

RESUME

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PUBLICATIONS IN SCOPUS JOURNALS

S.No	Title & List of Authors	Journal, ISSN number, Volume, Page No, Year	Impact Factor
1.	Ammonia sensors on the base of gadolinium doped tin oxide thin films and its characterization; Effect of doping concentration <i>S.Maheswari, M.Karunakaran, L.BrunoChandrasekar, K.Kasirajan</i>	Physica B (ISSN: 0921-4526) Accepted	1.902
2.	Synthesis, characterization and anti-bacterial activity of Mg and Ba-doped ZnO Nanoparticles <i>L.BrunoChandrasekar, M. DivyaGnaneswari, M.Karunakaran,</i>	Journal of Materials Science: Materials in Electronics, (ISSN: 0957-4522), 2020.	2.195
3.	Effect of Doping on the Morphological, Micro-Structural and Optical Properties of $Cd_{1-(x+y)}Mn_xFe_yO$ Thin Films <i>M. Rajini, M. Karunakaran, L. Bruno Chandrasekar, K. Kasirajan, S. Maheswari, L. Castañeda, FahadA.Alharthi, Nabil Al-Zaqri, Adel El Marghany, S. S. R. Inbanathan</i>	Nanoscience and Nanotechnology Letters (ISSN:1941-4900) 12, 331-337, 2020.	1.128
4.	Spray Pyrolysis Growth of $Cd_{0.92}Mn_{0.04}Fe_{0.04}O$ Thin Films: Effect of Substrate Temperature on the Microstructural, Morphological and Optical Properties <i>M. Rajini, M. Karunakaran, L. Bruno Chandrasekar, K. Kasirajan, E. Manikandan, L. Castañeda, FahadA.Alharthi, Nabil Al-Zaqri, S. S. R. Inbanathan</i>	Nanoscience and Nanotechnology Letters (ISSN:1941-4900) 12, 345-350, 2020.	1.128
5.	Yttrium- substituted SnO_2 thin films and its gas sensing activity against NH_3 gas: Characterization and sensitivity evaluation <i>Karunakaran Marimuthu, S.Maheswari, K.Kasirajan, L.BrunoChandrasekar, P.Boomi</i>	Sensors and Actuators A: Physical (ISSN: 0924-4247), 315, 112303, 2020.	2.904
6.	Room temperature ammonia gas sensor using Nd-doped SnO_2 thin films and its characterization <i>S.Maheswari, M.Karunakaran, L.BrunoChandrasekar, K.Kasirajan, N.Rajkumar</i>	Journal of Materials Science: Materials in Electronics, (ISSN: 0957-4522), 31, 12586-12594, 2020.	2.195
7.	SILAR-coated Mg-doped ZnO thin films for ammonia vapor sensing applications <i>K.Radhi Devi, G.Selvan, M.Karunakaran,</i>	Journal of Materials Science: Materials in Electronics, (ISSN: 0957-	2.195

	<i>K.Kasirajan, L.BrunoChandrasekar, MohdShkir, S.AlFaify</i>	4522), 31, 10186-10195, 2020.	
8.	Preparation and Characterization of Transparent Conducting Mn and Ni-Doped Zinc Oxide Films Prepared by Successive Ionic Layer Adsorption and Reaction Method <i>M.Karunakaran, L.BrunoChandrasekar, K.Kasirajan, R.Chandramohan</i>	Journal of Nanoelectronics and Optoelectronics, (ISSN: 1555-130X), 15 (1), 101-107, 2020.	0.989
9.	Spintronics – A mini review <i>L.BrunoChandrasekar, K.Gnanasekar, M.Karunakaran</i>	Superlattices and Microstructures, (ISSN:0749-6036), 136, 106322, 2019.	2.123
10.	Effect of pressure and temperature on spin-dependent tunneling in InAs/GaAs heterostructure with Dresselhaus spin-orbit interaction <i>L.BrunoChandrasekar, M.Karunakaran, K.Gnanasekar</i>	Physics Letters A, (ISSN:0375-9601), 383, 125989-7, 2019.	2.087
11.	Spin-Dependent Electron Tunneling in ZnSe/Zn _{1-x} Mn _x Se Heterostructures with Double δ -Potentials <i>L.BrunoChandrasekar, M.Karunakaran, K.Gnanasekar</i>	Communications in Theoretical Physics, (ISSN: 0253-6102) 71 (3), 339-343, 2019.	1.066
12.	Spin-resonant tunneling in CdTe/Cd _{1-x} Mn _x Te double-barrier heterostructures with zero external field <i>RD Pushpitha, L.BrunoChandrasekar, J.Thirumalai, K.Gnanasekar, R.Chandramohan</i>	Physica E, (ISSN: 1386-9477), 107, 187-195, 2019.	2.399
13.	Synthesis and characterization of microwave irradiated Sr doped ZnO nanostructure <i>L.BrunoChandrasekar, S.Nagarajan, P.Ramasundari, R.Vijayalakshmi, M.Karunakaran, T.DanielThangadurai</i>	Journal of Optoelectronics and Advanced materials, (ISSN: 1454 – 4164), 21, 146-150, 2019.	0.390
14.	Spin-dependent tunneling of light and heavy holes with electric and magnetic fields <i>L.BrunoChandrasekar, M.Karunakaran, K.Gnanasekar</i>	Journal of Semiconductors, (ISSN:0749-6036), 39, 112001-5, 2018.	---
15.	Effect of the δ -potential on spin-dependent electron tunneling in double barrier semiconductor heterostructure <i>L.BrunoChandrasekar, K.Gnanasekar, M.Karunakaran</i>	Superlattices and Microstructures, (ISSN:0749-6036), 118, 319-323, 2018.	2.123
16.	Preparation and Characterization of Mn doped ZnO nanorods <i>R. DilberPushpitha, L.BrunoChandrasekar, N. M. SeguSahubanBathusha, R.Chandramohan</i>	Physics of the Solid State, (ISSN:1063-7834) 60, 1011-1015, 2018.	0.860
17.	Verification of Bruno-Gnanasekar- Karunakaran-Chandramohan observation in non-magnetic semiconductor/diluted magnetic semiconductor heterostructure <i>L.BrunoChandrasekar</i>	Superlattices and Microstructures, (ISSN:0749-6036), 112, 451-454, 2017.	2.123

18.	Effect of magnetic field on spin-dependent hole transport through a type-I $\text{Cd}_{1-x}\text{Mn}_x\text{Te}/\text{CdTe}$ double barrier heterostructure <i>L.BrunoChandrasekar, K.Gnanasekar, M.Karunakaran, R.Chandramohan</i>	European Physical Journal Plus (ISSN: 2190-5444) 132, 11542-7, 2017.	1.753
19.	Effect of 'Al' concentration on spin-dependent resonant tunneling in $\text{InAs}/\text{Ga}_{1-y}\text{Al}_y\text{As}$ symmetrical double barrier heterostructures <i>L.BrunoChandrasekar, K. Gnanasekar, M.Karunakaran, R.Chandramohan</i>	Bulletin of Materials science (ISSN:0250-4707), 39(6), 1435-1440, 2016.	1.017
20.	Effect of negative electric field on spin-dependent tunneling in semiconductor heterostructures <i>L.BrunoChandrasekar, K. Gnanasekar, M.Karunakaran, R.Chandramohan</i>	Current Applied Physics (ISSN:1567-1739), 15, 1421-1427, 2015.	2.212
21.	Preparation and characterization of silver selenide thin film <i>L.BrunoChandrasekar, R.Vijayalakshmi, B.Rajeswari, R.Chandramohan, G.Arivazhagan, S.ArulmozhiPackiaseli</i>	Brazilian Journal of Physics, (ISSN:1678-4448), 44(6), 653-657, 2015.	0.810

PUBLICATIONS IN NON-SCOPUS JOURNALS

S.No	Title & List of Authors	Journal, ISSN number, Volume, Page No
1.	X-ray peak profile analysis of $\text{Zn}_{1-y}\text{Mn}_y\text{O}$ and $\text{Zn}_{1-y}\text{Ni}_y\text{O}$ Nanostructures <i>L.BrunoChandrasekar, M.Karunakaran, R.Chandramohan, T.D. Thangadurai, R.Vijayalakshmi</i>	Journal of Nanoengineering and Nanomanufacturing (ISSN: 2157-9326), 6, 217-221, 2016 .
2.	Effect of barrier width on spin-dependent resonant tunneling in asymmetrical double barrier semiconductor heterostructures <i>L.BrunoChandrasekar, K. Gnanasekar, M.Karunakaran, R.Chandramohan</i>	Journal of Nanoengineering and Nanomanufacturing (ISSN: 2157-9326), 6, 175-179, 2016 .
3.	Synthesis and Characterization of Copper oxide and Zinc Oxide Nanomaterials <i>L.BrunoChandrasekar, R.Chandramohan, M.Karunakaran, R.Vijayalakshmi</i>	Nature of Scientific Materials, ANSA- 1, 18-22, 2016 .
4.	Preparation and Characterization of Mn-doped ZnS Nanoparticles <i>L.BrunoChandrasekar, R. Chandramohan, R.Vijayalakshmi, S.Chandrasekaran</i>	International Nano Letters, (ISSN2008-9295), 5, 71-75, 2015 .
5.	Luminescence and unit cell analysis of $\text{Zn}_{1-x}\text{Cd}_x\text{O}$ nanoparticles <i>L.BrunoChandrasekar, R.Chandramohan, S.Chandrasekaran, J.Thirumalai, R.Vijayalakshmi</i>	Advanced Science Focus, (ISSN:2330-0760), 1, 292-296, 2013 .
6.	Effect of Mn doping on micro-structural and optical properties of cadmium sulfide nanoparticles	Journal of Nanoengineering and Nanomanufacturing

	<i><u>L.BrunoChandrasekar</u>,R.Chandramohan, R.Vijayalakshmi</i>	(ISSN: 2157-9326), 3(3), 253-257, 2013 .
7.	Preparation and Characterization of Se-Te-Ag Chalcogenide Thin film <i>R.Vijayalakshmi, <u>L.BrunoChandrasekar</u>,R.Chandramohan</i>	Journal of Nanoenginerring and Nanomanufacturing (ISSN: 2157-9326), 3(1), 70-72, 2013 .