

## Dr. Dinesh Kumar Chaudhary



### Contact Address:

- Assistant Professor, Amrit Campus, Tribhuvan University (TU), Kathmandu, Nepal. P.O. Box:- 102

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Orcid ID: <https://orcid.org/0000-0002-7174-2912>

Google Scholar: <https://scholar.google.com/citations?user=080ab0AAAAAJ&hl=en&oi=ao>

Research Gate: [https://www.researchgate.net/profile/Dinesh-Chaudhary-4?ev=hdr\\_xprf](https://www.researchgate.net/profile/Dinesh-Chaudhary-4?ev=hdr_xprf)

### Academic Qualification:

- 2024-2025 Post-Doctorate (Physics), Atomic Energy Centre Dhaka, Bangladesh
- 2023 Ph. D. (Physics), Tribhuvan University, Kathmandu, Nepal.
- 2002 M. Sc. (Physics), Tribhuvan University, Kathmandu, Nepal.
- 2000 B. Sc. (Physics), Tribhuvan University, Kathmandu, Nepal.

### Memberships:

- Nepal Physical Society (Life Member)
- IEEE EDS Society (Membership Number: 96436815)
- Tribhuvan University Alumni Association Nepal (Life Member)

### Work Experience:

- Teaching to B.Sc. physics courses at Physics Department of Amrit Campus since 2004
- Teaching to M.Sc. Physics courses at Physics Department of Amrit campus since 2010

- Research work at Amrit Campus, Tribhuvan University
- Research work at Materials Science Division, Atomic Energy Centre Dhaka, Bangladesh, Fellowship provided by International Science Program (ISP), Uppsala University, Sweden.

### **Trainings & Workshops:**

- Participation in “*Training Workshop on Scientific Writing*” June 21-25, 2018, Organised by Research Centre for Applied Science and Technology (RECAST), Tribhuvan University (TU), Kathmandu, Nepal
- Participation in “*Instrumentation Training for University Teachers*” 27-29 December, 2017, organised by Nepal Academy of Science and Technology (NAST), Lalitpur, Nepal.
- Participation in “*Orientation and Teachers Training for M.Sc. 3<sup>rd</sup> and 4<sup>th</sup> Semester*” May 3-7, 2016, at Pokhara, Organised by Institute of Science and Technology (IOST), Tribhuvan University (TU).
- Participation in “*Three day Orientation Program of Third Year B.Sc. courses in Physics*”, June 26- 28, 2014, Organised by Institute of Science and Technology (IOST), Tribhuvan University(TU).
- Participation in “*Workshop on Laboratory set up of M.Sc. Physics*” Jan 28-30, 2011, Organised by Amrit Campus, Tribhuvan University (TU), Kathmandu, Nepal.
- Participation in “*Workshop on Application of space science*” Jul 9-10, 2011, Organised by Centre of Space Science and Technology Education in Asia Pacific (CSSTEAP), Kathmandu, Nepal
- Participation in “*Training on Physics teaching at B.Sc. level at T.U.*” July 2-4, 2010, Amrit Campus, Tribhuvan University (TU), Kathmandu Nepal.
- Participation in the “*Faculty Capacity Enhancement (FCE) program*” “Organized during 20-26 Asar 2081(4-10 july, 2024) by Institute of Science & Technology, Tribhuvan University, Nepal.

### **Research Activity:**

- Mini- Reseach on “*Preparation of Thin Film Tin Sulphide and Study its Electrical and Optical Properties for Solar Cell Application*” under the financial support of University Grant Commission (UGC), Bhaktapur, Nepal (2011).

- Mini-Research on “*Synthesis and Characterization of Fe-doped ZnO nano-films using Spin Coating Technique*” under financial support of Institute of Science and Technology (IoST), Tribhuvan University (T.U.), Nepal (2018).
- Ph.D. Research on “*Study on Electrical and Optical Properties of Zinc Oxide Semiconductor for Gas Sensor Application*”, for Ph. D. degree, Institute of Science and Technology (IoST), Tribhuvan University (T.U.), Nepal (2018).
- Post-doctoral Research on “**Designation and Preparation of Experimental Set up of Spray Pyrolysis, Spin Coating and Gas Sensing Devices to Synthesize of Ferrite Nanoparticles and Thin Films for Gas Sensor Applications**” Atomic Energy Centre Dhaka Bangladesh (2024).

## **Reviewer of national and international Journals**

### ***National Journals:***

1. Amrit Research Journal (ARJ)
2. Journal of Nepal Physical Society (JNPS)
3. Scientific World
4. Journal of Institute of Science and Technology

### ***International journals:***

1. Scientific Reports (Q1), Springer Nature
2. Journal of Alloys and Compounds (Q1), Elsevier
3. Microchimica Acta (Q1), Springer Nature
4. Materials Research Express (MRX) (Q2), IOP
5. Journal of Sol-Gel Science and Technology (Q2), Springer Nature
6. Optical and Quantum electronics (Q2), Springer Nature
7. Sensing and Imaging (Q2), Springer Nature
8. Interaction, Springer Nature
9. Discover Applied Science (Q2), Springer Nature
10. Physica Scripta (Q2), IOP
11. Next Research, Elsevier (Proposed Editor board member)
12. Next Materials (Q1), Elsevier
13. Sensor and Actuators A: Physical (Q1), Elsevier
14. Journal of Materials Science: Materials in Electronics (Q2), Springer nature
15. Advances in Natural Sciences: Nanoscience and Nanotechnology (Q2), IOP

### **Research Grants/Awards:**

- 1) Mini research grant by University Grant Commission, Nepal (November 2011) entitled “Synthesis and characterization of SnS thin film for Solar cell applications”.

- 2) **Mini research grant by Institute of science and Technology, Tribhuvan University, Kirtipur (August 2018) entitled “Synthesis and characterization of Fe-doped ZnO nano films using spin coating technique”.**
- 3) **“Post-Doctoral Research Fellowship” by International Science Program, Upssala University, Sweden through BAN-02 grant, Dhaka, Bangladesh.**
- 4) **“Secomd Best Presenter Award” by Royal Society of Chemistry in the “The 8th Asian Conference on Colloid & Interface Science (ACCIS-2019), Sept. 24-27, 2019, Pulchowk Campus, Institute of Engineering, Tribhuvan University, Lalitpur, Kathmandu, Nepal”.**
- 5) **Best Invited speaker award in the “National Conference on Student and Faculty Academic Improvement Initiative Program and Development of Science, Society and Industry”, 11-13 Poush, 2082.**

## Conferences:

### International Conferences

- 1) Poster presentation entitled **“Influence of Fe doping into ZnO thin film for detection of ethanol vapor”** in the **International Meeting on Energy Storage Devices and Academia conclaves (IMESD-2018)**, held at Department of Physics, Indian Institute of Technology (IIT) Roorkee, Uttarakhand, December 18-20, 2018.
- 2) Oral presentation entitled **“Study on influence of Fe doping into ZnO film for ethanol sensing”** in **First International Conference on Advances in Physical Sciences and Materials (ICAPSM-2020)**, 13-14, August, 2020, Coimbatore, India.
- 3) Oral presentation entitled **“Effect of Atmospheric Dielectric Barrier Discharge on Optical, Electrical and Surface Properties of ZnO Film”** in **First International Conference on Modern Materials for Engineering and Research (ICMMER-2022)**, 29-30, September, 2022, Tiruchengoda, Tamilnadu, India.
- 4) Participated in **“International Symposium on History and Future of Transistors”** organized by **The National Academy of Sciences India-Delhi Chapter**, Deen Dayal Upadhyay College (University of Delhi) under the aegis of DBT Star College Program, IEEE Electron Device Society (EDS) Delhi Chapter, India, December 30, 2021.
- 5) Delivered a talk as an **invited speaker** entitled **“Impact of Fe & Sn into ZnO for ethanol sensing”** as an invited speaker in **“Sensors Research e-Conference 2022 (Sensors-eCon2022)”** November 21, 2022(London) - November 22, 2022 (Tokyo) Online, organized by The Research Catalyst.  
Organizing Committee:
  - (i) Marshal Porterfield Purdue University, USA
  - (ii) Jiangguo Jack Wang University of Technology Sydney, Australia
  - (iii) Hsiao-Chun Wu Louisiana State University, USA.

- 6) Participated in “***International Energy 2021-Conference On Renewable Energy and Digital Technologies for Development of Africa***” organized by Ministry of Scientific Research and Innovation, Yaoundé, Cameroon during 18-20 November, 2021. This program was supported by International Science Program (ISP), Uppsala University, Sweden.
- 7) Oral Presentation in “**9<sup>th</sup> Conference of Bangladesh Crystallographic Association held on 10-11 January 2024**” at A.F. Mujibur Rahaman Ganit Bhaban, University of Dhaka.
- 8) Oral Presentation entitled “**impact of fe-codoping on the ethanol Sensing efficacy of al-doped zno – based gas sensor**” in “**2nd International Conference on Advances in Condensed and Nano Materials (ICACNM - 2025)**”, Department of Physics, Panjab University Chandigarh, India, 27th October to 30th October 2025

### National Conferences

- 1) Participated in the “***Training Workshop on Scientific Writing***” program organized by RECAST, Tribhuvan University Kathmandu Nepal, during June 21-25, 2018.
- 2) Poster presentation entitled “***Optical and Surface Characterization of Thin Films of Semiconductors Tin Sulphide and Zinc Oxide***” in International conference on exploration in Physics (ICEP-2018), 29-31 May, 2018 Kathmandu, Nepal.
- 3) Poster presentation entitled “***Fe Doped ZnO Thin Film for Ethanol Vapour Detection***” in *4th International Conference Kathmandu Symposia on Advanced Materials (KaSAM-2018)* held in Kathmandu, Nepal during October 26 -29, 2018.
- 4) Oral presentation entitled “***Study of Structural and Optical Properties of Fe Doped ZnO Thin Films Prepared by Spin Coating Method***” in *International Conference on Nano-Science and High Energy Physics (ICNHEP-2019)*, Feb 4-6, 2019, Central Department of Physics, Tribhuvan University, Kathmandu, Nepal.
- 5) Oral presentation entitled “***Study on Preparation and Properties of Fe doped ZnO as a Vapour Sensor***” in *The 8th Asian Conference on Colloid & Interface Science (ACCIS-2019)*, Sept. 24-27, 2019, Pulchowk Campus, Institute of Engineering, Tribhuvan University, Lalitpur, Kathmandu, Nepal.

At this conference, I was awarded ***second best presenter award*** by Royal Society of Chemistry Books.

- 6) Oral presentation entitled “***Study on Ethanol Vapour Sensing Performance of ZnO Prepared by different methods***” in *International Conference on Material Science and Characterization Technology (ICMSCT-2021)*, September 26-28, 2021, organized by Department of Physics, St. Xavier’s College, Kathmandu, Nepal.

- 7) Oral presentation entitled “*Gas Sensing Characteristics of ZnO Film*” in *International Conference on Frontiers of Physics (ICFP- 2022)*, 22-24 Jan, 2022, Kathmandu, Nepal, organized by Nepal Physical Society, Nepal.
- 8) Oral presentation entitled “*Fe-Al doped ZnO film: A Highly Sensitive Ethanol Sensing*” in *National Conference on Recent Trends in Science, Technology and Innovation (RTSTI-2022)*, 29-30, May, 2022, Pokhara, Nepal.
- 9) Oral presentation entitled “*Deposition of Sn-doped ZnO for ethanol sensing*” in “*National Conference on Advances in Atmospheric & Material Science, 6-7 November 2022*, Amrit Campus, Tribhuvan University, Lainchour, Kathmandu, Nepal.
- 10) Oral Presentation entitled “*Sensing efficacy of ZnO film towards ethanol and acetone vapours*” in International Conference on Physics for Sustainable Energy (ICPSE-2023), September 22-23, 2023, Kathmandu, Nepal.
- 11) Oral presentation entitled “*A Highly Sensitive Fe-Al Co-doped ZnO-based Ethanol Sensor*” in International Conference on Lightning Electromagnetics and Application of Semi-Conducting Materials (ICLEASM-2023), 04-06 October 2023, Kathmandu, Nepal.
- 12) Oral presentation as an **invited speaker** entitled “**Gas Sensing Efficacy of ZnO Film: Metal Doping Effect**” in “**National Conference on Student and Faculty Academic Improvement Initiative Program and Development of Science, Society and Industry**”, 11-13 Poush, 2082.

### Publications:

#### Book:

- 1) “*An introduction to Quantum Mechanics*”, Prof. Dr. Jeevan Jyoti Nakarmi and **Dinesh Kumar Chaudhary**, Heritage Publishers and Distributors Pvt. Ltd., Bhotahity, Kathmandu, Nepal (2010).
- 2) Chapter-1 of book “*Industrial Materials*” (2022), publisher: Trans Tech Publicatins Limited, Switzerland.
- 3) Chapter-1 of book “*Functional and Special Materials*” (2023), Publisher: Scientific Net, Trans Tech Publicatins Limited, Switzerland.

### Research Articles:

#### In National Journals:

S.N.	Title	Rank/Year	Author Status
1.	Joshi, S. K., <b>Chaudhary, D. K.</b> , Al-Mamun, M., Hoque, S. M., Adhikari, S. P., Dhakal, R. P., & Adhikari, R. (2025). <b>Boehmite</b>	2025	Co-Author

	Nanoparticle-enhanced Jatropha Oil Nanofluid: Synthesis, Stability, and Viscosity Analysis. <i>Journal of Nepal Chemical Society</i> , 45(2), 125-134.		
2.	<b>Chaudhary, D. K.</b> , Maharjan, Y. S., Amatya, S. P., Shrestha, S. P., Parajuli, R., Shrestha, P., & Joshi, L. P. (2022). <b>Sensing Characteristics of ZnO Nanoparticle Film towards Acetone.</b> <i>Journal of Institute of Science and Technology</i> , 27(1): 135-140. <a href="https://doi.org/10.3126/jist.v27i1.40866">https://doi.org/10.3126/jist.v27i1.40866</a> .	**/ 2022	1 <sup>st</sup>
3.	Baduwal, H. B., Shrestha, P., <b>Chaudhary, D. K.</b> , Mulmi, D. D., & Joshi, L. P. (2020). <b>Effect of Acid Treatment in Dye Loading Capacity of Spin Coated ZnO Film.</b> <i>Amrit Research Journal</i> , 1, 95-100.	2020	Co-Author
4.	<b>Chaudhary, D. K.</b> , Shrestha, P., & Chitrakar, R. L. (2017). <b>Optical and Surface Characterization of Thin Film of Tin Sulphide Prepared by Chemical Bath Deposition,</b> <i>Amrit Journal</i> , 1, 5-7.	2017	1st

### In International Journals:

S.N.	Title	Rank/Author	Author Status
1.	<b>Chaudhary, D. K.</b> , JOSHI, S. K., & DHAKAL, A. (2025). <b>Sensing Efficacy of ZnO Film towards Ethanol and Acetone.</b> <i>Jordan Journal of Physics</i> , 18(2), 197-206.	Q4/2025	1 <sup>st</sup> and Corresponding
2.	Acharya, T. R., Kattel, P., Lamichhane, P., <b>Chaudhary, D. K.</b> , Joshi, L. P., Lamichhane, P., ... & Chalise, R. (2025). <b>Impact of Gliding Arc Discharge Plasma on Physical, Optical, and Electrical Properties of ZnO Thin Film.</b> <i>Plasma Processes and Polymers</i> , 22(12), 70084.	Q2/2025	Co-Author
3.	<b>Chaudhary, D. K.</b> , Shrestha, R., Panthi, Y. R., Slouf, M., Joshi, L. P., & Shrestha, S. P. (2025). <b>Improvement in the Gas Detection Capacity of ZnO-based Sensor: Impact of Static Potential.</b> <i>Journal of nano- and electronic Physics</i> , 17 (4), 04009	Q3/2025	1 <sup>st</sup> and Corresponding
4.	<b>Chaudhary, D. K.</b> , Joshi, S. K., & Shrestha, R. (2024). <b>A highly sensitive and selective ZnO-based ammonia sensor: Fe-doping effect.</b> <i>Physica Scripta</i> , 99(11), 1159103.	Q2/2024	1 <sup>st</sup> and Corresponding
5.	Acharya, T. R., <b>Chaudhary, D. K.</b> , Lamichhane, P., Joshi, S. K., Gautam, S., Kaushik, N., ... & Kaushik, N. K. (2024). <b>Impact of Aluminum doping on the enhanced ethanol gas sensing characteristics of ZnO thin film.</b> <i>Ceramics International</i> , 50(24), 55143-55158.	Q1/2024	1 <sup>st</sup> and Corresponding
6.	<b>Chaudhary, D. K.</b> , Joshi, S. K., Thapa, S., Yue, Y., & Zhu, P. (2024). <b>Enhancement in the Sensing Efficacy of ZnO-based Ethanol Sensor: Fe-ZnO Film.</b> <i>Journal of nano- and electronic Physics</i> , 16(2) 02011.	Q3/2024	1 <sup>st</sup> and Corresponding
7.	<b>Chaudhary, D. K.</b> , Acharya, T. R., Shrestha, R., Gautam, S., Shrestha, P., Dhakal, A., ... & Joshi, L. P. (2024). <b>Wide-range ethanol sensor based on a spray-deposited nanostructured ZnO and Sn-doped ZnO films.</b> <i>Sensors and Actuators A: Physical</i> , 370 115213.	Q1/2024	1 <sup>st</sup>
8.	Lawati, D. R., Neupane, H. K., <b>Chaudhary, D. K.</b> , Shrestha, P., Adhikari, R. P., Joshi, L. P., & Parajuli, R. (2023). <b>Structural, mechanical, electronic and optical properties of MgZnO<sub>3</sub> perovskite: First-principles study.</b> <i>Journal of Physics and</i>	Q1/2023	Co-Author

	<i>Chemistry of Solids</i> , <b>181</b> 111547. <a href="https://doi.org/10.1016/j.jpms.2023.111547">https://doi.org/10.1016/j.jpms.2023.111547</a>		
9.	Pudasaini, A., Chalise, R., Shrestha, P., Joshi, L. P., Khanal, R. & <b>Chaudhary, D. K.*</b> (2023). <b>Effect of Atmospheric Dielectric Barrier Discharge on Optical, Electrical and Surface Properties of ZnO Film.</b> <i>Advanced Materials Research</i> , <b>1176</b> , 43-50. <a href="https://www.scientific.net/AMR.1176.43">https://www.scientific.net/AMR.1176.43</a>	SJR indexed/2023	Corresponding
10.	Tiwari, G. P., Adhikari, S., Lamichhane, H. P., & <b>Chaudhary, D. K.*</b> (2023). <b>Natural bond orbital analysis of dication magnesium complexes [Mg (H<sub>2</sub>O)<sub>6</sub>]<sub>2</sub> and [[Mg (H<sub>2</sub>O)<sub>6</sub>](H<sub>2</sub>O)<sub>n</sub>]<sub>2</sub>; n= 1-4.</b> <i>AIMS Biophysics</i> , <b>10</b> (1) 121–131. DOI: 10.3934/biophy. 2023009	Q3 (now Q4) 2023	Corresponding
11.	Acharya, T. R., <b>Chaudhary, D. K.</b> , Gautam, S., Singh, A. K., Shrestha, R., Adhikari, B. C., ... & Choi, E. H. (2023). <b>Influence of nanoparticle size on the characterization of ZnO thin films for formaldehyde sensing at room temperature.</b> <i>Sensors and Actuators A: Physical</i> , <b>351</b> , 114175. <a href="https://doi.org/10.1016/j.sna.2023.114175">https://doi.org/10.1016/j.sna.2023.114175</a>	Q1/ 2023	2 <sup>nd</sup> Author
12.	Besar Riyadi, T. W., Sivaraman, R., Hussein Wais, A. M., Altalbawy, F., Khudanov, U. O., & <b>Chaudhary, D. K.*</b> (2023). <b>Mechanism of Imprinting Process in the Ni-P Metallic Glass Films: A Molecular Dynamics Study.</b> <i>Advances in Materials Science and Engineering</i> , <b>2023</b> . <a href="https://doi.org/10.1155/2023/6232579">https://doi.org/10.1155/2023/6232579</a>	Q2/ 2023	Corresponding
13.	Lawati, D. R., Neupane, H. K., Chaudhary, D. K., Shrestha, P., Adhikari, R. P., Joshi, L. P., & Parajuli, R. (2023). <b>Structural, mechanical, electronic and optical properties of MgZnO<sub>3</sub> perovskite: First-principles study.</b> <i>Journal of Physics and Chemistry of Solids</i> , <b>181</b> , 111547.	Q1/2023	Co-author
14.	<b>Chaudhary, D. K.</b> , Kshetri, M. B., Thapa, S., & Joshi, S. K. (2022, December). <b>Optical, Structural and Ethanol Sensing Properties of Spin-Coated ZnO Film.</b> <i>Materials Science Forum</i> , <b>1074</b> , 107-116). <a href="https://www.scientific.net/MSF.1074.107">https://www.scientific.net/MSF.1074.107</a>	Q4/ 2022	1 <sup>st</sup> and Corresponding
16.	<b>Chaudhary, D. K.</b> , Maharjan, Y. S., Shrestha, S., Maharjan, S., Shrestha, S. P., & Joshi, L. P. (2022). <b>Sensing Performance of a ZnO-based Ammonia Sensor.</b> <i>Journal of Physical Science</i> , <b>33</b> (1) 97-108. <a href="https://doi.org/10.21315/jps2022.33.1.7">https://doi.org/10.21315/jps2022.33.1.7</a>	Q3/2022	1 <sup>st</sup> author
17.	Chandrasekaran, S., Satyanarayana Gupta, M., Jangid, S., Loganathan, K., Deepa, B., & <b>Chaudhary, D. K.*</b> (2022). <b>Unsteady radiative Maxwell fluid flow over an expanding sheet with sodium alginate water-based copper-graphene oxide hybrid nanomaterial: an application to solar aircraft.</b> <i>Advances in Materials Science and Engineering</i> , <b>2022</b> . <a href="https://doi.org/10.1155/2022/8622510">https://doi.org/10.1155/2022/8622510</a>	Q2/2022	Corresponding
18.	Ahmad, I., Zan-Ul-Abadin, Q., Faisal, M., Loganathan, K., Javed, T., & <b>Chaudhary, D. K.*</b> (2022). <b>Prescribed thermal activity in the radiative bidirectional flow of magnetized hybrid nanofluid: Keller-Box approach.</b> <i>Journal of Nanomaterials</i> . <b>2022</b> 1-16. <a href="https://doi.org/10.1155/2022/5531041">https://doi.org/10.1155/2022/5531041</a>	Q2/2022	Corresponding

19.	Sri, P. A., ThamaraiKannan, N., Loganathan, K., & <b>Chaudhary, D. K.*</b> (2022). <b>Double Domination and Regular Domination in Intuitionistic Fuzzy Hypergraph</b> . <i>Journal of Mathematics</i> , 2022. <a href="https://doi.org/10.1155/2022/1436194">https://doi.org/10.1155/2022/1436194</a>	Q3/2022	Corresponding
20.	Ali, F., Loganathan, K., Eswaramoorthi, S., Prabu, K., Zaib, A., & <b>Chaudhary, D. K.*</b> (2022). <b>Heat transfer analysis on carboxymethyl cellulose water-based cross hybrid nanofluid flow with entropy generation</b> . <i>Journal of Nanomaterials</i> , 2022. <a href="https://doi.org/10.1155/2022/5252918">https://doi.org/10.1155/2022/5252918</a>	Q2/2022	Corresponding
21.	Ali, F., Loganathan, K., Prabu, E., Eswaramoorthi, S., Faizan, M., Zaib, A., & <b>Chaudhary, D. K.*</b> (2022). <b>Entropy Minimization on Sutterby Nanofluid past a Stretching Surface with Swimming of Gyrotactic Microorganisms and Nanoparticles</b> . <i>Mathematical Problems in Engineering</i> , 2022. <a href="https://doi.org/10.1155/2022/5759671">https://doi.org/10.1155/2022/5759671</a>	Q2/2022	Corresponding
22.	Joshi, L. P., Khatri, B. V., Gyawali, S., Gajurel, S., & <b>Chaudhary, D. K.*</b> (2021). <b>Green Synthesis of Zinc Oxide Nanoparticles Using Ixora Coccinea Leaf Extract for Ethanol Vapour Sensing</b> . <i>Journal of Physical Science</i> , 32(2) 15-26. <a href="https://doi.org/10.21315/jps2021.32.2.2">https://doi.org/10.21315/jps2021.32.2.2</a>	Q3/2021	Corresponding
23.	Acharya, T. R., <b>Chaudhary, D. K.</b> , Lamichhane, P., Wahab, R., Shrestha, B., Joshi, L. P., ... & Choi, E. H. (2021). <b>Study on the Synthesis of ZnO Nanoparticles Using Azadirachta indica Extracts for the Fabrication of a Gas Sensor</b> . <i>Molecules</i> , 26(24) 7685. <a href="https://doi.org/10.3390/molecules26247685">https://doi.org/10.3390/molecules26247685</a>	Q1/2021	2 <sup>nd</sup>
24.	ThamaraiKannan, N., Karthikeyan, S., <b>Chaudhary, D. K.*</b> , & Kayikci, S. (2021). <b>Analytical investigation of magnetohydrodynamic non-Newtonian type Casson nanofluid flow past a porous channel with periodic body acceleration</b> . <i>Complexity</i> , 2021 1-17. <a href="https://doi.org/10.1155/2021/7792422">https://doi.org/10.1155/2021/7792422</a>	Q1/2021	Corresponding
24.	ThamaraiKannan, N., Karthikeyan, S., & <b>Chaudhary, D. K.*</b> (2021). <b>Significance of MHD radiative non-Newtonian nanofluid flow towards a porous channel: a framework of the Casson Fluid Model</b> . <i>Journal of Mathematics</i> , 2021 1-15. <a href="https://doi.org/10.1155/2021/9912239">https://doi.org/10.1155/2021/9912239</a>	Q3/2021	Corresponding
25.	<b>Chaudhary, D. K.</b> , Ghimire, R., Amatya, S. P., Shrestha, S. P., & Joshi, L. P. (2020, December). <b>Study on influence of Fe doping into ZnO film for ethanol sensing</b> . <i>Journal of Physics: Conference Series</i> , 1706 012036). IOP Publishing. <a href="https://iopscience.iop.org/article/10.1088/1742-6596/1706/1/012036/pdf">https://iopscience.iop.org/article/10.1088/1742-6596/1706/1/012036/pdf</a>	Q4/2020	1 <sup>st</sup>
26.	Adhikari, D. R., Khatri, S., <b>Chaudhary, D. K.</b> , & Lamichhane, H. P. (2019). <b>The Gibb's Free Energy and Magnetic Susceptibility of Samarium Chalcogenides (SmX, X= S, Se and Te)</b> . <i>Eurasian</i>	Q4/2019	Co-Author

	<i>Journal of Physics and Functional Materials</i> , <b>3(3)</b> 269-278. <a href="https://doi.org/10.29317/ejpfm.2019030309">https://doi.org/10.29317/ejpfm.2019030309</a>		
27.	Thamaraikannan, N., Karthikeyan, S., Chaudhary, D. K., & Kayikci, S. (2021). <b>Analytical investigation of magnetohydrodynamic non-Newtonian type Casson nanofluid flow past a porous channel with periodic body acceleration.</b> <i>Complexity</i> , 2021(1), 7792422.	Q1/2021	Corresponding Author
28.			