhiskers**
3 documents
- Microcapsule; Urea Formaldehyde; Exchangeable Bond**
3 documents

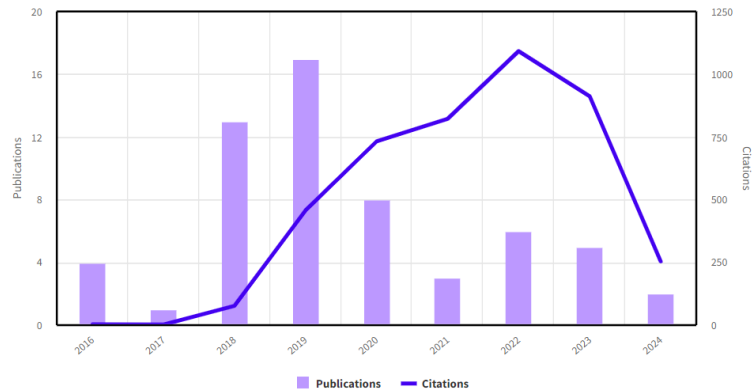
Web of Science

Web of Science Core Collection metrics








Citation counts are from Web of Science Core Collection.

61 Publications | 4,351 Sum of Times Cited | 30 H-index

Times Cited and Publications Over Time



RESEARCH MEMBERSHIP PLATFORM

S.No	Name of the digital source	Web link
1.	VIDWAN 	https://vidwan.inflibnet.ac.in/profile/259195
2.	Scopus ID 	https://www.scopus.com/authid/detail.uri?authorid=57115388800
3.	ORCID 	https://orcid.org/0000-0002-5136-2269
4.	Researcher ID 	https://www.webofscience.com/wos/author/record/T-2920-2017
5.	Google Scholar 	https://scholar.google.co.in/citations?user=9Ar9azsAAAAJ
6.	Research Gate 	https://www.researchgate.net/profile/Senthamaraikannan-P
7.	Mendeley 	https://www.mendeley.com/profiles/senthamaraikannan-p/

Editorial Board Member

Journal of natural fibers, Taylor and Francis (Sci-E indexed journal, IF: 3.5)

Journal reviewer

S.No	Name of the journal	Publisher	No. of manuscripts reviewed*
1.	Journal of industrial textiles	Sage	34
2.	Polymer composites	Wiley	24
3.	International journal of biological macromolecules	Elsevier	43
4.	Biomass conversion and biorefinery	Springer	22
5.	Journal of natural fibers	Taylor and Francis	22
6.	Heliyon	Elsevier	16
7.	Cellulose	Springer	11

8.	Industrial crops and products-	Elsevier	17
9.	Journal of applied polymer science	Wiley	7
10.	Composite structures	Elsevier	5
11.	Journal of cleaner production	Elsevier	5
12.	Journal of engineered fibers and fabrics-	Sage	4
13.	Advances in materials science and engineering	Hindawi	3
14.	Engineering fracture mechanics	Elsevier	3
15.	Journal of polymers and the environment	Springer	5
16.	Archives of civil and mechanical engineering	Springer	2
17.	Composites part B-engineering	Elsevier	2
18.	International journal of polymer science	Hindawi	2
19.	Journal of the Brazilian society of mechanical sciences and engineering	Springer	2
20.	Materials today: proceedings	Elsevier	3
21.	SN applied sciences	Springer	2
22.	Thermochimica ACTA	Elsevier	2
23.	Advances in polymer technology	Hindawi	1
24.	Agronomy research-	Nova publishers	1
25.	Carbohydrate research	Elsevier	1
26.	Current research in green and sustainable chemistry	Elsevier	1
27.	Functional composites and structures	IOP Publishing Ltd.	1
28.	Journal of bioresources and bioproducts	Nanjing Forestry University	1
29.	Journal of genetic engineering and biotechnology-	Springer	1
30.	Journal of the indian chemical society	Elsevier	1
31.	Materials research innovations	Taylor and Francis	1
32.	Materiaux & techniques	EDP Sciences	1
33.	Measurement & control	Sage Publications	1
34.	Scientific reports	Nature	5

35.	Trends in phytochemical research	Wiley	1
36.	Materials chemistry and physics	Elsevier	2
37.	Advances in Bamboo Science	Elsevier	1
38.	Case Studies in Chemical and Environmental Engineering	Elsevier	1
39.	Composite interfaces	Taylor and Francis	1
40.	Journal of environmental chemical engineering	Elsevier	1
41.	Journal of polymer research	Springer	1
42.	Materials today communications	Elsevier	1
43.	Physiologia plantarum	Springer	1
44.	Polymer bulletin	Springer	1
45.	Waste and biomass valorization	Springer	1
*Total of Nos. of manuscript reviewed upto 17-05-2024			264

Research collaboration with notable institutions

1. King Mongkut's university of Technology north Bangkok, Bangkok, Thailand
2. King Abdulaziz university, Jeddah, Saudi Arabia
3. Universiti putra Malaysia, Serdang, Malaysia
4. Politecnico di Bari, Bari, Italy
5. Jilin university, Changchun, China
6. National technical university of Ukraine “Igor sikorsky kyiv polytechnic institute”, kiev, Ukraine
7. Politeknik pertanian negeri payakumbuh, payakumbuh, Indonesia
8. Wuhan university of technology, Wuhan, China
9. Gandhi gram rural institute, Dindugul
10. Anna university, Chennai, India
11. Coimbatore institute of technology, Coimbatore
12. Thiagarajar college of engineering, Madurai, India
13. National Institute of Technology, Manipur.

14. Aligarh Muslim University, Aligarh
15. PSG Institute of Technology and applied research
16. Karpagam Institute of Technology, Coimbatore
17. Mepco schlenk engineering college, Sivakasi, India
18. Malnad college of engineering, Hassan, India
19. Presidency university Bangalore, Bengaluru, India
20. Ramaiah Institute of Technology, Bengaluru, India
21. Manipal Institute of Technology, Manipal, India
22. B.S.Abdur Rahman crescent institute of science & Technology, Chennai

INTELLECTUAL PROPERTY RIGHTS

S.No	Title	Type	Reference no	Status
1	Internet of things-based cam actuated bell	Utility patent	514801	Granted
2	Development of Basalt, Kevlar fabric, MWCNT, and Date palm filler bio-epoxy composite for aircraft structures	Utility patent	202341059455	Published
3	Trailer/Tow Hitch remote access & control	Utility patent	202441014309 A	Published
4	Watch stand	Design registration	415101-001	Filled

FDP AND WORKSHOPS ATTENDED

S.No	Name of the FDP/Workshop	Name of the institution	Date
1.	Application of natural fibre composites for developments of rural societies	National Engineering College	27th to 28th June 2012
2.	Research issues in reinforced materials	Kalasalingam University	23 rd September 2014
3.	Seven-day FDTP on Thermal Engineering	Kamaraj college of Engineering and Technology	1 st to 8 th December 2015
4.	Characterization of natural fibers and how to write the research articles on fiber characterization	Kamaraj college of Engineering and Technology	11 th February 2016
5.	Seven-day FDTP on Engineering materials and Metallurgy	Madras Institute of Technology	5 th to 12 th December 2016

6.	Challenges and innovations in advanced polymeric composite materials	Kamaraj College of Engineering and Technology	23 th February 2017
7.	Faculty Development Program on ANSYS	Kamaraj college of Engineering and Technology	16 th to 17 th March 2017
8.	Short term course on “Functional materials recent trends and future prospects”	Indian institute of Technology Roorkee	20 th to 24 th May 2019
9.	workshop entitled "Materials Manufacturing Processes- Fundamentals, Testing & Characterization"	Vellore Institute of Technology, Vellore	4 th to 11 th July 2022
10.	Chat GPT and AI hacks with MS office	Skill Nation (Online mode)	14 th March 2024
11.	Technical Education in Research, Innovation, and Entrepreneurship Development: NEP 2020	Sardar Vallabhbhai National Institute of Technology, Surat	10 th to 11 th February 2024
12.	National Workshop on "Bharatiya Gyana Parampara"	Central Sanskrit University, Guruvayoor campus	5 th to 7 th April 2024

FDP / WORKSHOP / CONFERENCE ORGANIZED

S.No	Name of the FDP/Workshop	Place	Date
1.	Higher studies opportunities for Mechanical Engineering students in Abroad	Kamaraj College of Engineering	01-11-2021
2.	Internal research lab tour for faculty members and research scholars	Kamaraj College of Engineering	29-04-2021
3.	International conference on sustainable materials and innovative technologies	Kamaraj College of Engineering	18-03-2022
4.	Ultra-High vacuum machine and its applications on single crystal metal surfaces	Kamaraj College of Engineering	02-07-2019

LIST OF PRESENTATIONS IN CONFERENCES

S.No	Name of the FDP/Workshop	Name of the institution	Date
1.	International Conference on Eco-friendly Fibers and Polymeric Materials	King Mongkut's University of Technology North Bangkok, Thailand	19 th to 20 th February 2024
2.	International Conference on Advances in Mechanical Sciences	Malnad College of Engineering, Hassan, Karnataka,	3 rd to 5 th March 2017

3.	National conference on Advances in mechanical engineering applications	Theni kammavar College of Engineering	27 th March 2015
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INVITED TALK / KEYNOTE SPEAKERS

S.No	Name of the Programme	Place	Date
1.	E-tools and Advanced Techniques for drafting Research and Review article	Rathnavel Subramaniam College of Arts & Science	12-08-2023
2.	Modern E - Tools for Drafting Research Articles	KS Rangasamy College of Arts and Science	20-03-2024
3.	Fiber characterization studies	Bharathiar University	18-08-2023
4.	Characterization of novel natural fibers and its composites	Chennai institute of Technology	10-03-2023
5.	Modern E-tools && Advanced Techniques for Drafting Research Articles & Developing Projects	Lekshmipuram College of Arts & Science	07-10-2023
6.	E-tools and techniques for Research article and thesis writing	Mepco Schlenk Engineering College	29-10-2022
7.	Role of catalytic converter in automobile industry	National Institute of Technology Manipur	01-12-2020
8.	Strategies for writing research papers: Ethics and publications	Manonmaniam Sundaranar University	23-03-2023
9.	One-week short term course on Modern E-tools and techniques for research article and thesis writing	Kongunadu arts and science college, Coimbatore	06-10-2022 to 11-10-2022
10.	How to do research work & how do write a technical research article	SRM Institute of Science and Technology	27-11-2021
11.	Emerging trends in lightweight materials	Surya engineering college	05-04-2024
12.	Challenges and Hints for a Draft to Scientific Publications: reviewer Perspective	Kamaraj college of engineering	15-02-2021
13.	Novel engineering materials and processing techniques	Coimbatore Institute of Technology	22-03-2021
14.	How to write the research articles on fiber characterization	Kavery Engineering College, Salem	12.09.2018
15.	Characterization of natural fibers and how to write the research articles on fiber characterization	Rohini College of Engineering & Technology, Kanyakumari	09-08-2019

SUBJECTS HANDLED

- Engineering materials and Metallurgy
- Strength of Materials
- Total quality Management
- Engineering Management
- Lean manufacturing
- History of science and technology in India

EXTRA CURRICULAR ACTIVITIES

- Expertise in Thirukural, Given invited talks in various forums.

PERSONAL DETAILS

Date of Birth : 10.05.1991
Marital Status : Married
Wife's Name : G.Pandimatha
Languages (R, W, S) : Tamil, English
Religion : Hindu

References

1. Dr. P.Parthiban, Département of Production, National Institute of Technology, Trichy. Mobile No : 9894366899, Mail id : parthiban@nitt.edu.in
2. Dr. M.G. Sethuraman, Professor, Department of Chemistry, Gandhigram Rural Institute (DU), Gandhigram - 624302, Mobile No:9443021565, Mail id : mgsethu@gmail.com
3. Dr. M. Kanthababu, Director, Centre for Intellectual Property Rights, Anna University, Chennai. Mobile No :9444224691, Mail id : kb@annauniv.edu
4. Dr.S.S.Saravanakumr, Associate Professor and Head, Département of Mechanical engineering, Kamaraj collège of engineering and Technology, Virudhunagar. Mobile No :9943442987, Mail id : sankarameena@yahoo.co.in

DECLARATION

I (Dr.P.Senthamaraikannan) hereby declare that all the information provided above is true to the best of my knowledge and belief.

Place: Tiruchengode

Date: 15.05.2023

Yours faithfully,



(P. Senthamaraikannan)