

## Papers Published

### Dr.S.Arumugam

1. S. Esakki Muthu, S. Arumugam, Investigation of Magnetic entropy change and critical behavior analysis of Cu and Si doped Ni-Mn-Sn Heusler alloys, J. Supercond. Nov. Magn (Accepted April 2020).
2. T. Jayakumar, C. Ramachandra Raja, S. Arumugam, Structural, Magnetic and Optical Analysis of Pb<sup>2+</sup>- and Ce<sup>3+</sup>-Doped Strontium Hexaferrite, J. Supercond. Nov. Magn (Accepted April 2020).
3. A. Sivakumar, P Eniya, DS Sahaya Jude, J. Kalyana Sundar, P. Sivaprakash, S. Arumugam and DSA Martin Britto—Shock Wave Induced Defect Engineering on Structural and Optical Properties of Pure and dye doped Potassium Dihydrogen Phosphate Crystals, Zeitschrift für Kristallographie – Crystalline Materials, (Accepted) April 2020.
4. P. Sivaprakash, K. Ashock Kumar, S. Muthukumaran, A Pandurangan, A Dixit, S. Arumugam, NiF<sub>2</sub> as an efficient electrode material with high window potential of 1.8V for high energy and power density asymmetric supercapacitor, Journal of Electro analytical Chemistry (Accepted) June - 2020.
5. P. Sivaprakash, S. Esakki Muthu, AK Singh, KK Dubey, M Kannan, S Muthukumaran, Manoranjan kar, S. Singh, S Arumugam, Effect of chemical and external hydrostatic pressure on magnetic and magnetocaloric properties of Pt doped Ni<sub>2</sub>MnGa shape memory Heusler alloys, Journal of Magnetism and Magnetic Materials 514, 167136 (2020)
6. P. Sivaprakash, K. Ashock Kumar, K. Subalakshimi, C. Bathula, S. Sandhu, S. Arumugam, Fabrication of high performance asymmetric supercapacitors with high energy and power density based on binary metal fluoride, Materials letters, 275, 128146 (2020).

7. K. Manikandan, Rukshana Pervin, C. Saravanan, M. Sathiskumar, Nirman Chakraborty, Parasharam M. Shirage, Swastik Mondal, Velaga Srihari, Himanshu Kumar Poswald and S. Arumugam, —Influence of pressure on the transport, magnetic, and structural properties of superconducting  $\text{Cr}_{0.0009}\text{NbSe}_2$  single crystall, RSC Adv. 10, 13112 (2020).
8. J. Anita Lett, Suresh Sagadevan, Gobi Saravanan Kaliaraj, Karthik Alagarsamy, S. Arumugam, P. Sivaprakash, S. Muthukumara, Suriati Paiman, Faruq Mohammad, Hamad A. Al-Lohedan, Won Chun Oh, Synthesis, characterization, and electrical properties of alkali earth metal-doped bioceramics, Materials Chemistry and Physics 249, 123141 (2020).
9. Rukshana Pervin, Manikandan Krishnan, Sonachalam Arumugam, Parasharam M. Shirage, —Second magnetization peak effect and the vortex phase diagram of  $\text{V}_{0.0015}\text{NbSe}_2$  single crystall, Journal of Magnetism and Magnetic Materials 507, 166817 (2020).
10. S. Arumugam, C. Saravanan, R. Thiyagarajan, GN Rao, Effect of hydrostatic pressure on electrical resistivity of  $\text{La}_{0.5}\text{Ca}_{0.5}\text{Mn}_{1-x}\text{MoxO}_3$  ( $x = 0.03$  and  $0.05$ ) manganites: Experimental and Theoretical approaches, Journal of Magnetism and Magnetic Materials, 507, 166755 (2020).