

Curriculum Vitae



Name & Address: Dr. Subhash Baburao Kondawar

Senior Professor, Department of Physics,
Rashtrasant Tukdoji Maharaj Nagpur University,
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Date of birth: 15/10/1965

Educational qualifications:

- **B.Sc.** (Physics, Mathematics, Chemistry) from R.T.M. Nagpur University, Nagpur **1986**
- **M.Sc.** in **Physics** (with specialization in Solid State Physics and Digital Electronics) from R.T.M. Nagpur University, Nagpur **1988**
- **Ph.D.** in Faculty of Science and Technology (**Physics**) from R.T.M. Nagpur University, Nagpur, January **2004**

Topic of Ph.D. Thesis: ***"Investigation on Thermodynamic Behavior and Physico-chemical Properties of Conducting Polymers"***

Teaching experience:

- Working as **Senior Professor**, Department of Physics, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur from **June 23, 2023**.
- Worked as **Professor**, Department of Physics, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur from **September 25, 2012** to **June 22, 2023**.
- Worked as **Associate Professor**, Department of Physics, Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur from **September 25, 2009** to **September 24, 2012**.
- Worked as **Lecturer** (Selection Grade), Department of Physics, Shri Shivaji Education Society Amravati's Science College, Congress Nagar, Nagpur from **June 17, 2003** to **September 24, 2009**.
- Worked as **Lecturer**, Department of Physics, Nabira Mahavidyalaya, Katol, Dist. Nagpur, from **November 19, 1988** to **June 16, 2003**.

Research experience:

- Recognized Ph.D. Supervisor in RTMNU: **From December 2004**
- Ph.D. degree awarded candidates: **28**, Ongoing registered candidates: **03**
- Research area: Conducting Polymers, Nanomaterials, Nanocomposites, Nanofibers, Biosensors, Gas sensors, Supercapacitors, Batteries, Photoluminescence.
- Research papers published in International Journals: **111**
- Books and Chapters publication: **2** (Books) and **20** (Book Chapters)
- Invited Talk delivered in International Conferences abroad: **Singapore, China, Turkey, Sweden, USA, South Korea, Taiwan**

Sponsored Research projects undertaken in RTM Nagpur University:

- **Minor Research Project:** Principal Investigator; Title: “Studies on Conducting Polymer Composite Materials for Advanced Technologies” UGC, No. F 47-351/2004 completed (01 April 2005 to 31 Mar. 2007) (Grant-in-Aid Rs. 65,000/-)
- **Major Research Project:** Principal Investigator; Title: “Synthesis, Characterization and Properties of Advanced Materials – Conducting Polymer Nanocomposites” UGC, New Delhi No. F 33-7/2007(SR) completed (01 April 2007 to 31 Mar. 2010) (Grant-in-Aid Rs. 8,19,300/-)
- **Innovative Research Based Project:** Course Coordinator for “P. G. Diploma in Nanotechnology” under INNOVATIVE PROGRAMME – Teaching and Research in Interdisciplinary and Emerging Areas, UGC No.F.14-11/2008(Inno./ASIST) Completed at Shivaji Science College, Nagpur (01 April 2008 to 31 March 2013) (Grant-in-Aid Rs. 50,00,000/-)
- **Major Research Project:** Principal Investigator; Title: “Fabrication and Characterizations of electrospun nanofibers of conducting polymer nanocomposites” UGC, New Delhi No. F 39-540/2010(SR) Completed (01 Feb. 2011 – 31 Jan. 2014) (Grant-in-Aid Rs. 8,02,000/-)
- **DST-FIST Project:** Project Coordinator; Department of Science and Technology, New Delhi, No. SR/FST/PSI-178/2012 Completed (April 2013 – March 2018) (Grant-in-Aid Rs. 1,47,00,000/-)
- **University Research Project:** Principal Investigator; Title: “Kinetic modeling on removal of sulfonated dyes from aqueous solutions by adsorption using conducting polymer nanocomposites” No. Dev./RTMNURP/AH/1672(11) Completed (01 April 2017 to 30 March 2019) (Grant-in-Aid Rs. 3,00,000/-)

Chairman / Keynote / Invited Speaker in International Conferences Abroad:

- *International Conference on Nanomaterials and Advanced Composites (NAC 2019) at National Taiwan University of Science and Technology, Taipei, Taiwan (09-11 August 2019)*
- *International Conference on Physics and Mechanics of New Materials and Their Applications (PHENMA-2018) at Busan, South Korea (09 – 11 September 2018)*
- *American Advanced Materials Congress (AAMC-2016) at Miami, Florida, USA (04 – 09 December 2016)*
- *Advanced Materials World Congress (AMWC-2015) at Stockholm, Sweden (23 – 26 August 2015)*
- *Advanced Materials World Congress (AMWC-2013) at Cesme-Izmir, Turkey (16 – 19 September 2013)*
- *International Conference on Materials for Advanced Technology (ICMAT-2013) Singapore (30 June – 05 July 2013)*
- *1st International Congress on Advanced Materials (AM2011) at University of Jinan, Jinan City, Shandong, China (13- 16 May 2011)*

List of Ph.D. Students Guided

Degree Awarded

1. Ms. Shubhangi D. Bompilwar (**Ph.D. awarded – 22 August 2011**)
Title: "Transport Properties of Organic Conducting Polymers - Inorganic Semiconductor Nanocomposites"
2. Ms. Vandana A. Khatri (**Ph.D. awarded – 04 July 2012**)
Title: "Magnetic and Electrical conductivity studies of conducting polymer – semiconductor composites materials"
3. Ms. Arati I. Nandapure (**Ph.D. awarded – 20 October 2012**)
Title: "Magnetic and transport properties of conducting polymer nanoferrite composites"
4. Ms. Bharati I. Nandapure (**Ph.D. awarded – 09 April 2013**)
Title: "Investigation on Magnetic behaviour and Electrical properties of conducting polymer nano-oxide composites"
5. Mr. Ajay D. Dahegaonkar (**Ph.D. awarded – 30 March 2014**)
Title: "Surface Morphology, Conductivity and Dielectric behaviour of conducting polymer - fly ash composites"
6. Mr. Milind D. Deshpande (**Ph.D. awarded – 18 May 2015**)
Title: "Synthesis and characterization of nanocomposites based on conducting polymer and carbon nanotubes"
7. Ms. Shikha P. Agrawal (**Ph.D. awarded – 17 June 2015**)
Title: "Preparation and characterization of electrospun fibers of nanocomposites based on conducting polymers"
8. Mr. Suyog M. Pethe (**Ph.D. awarded – 17 June 2015**)
Title: "Synthesis and characterization of conducting polymer nanofibers"
9. Mr. Shrikant H. Nimkar (**Ph.D. awarded – 18 March 2016**)
Title: "Investigation on conducting polymer nanocomposites for gas sensing point of view"
10. Ms. Bhavana H. Meshram (**Ph.D. awarded – 09 November 2016**)
Title: "Development of biosensor based on enzyme immobilized conducting polymers"
11. Mr. Ashish P. Mahajan (**Ph.D. awarded – 20 April 2017**)
Title: "Development of enzyme based biosensors for heavy metal ion determination and environmental monitoring on water pollution"
12. Ms. Ritu P. Mahore (**Ph.D. awarded – 01 January 2018**)
Title: "Electrochemical performance of electrospun nanofibers of MnO₂/CNTs embedded conducting polymer nanocomposites for supercapacitor"
13. Ms. Prerna R. Modak (**Ph.D. awarded – 29 July 2018**)
Title: "Investigation on Conducting Polymer-Graphene Nanocomposites for Electromagnetic Interference Shielding"
14. Ms. Yogita C. Mahant (**Ph.D. awarded – 20 February 2019**)
Title: "Development of Nanofibers of PVDF Electrolytes for Lithium Ion Batteries"
15. Mr. Anand M. More (**Ph.D. awarded – 31 May 2019**)
Title: "Investigation on hydrogen gas sensor based on Ag/Pd doped SnO₂ embedded polyaniline nanofibers"
16. Ms. Manjusha P. Dandekar (**Ph.D. awarded – 31 May 2019**)
Title: "Photoluminescence properties of electrospun nanofibers of Eu(TTA)₃phen/polymer composites"

17. **Ms. Sangita G. Itankar (Ph.D. awarded – 23 July 2019)**
Title: "Photoluminescence properties of electrospun Eu^{3+} ion-doped polymer nanofibers"
18. **Ms. Hemlata J. Sharma (Ph.D. awarded – 27 September 2019)**
Title: "Investigation on Nanofibers of Al-Doped SnO_2 Conducting Polymer Nanocomposites for Hydrogen Gas Sensor"
19. **Mrs. Rajashri S. Anwane (Ph.D. awarded – 27 September 2019)**
Title: " NH_3 and HCl sensing characteristics of electrospun nanofibers of conducting polymer blends"
20. **Ms. Pallavi T. Patil (Ph.D. awarded – 11 November 2019)**
Title: "Development of Chemiresistors based on Electrospun Nanofibers of Conducting Polymer Nanocomposites for LPG Sensor"
21. **Ms. Monali V. Bhute (Ph.D. awarded – 31 July 2020)**
Title: "Development of electrospun nanofibrous organic/inorganic hybrid nanocomposite polymer electrolyte for lithium ion battery"
22. **Ms. Priyanka D. Virutkar (Ph.D. awarded – 09 March 2021)**
Title: "Fabrication of Enzymatic Biosensor Based on Conducting Polymer Nanocomposites for Pesticides Detection"
23. **Ms. Diptee V. Jamkar (Ph.D. awarded – 03 August 2021)**
Title: "Electrochemical Performance of Polyacrylonitrile (PAN) Based Electrospun Carbon Nanofibers"
24. **Ms. Meenakshi Nikam (Ph.D. awarded – 05 October 2021)**
Title: "Development & Characterization of Phosphors for High Dose Dosimetry"
25. **Mrs. Chaitali N. Pangul (Ph.D. awarded – 05 January 2022)**
Title: "Photoluminescence properties of rare earth ion doped ZnO nanofibers"
26. **Mr. Rounak R. Atram (Ph.D. awarded – 06 October 2022)**
Title: "Electrochemical properties of electrodes based on carbon nanofibers with mixed transition metal chalcogenides and conducting polymer for supercapacitor"
27. **Ms. Nayana D. Sonwane (Ph.D. awarded – 06 October 2022)**
Title: "Development of Room Temperature Gas Sensor Based on Polyaniline Coated Electrospun Mixed Transition Metal Oxide Nanofibers"
28. **Ms. Mahelaua Huque (Ph.D. awarded – 01 August 2023)**
Title: "Electrospun rare earth ion doped complex metal oxide light emitting nanofibers"

Ongoing Students Registered

1. **Ms. Khushbu A. Rathi (Date of Registration – 20/01/2020)**
Title: "Photoluminescence and Mechanical Properties of Electrospun Yttrium Aluminium Garnet (YAG) Nanofibers"
2. **Mr. Parikshit T. Choudhary (Date of Registration – 20/01/2020)**
Title: "Electrospun Metal Doped Titanium Dioxide Nanofibers Based Conducting Polymer Nanocomposites for Photodegradation of Organic Dyes"
3. **Mr. Shubham D. Ghumde (Date of Registration – 16/03/2022)**
Title: "Electrochemical Study of Mxene Decorated with Transition Metal Chalcogenides for Supercapacitor Electrode"

Membership/Fellowship of Learned Academic Bodies:

- Chairman, BOS Physics, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur
- Member of Academic Council, Rashtrasant Tukadoji Maharaj Nagpur University
- Member of BOS, Dr. Homi Bhabha State University, Mumbai
- Member of BOS, Guru Ghasidas Central University, Bilaspur
- Member of BOS, S. B. Jain Institute of Technology and Research, Nagpur
- Member of Research Recognition Committee (RRC), Sant Gadge Baba Amravati University
- Member, Indian Science Congress Association
- Member, Indian Association of Physics Teachers
- Member, International Association of Advanced Materials
- Member, Organization for Industrial Spiritual and Cultural Advancement International
- Vice-President, Vidarbha Universities Physics Teachers Association

Honors / Awards:

- **“Advanced Materials Letters Scientist Award – 2013”**, by International Association for Advanced Materials (IAAM) at Advanced Materials World Congress (AMWC-2013) **Cesme-Izmir, Turkey** on 18 September 2013.
- **“International Outstanding Scientist Award - 2020”** by VDGGOOD, India on 26 September 2020 at Hyderabad
- **“Best Researcher Award – 2020”**, by Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur on 26 January 2021
- **“Vidarbha Bhushan Award – 2022”**, by Yashvant Bharti Lokkalyan Sanstha NGO, Nagpur on 27 December 2022

Books and Chapters Publications:

1. **Book:** “Conducting Polymer Nanocomposites for Supercapacitor”, **Subhash Kondawar, Smithers Rapra Publishing, London, United Kingdom, 184 pages, 2015, ISBN: 10191024239X,**
<http://www.smithersrapra.com/products/books/latest-releases/conducting-polymer-nanocomposites-for-supercapacit>
2. **Book:** “Conducting Polymer Nanocomposites: Synthesis, Characterisations and Applications” **Subhash B. Kondawar** and Hemlata J. Sharma, **Studera Press Publishing, Delhi, India, 226 pages, 2016, ISBN: 9789385883200,**
<http://www.studeraappress.com/shop/status/forthcoming/conducting-polymer-nanocomposites-synthesis-characterizations-and-applications/>
3. **Book Chapter:** “Impact of doping on mechanoluminescence”, Mahelaqua A. Haque, Mahejabeen A. Haque, **Subhash B. Kondawar**, In: Vikas Dubey, Dirk Poelman, Neha Dubey, Megha Jain (eds) [Mechanoluminescence in Organic and Inorganic Compounds](#) pp 77–106, Elsevier Publ. **2024**, ISBN: 978-0-323-95301-6, <https://doi.org/10.1016/B978-0-323-95301-6.00009-3>
4. **Book Chapter:** “Application of Electrospun Polyaniline (PANI) Based Composites Nanofibers for Sensing and Detection”, Sonwane, N.D., Kondawar, S.S., Gayakwad, P.V., **Kondawar, S.B.** In: Vaseashta, A., Bölgen, N. (eds) [Electrospun Nanofibers](#) pp 491–517, Springer, Nature Publ. **2022**, ISBN: 978-3-030-99957-5, https://doi.org/10.1007/978-3-030-99958-2_18
5. **Book Chapter:** “Structure and properties of 2D materials in general and their importance to energy storage”, Chapter – 2, Rounak R. Atram, **Subhash B. Kondawar**, Dattatray J. Late, **Elsevier Publishing, 2021**, Book Title: [Fundamentals and Supercapacitor Applications of 2D Materials](#), pp 11-75, ISBN: 978-0-12-821993-5. <https://doi.org/10.1016/B978-0-12-821993-5.00007-8>

6. **Book Chapter:** “Polymer Nanofibers via Electrospinning for Flexible Devices - Chapter - 3”, **Subhash B. Kondawar**, C. N. Pangul, M. A. Haque, **Springer Publishing, 2021**, Book Title: “Electrospun Nanofibers: Fabrication, Functionalisation and Applications”; pp 53-86; ISBN: 978-3-030-79978-6; https://doi.org/10.1007/978-3-030-79979-3_3
7. **Book Chapter:** “Electrospun Nanofibers for Coating and Corrosion- Chapter - 5”, **Subhash B. Kondawar**, H. J. Sharma, S. M. Giripunje, P. S. More; **Springer Publishing, 2021**, Book Title: “Electrospun Nanofibers: Fabrication, Functionalisation and Applications”; pp 119-145; ISBN: 978-3-030-79978-6; https://doi.org/10.1007/978-3-030-79979-3_5
8. **Book Chapter:** “Application of Electrospun Materials in Batteries”, Chapter – 15, Subhash B. Kondawar and Monali V. Bhute, © **2020 Scrivener Publishing LLC**, Book Title: [Electrospun Materials and Their Allied Applications](#), pp 415-439, Print ISBN:9781119654865 |Online ISBN:9781119655039, <https://doi.org/10.1002/9781119655039.ch15>
9. **Book Chapter:** “Application of Electrospun Materials in LEDs”, Chapter – 5, Subhash B. Kondawar, Mahelaqua A. Haque and Chaitali N. Pangul, © **2020 Scrivener Publishing LLC**, Book Title: [Polymers for Light-Emitting Devices and Displays](#), pp 99-123, Print ISBN:9781119654605 |Online ISBN:9781119654643, <https://doi.org/10.1002/9781119654643.ch5>
10. **Book Chapter:** “LPG Sensing Properties of Electrospun In-Situ Polymerized Polyaniline/MWCNT Composite Nanofibers”, Chapter -1, Pallavi T. Patil, **Subhash B. Kondawar**, Pravin S. More, **Springer Proceeding in Physics, 242**, 3-18, **2020**, ISBN: **978-981-15-2294-9**, https://doi.org/10.1007/978-981-15-2294-9_1
11. **Book Chapter:** “Colour Tunable Photoluminescence from Samarium and Dysprosium Co-doped ZnO Nanofibers”, Chapter -2, Chaitali N. Pangul, Shyamkant W. Anwane and **Subhash B. Kondawar**, **Springer Proceeding in Physics, 242**, 19-30, **2020**, ISBN: **978-981-15-2294-9**, https://doi.org/10.1007/978-981-15-2294-9_2
12. **Book Chapter:** “Electromagnetic Interference Shielding Effectiveness of Graphene Based Conducting Polymer Nanocomposites, Chapter -3, Perna R. Modak, Deoram V. Nandanwar and **Subhash B. Kondawar**, **Springer Proceeding in Physics, 242**, 31-40, **2020**, ISBN: **978-981-15-2294-9**, https://doi.org/10.1007/978-981-15-2294-9_3
13. **Book Chapter:** “Comparative Study of Dye Removal Using PANI/TiO₂ and PANI/GNS Nanocomposites”, Chapter -8, Jitendra N. Ramteke, Neha V. Nerkar and **Subhash B. Kondawar**, **Springer Proceeding in Physics, 242**, 87-94, **2020**, https://doi.org/10.1007/978-981-15-2294-9_8
14. **Book Chapter:** “Electrospun Eu(TTA)₃Phen/Polymer Blend Nanofibers for Photoluminescent Smart Fabrics”, Chapter -9, Manjusha P. Dandekar, Sangeeta G. Itankar, Deoram V. Nandanwar and **Subhash B. Kondawar**, **Springer Proceeding in Physics, 242**, 95-106, **2020**, ISBN: **978-981-15-2294-9**, https://doi.org/10.1007/978-981-15-2294-9_9
15. **Book Chapter:** “Influence of Polymer in Photoluminescence Properties of Electrospun Eu³⁺ Doped Polymer Nanofibers, Chapter -10, Sangeeta G. Itankar, Manjusha P. Dandekar, Pankaj M. Koinkar and **Subhash B. Kondawar**, **Springer Proceeding in Physics, 242**, 107-116, **2020**, ISBN: **978-981-15-2294-9**, https://doi.org/10.1007/978-981-15-2294-9_10
16. **Book Chapter:** “Facile Process for Ammonia Sensing Using Electrospun Polyvinylidene Fluoride/Polyaniline (PVDF/PANI) Nanofibers Chemiresistor”, Chapter – 1, Kondawar S., Late D.J., Anwane R.S., **Kondawar S.B.**, Koinkar P., Parinov I.A., **Advanced Materials. Springer Proceedings in Physics, 224**, 3-15, **2019**, ISBN: **978-3-030-19894-7**, https://doi.org/10.1007/978-3-030-19894-7_1
17. **Book Chapter:** “Theory of EMI Shielding”, Chapter – 2, **Subhash B. Kondawar**, Perna Modak, **Elsevier Publishing, 2019**, Book Title: [Materials for Potential EMI Shielding Applications](#):

- [Processing, Properties and Current Trends](https://doi.org/10.1007/978-0-12-817590-3), pp 9-26, ISBN: 978-0-12-817590-3, <https://doi.org/10.1007/978-0-12-817590-3>
18. **Book Chapter:** “Silver Nanoparticles and Its Polymer Nanocomposites—Synthesis, Optimization, Biomedical Usage, and Its Various Applications”, Chapter – 1, Kishor Kumar Sadasivuni, Sunita Rattan, Sadiya Waseem, Snehal Kargirwar Bramhe, **Subhash B. Kondawar**, S. Ghosh, A. P. Das, Pritam Kisore Chakraborty, Jaideep Adhikari, Prosenjit Saha and Payal Mazumdar, Springer Publishing, 2019, Book Title: [Polymer Nanocomposites in Biomedical Engineering](https://doi.org/10.1007/978-3-030-04741-2), pp 331-373, ISBN: 978-3-030-04741-2, https://doi.org/10.1007/978-3-030-04741-2_11
 19. **Book Chapter:** “Conducting Polymer Nanocomposites for Sensor Applications- Chapter - 11”, **Subhash B. Kondawar**, Pallavi T. Patil, Springer Publishing, 2017, Book Title: [Conducting Polymer Hybrids](https://doi.org/10.1007/978-3-319-46458-9) Part of the series [Springer Series on Polymer and Composite Materials](https://doi.org/10.1007/978-3-319-46458-9) pp 223-267 DOI 10.1007/978-3-319-46458-9_8, Print ISBN 978-3-319-46456-5
 20. **Book Chapter:** “Synthesis and Characterization of SnO₂/Polyaniline and Al-Doped SnO₂/Polyaniline Composite Nanofibers Based Sensors for Hydrogen Gas Sensing – Chapter 7”, Hemlata J. Sharma and **Subhash B. Kondawar**, Book Title: Novel Applications in Polymers and Its Waste Management, Apple Academic Press, 2016, E-Book ISBN: 9781771884761
 21. **Book Chapter:** “Conductive Polymers for Packaging Applications – Chapter 17” **Subhash B. Kondawar**, Book Title: Polymers for packaging applications, Apple Academic Press Inc. and CRC Press (Taylor & Francis Group) Publishing, 2015, pp.429-458, International Standard Book Number: 13-978-1-926895-77-2 (Hardback)
 22. **Book Chapter:** “Nanofibers of Conducting Polymer Nanocomposites – Chapter 11”, **Subhash B. Kondawar** and Shikha P. Agrawal, Book Title: Responsive Materials and Methods, Scrivener Publishing LLC – Wiley, 2014, pp.303-356, ISBN 978-1-118-68622-5

Research Papers Publications in International Journals:

1. “Electrospun PAN/CuO/Curcumin Composite Nanofiber Mat for Efficient Antimicrobial Face Mask”, Samiksha G Bansode, Snehal Gagare, **Subhash B. Kondawar**, Shrikant Charhate, Arif D Shaikh, Dattatray J Late, *New Journal of Chemistry, RSC*, **48**, 7676-7687, 2024, <https://doi.org/10.1039/D4NJ00692E>
2. “Electrospun 1D cobalt pyrophosphate porous nanofibers: Redox-active electrode material for asymmetric supercapacitor”, Nutan V. Mangate, Sushama M. Giripunje, **Subhash B. Kondawar**, *Journal of Energy Storage* **67**, 107560, 2023, <https://doi.org/10.1016/j.est.2023.107560>
3. “Accelerated Hydrogen Gas Sensing of SnO₂ Embedded Polyaniline Nanofibers with Doping Pd or Ag Near Room Temperature”, AM More, **SB Kondawar**, SP Dongre, PK Nagpure, VM Nanoti, KG Rewatkar, *Indian Journal of Engineering and Materials Sciences*, **30**(6), 823-828, 2023, <https://doi.org/10.56042/ijems.v30i6.4520>
4. “Influence of La³⁺ co-doping on the photoluminescence properties of YAG: Dy³⁺ electrospun light emitting nanofibers”, Khushbu A. Rath, Tejaswini A. Rath, Sanchit S. Kondawar, Sanjay R. Dhakate, **Subhash B. Kondawar**, *Results in Optics* **12**, 100492, 2023, <https://doi.org/10.1016/j.rio.2023.100492>
5. “Electrospun nickel ferrite nanofibers reinforced polyaniline composite for high-performance room temperature ammonia sensing”, Nayana D. Sonwane, **Subhash B. Kondawar**, *Synthetic Metals*, **284**, 117004, 2022, <https://doi.org/10.1016/j.synthmet.2021.117004>
6. “Facile fabrication of novel europium doped strontium yttrate (SrY₂O₄:Eu³⁺) electrospun nanofibers for flexible display applications”, Mahelaqua A. Haque, Mahejabeen Azizul Haque, **Subhash B. Kondawar**, *Materials Today Communications*, **33**, 104950, 2022, <https://doi.org/10.1016/j.mtcomm.2022.104950>
7. “Nanofibers of Palladium (Pd)-sensitized SnO₂ Encapsulated with Polyaniline for Effective Hydrogen Gas”, A. M. More, **S. B. Kondawar**, S. P. Dongre, *Jordon Journal of Physics*, **15**, 1-8, 2022, <https://doi.org/10.47011/15.1.1>

8. "CuO/ZnO/Ni₂O₃ Ternary Nanocomposite Encapsulated BaTiO₃/PVDF for High Energy Storage Density," G. Tabhane, S. M. Giripunje and **S. B. Kondawar**, International Conference on Electrical, Computer, Communications and Mechatronics Engineering (ICECCME), 1-6, **2022**, <https://doi.org/10.1109/ICECCME55909.2022.9988262>
9. "Enhanced room temperature ammonia sensing of electrospun nickel cobaltite/polyaniline composite nanofibers", Nayana D. Sonwane, **Subhash B. Kondawar**, *Materials Letter*, **303**, 130566, **2021**, <https://doi.org/10.1016/j.matlet.2021.130566>
10. "Fabrication and dielectric performance of RGO-PANI reinforced PVDF/ BaTiO₃ composite for energy harvesting", Gitanjali H. Tabhane, Sushama M. Giripunje, **Subhash B. Kondawar**, *Synthetic Metals*, **279**, 116845, **2021**, <https://doi.org/10.1016/j.synthmet.2021.116845>
11. "Electrochemical Performance of Carbon Nanofibers/Cobalt Ferrite (CNF/CoFe₂O₄) Composites Synthesized by Two Approaches", Rounak R. Atram, Nutan V. Mangate, Ramdas G. Atram, **Subhash B. Kondawar**, *Journal of Electrochemical Energy Conversion and Storage*, **18(4)**, 041003, **2021**, <https://doi.org/10.1115/1.4049999>
12. "Evolution of waste iron rust into α -Fe₂O₃/CNF and α -Fe₂O₃/PANI composites as an efficient positive electrode for sustainable hybrid supercapacitor", Rounak R. Atram, Darpan V. Bhuse, Vijaykumar M. Bhuse, Ramdas G. Atram, **Subhash B. Kondawar**, *Journal of Materials Science: Materials in Electronics*, **32**, 13787–13802, **2021**, <https://doi.org/10.1007/s10854-021-05955-x>
13. "Novel carbon nanofibers/thionickel ferrite/polyaniline (CNF/NiFe₂S₄/PANI) ternary nanocomposite for high performance supercapacitor", Rounak R. Atram, Vijaykumar M. Bhuse, Ramdas G. Atram, Chang-Mou Wu, Pankaj Koinkar, **Subhash B. Kondawar**, *Materials Chemistry and Physics*, **262**, 124253, **2021**, <https://doi.org/10.1016/j.matchemphys.2021.124253>
14. "Enhanced hydrogen gas sensing characteristics of graphene modified with rubidium (Rb)", Shivani A. Singh, Pravin S. More, Yogesh B. Khollam, **Subhash B. Kondawar**, *Materials Chemistry and Physics*, **260**, 124105, **2021**, <https://doi.org/10.1016/j.matchemphys.2020.124105>
15. "Synthesis and characterization of polyaniline-nickel oxide nanocomposites for electrochemical supercapacitor", B. S. Anerao, A. M. Chaudhari and **S. B. Kondawar**, *Materials Today: Proceedings*, **29(3)**, 880-884, **2020**, <https://doi.org/10.1016/j.matpr.2020.05.107>
16. "LPG Sensing Properties of Electrospun In-Situ Polymerized Polyaniline/MWCNT Composite Nanofibers, Pallavi T. Patil, **Subhash B. Kondawar**, Pravin S. More, *Springer Proceeding in Physics*, **242**, 3-18, **2020**, https://doi.org/10.1007/978-981-15-2294-9_1
17. "Colour Tunable Photoluminescence from Samarium and Dysprosium Co-doped ZnO Nanofibers", Chaitali N. Pangul, Shyamkant W. Anwane and **Subhash B. Kondawar**, *Springer Proceeding in Physics*, **242**, 19-30, **2020**, https://doi.org/10.1007/978-981-15-2294-9_2
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