

One Page CV

Name : Dr. K. BALAMURUGAN
Designation : Associate Professor
Department : Department of Physics
School : School of Engineering and Technology
E-mail Id : balamurugank.set@dsuniversity.ac.in
Phone/Mobile No. : (+91) 90809 88016
Research Interests : *Graphene-like 2D materials, Density functional theory (DFT) calculations, Diamond-like Semiconductors, Micro-magnetics, Energy materials and Storage devices*
Profile Link : [https://scholar.google.com](https://scholar.google.com/publons)
[publons](#)
[orcid](#)

Best 3 Publications:

1. K. Balamurugan*, P.S. Siva Sankaran, and S. Manivannan, Magnetic vortex states in chromium(IV) oxide (CrO₂), *Journal of Magnetism and Magnetic Materials*, 494 (2020) 165845-6pp. DOI: <https://doi.org/10.1016/j.jmmm.2019.165845>
2. Balamurugan Karuppanan*, Jacqueline L. Sturgeon, Kristin L. Bunker, Karen E. Harris, G. Ravi and Jennifer A. Aitken*, Low temperature synthesis of micro- and nano-crystalline CuFeS₂ polymorphs, *SN Applied Sciences*, 2 (2020) 1931. DOI: <https://doi.org/10.1007/s42452-020-03729-4>
3. Mi Jung Lee, Sangik Lee, Sungmin Lee, K. Balamurugan, *et al.*, Synaptic devices implemented with two-dimensional layered single crystal chromium thiophosphate (CrPS₄), *NPG Asia Materials*, 10 (2018) 23–30. DOI: <https://doi.org/10.1038/s41427-018-0016-7>

Awards & Honours:

- *INSPIRE Faculty Award* (IFA14-PH91) from DST (India) – 2014
- *Research Incentive Payment* from IBS CCES (South Korea) – 2013
- *SEM Micrograph Contest Award* from Duquesne University (USA) – 2011

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