



DEPARTMENT OF PHYSICS

Sl. No.	Authors/Title/Name of the Journal/Volume/Page No/DOI Journal Articles Published/Accepted	Year	Impact Factor 2019
<b>INTERNATIONAL:</b>			
1.	Sushmitha P.Rao, Ajay Kumar Saw, Chanderbhan Chotia, Gunadhora Okram and Vijaylakshmi Dayal, Structural and thermoelectric properties of $Mn_{15}Si_{26}$ , $Mn_4Si_7$ and $MnSi_2$ , synthesized using arc melting method, <b>Applied Physics A</b> 127:621, <a href="https://doi.org/10.1007/s00339-021-04754-9">https://doi.org/10.1007/s00339-021-04754-9</a> (Springer nature)	2021	2.584
2.	Ajay Kumar Saw, Shalabh Gupta, and Vijaylakshmi Dayal, Structural and magneto transport properties of Ruddlesden-popper $La_{2-2x}Sr_{1+2x}Mn_2O_7$ ( $0.42 \leq x \leq 0.52$ ) layered manganites, <b>AIP Advances</b> , 11, 025331 <a href="https://doi.org/10.1063/9.0000109">https://doi.org/10.1063/9.0000109</a>	2021	1.579
3.	Ganesha Channagoudra, Shalabh Gupta, and Vijaylakshmi Dayal, Study of Structural, Transport and Magneto-Crystalline Anisotropy in $La_{1-x}Sr_xMnO_3$ (0.30 x 0.40) Perovskite Manganites, <b>AIP Advances</b> 11, 025305 <a href="https://doi.org/10.1063/9.0000119">https://doi.org/10.1063/9.0000119</a>	2021	1.579
4.	Ganesha Channagoudra, Ajay Kumar Saw, Koushik Dey, Deepa Xavier, Venkatesh R. ,V. Subramanian, D. K. Shukla and Vijaylakshmi Dayal, Substantial magnetoelectric response in $2/3[Pb(Mg_{1/3}Nb_{2/3})O_3]-1/3[PbTiO_3]-CoFe_2O_4$ Composites, <b>Journal of Alloys and Compounds (Elsevier)</b> , 863, 158504 <a href="https://doi.org/10.1016/j.jallcom.2020.158504">https://doi.org/10.1016/j.jallcom.2020.158504</a>	2021	4.650
5.	Ganesha Channagoudra, Ajay Kumar Saw and Vijaylakshmi Dayal, Role of structure and cation distribution on magnetic and electrical properties in inverse spinel copper ferrite, <b>Journal of Physics and chemistry of Solids</b> , <b>Journal of Physics and Chemistry of Solids</b> , 154, 110086, <a href="https://doi.org/10.1016/j.jpcs.2021.110086">https://doi.org/10.1016/j.jpcs.2021.110086</a> (Elsevier)	2021	3.442
6.	Ganesha Channagoudra, Ajay Kumar Saw, Vijaylakshmi Dayal, Significant Enhancement of Magnetization in $0.67 Pb (Mg_{1/3}Nb_{2/3}) O_3-0.33 PbTiO_3/La_{0.70}Sr_{0.30}MnO_3$ Heterostructure, <b>Thin Solid Films (Elsevier)</b> , 709, 138132, <a href="https://doi.org/10.1016/j.tsf.2020.138132">https://doi.org/10.1016/j.tsf.2020.138132</a>	2020	2.030
7.	Ajay Kumar Saw, Ganesha Channagoudra, Shivakumar Hunagund, Ravi. L. Hadimani and Vijaylakshmi Dayal, Study of transport, magnetic and magnetocaloric properties in $Sr^{2+}$ substituted praseodymium manganite, <b>Material Research Express</b> , 7 016105,	2020	1.929
8.	Ganesha Channagoudra, Ajay Kumar Saw and Vijaylakshmi Dayal,	2020	NSCI

	Low Temperature Spin-Polarized Tunneling Magneto-resistance in $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$ ( $x=0.375$ & $0.625$ ) Nanoparticles, <b>Emergent Materials</b> , 3, 1, 45-49 <a href="https://doi:10.1007/s42247-019-00067-z">https://doi:10.1007/s42247-019-00067-z</a>		
9.	M.R. Manju, Ajay Kumar Saw, Noel M D'Souza, Shivakumar Hunagund, R. L Hadimani, <b>Vijaylakshmi Dayal</b> , Enhancement of Ferromagnetic Properties in composite $\text{BaSnO}_3\text{-CoFe}_2\text{O}_4$ , <b>Journal of Magnetism and Magnetic Materials</b> 452 , 23-29, <a href="https://doi.org/10.1016/j.jmmm.2017.11.104">https://doi.org/10.1016/j.jmmm.2017.11.104</a>	2018	2.717
10.	Manju. M.R., Punith Kumar V, <b>Vijaylakshmi Dayal</b> , Investigation of Ferromagnetic properties in Fe/Co substituted $\text{BaSnO}_3$ Perovskitestannates, <b>Physica B: Condensed Matter</b> , 500, 14-19, <a href="https://doi.org/10.1016/j.physb.2016.07.030">https://doi.org/10.1016/j.physb.2016.07.030</a>	2016	1.902
11.	Punith Kumar V., R. L. Hadimani, D. Paladhi, T. K. Nath, D. C. Jiles and <b>Vijaylakshmi Dayal</b> ; Investigation of Magnetic Interactions, Electrical and Magneto-Transport Properties in Ga-Substituted $\text{La}_{0.4}\text{Bi}_{0.6}\text{MnO}_3$ Perovskite Manganites, 209, <b>Materials Science and Engineering B</b> 75-86. <a href="https://doi.org/10.1016/j.mseb.2016.04.002">https://doi.org/10.1016/j.mseb.2016.04.002</a>	2016	4.706
12.	Punith Kumar V., R. L. Hadimani, D. Paladhi, T. K. Nath, D. C. Jiles and <b>Vijaylakshmi Dayal</b> , Investigation of magnetic interactions and Transport Mechanism in Al-substituted $\text{La}_{0.4}\text{Bi}_{0.6}\text{MnO}_3$ Manganites, <b>Journal of Alloys and Compounds</b> 681, 212-224, <a href="https://doi.org/10.1016/j.jallcom.2016.04.168">https://doi.org/10.1016/j.jallcom.2016.04.168</a>	2016	4.650
13.	<b>Vijaylakshmi Dayal</b> , Punith K. V., R. L. Hadimani. And D. C. Jiles Investigation of Critical behavior in $\text{La}_{0.4}\text{Bi}_{0.6}\text{Mn}_{1-x}\text{Ti}_x\text{O}_3$ ( $x=0.05\text{-}0.1$ ) perovskite manganite, <b>Current Applied Physics</b> , 15, 1245-1250, <a href="https://doi.org/10.1016/j.cap.2015.07.014">https://doi.org/10.1016/j.cap.2015.07.014</a>	2015	2.281
14.	<b>Vijaylakshmi Dayal</b> , Punith Kumar V., R. L. Hadimani, E. A. Balfour, H. Fu and D. C. Jiles; Magnetic Interaction and Electronic Transport in $\text{La}_{0.4}\text{Bi}_{0.6}\text{Mn}_{0.5}\text{Ti}_{0.5}\text{O}_3$ Manganite, <b>IEEE Transactions on Magnetics</b> , 51 (11), 1-4, <a href="https://doi.org/10.1109/INTMAG.2015.7157741">https://doi.org/10.1109/INTMAG.2015.7157741</a>	2015	1.651
15.	V. Punith Kumar, <b>Vijaylakshmi Dayal</b> , R. L. Hadimani , R. N. Bhowmik, D. C. Jiles, Magnetic and electrical properties of Ti-substituted lanthanum bismuth manganites; <b>Journal of Material Science</b> 50, 10,3562-3575, <a href="https://doi.org/10.1007/s10853-015-8916-1">https://doi.org/10.1007/s10853-015-8916-1</a>	2015	3.553
16.	Punith KumarV. And <b>Vijaylakshmi Dayal</b> ; Investigation of Phase Coexistence and Correlation in $\text{La}_{1-x}\text{Bi}_x\text{MnO}_{3+\delta}$ ( $x=0.4$ and $0.6$ ), <b>Material Research Express</b> 2 046105, <a href="https://doi.org/10.1088/2053-1591/2/4/046105">https://doi.org/10.1088/2053-1591/2/4/046105</a>	2015	1.929
17.	<b>Vijaylakshmi Dayal</b> , Punith Kumar V; Investigation of Complex Magnetic state in $\text{La}_{0.8}\text{Bi}_{0.2}\text{MnO}_3$ , <b>Journal of Magnetism &amp; Magnetic Materials</b> , 361, 212-218, <a href="https://doi.org/10.1016/j.jmmm.2014.02.082">https://doi.org/10.1016/j.jmmm.2014.02.082</a>	2014	2.717

18.	Vijaylakshmi Dayal, Punith Kumar V, R. L. Hadimani and D. C. Jiles, Evolution of Griffith's Phase in $\text{La}_{0.4}\text{Bi}_{0.6}\text{Mn}_{1-x}\text{Ti}_x\text{O}_3$ Perovskite Oxide, <b>Journal of Applied Physics</b> , 115, <a href="https://doi.org/10.1063/1.4861205">https://doi.org/10.1063/1.4861205</a>	2014	2.328
19.	Vijaylakshmi Dayal, Punith V. Kumar; Investigation of electrical resistivity and magnetotransport properties of $\text{La}_{0.67}\text{Ca}_{0.33}\text{Mn}_{0.99}\text{Fe}_{0.01}\text{O}_3$ perovskite oxide, <b>Solid State Communications</b> , 158, 70-75, <a href="https://doi.org/10.1016/j.ssc.2012.10.006">https://doi.org/10.1016/j.ssc.2012.10.006</a>	2013	1.521
20.	L. Joshi, S. Keshri, V. Dayal and N. Ramma; Existence of Griffiths phase in $\text{La}_{0.67}\text{Ca}_{0.33}\text{Mn}_{0.99}\text{Fe}_{0.07}\text{O}_3$ , <b>Journal of Alloys and Compounds</b> 479, 879-882, <a href="https://doi.org/10.1016/j.jallcom.2009.01.140">https://doi.org/10.1016/j.jallcom.2009.01.140</a>	2009	4.650
21.	S. Keshri, Vijaylakshmi Dayal, Leena Joshi. Influence of Fe doping on electrical properties of LCMO, <b>Phase Transition</b> , 81,1, 17-28, <a href="https://doi.org/10.1080/01411590701448772">https://doi.org/10.1080/01411590701448772</a>	2008	1.028
22.	Vijaylakshmi Dayal and S. Keshri, Structural and Magnetic properties of $\text{La}_{0.67}\text{Ca}_{0.33}\text{Mn}_{(1-x)}\text{Fe}_x\text{O}_3$ ( $x=0-0.07$ ), <b>Solid State Communication</b> , 142 63-66, <a href="https://doi.org/10.1016/j.ssc.2007.01.022">https://doi.org/10.1016/j.ssc.2007.01.022</a>	2007	1.458
23.	S. Keshri and Vijaylakshmi Dayal; Low Field AC-Susceptibility Study on gamma-irradiated $\text{Bi}_{1.2}\text{Pb}_{0.33}\text{Sr}_{1.54}\text{Ca}_{2.06}\text{Cu}_3\text{O}_{10+\delta}$ Superconductor, <b>Phase Transition</b> 80 3 243-251, <a href="https://doi.org/10.1080/01411590601160352">https://doi.org/10.1080/01411590601160352</a>	2007	1.004
24.	V. Dayal, S. Keshri, A. Saha and H. Kishan; Effect of gamma-irradiation on the structural and transport properties of polycrystalline $\text{Bi}_{1.2}\text{Pb}_{0.33}\text{Sr}_{1.54}\text{Ca}_{2.06}\text{Cu}_3\text{O}_{10+\delta}$ superconductor; <b>Radiation Effects &amp; Defects in solids</b> , 162, 5, 359-366, <a href="https://doi.org/10.1080/10420150601068251">https://doi.org/10.1080/10420150601068251</a>	2007	0.640
25.	S. Keshri, V. Dayal, S. Ravi and P. K. Nayak; , AC susceptibility study in the single-phase Bi-2223 system <b>Czechoslovak Journal of Physics</b> , 55, 73-84, <a href="https://doi.org/10.1007/s10582-005-0009-y">https://doi.org/10.1007/s10582-005-0009-y</a>	2005	0.41
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26.	S. Keshri and V. Dayal; Structural and electrical transport properties of nanosized $\text{La}_{0.67}\text{Ca}_{0.33}\text{MnO}_3$ sample synthesized by a simple low cost novel route; <b>Pramana</b> , 70,4,697-704, <a href="https://doi.org/10.1007/s12043-008-0030-3">https://doi.org/10.1007/s12043-008-0030-3</a>	2008	1.185
27.	S. Keshri, V. F. Kraidenov, L. Joshi and V. Dayal; Electrical Properties of under pressure $\text{La}_{0.67}\text{Ca}_{0.33}\text{Mn}_{0.99}\text{Fe}_{0.01}\text{O}_3$ , <b>International Journal of Material Science</b> , 2, 191-199	2007	0.67
28.	S. Keshri, Vijaylakshmi Dayal and A. Poddar; Effect of gamma-irradiation on thermoelectric power of $\text{Bi}_{1.2}\text{Pb}_{0.33}\text{Sr}_{1.54}\text{Ca}_{2.06}\text{Cu}_3\text{O}_{10+\delta}$ ,	2006.	NSCI

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29.	V. Dayal, S. Keshri, S. Ravi and P. K. Nayak; Transport and thermal properties of superconductor; Indian Journal of Cryogenics, 28 4 122-126,	2003	NSCI
<b>REFEREED CONFERENCE ARTICLES PUBLISHED/ACCEPTED</b>			
<b>INTERNATIONAL</b>			
30.	Ajay Kumar Saw and Vijaylakshmi Dayal, Effect of film thickness on electrical and magneto transport properties in $\text{Pr}_{0.5}\text{Sr}_{0.5}\text{MnO}_3$ thin films grown on $\text{LaAlO}_3$ (011), <b>Materials Today Proceeding's</b> , <a href="https://doi.org/10.1016/j.matpr.2021.06.068">https://doi.org/10.1016/j.matpr.2021.06.068</a> (online)	2021	1.3
31.	Ajay Kumar Saw, Ganesha Channagoudra, Tejas Pethker, K. V. Gangadharan, and Vijaylakshmi Dayal Automated low temperature resistivity measurement set-up: design and fabrication, <b>Materials Today Proceeding's</b> , <a href="https://doi.org/10.1016/j.matpr.2021.05.341">https://doi.org/10.1016/j.matpr.2021.05.341</a> (online)	2021	1.3
32.	Ajay Kumar Saw, Shivakumar Hunagund, Ravi L Hadimani, Vijaylakshmi Dayal, Magnetic phase transition, magnetocaloric and magnetotransport properties in $\text{Pr}_{0.55}\text{Sr}_{0.45}\text{MnO}_3$ perovskite manganite, <b>Materials Today: Proceedings</b> , <a href="https://doi.org/10.1016/j.matpr.2020.04.766">https://doi.org/10.1016/j.matpr.2020.04.766</a> (online)	2020	1.3
33.	Ganesha Channagoudra, Ajay Kumar Saw, Susmitha P Rao, Vijaylakshmi Dayal, Investigation of Electronic and Magneto - Transport Properties in Nd doped $\text{Pr}_{0.67}\text{Sr}_{0.33}\text{MnO}_3$ Perovskite Manganite, <b>AIP Conference Proceedings</b> , 2265, 030451, <a href="https://doi.org/10.1063/5.0017711">https://doi.org/10.1063/5.0017711</a>	2020	0.40
34.	<a href="#">Ajay Kumar Saw</a> , <a href="#">Ganesha Channagoudra</a> <sup>1</sup> , <a href="#">Shivakumar Hunagund</a> , <a href="#">Fu Hao</a> , <a href="#">Ravi L. Hadimani</a> , and <a href="#">Vijaylakshmi Dayal</a> : Study of magnetotransport and low temperature anomaly in half doped lanthanum calcium manganite nanoparticle, <b>AIP Conference Proceedings</b> , 2115, 030437 <a href="https://doi.org/10.1063/1.5113276">https://doi.org/10.1063/1.5113276</a>	2019	0.40
35.	Punith Kumar V. and Vijaylakshmi Dayal, Critical behavior and non-universal low-field magnetic scaling in $\text{La}_{1-x}\text{Bi}_x\text{MnO}_3$ (x=0.4 & 0.6) perovskite manganite oxide, 59th <b>AIP Conference Proceedings</b> 1665, 030014 <a href="https://doi.org/10.1063/1.4917589">https://doi.org/10.1063/1.4917589</a>	2015	0.40
36.	Punith V. Kumar, M. R. Manju, and Vijaylakshmi Dayal, Investigation of magnetic spin glass property in $\text{La}_{0.5}\text{Bi}_{0.5}\text{MnO}_3$ sample using non-linear AC susceptibility measurements, <b>AIP Conference Proceedings</b> , 1591, 1546, <a href="https://doi.org/10.1063/1.4873028">https://doi.org/10.1063/1.4873028</a>	2014	0.40

37.	<i>Punith K. V</i> , Manju M. R. and <b>Vijaylakshmi Dayal</b> ; Electrical and Magnetic Properties of La <sub>0.5</sub> Bi <sub>0.5</sub> MnO <sub>3</sub> AIP Conference Proceedings, 1536, 575 <a href="https://doi.org/10.1063/1.4810357">https://doi.org/10.1063/1.4810357</a>	2013	0.40
<b>NATIONAL</b>			
38.	Meenakshi Giridhar, Punith Kumar V, <b>Vijaylakshmi Dayal</b> , Investigation on Thermal Decomposition of Lanthanum Manganites and its primary constituents using TGA and DTA Techniques, Proceedings of National Conference on 'Recent trends in Physics, Mathematics and Engineering', page no. 93, RTPME-2015.ISBN No. 978-81-930115-1-5	2015	..
39.	<b>V. Dayal</b> , S. Keshri, P. K. Nayak, and S. Ravi Susceptibility of Bulk Bi-2223 Superconductor, NCMA-2004 Conference Proceeding's.	2004	..