

**National Institute of Technology, Tiruchirappalli:
Performa for CV of Faculty/ Staff Members**

Postdoctoral Researcher (PostDoc)	Korea Institute of Materials Science (KIMS), Changwon, South Korea	25-06-2014	07-06-2017

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/ Grade	Subjects
Doctor of Philosophy (Ph.D)	IIT-Roorkee, India	2014	-	Physics
Master of Science (M.Sc)	Sri Venkateswara University, A.P, India	2008	Distinction	Physics
Bachelor of Science (B.Sc)	Sri Venkateswara University, A.P, India	2006	Distinction	Physics, Chemistry and Mathematics
Higher Secondary Certificate (+2 class)	Directorate of Govt. Examinations, A.P, India	2003	Distinction	Physics, Chemistry and Mathematics
Secondary School Certificate (10 th class)	Directorate of Govt. Examinations, A.P, India	2001	Distinction	General

9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To

10. Academic/Administrative Responsibilities outside the University

Position	Institution	From	To

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11. Awards, Associateships etc.

Year of Award	Name of the Award	Awarding Organization
2017	Outstanding Research Achievement Award	Korea Institute of Materials Science (KIMS), South Korea

12. Fellowships

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)
2017	DST-INSPIRE Faculty	Department of Science & Technology, DST, Govt. of India	07/2017	07/2022
2014	Research Scientist Fellowship	Korea Institute of Materials Science (KIMS), South Korea	06/2014	06/2017
2009	Research Fellowship	MHRD, Govt. of India	06/2009	12/2014
2007	Young Scientist Research Fellow	Raja Ramanna Centre for Advanced Technology, RRCAT, Indor, India	05/2007	07/2007

13. Details of Academic Work

- (i) Curriculum Development
(ii) Courses taught at Postgraduate and Undergraduate levels

Undergraduate level:

- ✓ Engineering Physics I & II (B.Tech. First year)
- ✓ Engineering Physics Laboratory I & II (B.Tech. First year)

Postgraduate level:

- ✓ Classical Mechanics (M.Sc)
- ✓ Electronics Lab
- ✓ Advanced NDE Techniques II (M.Tech)
- ✓ Fracture Mechanics and Failures of Materials (M.Tech)

- (iii) Projects guided at Postgraduate level

- (iv) Other contribution(s)

14. Details of Major R&D Projects

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed
Conversion of Waste Energy into Useful Electricity for Wireless Sensor Nodes	Department of Science & Technology, DST, Govt. of India	07/2017	07/2022	Ongoing

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15. Number of PhDs guided

Name of the PhD Scholar	Title of PhD Thesis	Role(Supervisor/ Co-Supervisor)	Year of Award

16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)

He has participated and presented his work in the following conferences, schools and workshops:

A. INTERNATIONAL CONFERENCES

1. **V. Annapureddy**, P. Haribabu, Si-Y. Choi, J-W. Kim, and J. Ryu, “*Piezoelectric PMN-PZT Single Crystal Fiber Based Magneto-Mechano-Electric Generator*”, 2015 Fall Meeting of The Korean Ceramic Society (1st International Symposium on Emerging Functional Materials), Nov. 4-6, 2015 Incheon, South Korea.
2. **V. Annapureddy**, S-M. Na, H-Y. Lee, D-Y. Jeong, and J. Ryu, “*High-output Magneto-Mechano-Electric generator for Magnetic Energy Harvesting*”, 4th International Conference on Electronic Materials and Nanotechnology for Green Environment (ENGE 2016), Nov. 6 - 9, 2016 Jeju Island, South Korea.
3. **V. Annapureddy**, M. Choi, G-Y. Kim, J-W. Kim, K-D. Sung, S-Y. C hoi, and J. Ryu, “*Atomic and Electronic Structure of Textured Ba₃Co₂Fe₂₄O₄₁ Hexaferrite Ceramics*”, The 3rd International Conference on Advanced Electromaterials (ICAE 2015), Nov. 17-20, 2015 Jeju Island, South Korea.
4. **V. Annapureddy**, J-J. Choi and J. Ryu, “*Dependence of electrical properties of Sol–gel derived PZT thick films on crystalline orientation*”, 11th Ferroelectricity Union Symposium 2015, Feb. 2-4, 2015 Muju Resort, South Korea.
5. **V. Annapureddy**, H-Y. Lee, S-Y Choi, P. Haribabu, M. Kim, W-H Yoon, D-S. Park, J-J. Choi, B.-D. Hahn, C-W Ahn, J-W Kim, D-Y Jeong, and J. Ryu, “*Tailoring of Magneto-Mechano-Electric (MME) Coupling by Piezoelectric Property Modulation*”, The International Workshop on Piezoelectric Materials and Applications & Energy Conversion Materials and Devices 2016 (IWPMA & ECMD 2016), August 21-24, 2016 Jeju Island, South Korea.
6. **V. Annapureddy**, and R. Nath, “*Enhancement of Multiferroic Properties in Nano-heterostructured Multilayer Bismuth Ferrite Thin Films*”, Korea-Japan Ceramics 31, Nov. 26-29, 2014 Changwon, South Korea.
7. **V. Annapureddy**, Navneet Dabra, K. K. Ashish, B. Kaur, J. S. Hundal, and R. Nath, “*Enhanced Multiferroicity in Nanostructured Multiferroic-Magnetic Semiconductor Thin Films*”, Korea-Japan Ceramics 31, Nov. 26-29, 2014 Changwon, South Korea.
8. Anil K.Yadava, **V. Annapureddy**, Vivek Sharma, N. P. Pathak and R. Nath, “*Thickness Dependent Dielectric Tunable Properties of Barium Strontium Titanate Thin Films*”,

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- International Conference on Recent trends in Applied Physics & Material Science (RAM) at Bikaner, India, Feb. 01-02, 2013.
9. **V. Annapureddy**, N. P. Pathak and R. Nath, “(110)-oriented $\text{Bi}_2\text{FeCoO}_6$ Double Perovskite Films: Multiferroic at Room Temperature,” International Conference on Advances in Manufacturing Technology (ICAMT), Chennai Institute of Technology, Chennai, 15th - 17th June 2012.
 10. **V. Annapureddy**, N. P. Pathak and R. Nath, “Particle Size Dependent Magnetic Properties and Phase Transitions in BiFeO_3 Nano-particles”, 5th IEEE Magnetics Society Summer School, SRM University, Chennai, India, July 22-27, 2012.
 11. **V. Annapureddy**, N. P. Pathak, and R. Nath, “Multiferroic properties of $\text{BiCoO}_3:\text{BiFeO}_3$ composite films” International Conference on Advances in Materials and Processing Challenges and Opportunities at IIT-Roorkee, India, Nov. 02-04, 2012.
 12. **V. Annapureddy**, N. P. Pathak and R. Nath, “International School and Conference on Functional Materials”, Harish-Chandra Research Institute, Allahabad, March 28- April 3, 2011.
 13. **V. Annapureddy**, N. P. Pathak and R. Nath, “Magnetoelectric coupling in Nano-crystalline BiFeO_3 Films,” ICMS Cambridge University Winter School on Chemistry and Physics of Materials, at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India, December 5-10, 2011.
 14. **V. Annapureddy**, A. Nautiyal, N. P. Pathak and R. Nath “Dielectric properties of The $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3/\text{Poly}(\text{Vinylidene Fluoride})$ Composite Films”, International Conference on Quantum Effects in Solids of Today (I-CONQuEST), National Physical Laboratory, New Delhi, India, Dec 20 to 23, 2010.
- B. NATIONAL CONFERENCES**
15. **V. Annapureddy**, Arvind Nautiyal, K. C. Sekhar, N.P. Pathak and R. Nath, “Magnetic and Ferroelectric Properties of BiFeO_3 -PVDF Composite Films” National Conference on Smart, Electronic and Engineering Materials 2010 (SEEMs’10), March 5-6, 2010 Bathinda.
 16. **V. Annapureddy**, N. P. Pathak and R. Nath “The Capacitance-Voltage and Ferroelectric Characteristics of Multiferroic BiFeO_3 Films on Porous Silicon Observed with Interdigitated Electrodes” XVI National Seminar on Ferroelectric and Dielectrics, Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.), December 2-4, 2010.
 17. **V. Annapureddy**, N. P. Pathak and R. Nath, “Structural and Leakage Current Behavior of BiFeO_3 - BiCoO_3 Texture Films”, National Conference on Advances in Physics (NCAP-2012), at IIT-Roorkee, India Feb 25-26, 2012.
 18. **V. Annapureddy**, N. P. Pathak and R. Nath, “Ferroelectric properties of BiFeO_3 - BiCoO_3 Thin Films,” National Conference Global Upcoming on Environment Science & Engg. 2012 (GUEST’12), Punjab Technical University Giani Zail Singh Campus, Bathinda, April 13-14, 2012.
 19. **V. Annapureddy**, N. P. Pathak, and R. Nath “Study of Structural Phase Transition and Optical Properties in BiFeO_3 - BiMnO_3 Thin Films”, 57th DAE- Solid State Physics Symposium at IIT-Bombay, India, Dec. 03-07, 2012.
 20. **V. Annapureddy**, Ankur Sharma, Arvind kumar, Anil K. Yadava, N. P. Pathak, and R. Nath, “Multi-layered $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ - ($\text{BiFeO}_3:\text{LaMnO}_3$) - $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{TiO}_3$ Structure for Microwave Applications”, Futuristic and Emerging Areas in Technology : Issues and Challenges at PTU GZS Campus, Bathinda, India, 14th and 15th Feb. 2013.

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21. Anil K.Yadava, Arvind kumar, Ankur Sharma, **V. Annapureddy**, N. P. Pathak and R. Nath, “*Tunable Dielectric Properties of Ba_{0.5}Sr_{0.5}TiO₃ Thin Films for Microwave Applications*”, Futuristic and Emerging Areas in Technology : Issues and Challenges at PTU GZS Campus, Bathinda, India, 14th and 15th Feb. 2013.

C. SCHOOLS/ WORKSHOPS ATTENDED

22. ICMS Cambridge University Winter School on Chemistry and Physics of Materials at the Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bangalore, India, December 5-10, 2011.
23. International School and Conference on Functional Materials at Harish-Chandra Research Institute, Allahabad, March 28-April 3, 2011.
24. 5th IEEE Magnetics Society Summer School, SRM University, Chennai, India, July 22-27, 2012.

17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor)

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

18. Invited Talks delivered

Topic	Date	Inviting Organization
Energy Harvesting: An Emerging Technology for Self-Powered Autonomous Systems	22-09-2017	Punjab Technical University (GZSCCET), Bathinda, Punjab
Bismuth Ferrite: A Candidate Multiferroic Material for Nano-electronic Devices	27-09-2013	Indian Physics Association Roorkee Chapter
Multifunctional Nano-materials	05-10-2012	Indian Physics Association Roorkee Chapter

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date

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20. Academic Foreign Visits

Country	Duration of Visit	Programme
South Korea	From 06/2014 to 06/2017	Research Scientist

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume, page numbers & Year	Impact Factor
V. Annapureddy, S-M Na, G-T Hwang, P Haribabu, W-H Yoon, B-D Hahn, J-W Kim, C-W Ahn, D-S Park, J-J Choi, D-Y Jeong, A B. Flatau, S Priya, K-H Kim, and J Ryu	Exceeding Milli-Watt Powering Magneto-Mechano-Electric Generator for Standalone-Powered Electronics	Energy & Environmental Science	11, 818-829, 2018	29.518
P. Haribabu, D. Maurya, L. D. Geng, H-C. Song, G-T. Hwang, P. Mahesh, V. Annapureddy, Y. S. Oh, S-C. Yang, Y. U. Wang, S. Priya, J. Ryu	Enhanced self-biased magnetoelectric coupling in laser annealed Pb(Zr,Ti)O ₃ thick film deposited on Ni foil	ACS Applied Materials & Interfaces	10 (13), 11018–11025 (2018)	7.504
V. Annapureddy, Y Kim, G-T Hwang, H W Jang, S-D Kim, J-J Choi, B Cho, and J Ryu	Room-Temperature Solid-State Grown WO _{3-δ} Film on Plastic Substrate for Extremely Sensitive Flexible NO ₂ Gas Sensors (Front Cover Article)	Advanced Materials Interfaces	5, 1700811, 2018	4.279
Z Chu, V. Annapureddy, M J P Asl, P. Haribabu, J Ryu and S Dong	Review: Dual-Stimulus Magnetoelectric Energy Harvesting (Front Cover Article)	MRS Bulletin	43, 199-205, 2018	5.199
P. Haribabu, J HPark, D Maurya, P. Mahesh, G-T Hwang, V. Annapureddy, J-W Kim, J-J Choi, B-D Hahn, S Priya, K J Lee, and J Ryu	Review: Laser irradiation of metal oxide films and nanostructures: applications and advances (Front Cover Article)	Advanced Materials	30 (14), 1705148 2018.	19.791

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D. Maurya, P. Mahesh, M-G Kang, L. D. Geng, N. Sharpes, V. Annapureddy , P. Haribabu, R. Sriramdas, Y. Yan, H-C Song, Y. U. Wang, J Ryu, and S Priya	Review: Lead-Free Piezoelectric Materials and Composites for High Power Density Energy Harvesting	Journal of Materials Research	2018, In press	1.673
K-W Lim, P. Mahesh, V. Annapureddy , G-T. Hwang, J-J Choi, G-Y Kim, S N Yi and J Ryu	Energy storage characteristics of {001} oriented Pb(Zr _{0.52} Ti _{0.48})O ₃ thin film grown by chemical solution deposition	Thin Solid Films	2018 1 (10), In press	1.879
V. Annapureddya , P. Haribabu, G-T Hwang, P. Mahesh, D-Y Jeong, W-H Yoon, K-H Kim, and J Ryu	Magnetic Energy Harvesting with Magnetoelctrics: An Emerging Technology for Self-Powered Autonomous Systems (Front Cover Article) HOT Articles: From the themed collection, 2017	Sustainable Energy & Fuels- Royal Society of Chemistry	1 (10), 2039-2052, 2017	-
P. Haribabu, H G Yeo, G-T Hwang, V. Annapureddy , J-W Kim, S T-McKinsty, J Ryu	Flexible, high performance magnetoelctricheterostructure of <100>- oriented Pb(Zr _{0.52} Ti _{0.48})O ₃ film grown on Ni foil	APL Materials	5, 096111 (2017)	4.335
V. Annapureddy , P. Haribabu, W-H Yoon, D-S Park, J-J Choi, B-D Hahn, C-W Ahn, J-W Kim, D-Y Jeong, J Ryu	A pT/ $\sqrt{\text{Hz}}$ sensitivity ac magnetic field sensor based on magnetoelctric composites using low-loss piezoelectric single crystals	Sensors and Actuators A: Physical	260, 206 (2017)	2.499
V. Annapureddy , J-H Kang, P. Haribabu, J-W Kim, C-W Ahn, S-Y Choi, S D Johnson, J Ryu	Growth of self-textured barium hexaferrite ceramics by normal sintering process and their anisotropic magnetic properties	Journal of the European Ceramic Society	37, 4701–4706 (2017)	3.411
J Jung*, V. Annapureddy (*Equal Contribution), G-T Hwang, Y Song, W Lee, W Kang, J Ryu, and H Choi	High-performance Thick-film Piezoelectric Micromachined Ultrasonic Transducer by Granule Spray Vacuum in Process	Applied Physics Letters	110 (21), 212903 (2017).	3.142
P Haribabu, D Maurya, G-Y Kim, V. Annapureddy , M Noh, C-Y Kang, J-W Kim,	Unleashing the full potential of magnetoelctric coupling in film	Advanced Materials	29 (10), 1605688 (2017)	19.791

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J-J Choi, S-Y Choi, S-Y Chung, S-J L. Kang , S Priya, J Ryu	heterostructures (Back Cover Article)			
V. Annapureddy , M. Kim, H. Palneedi, H-Y. Lee, S-Y. Choi, W-H Yoon, D-S. Park, J-J Choi, B-D Hahn, C-W Ahn, J-W Kim, D-Y. Jeong, and J. Ryu	Low-loss Piezoelectric Single-Crystal Fibers for Enhanced Magnetic Energy Harvesting with Magnetolectric Composite	Advanced Energy Materials	6, 1601244 (2016)	16.721
G-T. Hwang*, V. Annapureddy * (*Equal Contribution), J. H. Han, D. J. Joe, C. Baek, D. Y. Park, D. H. Kim, C. K. Jeong, K-I Park, J-J Choi, D. K. Kim, J. Ryu	Self-powered Wireless Sensor Node Enabled by an Aerosol-deposited PZT Flexible Energy Harvester (Back Cover Article)	Advanced Energy Materials	6, 1600237 (2016)	16.721
V. Annapureddy , H-Y Lee, W-H Yoon, H-J Woo, J-H Lee, P. Haribabu, H-J Kim, D-Y Jeong, S N Yi, and J Ryu	Enhanced Magnetic Energy Harvesting Properties of Magneto-Mechano-Electric (MME) Generator by Tailored Geometry	Applied Physics Letters	109, 093901 (2016)	3.142
E. L. Tsege, G. H. Kim, V. Annapureddy , B. Kim, H-K Kim and Y-H Hwang	Flexible Lead-Free Piezoelectric Nanogenerator Based on Vertically Aligned BaTiO ₃ Nanotube Arrays on Ti-mesh Substrate	RSC Advances	6 (84), 81426-81435 (2016)	3.108
P. Haribabu, I. Choi, G-Y. Kim, V. Annapureddy , D. Maurya, S. Priya, J-W Kim, K. J. Lee, S-Y Choi, S-Y Chung, S-J L. Kang, J. Ryu	Tailoring the Magnetolectric Properties of Pb(Zr,Ti)O ₃ Film Deposited on Amorphous Metglas Foil by Laser Annealing	Journal of the American Ceramic Society	99 (8), 2680–2687 (2016)	2.841
V. Annapureddy , J. Choi, J-W. Kim, B-. D. Hahn, C.W. Ahn, and J. Ryu	Dependence of Ferroelectric Properties of Modified Spin-coating Derived PZT Thick Films on Crystalline Orientation	Journal of the Korean Ceramic Society	68, 1 (2016)	0.24
B. Kaur, L. Singh, V. Annapureddy , D-Y. Jeong, N. Dabra, and J. S. Hundal	AC Impedance Spectroscopy, Conductivity and Optical Studies of Sr doped Bismuth Ferrite Nanocomposites	International Journal of Electrochemical Science	11, 4120 (2016)	1.68
P. Haribabu*, V.	Status and Perspectives of	Actuators	5, 9 (2016)	-

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Annapureddy* (*Equal Contribution), S. Priya, and J. Ryu	Multiferroic Magnetolectric Composite Materials and Applications			
V. Annapureddy , A Kumar, L S Dev, N Kumar, R Nath	Leaf-Like-Dendritic Cesium Nitrate: Poly (Ethylene Oxide) Composite Films and Their Thermal and Ferroelectric Properties	Integrated Ferroelectrics	159 (1), 114-120 (2015)	0.457
V. Annapureddy , N. Dabra, J. S. Hundal, N. P. Pathak, and R. Nath	Structural and Multiferroic Properties of Nano-composite $Ba_{0.5}Sr_{0.5}TiO_3$ - $Bi_{0.9}La_{0.1}Fe_{0.9}Mn_{0.1}O_3$ Thin Film Heterostructures	Science of Advanced Materials	6, 1043-1051 (2014)	1.671
V. Annapureddy , N. Dabra, J. S. Hundal, N. P. Pathak, and R. Nath	Enhancement of Multiferroic Properties in Nano-Heterostructured Multilayer $Bi_{0.9}La_{0.1}Fe_{0.9}Mn_{0.1}O_3$ - $BiFeO_3$ - $Zn_{0.91}Cr_{0.09}O$ Thin Films	Science of Advanced Materials	6, 1228-1235 (2014)	1.671
V. Annapureddy , N. Dabra, Jasbir S. Hundal, N. P. Pathak and R. Nath	Tunability in Three-Component $Ba_{0.5}Sr_{0.5}TiO_3$ -Graphite- Poly (Vinylidene Fluoride) Nano-composite Films	Science of Advanced Materials	6, 235-242 (2014)	1.671
L. S. Dev, U. Verma, V. Annapureddy , L. Singh, N. Dabra, J. S. Hundal, R. Nath	Structural and Ferroelectric Studies on KNO_3 : Polyethylene Oxide Nanocomposite Films	Journal of Nanoelectronics and Optoelectronics	9 (3), 397-400 (2014)	0.48
V. Annapureddy , N. P. Pathak, and R. Nath	Magnetoelectric coupling in spray pyrolysis nanocrystalline $BiFeO_3$ films	Thin Solid Films	527, 358-362 (2013)	1.879
V. Annapureddy , N. P. Pathak, and R. Nath	Enhanced magnetoelectric coupling in transition-metal-doped $BiFeO_3$ thin films	Solid State Communications	171, 40-45 (2013)	1.62
V. Annapureddy , N. P. Pathak, and R. Nath	Domain Switching in Spray Pyrolysis Deposited Nanocrystalline $BiFeO_3$ Films	Physica Scripta	065701-04 (2012)	1.28
V. Annapureddy , N. P. Pathak, and R. Nath	Effect of pore size on ferroelectric properties of	Current Applied	12, 451-455 (2012)	2.117

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	multiferroic BiFeO ₃ films prepared on porous silicon	Physics		
V. Annapureddy , N. P. Pathak, and R. Nath,	Particle size dependent magnetic properties and phase transitions in multiferroic BiFeO ₃ nano-particles	Journal of Alloys and Compounds	543, 206-212 (2012)	3.133
V. Annapureddy , G. D. Varma, and R. Nath	Optical and electrical properties of spray pyrolysis deposited nano-crystalline BiFeO ₃ films	AIP Advances	1, 042140-0421410 (2011)	1.568

(B) Conferences/Workshops/Symposia Proceedings

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Conference Theme	Venue	Year
V. Annapureddy , N. P. Pathak, and R. Nath	Study of Structural Phase Transition and Optical Properties in BiFeO ₃ -BiMnO ₃ Thin Films	AIP Conference Proceedings	1512, 46-47 (2013)	7th DAE- Solid State Physics Symposium	IIT-Bombay, India	2013
Anil K. Yadava, V. Annapureddy , V. Sharma, N. P. Pathak, and R. Nath	Thickness dependent dielectric tunable properties of barium strontium titanate thin films	AIP Conference Proceedings	1536, 505-506 (2013)	International Conference on Recent trends in Applied Physics & Material Science (RAM)	Bikaner, India	2013
V. Annapureddy , N. P. Pathak, and R. Nath	Structural, Optical and Ferroelectric Properties of BiCoO ₃ :BiFeO ₃ composite films	Advanced Materials Research	585, 260-264 (2012)	International Conference on Advances in Materials and Processing Challenges and Opportunities	IIT-Roorkee, India	2012

(C) Books & Monographs

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number