

Recent publications in the area of microwave materials from the group

- 1) Vidhya Lalan and Subodh G., The smallest anions, induced porosity and graphene interfaces in $\text{C}_{12}\text{A}_7\text{:e}^-$ electrides: a paradigm shift in electromagnetic absorbers and shielding materials, **Journal of Materials Chemistry C**, 10, 2022, 969–982.
<https://doi.org/10.1039/D1TC03762E>
- 2) Vilesh V. L., Santha N., and Subodh G., Influence of Li_2MoO_4 and polytetrafluoroethylene addition on the cold sintering process and dielectric properties of BaBiLiTeO_6 ceramics, **Ceramics International**, 47, 2021, 30756–30763.
<https://doi.org/10.1016/j.ceramint.2021.07.255>
- 3) Anooja J.B., Vidhya Lalan, and Subodh G., Synergy-induced tunable electromagnetic response and enhanced shielding efficiency in carbon black- and carbonyl iron-reinforced polydimethylsiloxane composites, **Materials Research Bulletin**, 142, 2021, 111415.
<https://doi.org/10.1016/j.materresbull.2021.111415>
- 4) Athira Rajan, Sibi K. S, and Subodh G., Cold sintering: An energy-efficient process for the development of $\text{SrFe}_{12}\text{O}_{19}\text{--Li}_2\text{MoO}_4$ composite-based wide-bandwidth ferrite resonator antenna for Ku-band applications, **ACS Applied Electronic Materials**, 3, 2021, 2297–2308.
<https://doi.org/10.1021/acsaelm.1c00196>
- 5) Rakhi M. Subodh G “Crystal structure, phonon modes, and bond characteristics of $\text{AgPb}_2\text{B}_2\text{V}_3\text{O}_{12}$ (B = Mg, Zn) microwave ceramics” **J. Am. Ceram. Soc.** 103, 3157 (2020).
<https://ceramics.onlinelibrary.wiley.com/doi/abs/10.1111/jace.16991>
- 6) Vidhya Lalan, Aparna P. N., K. P. Surendran, Subodh G “Room-Temperature Ferromagnetic $\text{Sr}_3\text{YCo}_4\text{O}_{10+\delta}$ and Carbon Black-Reinforced Polyvinylidene fluoride Composites toward High-Performance Electromagnetic Interference Shielding” **ACS Omega** 4, 8196–8206 (2019).
<https://pubs.acs.org/doi/abs/10.1021/acsomega.9b00454>

