

Dr. SANGEETHA SUBBARAJ

Publications (2015-2020)

1. Kingsly, S, Kanagasabai, M, Mohammed, GNA, **S. Subbaraj** et al. "Bandwidth reconfigurable microwave filter using stepped impedance c-shaped resonator". *Microwave Optical Technology Lett.* 2020; 1– 5. <https://doi.org/10.1002/mop.32616>
2. Kingsly, S., Kanagasabai, M., Alsath, M.G.N., **S. Subbaraj** et al. "Compact Frequency and Bandwidth Reconfigurable Microwave Filter". *Wireless Pers Commun* **115**, 1755–1768 (2020). <https://doi.org/10.1007/s11277-020-07652-0>.
3. **Subbaraj, S.**, Kanagasabai, M., Mohammed, G.N.A. et al. "Integrated 4G/5G Multiservice MIMO Antenna for Hand-Held Devices". *Wireless Pers Commun* **111**, 2023–2043 (2020). <https://doi.org/10.1007/s11277-019-06970-2>
4. Sambandam, P., **Subbaraj, S.**, Kanagasabai, M. et al. "Integration of Slot Array with MIMO Antenna for 4G and 5G Applications". *Wireless Pers Commun* **109**, 2719–2731 (2019). <https://doi.org/10.1007/s11277-019-06705>
5. **S. Subbaraj et al.**, "A Compact Frequency-Reconfigurable Antenna with Independent Tuning for Hand-Held Wireless Devices," in *IEEE Transactions on Antennas and Propagation*, vol. 68, no. 2, pp. 1151-1154, Feb. 2020, doi: 10.1109/TAP.2019.2938668.
6. Malathi Kanagasabai; Thipparaju Rama Rao; Sandeep Kumar Palaniswamy; Saffrine Kingsly; Mohammed Gulam Nabi Alsath; Deepa Thangarasu; Padmathilagam Sambandam; **Sangeetha Subbaraj**; Yogeshwari Panneer Selvam, "MULTIBAND RECONFIGURABLE MICROWAVE FILTENNA" in United States Patent, US 10, 333, 225 B1.

7. S. Kingsly , **S. Subbaraj** *et al.*, "Tunable Band-Notched High Selective UWB Filtering Monopole Antenna," in *IEEE Transactions on Antennas and Propagation*, vol. 67, no. 8, pp. 5658-5661, Aug. 2019, doi: 10.1109/TAP.2019.2920997.
8. Saffrine Kingsly, Sangeetha Velan, Malathi Kanagasabai, **Sangeetha Subbaraj**, Yogeshwari Panneer Selvam & Bhuvaneswari Balasubramaniyan (2019) "Signal integrity analysis on a microstrip ultra-wideband coupled-line coupler", *International Journal of Electronics*, 106:4, 620-633, DOI: [10.1080/00207217.2018.1545262](https://doi.org/10.1080/00207217.2018.1545262)
9. **Subbaraj, Sangeetha**; Sambandam, Padmathilagam; Kanagasabai, Malathi; Alsath, Mohammed Gulam Nabi; Palaniswamy, Sandeep Kumar; Kulandhaisamy, Indhumathi; Kingsly, Saffrine; Panneer Selvam, Yogeshwari; Thangarasu, Deepa: "Performance enhancement and signal integrity analysis of multiband MIMO antenna for handheld electronic devices", *IET Microwaves, Antennas & Propagation*, 2019, 13, (5), p. 631-641, DOI: 10.1049/iet-map.2018.5562
- 10.S. Kingsly, **S. Subbaraj** *et al.*, "Compact Frequency and Bandwidth Tunable Bandpass–Bandstop Microstrip Filter," in *IEEE Microwave and Wireless Components Letters*, vol. 28, no. 9, pp. 786-788, Sept. 2018, doi: 10.1109/LMWC.2018.2858005.
- 11.**Sangeetha Subbaraj**, Malathi Kanagasabai, Mohammed Gulam Nabi Alsath, Geetha Ganesan, Yogeshwari Panneer Selvam & Saffrine Kingsly (2018) "Compact multiservice monopole antenna for tablet devices", *International Journal of Electronics*, 105:8, 1374-1387, DOI: [10.1080/00207217.2018.1440435](https://doi.org/10.1080/00207217.2018.1440435)
- 12.Kingsly, S, Kanagasabai, M, Mohammed, GNA, **Subbaraj, S**, Panneer Selvam, Y, Natarajan, R. "Multi-band reconfigurable microwave filter using dual concentric resonators". *International journal of RF and*

Eng. 2018; 28:e21290. <https://doi.org/10.1002/mmce.21290>

13. **Subbaraj, S.**, Kanagasabai, M., Mohammed, G.N.A., Panneer Selvam, Y., Kingsly, S. and Yeragudipati Venkata, R.R. (2018), "Miniaturized quad-band coplanar-fed monopole antenna for tablet computers", *COMPEL - The international journal for computation and mathematics in electrical and electronic engineering*, Vol. 37 No. 3, pp. 1118-1130. <https://doi.org/10.1108/COMPEL-09-2017-0414>
14. M. G. N. Alsath, **S. Subbaraj et al.**, "An Integrated Tri-Band/UWB Polarization Diversity Antenna for Vehicular Networks," in *IEEE Transactions on Vehicular Technology*, vol. 67, no. 7, pp. 5613-5620, July 2018, doi: 10.1109/TVT.2018.2806743.
15. Y. Panneer Selvam, **S. Subbaraj et al.**, "A Patch-Slot Antenna Array with Compound Reconfiguration," in *IEEE Antennas and Wireless Propagation Letters*, vol. 17, no. 3, pp. 525-528, March 2018, doi: 10.1109/LAWP.2018.2801124.
16. Y. P. Selvam, **S. Subbaraj et al.**, "A Low-Profile Frequency- and Pattern-Reconfigurable Antenna," in *IEEE Antennas and Wireless Propagation Letters*, vol. 16, pp. 3047-3050, 2017, doi: 10.1109/LAWP.2017.2759960.
17. V. R. Samsingh, **S. Subbaraj et al.**, "Characterization of Delamination in Fiber-Reinforced Epoxy-Based PCB Laminates, Using an EBG-Enhanced Planar Microwave Sensor," in *IEEE Transactions on Components, Packaging and Manufacturing Technology*, vol. 7, no. 10, pp. 1739-1746, Oct. 2017, doi: 10.1109/TCPMT.2017.2737783.
18. Y. P. Selvam, L. Elumalai, M. G. N. Alsath, M. Kanagasabai, **S. Subbaraj** and S. Kingsly, "Novel Frequency- and Pattern-Reconfigurable Rhombic Patch Antenna with Switchable Polarization," in *IEEE Antennas and Wireless Propagation Letters*, vol. 16, pp. 1639-1642, 2017, doi: 10.1109/LAWP.2017.2660069.

19. **S. Subbaraj**, V. S. Ramalingam, M. Kanagasabai, E. F. Sundar Singh, Y. P. Selvam and S. Kingsley, "Electromagnetic Non-destructive Material Characterization of Dielectrics Using EBG Based Planar Transmission Line Sensor," in *IEEE Sensors Journal*, vol. 16, no. 19, pp. 7081-7087, Oct.1, 2016, doi: 10.1109/JSEN.2016.2591320.
20. S. K. Palaniswamy, Y. P. Selvam, M. G. N. Alsath, M. Kanagasabai, S. Kingsly and **S. Subbaraj**, "3-D Eight-Port Ultrawideband Antenna Array for Diversity Applications," in *IEEE Antennas and Wireless Propagation Letters*, vol. 16, pp. 569-572, 2017, doi: 10.1109/LAWP.2016.2590144.
21. S. Velan, S. Kingsly, M. Kanagasabai, M. G. N. Alsath, Y. Panneer Selvam and **S. Subbaraj**, "Quad-Band Rat-Race Coupler with Suppression of Spurious Pass-Bands," in *IEEE Microwave and Wireless Components Letters*, vol. 26, no. 7, pp. 490-492, July 2016, doi: 10.1109/LMWC.2016.2575017.