Dr. Jasbir Singh, Associate Professor ECE, Yadavindra Deptt. Of Engg. Punjabi University Guru Kashi Campus, Talwandi Sabo, Distt. Bathinda, Punjab-India, +91-9501011864 (M)
Email: jasbir_ycoe@pbi.ac.in, jasbirkalsi4321@gmail.com,
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https://scholar.google.com/citations?user=ANerD38AAAAJ&hl=en
https://www.researchgate.net/profile/Dr-Singh-37

### Professional Qualification:

Ph.D-Microwave Ferrites (I K Gujral Punjab Technical University Jalandhar) M.Tech-Electronics Product Design and Technology (Punjab Engineering College, Chandigarh) B.Tech-Electronics and Communication Engineering (BBSBEC Fatehgarh Sahib) **Research Interest**: Synthesis and Characterization of Microwave Ferrites and Composites as Absorbers from 1-40 GHz **Employment History: Teaching and Administrative Experience: 19 Years Teaching Experience** Currently working as Associate Professor at YDOE, Punjabi University Guru Kashi Campus, Talwandi Sabo since 29th December 2006. Worked as a lecturer at Guru Nanak Dev University Amritsar from 28<sup>th</sup> july 2006 to 28<sup>th</sup> December 2006.  $\geq$ Worked as a lecturer at Guru Nanak Dev University Regional Campus Jalandhar 3rd july 2006 to 27th july 2006  $\geq$ Worked as a lecturer at Guru Nanak Dev University Regional Campus Gurdaspur 18<sup>th</sup> july 2005 to 28<sup>th</sup> April 2006.  $\geq$ Worked as a lecturer at Guru Nanak Dev University Regional Campus Gurdaspur from 21<sup>st</sup> oct 2004 to 30 April 2005.  $\triangleright$ Worked as a lecturer at GGS College of Modern Technology, Kharar from 23<sup>rd</sup> july 2003 to 20<sup>th</sup> oct 2004.  $\geq$ Teaching (UG and PG): Digital Electronics, Microprocessor, Electronics and Microwave Absorbers. • Administrative Experience Acted as Section In charge ECE for a tenure of 2 years Co-ordinator of electronics circuit fabrication and testing certificate course

Nodal officer for NAAC/IQAC/AISHE for Yadavindra department of engg, Talwandi Sabo

### Institutional Services, Co-curricular and Extension Activites

- Board Member of Faculty of Engineering and Technology
- Board of Studies member for Electronics and Communication Engineering
- Co-ordinator of Short term course on engineering today at YCoE
- M.Tech Incharge,
- Training and Placement Incharge,
- Transport Bus Pass Incharge
- Physical Verification of candidates applied through golden heart scheme
- Member of College Website Upgradation Committee, Admission Committee, Screening Committee, Purchase Committee, Social and print media committee, Annual Athletic meet committee etc.

### Life Membership of Professional Bodies: Indian Society for Technical Education (ISTE)

### **Research Oriented Activities**

### Thesis Guided: M.Tech (Electronics and Communication Engineering) – 13

**Lab setup :** Established R & D lab in 2015 on microwave absorbers with the of help PhD Supervisor at Rayat Bahra College of Engg. Hoshiarpur which resulted in 12+ research publications in Springer and Elsevier Journals

# Visits: 2018: Visited Centre University of Hyderabad and Osmania University Telangana for Experimentation work Seminar/STC/ Workshops/Conferences Attended

- > 2<sup>nd</sup> IEEE International conference on intelligent circuits and systems held on April 20-21, 2018 at LPU Punjab.
- > UGC HRDC Sponsored STC on Research Methodology held on 11.09.19 to 17.09.19 at GNDU Amritsar
- > One week STC on Engineering Today from 7-11 May 2018 at YCoE Talwandi Sabo.
- > One week STC on Engineering Today from 7-11 January 2019 at YCoE Talwandi Sabo.
- ➢ 3<sup>rd</sup> National workshop on innovation in science on 6-7 Nov. 2017 at YCoE Talwandi Sabo.
- ➢ 4<sup>th</sup> National workshop on innovation in science on 16-17 October 2018 at YCoE Talwandi Sabo.
- > National Workshop on 3D Printing of smart materials on 7<sup>th</sup> Feb 2019 at YCoE Talwandi Sabo.
- > One day Workshop on Robotics held at YCoE Talwandi Sabo on dated 7<sup>th</sup> Feb 2018.

### **Publications**:

Total papers published: 21 (list of publications attached as Annexure II)

Referred Journals SCI Indexed: 18 UGC and Conference Proceedings:5

Research collaboration: Collaborated with various Research Experts at international and national level (List attached as Annexure II)

Citation Indices (As on October 2023):

List of Publications (Annexure II)

443	9	8	80.095
Citations	(Google)	(Google)	Factor
Google	h-index	i10-index	Total Impact

#### Sr. Volume Impact Title **Journal Name** Year **ISBN No** and Page Factor No. electrical. Structural. and impedance properties of Co and Sn doped 0947-1. Ba0.5Sr0.5Fe12-2xO19 hexaferrite ceramics journal of Applied Physics A: 2023 129,550 8396 2.983 $(0 \le x \le 1)$ and their evaluation for antenna Materials Science & Processing / application. **Springer Berlin Heidelberg** Exploitation of Dielectric Properties of Ferrite Composites for Microwave Absorber journal of Applied Physics A: Applications: Complex Permittivity, Real-0947-2. Materials Science & Processing / 2022 2.983 Impedance, Springer Berlin Heidelberg Imaginary Geometrical 128,820 8396 Thickness, and Reflection Loss Parameters Elucidation of Structural, Morphological, Electrical Parameters and Anti-bacterial **IEEE Transactions on** 5361241, 3. 2022 1-1 3.206 Activity of Polyaniline-Nanocomposite: New NanoBioscience 15582639 Paradigm of Controlling Bacterial Activity DOI: 10.1109/TNB.2022.3220573 Fabrication of highly sensitive 4-Nitrophenol sensor and photocatalytic performance of Journal of Materials Chemistry and 0254-288, 2022 4.094 4. multifunctional Ba0. 5Sr0. 5CoxHfxFe12-Physics / (Elsevier) 126396 0584 2xO19 Ferrite Role of phase, grain morphology and impedance properties in tailoring of Barium 281, 0921-Journal of Materials Science & 5. 2022 3.407 Strontium hexaferrites for microwave **Engineering B** / (Elsevier) 115679 5107 absorber/attenuator applications Controllable Morphology, Dielectric, Magnetic and Reflection loss Characteristics Journal of Alloys and Compounds/ 888, 0925-2021 6. 6.371 of Ferrite/Wax Composites for Low-loss (Elsevier) 161611 8388 Applications Optimization of Performance Parameters of Doped Ferrite-Based Microwave Absorbers: **IEEE Transactions on Magnetics /** 57, 1941-2021 7. Their Structural, Tunable Reflection Loss, 1.7 IEEE 2800619 0069 Bandwidth, Input and Impedance Characteristics Development of Co0.7Ca0.3Fe2O4-EPDM nanocomposite for microwave application: Journal of Ceramic International / 47, 7285-0272-8. 2021 5.532 Their rheometric behavior, surface Elsevier 7290 8842 topography and electromagnetic parameters Development of doped BaeSr hexagonal ferrites for microwave absorber applications: 0925-Journal of Allovs and Compounds/ 855, 9. Structural characterization, tunable thickness, 2021 6.371 (Elsevier) 157242 8388 electromagnetic absorption peaks and parameters Design and development of Ga-substituted Ztype hexaferrites for microwave absorber Journal of Ceramic International / 47, 1145-0272-10. 2021 5.532 applications: M"ossbauer, static and dynamic 1162 Elsevier 8842 properties Complex permittivity and complex permeability characteristics of Co-Ti doped journal of Applied Physics A: 0947barium strontium hexaferrite/paraffin wax Materials Science & Processing / 2020 11. 126, 1-8 2.983 8396 composites for application in microwave **Springer Berlin Heidelberg** devices

12.	Communication		2018	6, 47-50	2321- 3256	
13.	Study of Microwave Absorption Properties in Co-Sn doped M- type Ba –Sr hexagonal ferrite Engineering / IJEE,UGC			10, 326- 330	0973- 7383	
14.	InvestigationonMicrowaveAbsorptionProperty of Co2+and Cr3+substituted M-Type Ba - Sr hexagonal ferrite synthesizedEngineering / IJEE,UGCby a ceramic method.International Journal of Electronics			10, 321- 325	0973- 7383	
15.	Microwave absorption characteristics of Co2+ and W4+ Substituted M-type Ba0.5Sr0.5CoxWxFe12-2xO19 hexagonal ferrites US		2017	28, 228- 235	0957- 4522	2.478
16.	A study of microwave absorbing properties in Co–Gd doped M-type Ba–Sr hexaferrites prepared using ceramic method US		2017	28, 11969- 11978	0957- 4522	2.478
17.	Structural and magnetic properties of Co2+ - W4+ ions doped M-type Ba-Sr hexaferrites synthesized by a ceramic method Journal of Alloys and Compounds/ (Elsevier)		2017	695. 909- 914	0925- 8388	6.371
18.	Investigation on structural and microwave absorption property of Co2+ - Y3+ substituted M-type Ba-Sr hexagonal ferrites prepared by a ceramic method		2017	695, 792- 798	0925- 8388	6.371
19.	Microwave absorbing characteristics in Co2+ and Al3+ substituted Ba0.5Sr0.5CoxAlxFe12-2xO19 hexagonal ferrite	Journal of Materials Science: Materials in Electronics / Springer US	2017	28, 2377- 2384	0957- 4522	2.478
20.	Elucidation of phase evolution, Microstructural, Moossbauer and magnetic properties of Co2+ - Al3+ doped M-type Ba - Sr hexaferrites synthesized by a ceramic method	Journal of Alloys and Compounds/ (Elsevier)	2017	695,1112 -1121	0925- 8388	6.371
21.	Tunable Microwave Absorption in Co-Al substituted M-type Ba-Sr Hexagonal Ferrite	Journal of Materials and Design / Elsevier	2016	110, 749- 761	0264- 1275	9.417
22.	Performance analysis of fuzzy logic based PD,PI and PID Controllers	International Journal of Engineering Research and Applications / IJERA	2012	2, 1290- 1297	2248- 9622	
23.	Performance evaluation of digital modulation technique in WCDMA-Based radio over fiber communication system	International journal of advanced research in computer science and electronics engineering / ijarcse	2012	1, 10-14	2278- 9043	

Dr Jasbir Singh

## Research collaboration: (Annexure I)

### International

Sr.	Name	Address
No.		
1.	Dr. Sanjay Mishra	Department of Physics, University of Memphis, Memphis, TN, USA
2.	Dr. Madhav Ghimire	Department of Physics, University of Memphis, Memphis, TN, USA
3.	Dr. Yang Bai	School of Materials Science and Engineering, University of Science and Technology Beijng, Beijing 100083, China.
4.	Dr. Sergei Trukhanov	National University of Science and Technology, Moscow, Russia.
5.	Dr. Alex Trukhanov	National University of Science and Technology, Moscow, Russia.
6.	Dr. Larrisa Panina	Institute of Novel Materials and Nanotechnology, National University of Science and Technology (MISiS), Moscow 119991, Russia
7.	Dr.A.S.B. Sombra	Physics Department - Telecommunication, Science and Engineering of Materials Laboratory (LOCEM), Federal University of Ceara (UFC), P.O. Box 6030, Fortaleza, Ceara, 60455-760, Brazil.
8.	Dr. J.E.V. de Morais	Telecommunication Engineering Department, Federal University of Ceara (UFC), P.O. Box 6007, Fortaleza, Ceará 60755-640, Brazil

9.	Dr. Di Zhou	School of Electronic Science and Engineering, Xi'an Jiaotong University, Xi'an 710049, China
10.	Dr. Hasan B Albargi	Physics Department, College of Science, Najran University, Najran, P.O. Box 1988, Najran, 11001, Saudi Arabia
11.	Dr. Juan C. Aphesteguy	LaQuiMMAI-IQAI, Facultad de Ingeniería, UBA. Av. Paseo Colón 850, C1063EHA, Buenos Aires, Argentina
12.	Dr. Silvia Jacobo	LaQuiMMAI-IQAI, Facultad de Ingeniería, UBA. Av. Paseo Colón 850, C1063EHA, Buenos Aires, Argentina
13.	Dr. I.A. Abdel-Latif	Physics Department, College of Science, Najran University, Najran, P.O. Box 1988, Najran, 11001, Saudi Arabia
14.		
15.	Dr. R.G.M. Oliveira	Physics Department - Telecommunication, Science and Engineering of Materials Laboratory (LOCEM), Federal University of Ceara (UFC), P.O. Box 6030, Fortaleza, Ceara, 60455-760, Brazil
16.	Dr. F. F. do Carmo	Physics Department - Telecommunication, Science and Engineering of Materials Laboratory (LOCEM), Federal University of Ceara (UFC), P.O. Box 6030, Fortaleza, Ceara, 60455-760, Brazil
17.	Dr. M. A. S. Silva	Physics Department - Telecommunication, Science and Engineering of Materials Laboratory (LOCEM), Federal University of Ceara (UFC), P.O. Box 6030, Fortaleza, Ceara, 60455-760, Brazil
18.	Dr. Sandeep Sharma	Department of Medical Laboratory Sciences, Lovely Professional University, Phagwara, Punjab
19.	Dr Sundeep Jaglan	Department of Microbiology, CSIR-Indian Institute of Integrative Medicine ,Canal Road Jammu-180001
20.	Dr Sarika Sharma	Department of Life Sciences, Arni University. Kathgarh, Indora, Kangra.H.P.(India)-176401.
21.	Dr. Ravinder Kaur	Department of Mechanical Engineering, Indian Institute of Technology, Ropar Punjab
22.	Sukhleen Bindra Narang	Department of Electronics Technology, Guru Nanak Dev University, Amritsar, Punjab, India
23.	Dr. Rajshree B. Jotania	Department of Physics, University School of Sciences, Gujarat University, Ahmedabad 380 009, India
24.	Dr K C James Raju	Centre for Advanced Studies in Electronics Science and Technology (CASEST), School of Physics, Electronics Block, University of Hyderabad, India
25.	Dr. Preksha N Dhruv	Department of Physics, University School of Sciences, Gujarat University, Ahmedabad 380 009, India
26.	Dr. Andrew joseph	Centre for Advanced Studies in Electronics Science and Technology (CASEST), School of Physics, Electronics Block, University of Hyderabad, India
27.	Dr. Maria Vesna	Institute for Multidisciplinary Research, University of Belgrade, 546, Serbia

Dr Jasbir Singh