

Resume

Personal Details

Name Atanu Nag
Date of Birth 9th September, 1984
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Nationality Indian



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Educational Qualification

Degree	Year	University/Board	Class Obtained
Ph. D.	2013	University of Kalyani	-
M. Sc.	2007	University of Kalyani	I

Current Position

Name of the Institution	Designation
IFTM University, Moradabad, India	Associate Professor & Head

Details of Ph. D. Work

Ph. D Thesis Title: “The Role of Lightning in Terrestrial and other Planetary Atmospheres and associated dynamics of the Chemical Evolution”
Date of Ph.D. Registration: January 12, 2009 **Date of Ph. D. Award:** August 08, 2013

Membership – Total 08

1. International Association of Engineers (IAENG) ((Membership No: 203788)
2. Senior Member (UACEE) of the Institute of Research Engineers and Doctors (the IRED) (Membership No: SNM10100058638 valid till 01 November, 2020)
3. Member of The Council for Global Education
4. Member of European Alliance for Innovation (EAI) (Id: 9412)
5. Engineering and Scientific Research Groups (ESRGroups) (From Oct 2017)
6. Senior Member, Hong Kong Chemical, Biological & Environmental Engineering Society (HKCBES) (Member No: 101299)

7. Citizen Science Association (CSA) (From Jan 2017)
8. International Society for Research & Development (ISRDI) (Life Member ID: SR4150900393)

Awards & Achievements

Received Dr. APJ Abdul Kalam Bhartiya Ratna Samman 2025 (An Exclusive Global Honour), Certificate No. DAPJ/WWF/2025/0368, Issuance Date: 16/06/2025.

National / International Committee Member – Total 04

1. Organizing Committee Member, DRDO Sponsored 2nd National Conference on Advanced Technologies and Environmental Safety-2022 (ATES-2022), July 23-24, 2022, IFTM University, Moradabad, UP, India.
2. International Scientific Committees, 2020 2nd International Conference on Computer, Communications and Mechatronics Engineering (CCME2020), December 20-21, 2020, Xiamen, China. [<http://www.ccme2020.org/com.html>]
3. National Review Committee, ESN - International conference on Basic and Applied Science (ESN-ICBAS), March 22, 2019 [http://esnpublications.com/conference-details.php?conference_id=23&menu_id=11]
4. National Advisory Committee Member, IEEE Technically Sponsored 2nd International conference on IoT in Social, Mobile, Analytics and Cloud (I-SMAC 2018), August 30-31, 2018, SCAD Institute of Technology, Palladam, Tamilnadu, India. [<https://i-smac.org/committee.html>]

Series Editor/Guest Editor – Total 04

1. Research Trends in Science and Technology, ISBN: 978-93-49686-74-8, Chyren Publication, Haryana, India, April 2025
2. Physical and Material Science Innovation and its Societal Impact, ISBN:978-93-48620-63-7, Bhumi Publishing, India, March 2025
3. Current Perspective in Physical and Material Science Research, ISBN: 978-93-48620-93-4, Bhumi Publishing, India, January 2025
4. Special issue on Scientific Advances for Climate Recovery, Journal: Earth Sciences; 2017

Conferences/Workshops/FDP/Webinars Organized – Total 16

1. One Week National Faculty Development Programme on Cutting Edge Technologies in Scientific and Industrial Research, 03 February to 07 February, 2025, Organized by School of Sciences, IFTM University, Moradabad, Uttar Pradesh, India
Role: Convener
2. One Week National Faculty Development Programme on Current Research and Innovation Trends in Science & Technology, 26 February to 02 March, 2024, Organized by School of Sciences, IFTM University, Moradabad, Uttar Pradesh, India
Role: Convener
3. Webinar on World Environment Day on the topic “Biodiversity and Human Well-being”, 05 June, 2022, Organized by School of Sciences, IFTM University, Moradabad, Uttar Pradesh, India
Role: Organizing Secretary
4. Workshop on “Career Development Opportunities in Higher Education”, 20 May, 2022, Organized by School of Sciences in collaboration with Mentoring and Counseling Cell, IFTM University, Moradabad, Uttar Pradesh, India
Role: Organizing Secretary
5. Workshop on “Higher Education and Industry Collaboration: Issues, Initiatives and Opportunities”, 18 May, 2022, Organized by School of Sciences in collaboration with Mentoring and Counseling Cell, IFTM University, Moradabad, Uttar Pradesh, India

- Role: Organizing Secretary*
6. Workshop on “Proficient Communication and Personality Development”, 11May, 2022, Organized by School of Sciences in collaboration with Mentoring and Counseling Cell, IFTM University, Moradabad, Uttar Pradesh, India
Role: Organizing Secretary
 7. Workshop on “Psychological Wellness and Behavior Interventions”, 25 April, 2022, Organized by School of Sciences in collaboration with Mentoring and Counseling Cell, IFTM University, Moradabad, Uttar Pradesh, India
Role: Organizing Secretary
 8. Earth Day celebration in the theme “Invest in Our Planet”, 22April, 2022, Organized by School of Sciences in collaboration with Mentoring and Counseling Cell, IFTM University, Moradabad, Uttar Pradesh, India
Role: Organizing Secretary
 9. Workshop on “Comprehensive Life Skills for Leadership Development”, 20April, 2022, Organized by School of Sciences in collaboration with Mentoring and Counseling Cell, IFTM University, Moradabad, Uttar Pradesh, India
Role: Organizing Secretary
 10. One Week Faculty Development Programme on Recent Innovations and Research Breakthroughs in Science, 21-25 February, 2022, Organized by School of Sciences, IFTM University, Moradabad, Uttar Pradesh, India
Role: Organizing Secretary
 11. Webinar Series on “Science, Technology, Innovation & Entrepreneurship”, 24 June-17 July 2020, Organized by Modern Institute of Engineering & Technology, Hooghly, West Bengal, India.
Role: Co-ordinator
 12. One week Faculty Development Program on “Effectiveness, Methodology & Assessment of Digital Education System” 08-12 June 2020, Organized by Modern Institute of Engineering & Technology, Hooghly, West Bengal, India.
Role: Co-ordinator
 13. Android Apps & Game Development Workshop Exodia’ 2016 Organized by Entrench Electronics, Modern Institute of Engineering & Technology, Hooghly, West Bengal, India, 27-28 Feb 2016.
Role: Zonal co-ordinator
 14. ROBOTRYST 2015, An International Level Championship Organized by Robosapiens Technology Pvt. Ltd., Modern Institute of Engineering & Technology, Hooghly, West Bengal, India, 23-24 February 2015.
Role: Zonal co-ordinator
 15. 2nd National Conference on Emerging Technology & Applied Sciences (NCETAS-2015), 21-22 February 2015, Modern Institute of Engineering & Technology, Hooghly, West Bengal, India.
Role: Convener
 16. National Conference on Emerging Technology & Applied Sciences (NCETAS-2014), 15-16 February 2014, Modern Institute of Engineering & Technology, Hooghly, West Bengal, India.
Role: Convener

Invited Lecture Delivered – Total 01

1. Guest lecture on the “Applications of Nanoscale Science and Technology: Current Perspectives and Future Directions” at Wilsonia Degree College, Moradabad on September 30, 2024

Edited Book Publications – Total 03

1. Research Trends in Science and Technology, *Ed: N. Singh, B. K. Singh and A. Nag*, Chyren Publication, Haryana, India, 1st Edition- April 2025, ISBN: 978-93-49686-74-8, Website: <https://www.chyrenpublication.com/>

2. Physical and Material Science Innovation and its Societal Impact, *Ed: J. P. Singh, A. Nag, L. Anandaraj and Y. K. Sharma*, Bhumi Publishing, India, 1st Edition- March 2025, **ISBN: 978-93-48620-63-7**, Website: <https://www.bhumipublishing.com/>
3. Current Perspective in Physical and Material Science Research, *Ed: J. P. Singh, S. Pal, A. Nag and Y. K. Sharma*, Bhumi Publishing, India, 1st Edition- January 2025, **ISBN: 978-93-48620-93-4**, Website: <https://www.bhumipublishing.com/>

Book Publications – Total 14

1. Power Down: Energy-Efficient VLSI Design for a Low-Energy World by D. Chaudhuri and **A. Nag**, Eliva Press, 1st Edition- January 2026, **ISBN: 978-99-99335-46-1**, website: <https://www.elivabooks.com/en/book/book-3513465767>
2. Physics (Quantum Mechanics for Engineers) (with Lab Manual) (English) by A. B. Bhattacharya and **A. Nag**, Khanna Publishing House, 1st Edition- 2025, **ISBN: 978-93-91505-25-7**, website: <https://khannabooks.com/>
3. Physics (Oscillations, Waves and Optics) (with Lab Manual) (English) by A. B. Bhattacharya and **A. Nag**, Khanna Publishing House, 1st Edition- 2025, **ISBN: 978-93-91505-13-4**, website: <https://khannabooks.com/>
4. JELET Guide Book by **A. Nag**, K. Ghosh, S. Sarkar, A. Rakshit and S. K. Shee, Naba Prakashani, 1st Edition- April 2022
5. Physics (Introduction to Electromagnetic Theory) (with Lab Manual) (English) by A. B. Bhattacharya and **A. Nag**, Khanna Publishing House, 1st Edition- 2022, **ISBN: 978-9-391-50516-5**, website: <https://khannabooks.com/>
6. Physics (Introduction to Mechanics) (with Lab Manual) (English) by A. B. Bhattacharya and **A. Nag**, Khanna Publishing House, 1st Edition- 2022, **ISBN: 978-9-391-50505-9**, website: <https://khannabooks.com/>
7. Physics (Introduction to Electromagnetic Theory) (with Lab Manual) (Hindi) by A. B. Bhattacharya and **A. Nag**, Khanna Publishing House, 1st Edition- 2022, **ISBN: 978-9-355-38130-9**, website: <https://khannabooks.com/>
8. Physics (Introduction to Mechanics) (with Lab Manual) (Hindi) by A. B. Bhattacharya and **A. Nag**, Khanna Publishing House, 1st Edition- 2022, **ISBN: 978-9-355-38133-0**, website: <https://khannabooks.com/>
9. Engineering Physics by A. B. Bhattacharya and **A. Nag**, 1st Edition- April, 2021, **ISBN: 978-9-389-13907-5**, website: <https://khannabooks.com/>.
10. Padarthabidya Vol II (Class XII, Vocational) by **A. Nag**, Naba Prakashani, 1st Edition- April, 2017
11. Padarthabidya Vol I (Class XI, Vocational) by **A. Nag**, Naba Prakashani, 1st Edition-June, 2016
12. Fundamentals of Electronics by **A. Nag** and D. Chaudhuri, Naba Prakashani, 1st Ed- September, 2015.
13. On the Science and Impact of Lightning-*Physical, Electrical & Optical Properties* by R. Bhattacharya, **A. Nag** and A. B. Bhattacharya, LAP Lambert Academic Publishing, 1st Edition- February, 2015, **ISBN: 978-3-659-35158-7**, website: www.lap-publishing.com
14. A Textbook of Basic Physics by **A. Nag**, Naba Prakashani, 1st Edition-September, 2014

Editorial/Reviewer Board Member – Total 12

1. CSIJ (Mar 2014-May 2017) [<http://aircej.org/eee/editorial.html>]
2. IJICS (Since Oct 2014) [<http://airccse.org/journal/IJICS/editorial.html>]
3. IJASS (Since Jul 2017) [<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=302>]
4. IJREE (Since Nov 2017) [<http://researchscipt.com/advisory-board/board-ijree>]
5. ANTJ (Since Jan 2018) [<http://airccse.com/antj/editorial.html>]
6. JERA (Since Feb 2018) [<http://ojs.bbwpublisher.com/index.php/JERA/about/editorialTeam>]

7. PEEE (Since May 2018) [<http://ojs.whioce.com/index.php/peee/about/editorialTeam>]
8. MECHIJ (Since Jul 2018) [http://flyccs.com/journals/MECHIJ/Editorial_Board.html]
9. ESN-Int. Journal of Basic and App. Sc. (since Dec 2018) [<http://www.esnresearch.com/editorial-boards/4>]
10. American J. of Phy. and App. (since Mar 2020) [<http://www.sciencepublishinggroup.com/journal/editorialboard?journalid=622>]
11. IJU (since May 2023) [<https://aircse.org/journal/iju/editorialboard.html>]
12. B. P. International (since Dec 2023)

Reviewer (Journal) – Total 15

1. Greener Journals (2013) [<http://www.gjournals.org/>]
2. IJAA (Mar 2017 to till date) [<http://www.scirp.org/journal/ijaa/>]
3. ASTESJ (July 2017 to till date) [<http://astesj.com/reviewer-directory/>]
4. Computer Reviews Journal (Apr 2018 to till date) [<http://purkh.com/index.php/tocomp>]
5. MathSJ (July 2018 to till date) [<http://aircse.com/mathsj/index.html>]
6. JEEER (July 2018 to till date) [<http://www.academicjournals.org/jeeer>]
7. IJCSEIT (Nov 2018 to till date) [<http://aircse.org/journal/ijcseit/ijcseit.html>]
8. ACIJ (Dec 2018 to till date) [<http://aircse.org/journal/acij/acij.html>]
9. CIVEJ (Dec 2018 to till date) [<https://www.aircse.com/civej/index.html>]
10. JAP (Mar 2019 to till date) [<https://rajpub.com/index.php/jap>]
11. HAES (Mar 2019 to till date) [<http://www.heraldopenaccess.us/journals/Atmospheric-&-Earth-Sciences/>]
12. ACS (Apr 2019 to till date) [<https://www.scirp.org/journal/acs/>]
13. IJQCSSE [IGI Global] (ad hoc reviewers) (since May 2019)
14. JENRS (since Jan 2022)
15. Bulletin of Materials Science (since Jan 2025)

Details of Research Work

Research experience:	15.5 years (Total); ~ 12 years (Post Ph. D.)		
Field of Interests:	Astronomy & Astrophysics, Atmospheric Physics, Meteorology, MPA, Low Power Design		
Research Publication:	Papers Published in Journal: 60	Papers Published in Conference: 42	
<i>(Vide Annexure- I)</i>	National: 02 International: 58	National: 17	International: 25
	Book Chapters Published: 24	Patents Published: 02	
	National + International: 24	Filed: 01	Granted: 01

Papers Published in Journal (Scopus/SCI/WoS) – Total 10

- [1] J. P. Singh, S. Pal, Y. K. Sharma, **A. Nag**, G. Dhillon, N. Kumar and J. Sahu, A Comparative Analysis of Structural, Microstructural, and Optical Characteristics of Pr³⁺-Substituted CdS and ZnO Nanoparticles, *ECS Journal of Solid State Science and Technology*, 14, 116001. <https://doi.org/10.1149/2162-8777/ae1a18> [**Scopus Indexed, WoS**] [**IF: 2.2 (2025)**]
- [2] J. P. Singh, Y. K. Sharma, **A. Nag**, S. Pal, P. Goyal and A. K. Gangwar, Optical and Electronic Characterization of CdS:Nd³⁺ Nanoparticles using Diffuse Reflectance Spectroscopy Techniques, *Journal of Optics*, ISSN: 0974-6900 (online) 0972-8821 (print), 2024, <https://doi.org/10.1007/s12596-024-02159-4> [**Scopus Indexed, SCI**] [**IF: 2.5 (2024)**]
- [3] S. Pal, J. P. Singh, Y. K. Sharma, **A. Nag**, S. C. Huang and S. L. Chung, Characterization and Properties of ZnO:Nd³⁺ Nanomaterial Synthesized by Chemical Synthesis Method, *Journal of Metastable and Nanocrystalline Materials*, Vol. 40, pp 1-13, ISSN: 2297-6620, 2024, doi:10.4028/p-M0pMsg [**Scopus Indexed**] [**IF: 0.2**]
- [4] J. P. Singh, S. Pal, Y. K. Sharma and **A. Nag**, Nd-doped CdS nano-particles: Optical band gap and Urbach energy investigations, *Journal of Optics*, ISSN: 0974-6900 (online) 0972-8821 (print), 2024, <https://doi.org/10.1007/s12596-024-01746-9> [**Scopus Indexed, SCI**] [**IF: 2.5 (2024)**]

- [5] J. P. Singh, S. Pal, **A. Nag** and Y. K. Sharma, Structural Properties, Energy Interaction and Applications of CdS Nanomaterial Doped with Rare-Earth Ions, *Macromolecular Symposia*, Vol. 413(2), pp. 2300169 (1-8) [Special Issue: 1st International Conference on Smart Nanotechnology and Advanced Polymer Sciences (SNAPS 2023)]ISSN: 1521-3900 (online) 1022-1360 (print), 2024, <https://doi.org/10.1002/masy.202300169>. (2024) [**WoS, Scopus Indexed**] [**IF: 0.91 (2024)**]
- [6] J. P. Singh, Y. K. Sharma, S. Pal and **A. Nag**, Fluorescence Study of Pr³⁺ doped CdS nanoparticles and its Applications in Sensors and Detectors, *Journal of Fluorescence*, Vol. 34, pp. 915-923, ISSN: 1573-4994 (online) 1053-0509 (print), 2024, <https://doi.org/10.1007/s10895-023-03325-w> [**Scopus Indexed, SCI**] [**IF: 3.1 (2024)**]
- [7] A. Dan and **A. Nag**, Sudden Commencements during Solar Cycles 11-24 and their Statistical trend, *Disaster Advances*, Vol. 13(12), pp 66-74, ISSN: 2278-4543 (online) 0974-262X (print), 2020 [**Scopus Indexed, Geobase (Elsevier)**] [**IF: 0.341 (2020)**]
- [8] **A. Nag**, On the prediction and analysis of pre-monsoon thunderstorms and its meteorological associations, *Indian Journal of Physics*, Vol. 93, pp. 1515-1525, ISSN: 0974-9845 (online) 0973-1458 (print), 2019, <https://doi.org/10.1007/s12648-019-01407-9> [**Scopus Indexed, SCI**] [**IF: 1.407 (2019)**]
- [9] A. B. Bhattacharya, K. Roy, J. Pandit and **A. Nag**, Automated PC-based control and monitoring of Radio observations using LPDA, *Procedia Technology*, Vol. 10, pp. 348 – 355, ISSN: 2212-0173, 2013, <https://doi.org/10.1016/j.protcy.2013.12.370>. [**WoS**]
- [10] R. Bhattacharya, **A. Nag**, R. Guha, A. Bhoumick, S. De and A. B. Bhattacharya, Solar Eclipse Effects of 22 July 2009 on the Propagation of Radio Signals, *Indian Journal of Physics*, Vol. 84(11), pp 1587-1595, ISSN: 0974-9845 (online) 0973-1458 (print), 2010, <https://doi.org/10.1007/s12648-010-0143-7> [**Scopus Indexed, SCI**] [**IF: 0.226 (2010)**]

Papers Published in Conference Proceedings (Scopus/SCI/WoS)– Total 05

- [1] K. Roy, D. Chaudhuri, **A. Nag**, B. Roy, S. K. Bishnu, S. Ray, A. Biswas and S. Chatterjee, Implementation of a Dual Band Antenna for Satellite Communication, *2020 4th International Conference on Electronics, Materials Engineering & Nano-Technology (IEMENTech)*, Kolkata, India, 2020, pp. 1-3, doi: 10.1109/IEMENTech51367.2020.9270050. (2020) [**IEEE Explore**]
- [2] P. Ghosh, K. Roy, **A. Nag**, R. Priya and N. Hasan, A Novel Inset Fed Patch Antenna with Defecting Ground Plane. In: Choudhury S., Mishra R., Mishra R., Kumar A. (eds) *Intelligent Communication, Control and Devices. Advances in Intelligent Systems and Computing*, vol 989., pp. 405-414, Springer, Singapore, ISBN: 978-981-13-8617-6 (Print), 978-981-13-8618-3 (online), https://doi.org/10.1007/978-981-13-8618-3_43, (2020) [**Scopus Indexed**] [**IF: 0.57**]
- [3] D. Chaudhuri, K. Roy and **A. Nag**, Comparison of Different SRAM Cell Topologies Using 180 nm Technology, In: U. Biswas et al. (eds.), *Advances in Computer, Communication and Control*, Lecture Notes in Networks and Systems, Vol 41, pp. 391-400, Springer, Singapore, ISBN: 978-981-13-3121-3, https://doi.org/10.1007/978-981-13-3122-0_38, (2019) [**Scopus Indexed**]
- [4] **A. Nag**, K. Roy and D. Chaudhuri, A Crown-Shaped Microstrip Patch Antenna for Wireless Communication Systems, In: Kalam A., Das S., Sharma K. (eds) *Advances in Electronics, Communication and Computing*, Lecture Notes in Electrical Engineering, Vol 443, pp. 399-405, Springer, Singapore, ISBN: 978-981-10-4765-7, https://doi.org/10.1007/978-981-10-4765-7_42, (2018) [**Scopus Indexed, WoS**] [**IF:0.34**]
- [5] K. Roy, D. Chaudhuri, S. Bose and **A. Nag**, A Novel Dual Band Antenna for Radar Application, *Proceedings of 3rd International Conference on Advanced Computing, Networking and Informatics (ICACNI 2015)*, Volume 2”, Smart Innovation, Systems and Technologies, Vol. 44, pp. 643-649, https://doi.org/10.1007/978-81-322-2529-4_66, Springer, India, (2015) [**Scopus Indexed**] [**IF:0.59**]

Book Chapters– Total 24

- [1] **A. Nag** and D. Chaudhuri (2026). Smart Nanomaterials: Innovations in Energy, Environment, and Medicine. In: Acharyya, A., Sarkar, A., Aleksandrova, M. (eds) *Next-Generation High-Speed*

- Electronics and Optoelectronics. Lecture Notes in Electrical Engineering, vol 1511. pp 423–450, Springer, Singapore. https://doi.org/10.1007/978-981-95-4415-8_20
- [2] D. Chaudhuri and **A. Nag** (2026). 2D Materials for Post-CMOS Electronics: Opportunities, Challenges, and a Holistic Roadmap. In: Acharyya, A., Sarkar, A., Aleksandrova, M. (eds) Next-Generation High-Speed Electronics and Optoelectronics. Lecture Notes in Electrical Engineering, vol 1511. pp 329–354, Springer, Singapore. https://doi.org/10.1007/978-981-95-4415-8_16
- [3] B. K. Yadav, **A. Nag** and Pooja, Late-Time Cosmic Acceleration in Modified Gravity Models. In: Mukul Kumar Baruah, Rahul Kanti Nath and Joyobrato Nath (Eds.), Transdisciplinary Science: Mapping the Future of Research. Excellent Publishers, India. pp. 1-14. **ISBN: 978-93-94174-62-7** (2025) https://doi.org/10.20546/978-93-94174-62-7_1
- [4] R. Singh, N. Tiwari, B. K. Singh, **A. Nag** and A. Dubey, Convictional Onset in Ferrofluid Layer Through a Darcy-brinkman Porous Medium, *Physical Science: New Insights and Developments, Vol. 2, Ed: Prof. Koji Nagata*, pp. 57-69, BP International, India, **ISBN: 978-81-990550-6-3**, (2025) [10.9734/bpi/psniad/v2/5992](https://doi.org/10.9734/bpi/psniad/v2/5992)
- [5] J. P. Singh, R. Kumar, D. Deepak, **A. Nag**, V. Kumar and B. K. Singh, Nano-Urea Effect on India's Sustainable Agriculture, *Innovative Research in Agricultural Science, Ed: Dr. Ranvir Kumar, Dr. Suman Kalyani, Mr. Sagar Lokhande*, pp. 146-151, Bhumi Publishing, India, **ISBN: 978-93-48620-18-7**, (2025)
- [6] D. Chaudhuri, **A. Nag** and Shalu C., Energy Efficient Digital VLSI Design Techniques, *Advances in Engineering Science and Applications, Ed: Dr. B. C. Chanyal, Dr. S. Prayla Shyry, Dr. Vikas Gupta, Er. Atul Goyal*, pp. 47-61, Bhumi Publishing, India, **ISBN: 978-93-48620-62-0**, (2025)
- [7] M. Kumar, A. Singh, N. Singh, P. Paneru, J. P. Singh, **A. Nag**, B. K. Yadav, R. Saxena and V. Goyal, Perovskite Solar Cells: Fundamentals, Advancements, and Future Prospects, *Physical and Material Science Innovation and its Societal Impact, Ed: Jitendra Pal Singh, Atanu Nag, L. Anandaraj and Y. K. Sharma*, pp. 59-70, Bhumi Publishing, India, **ISBN: 978-93-48620-63-7**, (2025)
- [8] B. K. Yadav, **A. Nag**, N. Singh, J. P. Singh, A. Singh, M. Kumar, V. Goyal, P. Paneru, V. K. Sharma and M. M. Verma, Gravitational Waves in Modified Gravity Models, *Physical and Material Science Innovation and its Societal Impact, Ed: Jitendra Pal Singh, Atanu Nag, L. Anandaraj and Y. K. Sharma*, pp. 43-51, Bhumi Publishing, India, **ISBN: 978-93-48620-63-7**, (2025)
- [9] A. Singh, M. Kumar, P. Paneru, J. P. Singh, **A. Nag**, N. Singh, B. K. Yadav, R. Saxena and V. Goyal, Cluster Radioactivity: A Twenty-Year Perspective, *Physical and Material Science Innovation and its Societal Impact, Ed: Jitendra Pal Singh, Atanu Nag, L. Anandaraj and Y. K. Sharma*, pp. 34-42, Bhumi Publishing, India, **ISBN: 978-93-48620-63-7**, (2025)
- [10] P. Paneru, M. Kumar, V. Goyal, A. Singh, M. Kumar, **A. Nag**, J. P. Singh, N. Singh and B. K. Yadav, Nanoscale Materials: Properties, Synthesis, Characterization and Applications, *Physical and Material Science Innovation and its Societal Impact, Ed: Jitendra Pal Singh, Atanu Nag, L. Anandaraj and Y. K. Sharma*, pp. 9-25, Bhumi Publishing, India, **ISBN: 978-93-48620-63-7**, (2025)
- [11] S. Verma and **A. Nag**, Statistical Studies of Lightning Hotspots over India, *Current Perspective in Physical and Material Science Research, Ed: Jitendra Pal Singh, Sudha Pal, Atanu Nag and Y. K. Sharma*, pp. 112-121, Bhumi Publishing, India, **ISBN: 978-93-48620-93-4**, (2025)
- [12] R. Raj and **A. Nag**, Some Studies on Extreme Weather Events in two Northern Indian States Himachal Pradesh and Uttarakhand, *Current Perspective in Physical and Material Science Research, Ed: Jitendra Pal Singh, Sudha Pal, Atanu Nag and Y. K. Sharma*, pp. 105-111, Bhumi Publishing, India, **ISBN: 978-93-48620-93-4**, (2025)
- [13] N. Rastogi and **A. Nag**, On Some Global Trend of Atmospheric Pollutants and their Future Consequences, *Current Perspective in Physical and Material Science Research, Ed: Jitendra Pal*

- Singh, Sudha Pal, Atanu Nag and Y. K. Sharma, pp. 93-104, Bhumi Publishing, India, **ISBN: 978-93-48620-93-4**, (2025)
- [14] J. P. Singh, S. Pal, Y. K. Sharma, **A. Nag**, R. Saxena and N. Singh, Synthesis, Characterization and Application of CdS:Pr³⁺ nano-material, *Futuristic Trends in Chemical Material Sciences & Nanotechnology*, IIP Book Series (IIPV3EBS06_G89), Vol. 3 Book 23 Part 3 Chapter 5, pp. 217-223 **eISBN: 978-93-5747-532-7**(2024)
- [15] D. Nandi and **A. Nag**, On some statistical study of thunderstorms during pre-monsoon, *Water Resources: Current and Future Challenges and Research Directions*, Creative Incorporate, Ed: Malabika Biswas Roy, Hirok Chowdhury, Pankaj Kumar Roy and Asis Majumdar, pp. 102-110, **ISBN: 978-81-941009-4-2**, (2020)
- [16] **A. Nag** and A. Dan, Design of a Solar radio spectrograph for acquisition, control and recording of Solar bursts, *Proceedings of International Conference on Advance Concepts of Engineering, Applied Science and Management (ICACEASM-19)*, pp. 90-94, **ISBN: 978-93-87433-49-6** (2019)
- [17] K. Roy, **A. Nag**, D. Chaudhuri and S. Bose, A Novel Dual Band Antenna for C and X band Satellite Communication, *International Conference on Electrical, Electronics, Signals, Communication and Optimization (EESCO)-2015*, **ISBN: 978-1-4799-7676-8**, 978-1-4799-7678-2/15/\$31.00 ©2015 IEEE, January 24-25, pp 953-955, (2015)
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Programme Committee Member/Reviewer – Total 86

1. *Program Committee Member*, 18th International Conference on Networks & Communications (NeCoM 2026), April 25-26, 2026, Copenhagen, Denmark [<https://necom2026.org/committee>]
2. *Program Committee Member*, 14th International Conference on Soft Computing (SCOM 2026), April 18-19, 2026, Melbourne, Australia [<https://scom2026.org/committee>]
3. *Program Committee Member*, 9th International Conference on Electrical and Electronics Engineering (ICEEE 2026) March 30-31, 2026, Virtual Conference [<https://iceee2026.org/committee>]
4. *Program Committee Member*, 6th Int. Conf. on AI, Machine Learning and Applications (AIMLA 2026), March 21-22, 2026, Sydney, Australia [<https://www.cnet2026.org/aimla/committee>]
5. *Reviewer*, 3rd International Conference on Advancements and Key Challenges in Green Energy and Computing (AKGEC2026), February 26-28, 2026, Department of Electrical & Electronics Engineering, Ajay Kumar Garg Engineering College, Ghaziabad, India
6. *Program Committee Member*, 14th International Conference of Advanced Computer Science & Information Technology (ACSIT 2026), February 14-15, 2026, Chennai, India [<http://acsit2026.org/committee#>]
7. *Program Committee Member*, 11th International Conference of Networks, Communications, Wireless and Mobile Computing (NCWC 2025), November 08-09, 2025, Melbourne, Australia [<https://csen2025.org/ncwc/committee>]
8. *Program Committee Member*, 6th International Conference on Advances in Software Engineering (ASOFT 2025), October 25-26, 2025, Vienna, Austria [<https://csity2025.org/asoft/committee>]
9. *Program Committee Member*, Int. Conference on Advanced Nanoscience and Technology (ANaNO 2024), September 14-15, 2024, Virtual Conference. [<https://www.itca2024.org/anano/committee>]
10. *Program Committee Member*, Int. Conf. on Advances in Materials Science and Engineering (CAMSE 2024), September 14-15, 2024, Virtual Conference. [<https://www.itca2024.org/camse/committee>]
11. *Program Committee Member*, 10th International Conference on Data Mining and Applications (DMA 2024), April 20-21, 2024, Melbourne, Australia. [<https://www.cosit2024.org/dma/committee>]
12. *Program Committee Member*, 11th Int. Conf. on Computer Science and Information Technology (CoSIT 2024), April 20-21, 2024, Melbourne, Australia. [<https://www.cosit2024.org/committee>]

13. *Program Committee Member*, 8th International Conference on Recent advances in Physics (PHY 2024), May 11-12, 2024, Virtual conference. [<https://www.phy2024.org/committee>]
14. *Program Committee Member*, 12th Int. Conf. on Foundations of Computer Science & Technology (FCST 2024), April 27-28, 2024, Copenhagen, Denmark. [<https://mech2024.org/committee>]
15. *Program Committee Member*, Int. Conference on Advances in Materials Science and Engineering (CAMSE 2024), April 13-14, 2024, Virtual Conference. [<https://camse2024.org/committee>]
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18. *Program Committee Member*, 11th Int. Conference on Artificial Intelligence and Applications (AIAP 2024), Zurich, Switzerland, January 20-21, 2024. [<https://ccseit2024.org/aiap/committee>]
19. *Program Committee Member*, 9th Int. Conference on Recent Trends in Mechanical Engineering (RTME 2024), January 13-14, 2024, Virtual Conference. [<https://rtme2024.org/committee>]
20. *Program Committee Member*, 7th International Conference on Electrical Engineering (ELEC 2024), January 13-14, 2024, Virtual Conference [<https://elec2024.org/committee>]
21. *Program Committee Member*, International Conference on Information Science and Techniques (ISTECH 2023), December 30-31, 2023, Virtual Conference. [<https://istech2023.org/committee>]
22. *Program Committee Member*, Int. Conference on Computer Science, Information Technology & AI (CSITAI 2023), December 30-31, 2023, Virtual Conference. [<https://csitai2023.org/committee>]
23. *Program Committee Member*, 11th Int. Conf. on Cryptography and Int. Security (CRYPIS 2022), Jul 23-24, 2022, Toronto, Canada. [<https://www.itcse2022.org/crypis/committee>]
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26. *Program Committee Member*, 8th Int. Conf. on Advances in Comp. Sc. and Information Tech. (ACSTY 2022), Jan 22 - 23, 2022, Zurich, Switzerland. [<https://acsty2022.org/committee>]
27. *Program Committee Member*, 2nd Int. Conf. on Software Engg. and Managing Inf. Tech. (SEMIT 2021), Nov 20 - 21, 2021, Zurich, Switzerland. [<https://iccsea2021.org/semit/committee>]
28. *Program Committee Member*, 7th Int. Con. of Networks, Communications, Wireless and Mobile Comp. (NCWC 2021), Oct 23 - 24, 2021, Sydney, Australia. [<https://cse2021.org/ncwc/committee>]
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33. *Program Committee Member*, 10th International Conference on Ubiquitous Computing (UBIC 2019), Dec. 21-22, 2019, Dubai, UAE. [<https://iccsea2019.org/ubic/committee.html>]
34. *Program Committee Member*, 9th Int. Conf. on Digital Image Processing and Pattern Recognition (DPPR 2019), Dec 21-22, 2019, Sydney, Australia. [<https://cndc2019.org/dppr/committee.html>]
35. *Program Committee Member*, 9th International Conference on Computer Science, Engineering and Applications (ICCSEA-2019), Dec 21-22, 2019, Dubai, UAE [<https://iccsea2019.org/committee.html>]

36. *Program Committee Member*, 5th International Conference on VLSI and Applications (VLSIA-2019), Nov 30-Dec 01, 2019, Dubai, UAE [<https://csty2019.org/vlsia/committee.html>]
37. *Program Committee Member*, 11th International Conf. on Networks & Communications (NeTCoM - 2019), Nov 23-24, 2019, Zurich, Switzerland. [<https://cseit2019.org/netcom/committee.html>]
38. *Program Committee Member*, 5th International Conference on Fuzzy Logic Systems (Fuzzy 2019), Oct 26-27, 2019, Dubai, UAE [<https://csea2019.org/fuzzy/committee.html>]
39. *Reviewer*, The 9th Int. Conference on Electronics, Communications and Networks (CECNet 2019), October 18-21, Kitakyushu, Japan. [<http://www.cecnetconf.org/Reviewers.html>]
40. *Program Committee Member*, 6th Int. Conference on Advanced Computing (ADCO 2019), Aug 24-25, 2019, Vienna, Austria [<https://necom2019.org/adco/committee.html>]
41. *Program Committee Member*, 5th Int. Conference on Signal Processing (SP 2019), Aug 24-25, 2019, Vienna, Austria [<https://necom2019.org/sp/committee.html>]
42. *Program Committee Member*, 7th Int. Conf. on Control, Modelling, Computing and Applications (CMCA 2019), Aug 24-25, 2019, Vienna, Austria [<https://necom2019.org/cmca/committee.html>]
43. *Program Committee Member*, 8th International Conference on Embedded Systems and Applications (EMSA 2019), July 13-14, 2019, Toronto, Canada [<https://ccsea2019.org/emsa/committee.html>]
44. *Reviewer*, 9th International Conference on Computer Science, Engineering and Applications (CCSEA 2019), July 13-14, 2019, Toronto, Canada [<https://ccsea2019.org/index.html>]
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46. *Program Committee Member*, 5th International Conference on Recent Trends in Electrical Engineering (RTEE-2019), June 22-23, 2019, Dubai, UAE [<https://csit2019.org/rtee/committee.html>]
47. *Reviewer*, 6th International Conference on Artificial Intelligence and Applications (AIAP-2019), May 25-16, 2019, Vancouver, Canada [<https://ccseit2019.org/aiap/index.html>]
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55. *Technical Review Committee Member & Sub-Reviewer*, IEEE International Conference on Circuits and Systems in Digital Enterprise Technology (ICCSDET 2018), December 21-22, 2018, Kerala, India [<http://www.iccsdet.com/technical-review-committee-members/>]
56. *Reviewer*, 8th International Conference on Computer Science and Information Technology (CCSIT 2018), November 24-25, Dubai, UAE. [<https://ccsit2018.org/index.html>]
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58. *Program Committee Member*, 6th International Conference on Artificial Intelligence, Soft Computing (AISC 2018), November 24-25, Dubai, UAE. [<https://ccsit2018.org/aisc/committee.html>]

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60. *Program Committee Member & Reviewer*, 3rd International Conference on Civil Engineering (CiViE-2018), November 24-25, Dubai, UAE [<https://ccsit2018.org/civie/committee.html>].
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63. *Program Committee Member*, 3rd Int. Conference on Soft Computing, Mathematics and Control (SMC 2018), August 25-26, 2018, Dubai, UAE. [<https://csen2018.org/noncs/smc/committee.html>]
64. *Program Committee Member & Reviewer*, 5th International Conference on Computer Science and Engineering (CSEN-2018), August 25-26, 2018, Dubai, UAE. [<https://csen2018.org/committee.html>]
65. *Program Committee Member*, 4th Int. Conference on Artificial Intelligence and Soft Computing (AISO 2018), August 25-26, 2018, Dubai, UAE. [<https://csen2018.org/aiso/program.html>]
66. *Program Committee Member*, 5th International Conference on Signal and Image Processing (Signal 2018), July 14-15, 2018, Chennai, India. [<https://icaita18.org/signal/Committee.html>]
67. *Program Committee Member & Reviewer*, Second Int. Conference on Mechanical Engineering (MEC 2018), April 28-29, 2018, Dubai, UAE. [<http://aisca2018.org/mec/committee.html>]
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69. *Reviewer*, 2nd International Conference on Networks & Communications (NETWORKS-2018), April 28-29, 2018, Dubai, UAE. [<http://csea2018.org/networks/Index.html>]
70. *Program Committee Member*, 4th Int. Conf. on Signal, Image Processing and Embedded Systems (SIGEM 2018), April 28-29, 2018, Dubai, UAE. [<http://csea2018.org/sigem/programcommitte.html>]
71. *Program Committee Member*, 2nd International Conference on Networks and Security (NSEC 2018), April 28-29, 2018, Dubai, UAE. [<http://csea2018.org/nsec/Committee.html>]
72. *Reviewer*, 5th International Conference on Signal Processing (CSIP 2018), March 24-25, 2018, Geneva, Switzerland [<http://cse2016.org/2018/csip/index.html>].
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74. *Program Committee Member and Reviewer*, 5th International Conference on Signal and Image Processing (SIGL 2018), Feb 24-25, 2018, Dubai, UAE. [<http://cosit2018.org/sigl/Committee.html>]
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77. *Program Committee Member and Reviewer*, Third International Conf. on Advances in Computer Science and Information Technology (ACSTY-2017), December 30-31, 2017, Dubai, UAE. [<http://csen2016.org/D2017/ACSTY2017/committee.html>]
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79. *PC Member*, Second International Conference on Trends in Mechanical Engineering (MECE-2017), December 30-31, 2017, Dubai, UAE. [<http://csen2016.org/D2017/MECE2017/committee.html>]

80. *Sub-Reviewer*, International Conference on Computer, Electrical & Communication Engineering (ICCECE 2017), December 22-23, 2017, Techno India University, Kolkata, West Bengal, India.
81. *Program Committee Member*, 2nd International Conference on Electrical Engineering (ELEN 2017), November 25-26, 2017, Vienna, Austria. [<http://csen2017.org/MEN2017/committee.html>]
82. *Program Committee Member and Reviewer*, Second International Conference on Circuits & Systems (CIRSY-2015), August 28-29, 2015, Dubai, UAE. [<http://csen2015.org/cirsy/committee.html>]
83. *Program Committee Member*, International Conference on Electrical Engineering (ELEN-2015), March 28-29, 2015, Bangalore, India. [<http://cosit2015.org/elen/program.html>]
84. *Program Committee Member*, International Conference on Electrical & Computer Engineering (E&C-2015), February 14-15, 2015, Bangalore, India. [<http://iidco.org/2015/ece/committee.html>]
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