

CURRICULUM VITAE

Dr. Latthe Sanjay Subhash

Contact Details

Official Address

Dr. Sanjay S. Latthe
Assistant Professor, JSPS Fellow,
Department of Physics,
Vivekanand College (Autonomous), Kolhapur,
C.S.No.2130 "E" Ward, Tarabai Park,
Kolhapur - 416 003, Maharashtra, India.
Tel: +91-0231-2658612, Mob. No.: +91-7030310947
Email ID: latthes@gmail.com



Home Address

Kumbhar Galli, Near Hanuman Temple,
A/P- Sangola, Tal- Sangola,
Dist- Solapur, Pin: 413 307,
Maharashtra, India.

Personal Details:

Date of Birth: 01/06/1985. **Religion:** Hindu. **Caste:** Lingayat. **Marital Status:** Married.

RESEARCH EXPERTISE

- 1) Superhydrophobic coatings for anti-icing applications.
- 2) Superhydrophobic coatings for self-cleaning and anti-corrosive applications.
- 3) Sponge and Membrane fabrication for Oil-Water separation applications.
- 4) Photocatalytic TiO₂ coatings on polycarbonate for self-cleaning applications.
- 5) Synthesis of CdO thin films for LPG gas sensor applications.
- 6) Synthesis of thermo-responsive polymer coatings.

PROFESSIONAL EXPERIENCE

1. **01st June 2022 to till date** - as a **Assistant Professor in Physics** at Department of Physics, Vivekanand College, Kolhapur (Autonomous), Kolhapur - 416003, Maharashtra, **India**.
2. **15th June 2016 to 31st May 2022** – as a **Assistant Professor in Physics** at Department of Physics, Raje Ramrao Mahavidyalaya, Jath, Dist: Sangli – 416404, Maharashtra, **India**.
3. **14th September 2015 to 14th June 2016** – as a “**DST-INSPIRE Faculty Fellow**” at Department of Technology, Savitribai Phule Pune University, Ganeshkhind, Pune – 411007, Maharashtra, **India**.
4. **June 2013 to June 2015** – as a “**JSPS-Post Doctorate Fellow**” at Photocatalysis International Research Center, Tokyo University of Science, Tokyo, **Japan**.
5. **October 2012 to May 2013** – as a “**Research Professor**” at School of Mechanical Engineering, Solar cell and Aerosol Science Lab., Korea University, Seoul, **South-Korea**.
6. **October 2010 to September 2012** – as a “**Post Doctoral Researcher**” at Koç University, Istanbul, **Turkey**.

1. Academic Credentials

Sr. No.	Degree awarded	University	Subjects	Class Obtained	Year of Passing
1.	Ph.D*	Shivaji University Kolhapur, India	Physics	Awarded	2010
2.	M. Sc.	Shivaji University Kolhapur, India	Physics (Solid State Physics)	First Class	2007
3.	B. Sc.	Shivaji University Kolhapur, India	Physics	Distinction	2005
4.	H.S.C.	Pune Board, Pune, India	All Science	First Class	2002
5.	S.S.C.	Pune Board, Pune, India	All Language and Science	First Class	2000

* Title of PhD Thesis: “**Sol-gel Synthesis and Physico-chemical Properties of Silica based Hydrophobic Coatings**” (2007-10) under the guidance of Prof. A. Venkateswara Rao, Dept. of Physics, Shivaji University, Kolhapur.

2. Research Projects

Sr. No.	Name of the Project	Funding Agency	Year	Amount (Rs.)	Status
1.	Optically Transparent and Durable Polymer-Nanoparticle Superhydrophobic Coatings for Self-cleaning Applications	Department of Science and Technology (DST), New Delhi, India. (DST/INSPIRE/04/2015 /000281)	2015-2020	35, 00, 000 /-	Completed
2.	Surface Modified Superhydrophobic Sponges for Effective Oil-water Separation Applications	India Science and Research Fellowship (ISRF) Programme sponsored by Centre for International Co-operation in Science (CICS) / Department of Science and Technology (DST), New Delhi, India. (DO/CICS/542/2017)	March – May 2018	1, 65, 173 /-	Completed
3.	Durable and Scalable Superhydrophobic Membranes for Efficient Oil-Water Separation	National Natural Science Foundation of China (Project approval number: 21950410531)	2020-2021	20, 00,000/-	Completed

3. Fellowships/Awards/Scientific Abroad Visits (27)

- 1) Included in “**World's Top 2% Scientists**” by Stanford University, USA in 2022 – 23.
- 2) Included in “**World's Top 2% Scientists**” by Stanford University, USA in 2021 – 22.
- 3) Received “**Brand Kolhapur Award**” by the auspicious hands of Honourable Mr. Vikas Kharage, Principal Secretary to Chief Minister of Maharashtra on Sunday, 07th November 2021 at Hotel Sayaji, Kolhapur, Maharashtra, India.
- 4) Received “**Best Teacher Award**” by ‘Youth for Jath’ Organization on Sunday, 29th August 2021.
- 5) Received “**Outstanding Scientist Award**” in 9th International Scientist Awards on Engineering, Science and Medicine at Trichy, Tamilnadu, India during 12th – 13th September 2020 organized by VDGOOD Professional Association, India.
- 6) Participated in “Japan-Asia Youth Exchange Program in Science” (**Sakura Exchange Program in Science**) administered by Japan Science and Technology

Agency (JST) during 21st November 2019 – 01st December 2019 in **Tokyo University of Science, Noda, Japan.**

- 7) “**D. Y. Patil Aadarsh Shikshak Purashkar**” by Ajinkyatara Vidya Pratishthan, Jath, Maharashtra, India on 05th September 2019.
- 8) “**Recognition as Research Guide for M.Phil. Ph.D. (Physics)**” by Shivaji University, Kolhapur on 03rd September 2019.
- 9) **Visiting Professor**, Henan University, Kaifeng, China during 03rd May 2019 to 17th July 2019.
- 10) **Visiting Professor**, Henan University, Kaifeng, China during 17th September 2018 to 11th November 2018.
- 11) Participated in “Japan-Asia Youth Exchange Program in Science” (**Sakura Exchange Program in Science**) administered by Japan Science and Technology Agency (JST) during 10th June 2018 – 30th June 2018 in **Tokyo University of Science, Noda, Japan.**
- 12) Participated in “Japan-Asia Youth Exchange Program in Science” (**Sakura Exchange Program in Science**) administered by Japan Science and Technology Agency (JST) during 14th November – 04th December 2017 in **Tokyo University of Science, Noda, Japan.**
- 13) Participated in the **2nd BRICS Young Scientists Conclave** held at Zhejiang University, **Hangzhou, China** during 11th-15th July 2017. (Nominated by Department of Science and Technology (DST), Govt. of India).
- 14) Participated in “Japan-Asia Youth Exchange Program in Science” (**Sakura Exchange Program in Science**) administered by Japan Science and Technology Agency (JST) during 2nd – 22nd October 2016 in **Tokyo University of Science, Noda, Japan.**
- 15) Participated as a **Young Scientist** at the **Post-Lindau Tour of German Universities and Research Institutions** organized during 2nd to 8th July 2016 by German Research Foundation (DFG) **Bonn, Germany** (Invited through agreement on Scientific Co-operation between DST, India and DFG, Germany).

Sr. No.	Visited University / Research Institutes in Germany	Day and Date
1.	Heidelberg University, Heidelberg	Saturday, 02 nd July 2016
2.	Heinrich Heine University, Dusseldorf	Monday, 04 th July 2016
3.	Peter Grunberg Institute, Electronic Properties, Julich	Tuesday, 05 th July 2016
4.	Institute of Physics, RWTH, Aachen	Tuesday, 05 th July 2016
5.	Surface Physics, Philipps University, Marburg	Wednesday, 06 th July 2016
6.	Albert Einstein Institute (AEI), Hannover	Thursday, 07 th July 2016
7.	Institut fur Quantenoptik (IQ), Hannover	Thursday, 07 th July 2016
8.	Technische Universitat (TU), Berlin	Friday, 08 th July 2016

- 16) Participated as a **Young Scientist** in the **66th Lindau Nobel Laureate Meeting** dedicated to Physics held in **Lindau, Germany** from 26th June 2016 – 01st July 2016 (Nominated by Department of Science and Technology (DST), Govt. of India).
- 17) Participated in **Nobel Prize Dialogue, Tokyo 2015** held at Tokyo, Japan on 1st March 2015.
- 18) “**DST-INSPIRE Faculty Award – 2015**”, by Department of Science and Technology (DST), Government of India, 10th August 2015.
- 19) “**Japan Society for the Promotion of Science (JSPS), Post-Doctoral Fellowship**” at Photocatalysis International Research Center, Tokyo University of Science, **Tokyo, Japan** (2013-2015).
- 20) “**Post-Doctoral Fellowship**” by School of Mechanical Engineering, Solar Cell and Aerosol Science Lab, Korea University, **Seoul, South Korea** (2012-2013).
- 21) “**Post-Doctoral Fellowship**” by Scientific and Technological Research Council of Turkey (TUBITAK-1001), Koç University, **Istanbul, Turkey** (2010-2012).
- 22) “**Senior Research Fellowship (SRF)**” by Council of Scientific & Industrial Research (CSIR), New Delhi, Govt. of India (April-October 2010).
- 23) “**UGC Research Fellowship in Sciences for Meritorious Students**” by University Grant Commission (UGC), New Delhi, Govt. of India (2008-10).
- 24) “**Retired Teachers Scholarship**” for securing highest number of marks at M.Sc.-I (Physics) examination held in April-2006 amongst the students of “**Earn and Learn Scheme**”, Shivaji University, Kolhapur.
- 25) “**Late Bajirao Bhimrao Desai and Smt. Sonabai Bajirao Desai Award**” for securing the highest number of marks in the subject of Physics (Principle) at the B.Sc. examination, April-2005 and Prosecute for further studies for M.Sc. (Physics) and admitted in the “**Earn and Learn Scheme**”, Shivaji University, Kolhapur.
- 26) “**Eklavya Merit Scholarship**” by Govt. of Maharashtra, India for accomplishment of Master of Science degree in Shivaji University, Kolhapur (2005-07).
- 27) “**Eklavya Award**” by Sangola Vidyamandir Prashala (1999) for continuing education in hard economic situations.

4. Foreign Affairs (08)

- 1) Co-ordinator of the **International MoU** signed between *Raje Ramrao Mahavidyalaya, Jath, India* and *Henan University, Kaifeng, China* for faculty exchange and research collaboration (November 2022).

- 2) Arranged donation of worth Rs. 8500/- for CHB staff and M.Sc. (Physics) students from **Qatar University, Qatar** for the payment of registration fee of Sixth International Conference on Advances in Materials Science (ICAMS-2021) through the research collaboration between Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India and Qatar University, Qatar on Wednesday, 03rd March 2021.
- 3) Two students Miss. Pratiksha Patil, and Miss. Supriya Hipparagi of Dept. of Physics, Raje Ramrao Mahavidyalaya, Jath visited Tokyo University of Science, Noda, Japan during 21st November 2019 – 01st December 2019 through “**Japan-Asia Youth Exchange Program in Science**” (**Sakura Exchange Program in Science**) administered by Japan Science and Technology Agency (JST), Japan.
- 4) Co-ordinator of the **International MoU** signed between *Raje Ramrao Mahavidyalaya, Jath, India* and *Henan University, Kaifeng, China* for faculty exchange and research collaboration (December 2018).
- 5) Three students Miss. Mayuri Sutar, Miss. Varsha Patil, and Mr. Chandrakant Barakade of Dept. of Physics, Raje Ramrao Mahavidyalaya, Jath visited Tokyo University of Science, Noda, Japan during 10th June 2018 – 30th June 2018 through “**Japan-Asia Youth Exchange Program in Science**” (**Sakura Exchange Program in Science**) administered by Japan Science and Technology Agency (JST), Japan.
- 6) Hosted **Mr. Anock Somadder**, Assistant Professor, Department of Physics, Shahjalal University of Science and Technology, **Sylhet-3114, Bangladesh** for 03 months (March – May 2018) to carry out the research project in my research laboratory through funding by *India Science and Research Fellowship (ISRF) Programme (2017-2018)*, *Centre for International Co-operation in Science (CICS) / Department of Science and Technology (DST), Govt. of India*.
- 7) Two students Mr. R. S. Sutar and Mr. S. P. Dalawai of Dept. of Physics, Raje Ramrao Mahavidyalaya, Jath visited Tokyo University of Science, Noda, Japan during 14th November – 04th December 2017 through “**Japan-Asia Youth Exchange Program in Science**” (**Sakura Exchange Program in Science**) administered by Japan Science and Technology Agency (JST), Japan.
- 8) Co-ordinator of the **International MoU** signed between *Raje Ramrao Mahavidyalaya, Jath, India* and *Tokyo University of Science, Japan* for faculty exchange and research collaboration (December 2016).

5. Orientation/Refresher/FDP Programs (16)

- 1) Completed Online Two - Week Refresher Course in “PHYSICS”, organized by Ramanujan College, University of Delhi in Collaboration with Bhaskaracharya College of Applied Sciences, University of Delhi and Deshbandhu College, University of Delhi under the aegis of Ministry of Education, Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 30th August – 13th September, 2023 and obtained Grade A+.

- 2) Completed Refresher Course, Swayam ARPIT Online Course Certification, the ARPIT Course for Career Advancement Scheme (CAS) promotion Leadership and Governance in Higher Education Level 2 during 01st December 2020 to 31st March 2021 with a "B" Grade in the proctored examination held on 21st August 2021.
- 3) Participated, "Online Faculty Development Program on Research Methodology", organized by Balaji Institute of Management Sciences, Narsampet, Warangal, Telangana from 13th - 17th July, 2020.
- 4) Participated, "Twelve Days Faculty Development Programme on Online Teaching-Learning and Research Methodology" organized by Govt. P. G. College, Bilaspur, Rampur - Uttar Pradesh from 18th July – 29th July, 2020
- 5) Participated, Five days online Faculty Development Programme on "Know Everything related to Research" organized by Iahia College of Engineering and Technology, Ernakulam, Kerala from 23rd – 28th July 2020.
- 6) Participated, "One Week Online Multi-Disciplinary Faculty Development Program on MOOCs, E-content Development and OER" organized by Government First Grade College, Hungund from 28th May – 03rd June 2020.
- 7) Participated, "Online Workshop On Research Writing And Legal Aspects of Academic Research" organized by the Faculty Development Centre UGC-Human Resource Development Centre, Savitribai Phule Pune University, Pune – 411007, Under the scheme of Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching from 12 – 13th June 2020.
- 8) Participated, "Two weeks Faculty Development Programme on LaTeX" organized by Gopalan College of Engineering and Management, Whitefield, Bangalore, Karnataka, India from 17th – 30th April 2020.
- 9) Participated, Two Weeks Faculty Development Programme on "Managing Online Classes and Co-Creating MOOCs", organized by Ramanujan College, University of Delhi from 20th April – 06th May, 2020.
- 10) Participated, Faculty Development Programme (Ten Days) On "Effective Ways To Develop E-content For Teaching-Learning" conducted by Maratha Vidya Prasarak Samaj's, K.R.T. Arts, B.H. Commerce and A.M. Science (K.T.H.M.) College, Nashik in association with Human Resource Development Centre (UGC-HRDC), Savitribai Phule Pune University, Pune from 21st - 30th May 2020.
- 11) Participated, One Week Faculty Development Program on "MOODLE Learning and Management System" organized by Vivekanand College, Kolhapur from 25th – 30th April 2020.
- 12) Completed Refresher Course, Swayam ARPIT Online Course Certification, the ARPIT Course for Career Advancement Scheme (CAS) promotion Leadership and Governance in Higher Education Level 2 with a "B" Grade in the proctored examination held on 16th February 2020.

- 13) Participated, Two Days Online Faculty Development Programme on “Medicinal Chemistry & Pharmaceutical Aspects: Present And Future” organized by K. L. E. Society’s Jagadguru Tontadarya College, Gadag, Karnataka in association with Royal Society of Chemistry (London, UK), Local Section Deccan (LSD), India on 21st - 22nd July, 2020.
- 14) Participated, One Week National Level Faculty Orientation Workshop on Revised Guidelines of NAAC organized by Yashvantrao Chavan Institute of Science, Satara from 27th April – 02nd May 2020.
- 15) Participated in the “Faculty Development Program (FDP) on Data Science” organized by Bharati Vidyapeeths Dr. Patangrao Kadam Mahavidyalaya, Sangli during 24th December 2019 to 30th December 2019.
- 16) Participated in “170th General Orientation Programme” conducted at the UGC-Human Resource Development Centre, Savitribai Phule Pune University, Pune – 411007, Maharashtra, India from 15th September to 05th October 2019 and obtained Grade ‘A’.

6. Invited Lectures/Guest Lectures (28)

- 1) Resource Person, One Day Lead College Workshop on “Applications of Nanomaterials” organized by **Department of Chemistry, Dattajirao Kadam Arts, Science and Commerce College, Ichalkaranji** on 15th February 2023.
- 2) Invited Talk on “Sawdust – Polystyrene based Pellets and SiO₂ – Polystyrene based Leaf Mesh for effective Oil-Water Separation” in “02nd International Conference on Recent Advances in Materials Science and Technology” organized by Department of Physics, **G. S. Tompe Arts, Commerce and Science College, Chandur Bazar** in collaboration with IQAC, Sant Gadge Baba Amravati University, Amravati on 12th – 14th May 2022.
- 3) Invited Talk on “Sawdust-Polymer based Pellets for effective Oil-Water Separation” in Online 2nd International Conference on Advances in Engineering Science and Technology organized by **Brahmdevdada Mane Institute of Technology, Solapur, Maharashtra, India** on 29th - 30th April 2022.
- 4) Resource Person in Camp of National Service Scheme (NSS) organized by **Raje Ramrao Mahavidyalaya, Jath** on Thursday, 24th March 2022.
- 5) Resource Person on “Nanoscience” in One Day Seminar on “Research Methodology in Science” under lead college organized by **Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi** on Thursday, 17th March 2022.
- 6) Guest Lecture on “How to Write a Research Paper” at Henan Key Laboratory of Polyxometalate Chemistry, Henan Joint International Research Laboratory of Environmental Pollution Control Materials, College of Chemistry and Chemical

- Engineering, **Henan University, Kaifeng 475004, P. R. China** on Monday, 14th March 2022.
- 7) Invited Talk in “02nd International Conference on Material Manufacturing” organized by Engineered Science Publisher, USA in association with **Maratha Vidya Prasarak Samaj's Arts Science and Commerce College Ozar (MIG), Nashik, India** on 26th – 28th February, 2022.
 - 8) Resource Person on ‘Transmission Electron Microscopy (TEM)’ in “07 Days Online Faculty Development Program on Characterization Techniques used in Chemical and Biological Sciences (CTCBS FEB-22)” organized by **Waghire College of Arts, Commerce, and Science, Saswad, Pune, Maharashtra, India** on 11th February 2022.
 - 9) Resource Person on ‘Scanning Electron Microscopy – A Tool for Surface Morphology’ in “07 Days Online Faculty Development Program on Characterization Techniques used in Chemical and Biological Sciences (CTCBS FEB-22)” organized by **Waghire College of Arts, Commerce, and Science, Saswad, Pune, Maharashtra, India** on 10th February 2022.
 - 10) Resource Person on “Recent Trends in Materials Science” organized by Department of Physics, Yashavantrao Chavan Institute of Science (YCIS), Satara, Maharashtra, India on 25th January 2022.
 - 11) Online Guest Lecture on “Sound and Acoustics of the Buildings” in **Shri. R. K. Patil Arts, Commerce, and Science College, Sankh, Maharashtra, India** during 12th – 21st January 2022.
 - 12) Invited Lecture on “Superhydrophobic Coating on Various Substrates for Self-Cleaning Application” in Special E-Conference on “Materials of the Future: Smart Applications in Science and Engineering” organized by Emergent Materials Journal, Center for Advanced Materials (CAM) & Biomedical Research Laboratory (BRC), **Qatar University, Qatar** during 29 – 31 March 2021.
 - 13) Invited Lecture in “Refresher Course in Basic Sciences” held during 21st December 2020 to 02nd January 2021 organized by UGC–Human Resource Development Centre, **Sant Gadge Baba Amravati University, Amravati, Maharashtra, India** on Friday, 01st January 2021.
 - 14) Invited Talk on “Superhydrophobic Surfaces for Self – cleaning Applications” in National Webinar on Industrial Nanotechnology organized by **Yashavantrao Chavan Institute of Science, Satara, Maharashtra, India** on Saturday, 20th March 2021.
 - 15) Invited Talk on “Modern Technologies in 21st Century” on the eve of National Science Day organized by **Padmabhushan Vasantraodada Patil Mahavidyalaya, Kavathe Mahankal, Maharashtra, India** on Thursday, 25th February 2021.

- 16) Invited Talk on “Superhydrophobic Surfaces for Self – cleaning Applications” in One Day Online E-Conference on “Progress in Materials Science”, organized by **Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi, Maharashtra, India** on Monday, 13th July 2020.
- 17) Examiner for Oral Session in Two Days International E-Conference on Cutting Edge Smart Materials and Nanotechnology (ICCESMN-2020) jointly organized by Department of Physics and IQAC of **Sadguru Gadage Maharaj College, Karad, Maharashtra, India** from 20th – 21st August 2020.
- 18) Invited Talk on “*Superhydrophobic Coating on Various Substrates for Self-cleaning Applications*” in the One Day State Level Seminar on “Advanced Materials and Nanotechnology” organized by **Department of Physics, Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur, Maharashtra, India** on 04th February 2020.
- 19) Invited Talk on “*Photocatalytic TiO₂ Thin Film on Polymeric Substrates for Self-cleaning Application*” in The 3rd International Symposium on Recent Progress of Energy and Environmental Photocatalysis (Photocatalysis 3) organized by Katsushika Campus, **Tokyo University of Science, Tokyo, Japan** during 29-30 November 2019.
- 20) Invited Talk on “*Silica based Superhydrophobic Surfaces for Self – cleaning Applications*” in The First Chemistry International Summer Camp of Henan University organized by **Henan University, China** during 12-13 July 2019.
- 21) Guest Lecture on “*Superhydrophobic surfaces for self – cleaning and oil – water separation applications*” on 12th June 2018 at Photocatalysis International Research Center (PIRC), **Tokyo University of Science, Noda, Japan**.
- 22) Guest Lecture on “*Candle Soot Based Superhydrophobic Coatings for Self-cleaning Applications*” on 27th November 2017 at Photocatalysis International Research Center (PIRC), **Tokyo University of Science, Noda, Japan**.
- 23) Invited Talk on “*Lotus-leaf like Superhydrophobic Coating on variety of Substrates for Self-cleaning Applications*” in the **Indo-German Convention of Lindau Alumni 2017** organized by **Kasturba Medical College, Manipal, Karnataka, India** during 21st – 24th September 2017.
- 24) Guest Lecture on “*Revolution in Science since Nineteenth Century*” to B. Sc. Students during Wel – Come Function on 07th September 2017 at **Sangola College, Sangola, Dist: Solapur, Maharashtra, India**.
- 25) Invited Talk on “*Superhydrophobic Coatings for Self-cleaning Applications*” in the **2nd BRICS Young Scientists Conclave** held at **Zhejiang University, Hangzhou, China** during 11th - 15th July 2017.
- 26) Guest Lecture on “*Water Repellent Coating*” on 08th November 2016 at **Shri Guru Basaveshwar High School, Billur, Tal: Jath, Dist: Sangli, Maharashtra, India**.

27) Guest Lecture on “*SLIPS Technology for Anti-icing Coatings*” on 10th October 2016 at Photocatalysis International Research Center (PIRC), **Tokyo University of Science, Noda, Japan.**

28) Guest Lecture on “*Wetting and Non-wetting Coatings for Self-cleaning Applications*” on 04th October 2016 at Photocatalysis International Research Center (PIRC), **Tokyo University of Science, Noda, Japan.**

7. Committees/National/International Conference (28)

- 1) **Examiner/Judge** of “Innovative Research Ideas Competition” organized as a part of Vivekanand Mahotsav – 2023 on 18th April 2023 at **Vivekanand College, Kolhapur (Autonomous).**
- 2) **Chair Person**, Two Days International Conference on “Innovation in Smart and Technomaterials” organized by Department of Physics, Sadguru Gadage Maharaj College, Karad during 16 – 17 January 2023.
- 3) **Examiner for Poster Presentation**, Two Days International Conference on “Innovation in Smart and Technomaterials” organized by Department of Physics, Sadguru Gadage Maharaj College, Karad during 16 – 17 January 2023.
- 4) **Organizing Secretary** of Webinar on “Unwrapping Brighter Future Opportunities after Post Graduation in Physical Science” organized by Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India on Friday, 22nd April 2022.
- 5) **Organizing Committee Member** of One Day National Workshop on “Guidance on NET-SET Examination”, organized by Department of Physics and Department of Chemistry, Raje Ramrao Mahavidyalaya, Jath, India Wednesday, 20th April 2022.
- 6) **Organizing Secretary** of “One Hour with Prof. Albert Einstein” organized by Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India on Monday, 18th April 2022.
- 7) **Organizing Secretary** of “One Day International Symposium on Advances in Photocatalysis” organized by Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India on Wednesday, 13th April 2022.
- 8) **Organizing Secretary** of Poster Presentation Competition on ‘Research and Innovations by Indian Scientists’ organized by Raje Ramrao Mahavidyalaya, Jath, India under Lead College Scheme of Shivaji University, Kolhapur on Monday, 28th March 2022.
- 9) **Expert for Oral Presentation** in “Fourth National Conference on Recent Trends in Pure and Applied Sciences (RTPAS–2022)” is organized by Internal Quality Assurance Cell, Bharati Vidyapeeth’s Dr. Patangrao Kadam Mahavidyalaya, Sangli on 21st - 22nd January, 2022.

- 10) **Chair Person**, International Webinar on “Energy Sustainability and New Materials” organized by Department of Physics and Electronic Science, S. M. Joshi College, Hadapsar, Pune on Tuesday, 05th October 2021.
- 11) **Session Chair** in Third National Conference on Recent Trends in Pure and Applied Sciences organized by Bharati Vidyapeeth’s Dr. Patangrao Kadam Mahavidyalaya, Sangli, Maharashtra, India on 13th March 2021.
- 12) **Convenor** of “Sixth International Conference on Advances in Materials Science (Online) (ICAMS- 2021)” organized by Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India during 23rd – 24th April 2021.
- 13) **Convenor** of “Fifth International Conference on Advances in Materials Science (Online) (ICAMS – 2020)” organized by Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India on 06th – 07th June 2020.
- 14) **Convenor**, “Webinar on Opportunities of Higher Education and Job for B.Sc. Physics Students”, organized by Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India on Sunday, 31st May 2020.
- 15) **Convenor**, “Webinar on Single Crystal Perovskites: Next Wave of Photovoltaic Technology”, organized by Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India on Sunday, 14th June 2020.
- 16) **Session Chair** in One Day International Conference on Recent Advances in Physical and Chemical Sciences (ICRAPCS-2020) organized by Sangola College, Sangola, Dist: Solapur on 22nd January 2020.
- 17) **Convenor** of “*Fourth International Conference on Advances in Materials Science*” organized by **Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India** on 20th – 21st January 2020.
- 18) **Session Chair** in The 3rd International Symposium on Recent Progress of Energy and Environmental Photocatalysis (Photocatalysis 3) organized by Katsushika Campus, **Tokyo University of Science, Tokyo, Japan** during 29-30 November 2019.
- 19) **Convenor** of “*One Day International Workshop on Job Opportunities for Indian Students in Japan*” organized by **Department of Chemistry, Department of Physics and IQAC, Raje Ramrao Mahavidyalaya, Jath, India** on 28th February 2019.
- 20) **Convenor** of “*One Day National Workshop on Contributions of Women to Science and Opportunities for Women in Science*” organized by **Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India** on 15th February 2019.
- 21) **Convenor** of “*Third International Conference on Advances in Materials Science*” organized by **Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India** on 27th – 29th December 2018.

- 22) Board of Studies (BOS) in Physics **Subcommittee Member** under faculty of Science and Technology, Shivaji University, Kolhapur (2018-19).
- 23) **Co-convenor** of “*Second International Conference on Advances in Materials Science*” organized by **Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India** on 22nd – 23rd December 2017.
- 24) **Session Chair** in “*International Conference on Innovations in Engineering and Technology (CIET2K16)*” organized by SKN Sinhgad College of Engineering, Pandharpur on 30-31st December 2016.
- 25) Initiated a Japanese “***Fujishima-Terashima Award***” for students securing highest marks in B.Sc. and M.Sc. (Physics) in Raje Ramrao Mahavidyalaya, Jath by collecting funds from Prof. Akira Fujishima and Prof. Chiaki Terashima, Tokyo University of Science, Japan (2016).
- 26) **Secretary** of “*International Conference on Advances in Materials Science (ICAMS-2016)*” organized by **Post-graduate Department of Physics, Raje Ramrao College, Jath** during 7-8 December 2016.
- 27) Arranged ***Visit and Interactions of Six Japanese Scientists*** (Prof. Terashima, Mr. Adachi, Mr. Katagishi, Mr. Sakurai, Mr. Hara and Mr. Miyasaka) from Tokyo University of Science, Japan with students of ***Shri Guru Basaveshwar High School, Billur, Tal:Jath, Dist: Sangli, Maharashtra, India*** on 8th December 2016 to create awareness in High School students about the science.
- 28) **Member of organizing committee** of One Day Workshop on “*Role of Headmasters in Effective School Administration*” held **at Raje Ramrao Mahavidyalaya, Jath, Maharashtra, India** on 25th September 2016.

8. Reviewer for the International Journals (18)

Name of the Journal	Impact Factor	Name of the Journal	Impact Factor
Chemical Engineering Journal	10.65	Progress in Organic Coatings	4.46
ACS Applied Materials & Interfaces	8.75	Results in Physics	4.01
Applied Materials Today	8.35	Colloids & Surfaces A: Physicochemical & Engineering Aspects	3.99
Environmental Pollution	6.79	Analyst	3.86
Materials and Design	6.28	Surface & Coatings Technology	3.78
Applied Surface Science	6.18	RSC Advances	3.07
Separation & Purification Technology	5.77	Materials Letters	3.01
Process Safety & Environmental Protection	4.99	ACS Omega	2.87

Composites Communications	4.91	Synthetic Metals	2.52
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9. Total Research Publications: 100

Total Citations: 6900*, h index: 45*, i-10 index: 70* (Google Scholar)

Sr. No.	Research Articles	Numbers
1.	International Journals	58
2.	Review Articles	04
3.	Book/Book Chapters	10
5.	Patents	01
6.	Conference Proceedings	27

A. Patents (01)

- 1) Ruimin Xing, **Sanjay S. Latthe** (山齐 拉特), Shanhu Liu, “A Novel and Facile Approach to Prepare Self-cleaning Yellow Superhydrophobic Polycarbonates” (*Chinese Patent* ZL 201710915807.1. Filed on 30.09.2017). (*Chinese Patent* CN 107778515 B Sanctioned on 28.06.2019)

B. Books/Book Chapters Published: (10)

- 1) S. Nagappan, M. Duraivel, S. A. Hira, M. Yusuf, **Sanjay S. Latthe**, K. Prabakar, Kang Hyun Park, “Core–Shell Nanostructures-Based Porous Carbon Nanomaterials for Oxygen Reduction Reaction”, Handbook of Porous Carbon Materials, 323–350, 2023.
- 2) **Sanjay S. Latthe**; Pradip P. Gaikwad; Akshay R. Jundle; Sagar S. Ingole; Rajaram S. Sutar; Kishor Kumar Sadasivuni; Shanhu Liu, “Chapter 16: Superhydrophobic Coatings for Oil–Water Separation”, Advances in Superhydrophobic Coatings, Royal Society of Chemistry (RSC), 371-389, 2023
- 3) Rajaram S. Sutar, S. G. Deshmukh, A. M. More, A. K. Bhosale, and **Sanjay S. Latthe**, Superhydrophobic Coatings of Silica NPs on Cover Glass of the Solar Cells for Self-cleaning Application, Chapter 14, Book: Artificial Intelligence, Internet of Things (IoT) and Smart Materials for Energy Applications, CRC Press TandF Book, ISBN 9781032115023, September 20, 2022 by CRC Press, 360 Pages.
- 4) Guest Editor of “*Macromolecular Symposia (A special issue for ICAMS - 2021)*” volume 400, (ISSN: 1521-3900) published by WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim (2021).
- 5) Guest Editor of “*Macromolecular Symposia (A special issue for ICAMS - 2020)*” volume 392, Part – 1 and volume 393, Part – 2 (ISSN: 1521-3900) published by WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim (August and October 2020).

- 6) Guest Editor of “*Macromolecular Symposia (A special issue for ICAMS - 2018)*” volume 387, issue 1 (ISSN: 1521-3900) published by WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim (October 2019).
- 7) **Sanjay S. Latthe**, R. S. Sutar, A. K. Bhosale, K. K. Sadasivuni, and Shanhu Liu, “Superhydrophobic Surfaces for Oil – Water Separation” in *Superhydrophobic Polymer Coatings: Fundamental, Design, Fabrication and Applications*, 2019, Elsevier, Chapter 16, pp. 339-356.
- 8) **Sanjay S. Latthe**, Kazuya Nakata, Rainer Höfer, Akira Fujishima, Chiaki Terashima, “*Lotus Effect-based Superhydrophobic Surfaces: Candle Soot a promising class of Nanoparticles for Self-cleaning and Oil-water Separation Applications*” in *Surface Coatings and Adhesives: Sustainable Technologies and Applications*, 2019, Royal Society of Chemistry (RSC), 92-119.
- 9) Associate Editor of “*Advances in Materials Science – 2017 (A special issue for ICAMS - 2017)*” pp. 1 – 333 (ISBN: 978 – 84 – 931247 – 6 – 5) published by Bhumi Publishing, Kolhapur, Maharashtra, India (2017).
- 10) **Sanjay S. Latthe** and A. K. Bhosale, “*Sol-Gel Processed Superhydrophobic Coatings on Numerous Substrates for Self-Cleaning Applications: A Lotus Leaf Effect*” in *Biodiversity Assessment: Tool for Conservation, 2017, Chapter 18, pp. 230-238 (ISBN: 978-81-931247-3-4)* published by Bhumi Publishing, Kolhapur, Maharashtra, India (2017).

C. Review Articles: (04)

- 1) S. P. Dalawai, M. Aly Saad Aly, **Sanjay S. Latthe**, R. Xing, R. S. Sutar, S. Nagappan, Chang-Sik Ha, Kishor Kumar Sadasivuni, and Shanhu Liu, “*Recent Advances in durability of superhydrophobic self-cleaning technology: A critical review*”, *Progress in Organic Coatings*, 2020, 138, 105381. (IF = 3.42).
- 2) **Sanjay S Latthe**, R. S Sutar, A. K Bhosale, S. Nagappan, Chang-Sik Ha, K. K. Sadasivuni, Shanhu Liu, and Ruimin Xing, “*Recent developments in air-trapped superhydrophobic and liquid-infused slippery surfaces for anti-icing application*”, *Progress in Organic Coatings*, 2019, 137, 105373. (IF = 3.42).
- 3) **Sanjay S. Latthe**, C. Terashima, K. Nakata, and Akira Fujishima, “*Superhydrophobic Surfaces Developed by Mimicking Hierarchical Surface Morphology of Lotus Leaf*”, ***Molecules*, 2014, 19(4), 4256-4283.** (IF = 2.01).
- 4) **Sanjay S. Latthe**, A. B. Gurav, S. M. Chavan, and R. S. Vhatkar, “*Recent Progress in Preparation of Superhydrophobic Surfaces: A Review*”, ***J. Surface Engineered Materials and Advanced Technology*, 2 (2012) 76-94.** (IF = 1.51).

D. Research Articles Published in International Journals (58)

- 1) R. S. Sutar, **Sanjay S. Latthe**, N. B. Gharge, P. P. Gaikwad, A. R. Jundle, S. S. Ingole, R. A. Ekunde, S. Nagappan, K. H. Park, A. K. Bhosale, Shanhu Liu, “*Facile*

- approach to fabricate a high-performance superhydrophobic PS/OTS modified SS mesh for oil-water separation”, **Colloids and Surfaces A: Physicochemical and Engineering Aspects**, **657** (2023) **130561**. (IF = 5.518)
- 2) Liangyu Tong, Yunpeng Liu, Chenyu Song, Yuqing Zhang, **Sanjay S Latthe**, Shanhu Liu, Ruimin Xing, “(Fe, Ni)S₂@MoS₂/NiS₂ hollow heterostructure nanocubes for high-performance alkaline water electrolysis”, **International Journal of Hydrogen Energy**, **47**, **21**, (2022), **11143-11152**. (IF = 5.816)
 - 3) Rajaram S. Sutar, Saravanan Nagappan, Appasaheb K. Bhosale, Kishor Kumar Sadasivuni, Kang-Hyun Park, Chang-Sik Ha and **Sanjay S. Latthe**, “Superhydrophobic Al₂O₃-Polymer Composite Coating for Self-Cleaning Applications”, **Coatings**, (2021), **11**, **1162**. (IF = 2.88).
 - 4) Rajaram S. Sutar, **Sanjay S. Latthe**, Saravanan Nagappan, Chang-Sik Ha, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing, Appasaheb K Bhosale, “Fabrication of robust self-cleaning superhydrophobic coating by deposition of polymer layer on candle soot surface”, **Journal of Applied Polymer Science**, 49943, 2021. (IF = 2.5)
 - 5) Suresh Gosavi, Rena Tabei, Nitish Roy, **Sanjay S. Latthe**, Yuvaraj M Hunge, Norihiro Suzuki, Takeshi Kondo, Makoto Yuasa, Katsuya Teshima, Akira Fujishima, Chiaki Terashima, “Low Temperature Deposition of TiO₂ Thin Films through Atmospheric Pressure Plasma Jet Processing”, **Catalysts**, **11** (1), 91, 2021. (IF = 3.52)
 - 6) **Sanjay S. Latthe**, V. S. Kodag, R. S. Sutar, A. K. Bhosale Saravanan Nagappan Chang-Sik Ha, Kishor Kumar Sadasivuni, S. R. Kulal, Shanhu Liu, Ruimin Xing, “Sawdust-based superhydrophobic pellets for efficient oil-water separation” **Materials Chemistry and Physics** 2020, 243, 122634. (IF = 2.78)
 - 7) Santosh V Mohite, Ruimin Xing, Bingyue Li, **Sanjay S Latthe**, Yong Zhao, Xiying Li, Liquan Mao, Shanhu Liu, “Spatial Compartmentalization of Cobalt Phosphide in P-Doped Dual Carbon Shells for Efficient Alkaline Overall Water Splitting”, **Inorganic Chemistry**, **2020** (IF = 4.85)
 - 8) B. Li, R. Xing, S. V. Mohite, **Sanjay S. Latthe**, A. Fujishima, S. Liu, and Y. Zhou, “CoS₂ nanodots anchored into heteroatom-doped carbon layer via a biomimetic strategy: Boosting the oxygen evolution and supercapacitor performance”, **Journal of Power Sources** **2019**, **436**, **226862**. (IF = 7.46)
 - 9) **Sanjay S. Latthe**, R. S. Sutar, T. B. Shinde, S. B. Pawar, T. M. Khot, A. K. Bhosale, Kishor Kumar Sadasivuni, R. Xing, L. Mao, S. Liu, “Superhydrophobic Leaf Mesh Decorated with SiO₂ Nanoparticle-Polystyrene Nanocomposite for Oil-Water Separation”, **ACS Appl. Nano Mater.**, **2019**, **2** (2), pp **799-805**. (IF = 4.5)
 - 10) **Sanjay S. Latthe**, R. S. Sutar, V. S. Kodag, A. K. Bhosale, A. M. Kumar, K. K. Sadasivuni, R. Xing, S. Liu, “Self-cleaning superhydrophobic coatings: Potential industrial applications”, **Progress in Organic Coatings**, **2019**, **128**, **52-58**. (IF = 2.97).

- 11) R. Li, S. Li, Y. Liu, T. Ochiai, **Sanjay S. Latthe**, K. Nakata, R. Xing, S. Liu, “*Polyelectrolyte-assisted soft reduced process for Pt-Cu nanoclusters with enhanced electrocatalytic activity for the methanol oxidation reaction*”, **Journal of Physics and Chemistry of Solids**, **2019**, **124**, **361-366**. (IF = 2.20).
- 12) T. Adachi, **Sanjay S. Latthe**, S. W. Gosavi, N. Roy, N. Suzuki, H. Ikari, K. Kato, K. Katsumata, K. Nakata, M. Furudate, T. Inoue, T. Kondo, M. Yuasa, A. Fujishima, C. Terashima, “*Photocatalytic, superhydrophilic, self-cleaning TiO₂ coating on cheap, light-weight, flexible polycarbonate substrates*”, **Applied Surface Science** **458** (2018) **917–923**. (IF = 4.43).
- 13) R. Xing, **Sanjay S. Latthe**, A. K. Bhosale, Rui Li, A. Madhan Kumar, S. Liu, “*A Novel and Facile Approach to Prepare Self-cleaning Yellow Superhydrophobic Polycarbonates*”, **Journal of Molecular Liquids**, **247** (2017) **366-373**. (IF = 3.64).
- 14) P. G. Pawar, Ruimin Xing, R. C. Kambale, A. Madhan Kumar, S. Liu, **Sanjay S. Latthe**, “*Polystyrene assisted superhydrophobic silica coatings with surface protection and self-cleaning approach*”, **Progress in Organic Coatings** **105** (2017) **235 – 244**. (IF = 2.632).
- 15) C. Terashima, R. Hishinuma, N. Roy, Y. Sugiyama, **Sanjay S Latthe**, K. Nakata, T. Kondo, M. Yuasa, and Akira Fujishima, “*Charge Separation in TiO₂/BDD Heterojunction Thin Film for Enhanced Photoelectrochemical Performance*”, **ACS Appl. Mater. Interfaces**, **2016**, **8** (3), **pp 1583–1588**. (IF = 6.72).
- 16) A. M. Kumar, **Sanjay S. Latthe**, P. Sudhagar, I. B. Obot and Z. M. Gasem, “*In-situ synthesis of hydrophobic SiO₂-PMMA composite for surface protective coatings: Experimental and quantum chemical analysis*”, **Polymer**, **2015**, **77**, **79-86**. (IF = 3.56).
- 17) S. Liu, Q. Xu, **Sanjay S. Latthe**, A. B. Gurav, and R. Xing, “*Superhydrophobic/superoleophilic magnetic polyurethane sponge for oil/water separation*”, **RSC Adv.**, **2015**, **5**, **68293-68298**. (IF = 3.84).
- 18) **Sanjay S. Latthe**, P. Sudhagar, A. Devadoss, A. M. Kumar, S. Liu, C. Terashima, K. Nakata, and Akira Fujishima, “*A mechanically bendable superhydrophobic steel surface with self-cleaning and corrosion-resistant properties*”, **Journal of Materials Chemistry A**, **2015**, **3**, **14263-14271**. (IF = 7.44).
- 19) S. Liu, X. Liu, **Sanjay S. Latthe**, L. Gao, S. An, S. S. Yoon, B. Liu, and R. Xing, “*Self-cleaning transparent superhydrophobic coatings through simple sol-gel processing of fluoroalkylsilane*”, **Applied Surface Science**, **2015**, **351**, **897-903**. (IF = 2.71).
- 20) S. Liu, **Sanjay S. Latthe**, H. Yang, B. Liu, and R. Xing, “*Raspberry-like superhydrophobic silica coatings with self-cleaning properties*”, **Ceramics International**, **2015**, **41** (9), **11719-11725**. (IF = 2.6).

- 21) H. Yoon, H. Kim, **Sanjay S. Latthe**, Min-woo Kim, S. Al-Deyab, and S. S. Yoon, "A highly transparent self-cleaning superhydrophobic surface by organosilane-coated alumina particles deposited via electrospraying", **Journal of Materials Chemistry A**, 2015, 3 (21), 11403-11410. (IF = 7.44).
- 22) **Sanjay S. Latthe**, P. Sudhagar, C. Ravidhas, A. Jennifer christy, D. David Kirubakaran, R. Venkatesh, A. Devadoss, C. Terashima, K. Nakata and Akira Fujishima, "Self-cleaning and superhydrophobic CuO coating by jet-nebulizer spray pyrolysis technique", **CrystEngComm**, 2015, 17, 2624-2628. (IF = 4.03).
- 23) D.-Y. Kim, J.-G. Lee, B. N. Joshi, **Sanjay S. Latthe**, S. S. Al-Deyab, and S. S. Yoon, "Self-cleaning superhydrophobic films by supersonic-spraying polytetrafluoroethylene-titania nanoparticles", **Journal of Materials Chemistry A**, 2015, 3, 3975-3983. (IF = 7.44).
- 24) A. B. Gurav, Q. Xu, **Sanjay S. Latthe**, R. S. Vhatkar, S. Liu, H. Yoon, and S. S. Yoon, "Superhydrophobic Coatings Prepared from Methyl-modified Silica Particles Using Simple Dip-coating Method", **Ceramics International**, 2015, 41(2), 3017-3023. (IF = 2.6).
- 25) H. Yoon, S. H. Na, J. Y. Choi, **Sanjay S. Latthe**, M. T. Swihart, S. S. Al-Deyab, and S. S. Yoon, "Gravity-driven hybrid membrane for oleophobic-superhydrophilic oil-water separation and water purification by graphene", **Langmuir**, 2014, 30 (39), pp 11761-11769. (IF = 4.45).
- 26) **Sanjay S. Latthe**, S. Liu, C. Terashima, K. Nakata and Akira Fujishima, "Transparent, Adherent, and Photocatalytic SiO₂-TiO₂ Coatings on Polycarbonate for Self-Cleaning Applications", **Coatings**, 2014, 4, 497-507.
- 27) **Sanjay S. Latthe**, C. Terashima, K. Nakata, M. Sakai, and Akira Fujishima, "Development of Sol-gel processed Semi-transparent and Self-cleaning Superhydrophobic Coatings", **Journal of Materials Chemistry A**, 2014, 2, 5548-5553. (IF = 7.44).
- 28) A. B. Gurav, **Sanjay S. Latthe**, R. S. Vhatkar, J. G. Lee, D. Y. Kim, J. J. Park, and S. S. Yoon, "Superhydrophobic surface decorated with vertical ZnO nanorods modified by stearic acid", **Ceramics International**, 2014, 40 (5), 7151-7160. (IF = 2.10).
- 29) M. W. Lee, S. An, **Sanjay S. Latthe**, C. Lee, S. Hong, and S. S. Yoon, "Electrospun Polystyrene Nanofiber Membrane with Superhydrophobicity and Superoleophilicity for Selective Separation of Water and Low Viscous Oil", **ACS Appl. Mater. Interfaces**, 2013, 5 (21), 10597-10604. (IF = 6.72).
- 30) **Sanjay S. Latthe**, S. An, S. Jin and S. S. Yoon, "High Energy Electron Beam Irradiated TiO₂ Photoanodes for Improved Water Splitting", **Journal of Materials Chemistry A**, 2013, (1), 13567-13575. (IF = 7.44).

- 31) J. J. Park, D. Y. Kim, **Sanjay S. Latthe**, J. G. Lee, M. Swihart, and S. S. Yoon, "Thermally-Induced Superhydrophilicity in TiO₂ Films Prepared by Supersonic Aerosol Deposition", **ACS Appl. Mater. Interfaces**, **2013**, **5** (13), pp **6155–6160**. (IF = 6.72).
- 32) A. B. Gurav, **Sanjay S. Latthe** and R. S. Vhatkar, "Sol-gel processed porous water repellent silica micro-bowls", **Surface Innovations**, **1** (SI3), (2013), **176-180**.
- 33) M. W. Lee, **Sanjay S. Latthe**, A. Yarin, and S. S. Yoon, "Dynamic Electrowetting-on-dielectric (DEWOD) on Unstretched and Stretched Teflon", **Langmuir**, **29** (25) (2013) **7758–7767**. (IF = 4.38).
- 34) K. D. Demir, B. Kiskan, **Sanjay S. Latthe**, A. L. Demirel, and Y. Yagci, "Thermally curable fluorinated main chain benzoxazine polyethers via Ullmann coupling", **Polymer Chemistry**, **4** (6) (2013) **2106-2114**. (IF = 5.52).
- 35) M. W. Lee, S. An, B. Joshi, **Sanjay S. Latthe**, and S. S. Yoon, "Highly efficient wettability control via three-dimensional (3D) suspension of titania nanoparticles in polystyrene nanofibers", **ACS Applied Materials and Interfaces**, **5** (4) (2013) **1232-1239**. (IF = 6.72).
- 36) **Sanjay S. Latthe** and A. L. Demirel, "Polystyrene/octadecyltrichlorosilane superhydrophobic coatings with hierarchical morphology", **Polymer Chemistry**, **4** (2013) **246-249**. (IF = 5.52).
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- 38) A. V. Rao, **Sanjay S. Latthe**, C. Kappenstein, V. Ganesan, M. C. Rath and S. N. Sawant, "Wetting behaviour of high energy electron irradiated porous superhydrophobic silica films", **Applied Surface Science**, **257** (2011) **3027–3032**. (IF = 2.71).
- 39) A. V. Rao, **Sanjay S. Latthe**, S. A. Mahadik and C. Kappenstein, "Mechanically stable and corrosion resistant superhydrophobic sol-gel coatings on copper substrate", **Applied Surface Science**, **257** (2011) **5772–5776**. (IF = 2.71).
- 40) A. B. Gurav, **Sanjay S. Latthe**, C. Kappenstein, S. K. Mukharjee, A. V. Rao and R. S. Vhatkar, "Porous water repellent silica coatings on glass by sol-gel method", **J. Porous Materials**, **18** (2011) **361-367**. (IF = 1.34).
- 41) M. S. Khandekar, R. C. Kambale, **Sanjay S. Latthe**, J. Y. Patil, P. A. Shaikh, N. Hur and S. S. Suryavanshi, "Role of fuels on intrinsic and extrinsic properties of CoFe₂O₄ synthesized by combustion method", **Materials Letters**, **65** (2011) **2972-2974**. (IF = 2.48).

- 42) V. V. Ganbavle, U. K. H. Bangi, **Sanjay S. Latthe**, S. A. Mahadik and A. V. Rao, "Self-cleaning silica coatings on glass by single step sol-gel route", **Surface & Coatings Technology, 205 (2011) 5338-5344.** (IF = 1.94).
- 43) S. L. Dhere, U. K. H. Bangi, **Sanjay S. Latthe**, and A. V. Rao, "Enhancement in hydrophobicity of silica films using metal acetylacetonate and heat treatment", **J. Physics and Chemistry of Solids, 72 (2011) 45-49.** (IF = 1.52).
- 44) **Sanjay S. Latthe**, H. Imai, V. Ganesan, C. Kappenstein and A. V. Rao, "Optically transparent superhydrophobic TEOS-derived silica films by surface silylation method", **J. Sol-Gel Science and Technology, 53 (2010) 208-215.** (IF = 1.66).
- 45) **Sanjay S. Latthe**, H. Imai, V. Ganesan and A. V. Rao, "Ultrahydrophobic silica films by sol-gel process", **J. Porous Materials, 17 (2010) 565-571.** (IF = 1.34).
- 46) **Sanjay S. Latthe**, S. L. Dhere, C. Kappenstein, H. Imai, V. Ganesan, S. C. Gupta, P. B. Wagh and A. V. Rao, "Sliding behavior of water drops on sol-gel derived hydrophobic silica films", **Applied Surface Science, 256 (2010) 3259-3264.** (IF = 2.71).
- 47) **Sanjay S. Latthe**, H. Imai, V. Ganesan and A. V. Rao, "Porous superhydrophobic silica films by sol-gel process", **Microporous and Mesoporous Materials, 130 (2010) 115-121.** (IF = 3.36).
- 48) A. V. Rao, **Sanjay S. Latthe**, S. L. Dhere, S. S. Pawar, H. Imai, V. Ganesan, S. C. Gupta and P. B. Wagh, "Control on wetting properties of spin-deposited silica films by surface silylation method", **Applied Surface Science, 256 (2010) 2115-2121.** (IF = 2.71).
- 49) S. L. Dhere, **Sanjay S. Latthe**, C. Kappenstein, G. M. Pajonk, H. Imai, V. Ganesan, S. C. Gupta, P. B. Wagh and A. V. Rao, "Transparent water repellent silica films by sol-gel process", **Applied Surface Science, 256 (2010) 3624-3629.** (IF = 2.71).
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- 51) A. V. Rao, A. B. Gurav, **Sanjay S. Latthe**, R. S. Vhatkar, C. Kappenstein, P. B. Wagh, and S. C. Gupta, "Water repellent porous silica films by sol-gel dip-coating method", **J. Colloid and Interface Science, 352 (2010) 30-35.** (IF = 3.17).
- 52) **Sanjay S. Latthe**, H. Imai, V. Ganesan and A. V. Rao, "Superhydrophobic silica films by sol-gel co-precursor method", **Applied Surface Science, 256 (2009) 217-222.** (IF = 2.71).
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- 55) A. V. Rao, **Sanjay S. Latthe**, D. Y. Nadargi, H. Hirashima, and V. Ganesan, “Preparation of MTMS based transparent superhydrophobic silica films by sol–gel Method”, ***J. Colloid and Interface Science***, **332 (2009) 484-490**. (IF = 3.17).
- 56) D. Y. Nadargi, **Sanjay S. Latthe**, H. Hirashima, and A. V. Rao, “Studies on rheological properties of methyltriethoxysilane (MTES) based flexible superhydrophobic silica aerogels”, ***Microporous and Mesoporous Materials***, **117 (2009) 617-626**. (IF = 3.36).
- 57) D. Y. Nadargi, **Sanjay S. Latthe**, and A. V. Rao, “Effect of post-treatment (gel aging) on the properties of methyltrimethoxysilane based silica aerogels prepared by two-step sol–gel process”, ***J. Sol-Gel Science and Technology***, **49 (2009) 53-59**. (IF = 1.66).
- 58) D. S. Dhawale, A. M. More, **Sanjay S. Latthe**, K. Y. Rajpure, and C. D. Lokhande, “Room temperature synthesis and characterization of CdO nanowires by chemical bath deposition (CBD) method”, ***Applied Surface Science***, **254 (2008) 3269-3273**. (IF = 2.71).

E. Research Articles Published in Conferences and Symposiums (27)

- 1) R. S. Sutar, N. P. Kulkarni, S. Nagappan, A. R. Jundle, P. G. Pawar, N. N. Pargaonkar, N. B. Gharge, P. S. Yadav, S. S. Kshirsagar, S. S. Kanchankoti, A. S. Sawant, S. G. Kodag, S. S. Mahajan, V. S. Shinde, K. H. Park, K. K. Sadasivuni, A. K. Bhosale, **Sanjay S. Latthe**, “Octadecyltrichlorosilane-Modified Superhydrophobic-Superoleophilic Stainless Steel Mesh for Oil-Water Separation”, *Macromolecular Symposia*, 400 (1), 2100096, 2021.
- 2) R. S. Sutar, P. B. Patil, A. K. Bhosale, S. Nagappan, S. R. Shinde, P. P. Chikode, C. E. Patil, S. S. Kadam, P. M. Kadam, C. R. Bobade, K. K. Sadasivuni, K. H. Park, **Sanjay S. Latthe**, “Photocatalytic and Superhydrophilic TiO₂-SiO₂ Coatings on Marble for Self-Cleaning Applications”, *Macromolecular Symposia* 400 (1), 2100083, 2021.
- 3) Rajaram S. Sutar, Shriram D. Manadeshi, **Sanjay S. Latthe**, S. R. Kulal, G. D. Salunkhe, K. K. Rangar, R. A. Lavate, S. B. Raut, A. C. Sapkal, A. K. Bhosale, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing, “Superhydrophobic Coating Using TiO₂ NPs/PMHS Composite for Self-Cleaning Application”, *Macromolecular Symposia*, vol. 393, no. 1, p. 2000033, 2020.
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- with Notable Self-Cleaning Ability”, *Macromolecular Symposia*, vol. 393, no. 1, p. 2000116, 2020.
- 5) Rajaram S. Sutar, Revati C. Salunkhe, **Sanjay S. Latthe**, Vishnu S. Kodag, Poonam M. Shewale, Shital R. Shinde, M. B. Sajjan, M. H. Karenavar, Kishor Kumar Sadasivuni, Santosh V. Mohite, Shanhu Liu, Ruimin Xing, “Superhydrophobic PU Sponge Modified by Hydrophobic Silica NPs—Polystyrene Nanocomposite for Oil–Water Separation”, *Macromolecular Symposia*, vol. 393, no. 1, p. 2000035, 2020.
 - 6) Rajaram S. Sutar, **Sanjay S. Latthe**, A. M. Sargar, C. E. Patil, V. S. Jadhav, A. N. Patil, K. K. Kokate, Appasaheb K Bhosale, Kishor Kumar Sadasivuni, Santosh V. Mohite, Shanhu Liu, Ruimin Xing, “Spray Deposition of PDMS/Candle Soot NPs Composite for Self-Cleaning Superhydrophobic Coating”, *Macromolecular Symposia*, vol. 393, no. 1, p. 2000031, 2020.
 - 7) Rajaram S. Sutar, Manisha S. Mane, **Sanjay S. Latthe**, P. G. Pawar, Sarita S. Kumbhar, Uma V. Nerle, U. E. Mote, J. L. Bhosale, B. N. Kokare, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing, “Oil–Water Separation by ZnO-Based Superhydrophobic PU Sponges”, *Macromolecular Symposia*, vol. 393, no. 1, p. 2000036, 2020.
 - 8) Sonali B. Jadhavar, Rajaram S. Sutar, **Sanjay S. Latthe**, R. S. Vhatkar, “Preparation of Superhydrophobic Coating Using Silica–PMMA Nanocomposite”, *Macromolecular Symposia*, vol. 393, no. 1, p. 2000161, 2020.
 - 9) Rajaram S. Sutar, Prashant J. Kalel, **Sanjay S. Latthe**, Deepak A. Kumbhar, Smita S. Mahajan, Prashant P. Chikode, Swati S. Patil, Sunita S. Kadam, V. H. Gaikwad, Appasaheb K. Bhosale, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing, “Superhydrophobic PVC/SiO₂ Coating for Self-Cleaning Application”, *Macromolecular Symposia*, vol. 393, no. 1, p. 2000034, 2020.
 - 10) **Sanjay S. Latthe**, Rajaram S. Sutar, A. K. Bhosale, Vishnu S. Kodag, Poonam M. Shewale, Ruimin Xing, and Shanhu Liu, “Fabrication of Silica/PMMA Composite based Superhydrophobic Coating by Drop Casting Method” in the International Conference on Smart Materials and Nanotechnology (ICSMN-2020) organized by SKN Sinhgad College of Engineering, Korti, Pandharpur-413304, Maharashtra, India during 02nd - 04th January, 2020.
 - 11) R. S. Sutar, **Sanjay S Latthe**, A. K. Bhosale, Ruimin Xing, and Shanhu Liu, “Durable Self-Cleaning Superhydrophobic Coating of SiO₂–Cyanoacrylate Adhesive via Facile Dip Coat Technique”, *Macromolecular Symposia*, 2019, 387 (1), 1800218 in Third International Conference on Advances in Materials Science (ICAMS-2016) organized by *Post-graduate Department of Physics, Raje Ramrao College, Jath, Maharashtra, India* on December 27 – 29 December, 2019.
 - 12) R. S. Sutar, A. Somadder, S. B. Pawar, T. M. Khot, T. B. Shinde, P. G. Pawar, A. K. Bhosale and **Sanjay S. Latthe**, “Durability of Superhydrophobic Candle Soot Layer Deposited on Adhesive Tape” in ‘International Conference on Recent Trends in Science, Engineering Technology and Humanities 2018’ (ICRTSETH 2018),

- organized by **Shivaji Polytechnic College, Sangola, Maharashtra, India** on 13th April 2018. International Journal of Multifaceted and Multilingual Studies, Vol. – V (IV), April 2018, pp. 67 – 70. ISSN (Print): 2394-207X.
- 13) R. S. Sutar, S. B. Pawar, T. B. Shinde, T. M. Khot, D. R. Gade, A. K. Bhosale and **Sanjay S. Latthe**, “*Improvement in the Durability of Superhydrophobic Candle Soot Layer using Polystyrene*” in International Conference on ‘New Trends in Nanotechnology’ (ICNTN – 2018) organized by **Department of Physics, Arts, Science & Commerce College, Indapur, Dist- Pune, Maharashtra, India** on 26th – 27th February 2018. International Journal of Multifaceted and Multilingual Studies, Vol. – V (II), February 2018, pp. 86 – 88. ISSN (Print): 2394-207X.
- 14) R. S. Sutar, A. M. Kokare, D. M. Chougule, M. S. Ankalagi, R. L. Kalal, S. P. Pattanshetti, S. S. Kokare, S. R. Kokare, A. K. Bhosale and **Sanjay S. Latthe**, “*Bio-inspired Superhydrophobic and Icephobic Surfaces - A Short Review*” in One Day National Conference on Recent Advances in Zoology (RAIZ – 2018) organized by **Dept. of Zoology, Raje Ramrao Mahavidyalaya, Jath, Maharashtra, India** on 13th January 2018. International Journal of Life Sciences, 2018, pp. 177 – 180 (ISSN:23-7817(P), ISSN:2320-964X(O)) (Special Issue).
- 15) A. M. Kokare, R. S. Sutar, S. G. Deshmukh, R. Xing, Shanhu Liu, and **Sanjay S. Latthe**, “*ODS – Modified TiO₂ Nanoparticles for the Preparation of Self-cleaning Superhydrophobic Coating*” in 2nd International Conference on Condensed Matter & Applied Physics (ICC-2017) organized by **Department of Physics, Govt. Engineering College Bikaner, Bikaner, Rajasthan, India** on 24-25th November, 2017. (AIP Conference Proceedings 1953, 100068, 2018).
- 16) Ashvini M. Kokare, Rajaram S. Sutar, Dipali M. Chougule, and **Sanjay S. Latthe**, “*Superhydrophobic Coating using Organically Modified TiO₂ Nanoparticles*” in *Advances in Materials Science – 2017 (A special issue for ICAMS - 2017) pp. 47 – 50 (ISBN: 978 – 84 – 931247 – 6 – 5)* published by Bhumi Publishing, Kolhapur, Maharashtra, India (2017).
- 17) Balaji T. Khogare, Rajaram S. Sutar, Krishna K. Rangar, and **Sanjay S. Latthe**, “*Recent Advances in Carbon Soot Coated Superhydrophobic Materials for Oil-water Separation (Short Review)*” in *Advances in Materials Science – 2017 (A special issue for ICAMS - 2017) pp. 64 – 67 (ISBN: 978 – 84 – 931247 – 6 – 5)* published by Bhumi Publishing, Kolhapur, Maharashtra, India (2017).
- 18) Rajaram S. Sutar, A. K. Bhosale and **Sanjay S. Latthe**, “*A Facile Fabrication of Durable PS-SiO₂ Composite Superhydrophobic Coatings*” in *Advances in Materials Science – 2017 (A special issue for ICAMS - 2017) pp. 146 – 150 (ISBN: 978 – 84 – 931247 – 6 – 5)* published by Bhumi Publishing, Kolhapur, Maharashtra, India (2017).
- 19) S. G. Deshmukh, A. M. More and **Sanjay S. Latthe**, “*Structural, Raman and Wettability Properties of Nanocrystalline ZnO Thin Film deposited by SILAR Method*” in *Advances in Materials Science – 2017 (A special issue for ICAMS - 2017) pp. 167 – 170 (ISBN: 978 – 84 – 931247 – 6 – 5)* published by Bhumi Publishing, Kolhapur, Maharashtra, India (2017).

- 20) Tejaswini B. Shinde, Smita B. Pawar, Tushar M. Khot, Dipali R. Gade, and **Sanjay S. Latthe**, “Preparation of Superhydrophobic – Superoleophilic Candle Soot Deposited Membranes for Oil – Water Separation Applications” in *Advances in Materials Science – 2017 (A special issue for ICAMS - 2017) pp. 268 – 271 (ISBN: 978 – 84 – 931247 – 6 – 5)* published by Bhumi Publishing, Kolhapur, Maharashtra, India (2017).
- 21) **Sanjay S. Latthe**, “Sol-gel Processed Superhydrophobic Silica Coatings for Self-cleaning Applications” in International Conference on Innovations In Engineering and Technology (CIET2K16) organized by **SKN Sinhgad College Of Engineering, Pandharpur, Maharashtra, India** on 30-31st December 2016. *International Journal of Research in Computer Science and Information Technology (IJRCSIT), IJRCSIT I ISSN No. : 2319-5010 I Vol. 1 I Issue 31 Dec 2016.*
- 22) **Sanjay S. Latthe**, “Superhydrophobic Coatings Developed using Modified Alumina Nanoparticles for Self-Cleaning Applications” in International Conference on Advances in Materials Science (ICAMS-2016) organized by **Post-graduate Department of Physics, Raje Ramrao College, Jath, Maharashtra, India** on December 7-8th, 2016. *Vol-I (ISBN: 978-93-5254-490-5).*
- 23) R. S. Sutar, A. K. Bhosale, S. P. Dharigouda and **Sanjay S. Latthe**, “Self-cleaning Superhydrophobic Silica Coatings Modified by Polystyrene” in International Conference on Advances in Materials Science (ICAMS-2016) organized by **Post-graduate Department of Physics, Raje Ramrao College, Jath** on December 7-8th, 2016. *Vol-I (ISBN: 978-93-5254-490-5).*
- 24) B. T. Khogare, S. R. Kulal, K. K. Rangar, G. D. Salunkhe, P. G. Pawar and **Sanjay S. Latthe**, “A polystyrene modified sponges for effective oil/water separation” in International Conference on Advances in Materials Science (ICAMS-2016) organized by **Post-graduate Department of Physics, Raje Ramrao College, Jath, Maharashtra, India** on December 7-8th, 2016. *Vol-II A (ISBN: 978-93-5254-490-5).*
- 25) **Sanjay S. Latthe**, C. Terashima, K. Nakata, and Akira Fujishima, “Photocatalytic TiO₂ Coatings on Polycarbonate Sheets for Self-cleaning Application” in 21st Photocatalyst Symposium Secretariat 2014 held at **University of Tokyo, Tokyo, Japan**, on 12th December 2014. (*Photo Functionalized Materials Society, Vol. 45, ISSN 1345-5818*).
- 26) **Sanjay S. Latthe**, C. Terashima, K. Nakata, and Akira Fujishima, “Self-cleaning TiO₂ Coatings on Polycarbonate” in International Conference on Advanced and Applied Material Science (ICAAMS-2014) organized by **Gopal Krishna Gokhale College, Kolhapur-416012, Maharashtra, India** on 15 – 16th January 2014. (*ISBN 978-81-928717-2-1*).
- 27) **Sanjay S. Latthe**, C. Terashima, K. Nakata, and Akira Fujishima, “Superhydrophilic TiO₂ Coating on Polycarbonate for Self-cleaning Application” in 20th Photocatalyst Symposium Secretariat 2013 held at **University of Tokyo, Tokyo, Japan**, on 13th December 2013. (*Photo Functionalized Materials Society, Vol. 42, ISSN 1345-5818*).

F. Online Educational Courses (06)

- 1) Participated, online course of “Classical Electromagnetism - 1 (Electrostatics)” organized by **Indian Institute of Technology (IIT), Kanpur** on 15th August to 13th December 2020.
- 2) Participated, online course of “Learning Physics Through Simple Experiments” organized by **Indian Institute of Technology (IIT), Kanpur** on 02nd April – 10th June 2020.
- 3) Participated, online course of “Advanced Course on Special theory of Relativity” organized by **Indian Institute of Technology (IIT), Kanpur** on 26th January – 19th May 2020.
- 4) Participated, online course of “*Basics of Quantum Mechanics*” organized by **Indian Institute of Technology (IIT), Kanpur** on 15th August to 18th November 2019.
- 5) Participated, online course of “*Physics of Semiconductors*” organized by **Indian Institute of Technology (IIT), Kanpur** on 20th August to 20th November 2017.
- 6) Participated, online course of “*Learning through Physics Experiments*” organized by **Indian Institute of Technology (IIT), Kanpur** on 20th September to 20th November 2016.

G. Papers Presented at National and International Conferences (68)

- 1) **Participated**, “First International Conference on Recent Trends in Physical, Chemical, Biological Nanosciences (ICRT-PCBNano-2022)”, organized by Department of Physics, Lal Bahadur Shastri College of Arts, Science and Commerce, Satara on 17th – 18th May 2022.
- 2) **Participated**, “One Day National Workshop on Advances in Functional and Sustainable Materials” organized by Department of Physics, Sadguru Gadage Maharaj College, Karad in collaboration with Department of Physics, Smt. K. R. P. Kanya Mahavidyalaya, Islampur, Maharashtra, India on 08th April 2022.
- 3) **Participated**, National Workshop on “Understanding the Revised Assessment and Accreditation Process” organized by IQAC and Sangola College Sangola on 10th March 2022.
- 4) **Participated**, “International Web-Seminar on “Recent Trends in Nanostructured Materials Based Devices and Their Applications” organized by Department of Physics and IQAC in Collaboration with Electra Solar Energy System Pvt. Ltd, MIDC, Koregaon, Dist-Satara on 18th July, 2020.
- 5) **Oral Presentation** on research paper entitled “Superhydrophobic Surfaces for Self-Cleaning Applications” in “Two Days International E-Conference on Cutting Edge Smart Materials and Nanotechnology (ICCESMN-2020)” jointly organized by

Department of Physics and IQAC of Sadguru Gadage Maharaj College, Karad, Maharashtra, India from 20th – 21st August 2020.

- 6) **Participated** in Five Days National Virtual Workshop on "Preparation of Physics NET/SET Examination" organized by Department of Physics and IQAC of Sadguru Gadage Maharaj College, Karad, Maharashtra, India from 29th July - 02nd August 2020.
- 7) **Participated**, Online International Conference on “Advanced Materials” organized by P.C. Jabin Science College, Hubballi, Karnataka, India, held on 20th July 2020.
- 8) **Participated**, One Week Online Workshop on NAAC Assessment and Accreditation Framework (Standard Operating Procedure) organized by Arts, Commerce and Science College, Palus from 27 July – 01st August 2020.
- 9) **Participated**, One Day International E-Conference on “Advanced Functional Nanomaterials and Their Device Applications” organized by Department of Physics and IQAC, Krishna Mahavidyalaya, Rethare Bk, Maharashtra, India on 10th August, 2020.
- 10) **Participated**, National Webinar on “Advanced Materials for Multifunctional Applications” organized by Department of Physics and Internal Quality Assurance Cell (IQAC), Padmabhushan Dr. Vasantraodada Patil Mahavidyalaya, Tasgaon, Maharashtra, India on Friday, 04th September 2020.
- 11) **Participated**, One Day International Online Workshop on “Nanomaterial Synthesis is Emerging Facet of the World” organized by Late Pushpadevi Patil Arts and Science College, Risod, Maharashtra, India on 20th May 2020.
- 12) **Participated**, International Web-Seminar on “Novel Applications of Nanomaterials” organized by Prof. Dr. N. D. Patil Mahavidyalaya, Malakapur, Maharashtra, India on 18th July 2020.
- 13) **Participated**, One Day National online seminar on "Recent Trends in Materials Research" organized by Department of Physics, Balwant College, Vita, Maharashtra, India on 29th July 2020.
- 14) **Participated**, One day online national conference on "Emerging Trends in Physical Sciences NCETPS-2020" organized by Arts, Science and Commerce College Ramanandnagar (Burli) on 22nd July 2020.
- 15) **Participated**, Indo-UK Virtual Conference ‘Current Innovations and the Future of Therapeutic Developments’ CIFTD-2020, organized by Centre for Biomaterials Cellular & Molecular Theranostics (CBCMT) at Vellore Institute of Technology (VIT), Vellore, India and Swansea University, United Kingdom from 01st – 03rd June, 2020.

- 16) **Participated**, Virtual Conference on “Materials for Energy Harvesting and Catalysis” organized by Tata Institute of Fundamental Research (TIFR), Mumbai from 01st - 03rd May 2020.
- 17) **Participated**, National e-Conference on “Spectroscopic Characterization Techniques in Research” organized by Department of Physics and IQAC, Shrimant Babasaheb Deshmukh Mahavidyalaya, Atpadi, Maharashtra, India on 17th July 2020.
- 18) **Participated**, Virtual International Poster Conference on COVID-19 (VIP-C-COVID: Impact and Response) organized by Internal Quality Assurance Cell (IQAC), Karmaveer Hire Arts, Science, Commerce and Education College, Gargoti, Tal –Bhudargad, Dist – Kolhapur, M.S. India in collaboration with Bhumi Publishing, India from 12th – 13th June, 2020.
- 19) **Participated**, One Day Workshop on ‘NAAC- Revised Accreditation Framework’ organized by Internal Quality Assurance Cell under the aegis of RUSA, Maharashtra; Regional Joint Director, Higher Education, Kolhapur & IQAC, Shivaji University, Kolhapur and Yashavantrao Chavan Institute of Science (Autonomous) on 01st June, 2020.
- 20) **Participated**, National Level Virtual Conference On “Environment and Biodiversity for Sustainable Development” organized by Department of Chemistry, Botany & Zoology in association with IQAC, Raje Ramrao Mahavidyalaya, Jath - 416 404, Dist - Sangli, Maharashtra, India. 04th - 05th June, 2020.
- 21) **Participated**, International E-Conference on “Strategies & Challenges in Higher Education during COVID-19 Lockdown Period in India with reference to the World” organized by Government Vidarbha Institute of Science & Humanities, Amravati, India on 15th - 17th May, 2020.
- 22) **Participated**, Online Workshops on “Intellectual Property Rights” organized by PDPU, New Delhi from 10th – 11th April 2020.
- 23) **Participated**, One Day International Conference on “Clean Energy Conservation and Storage Technologies” organized by Shri Pancham Khemraj Mahavidyalaya, Sawantwadi, Maharashtra, India on 30th April 2020.
- 24) **Participated**, “International Conference on Recent Trends in Advanced Materials-2020” (ICRTAM-2020), Jointly organized by Nevjabai Hitkarini College, Bramhapuri, Dist. Chandrapur, Late. B. S. Arts, Prof. N. G. Science & A. G. Commerce College, Sakharkheda Dist. Buldhana and Shri. Sant Gadge Maharaj Mahavidyalaya, Hingna, Dist. Nagpur held on 6th July, 2020.
- 25) **Participated**, Second International Twitter Conference #Nanobio20 organized by The New College, Kolhapur and Dada Patil Mahavidyalaya, Karjat along with knowledge partners Department of Botany, Shivaji University, Kolhapur, from 13th - 15th April, 2020.

- 26) **Received Award** as “Most Active Participant Award (Second Prize)” in Second International Twitter Conference #NanoBio20 organized by the New College, Kolhapur, Maharashtra, India during 13th – 15th April 2020.
- 27) **Participated**, “National Level Innovative Research Idea Competition of Vivekanand Mahotsav 2020: Shodh Chaitanyacha” organized by Vivekanand College, Kolhapur on 31st January 2020.
- 28) **Participated**, One Day State Level Seminar on “*Advanced Materials and Nanotechnology*” organized by Department of Physics, **Karmaveer Bhaurao Patil Mahavidyalaya, Pandharpur, Maharashtra, India** on 04th February 2020.
- 29) **Participated**, One Day International Conference on Recent Advances in Physical and Chemical Sciences (ICRAPCS-2020) organized by **Sangola College, Sangola, Dist: Solapur, Maharashtra, India** on 22nd January 2020.
- 30) **Participated**, “*Fourth International Conference on Advances in Materials Science*” organized by **Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India** on 20th – 21st January 2020.
- 31) **Participated**, “*International Conference on Smart Materials and Nanotechnology (ICSMN-2020)*” organized by SKN Sinhgad College of Engineering, Korti, Pandharpur-413304, Maharashtra, India during 02nd - 04th January, 2020.
- 32) **Participated**, The 3rd International Symposium on Recent Progress of Energy and Environmental Photocatalysis (Photocatalysis 3) organized by Katsushika Campus, **Tokyo University of Science, Tokyo, Japan** during 29-30 November 2019.
- 33) **Participated**, The First Chemistry International Summer Camp of Henan University organized by **Henan University, China** during 12-13 July 2019.
- 34) **Participated**, “*One Day International Workshop on Job Opportunities for Indian Students in Japan*” organized by **Department of Chemistry, Department of Physics and IQAC, Raje Ramrao Mahavidyalaya, Jath, India** on 28th February 2019.
- 35) **Participated**, “*One Day National Workshop on Contributions of Women to Science and Opportunities for Women in Science*” organized by **Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India** on 15th February 2019.
- 36) **Participated**, “*National Conference on Nanomaterials-2018 (NCNm-2018)*”, organized by **Department of Physics, Vivekanand College, Kolhapur, Maharashtra, India** on 21st August 2018.
- 37) **Participated**, “*International Conference on Recent Trends in Science, Engineering*

- Technology and Humanities 2018*” (ICRTSETH 2018), organized by **Shivaji Polytechnic College, Sangola**, Maharashtra, India on 13th April 2018.
- 38) **Participated**, “*International Conference on ‘New Trends in Nanotechnology (ICNTN – 2018)*” organized by Department of Physics, **Arts, Science & Commerce College, Indapur**, Dist- Pune, Maharashtra, India on 26th – 27th February 2018.
- 39) **Participated**, “*One Day National Conference on Recent Advances in Zoology (RAIZ – 2018)*” organized by Dept. of Zoology, **Raje Ramrao Mahavidyalaya, Jath**, Maharashtra, India on 13th January 2018.
- 40) **Oral Presentation**, “*Second International Conference on Advances in Materials Science*” organized by **Post-Graduate Department of Physics, Raje Ramrao Mahavidyalaya, Jath, India** on 22nd – 23rd December 2017.
- 41) **Poster Presentation**, “*Joint Symposium of the 2nd International Symposium on Recent Progress of Energy and Environmental Photocatalysis & the 23rd China-Japan Bilateral Symposium on Intelligent Electrophotonic Materials and Molecular Electronics*” organized by **Tokyo University of Science, Katsushika campus, Tokyo, Japan** on 1–3 December, 2017.
- 42) **Participated**, 2nd International Conference on “*Condensed Matter & Applied Physics (ICC-2017)*” organized by Department of Physics, **Govt. Engineering College Bikaner, Bikaner, Rajasthan**, India on 24th – 25th November, 2017.
- 43) **Participated**, National Conference on “*Recent Trends in Nanomaterials, (NCRTN-2017)*” organized by Department of Nanoscience and Technology, **Yashavantrao Chavan Institute of Science, Satara**, Maharashtra, India on 28th September 2017.
- 44) **Participated**, One Day Workshop on “*Formulation of Research Proposal for the RGSTC Scheme-Assistance for S & T Applications through University System*” organized by **RGSTC, Shivaji University, Kolhapur**, Maharashtra, India on 6th May 2017.
- 45) **Participated**, Two Day National Seminar on “*Changing Paradigms of Social Movements*” organized by **Dept. of Political Science, Raje Ramrao Mahavidyalaya, Jath** on 17–18th February 2017.
- 46) **Participated**, One Day Workshop on “*The Maharashtra Public Universities Act, 2016*” organized by **Shivaji University Teacher’s Association (SUTA), Kolhapur at Balwant College, Vita, Dist. Sangli** on 5th February 2017.
- 47) **Participated**, “*National Conference on Recent Trends in Physical, Chemical and Nanosciences-2017 (NCRT-PCNano-2017)*” jointly organized by **Department of**

- Physics and Chemistry, Lal Bahadur Shastri College of Arts, Science and Commerce, Satara* on 23rd January 2017.
- 48) **Participated**, “Recent Trends in Nanomaterials and its Applications (RTNA-2017)” jointly organized by **Department of Physics and Chemistry, Vidnyan Mahavidyalaya, Sangola** on 21st January 2017.
- 49) **Participated**, “MSBTE on Wheel Career Fair 2016-17” organized by **Shivaji Polytechnic College, Sangola** on 7th January 2017.
- 50) **Oral presentation**, **First Prize for Paper Presentation**, *International Conference on Innovations In Engineering and Technology (CIET2K16)* organized by **SKN Sinhgad College Of Engineering, Pandharpur** on 30–31st December 2016.
- 51) **Oral presentation**, “International Conference on Advances in Materials Science (ICAMS-2016)” organized by **Post-graduate Department of Physics, Raje Ramrao College, Jath** on December 7–8, 2016.
- 52) **Poster presentation**, “Third International Conference on Nanotechnology for Better Living, Theme: Nano-Materials for Electronics, Energy, Environment and Structure” jointly organized by **IIT Kanpur and NIT Srinagar** held at **National Institute of Technology, Srinagar, Jammu Kashmir, India** on May 25th – 29th, 2016.
- 53) **Participated**, “The Genetic Revolution and Its Future Impact”, **Nobel Prize Dialogue Tokyo 2015** held at **Tokyo International Forum (Hall B5, B7), Tokyo, Japan** on 1st March 2015.
- 54) **Oral presentation**, “21st Photocatalyst Symposium Secretariat 2014” at **University of Tokyo, Tokyo, Japan**, 12th December 2014.
- 55) **Oral presentation**, **First Prize for Paper Presentation**, “International Conference on Mechanical and Production Engineering (ICMPE)” organized by **Institute of Technology and Research** held at **Kolhapur, Maharashtra** on 29th June 2014.
- 56) **Oral presentation**, “International Conference on Advanced and Applied Material Science (ICAAMS-2014)” at **Gopal Krishna Gokhale College, Kolhapur, Maharashtra (India)**, 15th–16th January, 2014.
- 57) **Oral presentation**, “20th Photocatalyst Symposium Secretariat 2013” at **University of Tokyo, Tokyo, Japan**, 13th December 2013.
- 58) **Participated**, “Global Photovoltaic Conference 2012 (GPVC2012)”, **Busan, South Korea**, 19th–21st November, 2012.
- 59) **Oral presentation**, “International Conference on Materials Science and Technology (ICMST 2012)” at **Department of Physics St. Thomas College Pala Arunapuram**

- PO, Kottayam DT, Kerala (India), 10th–14th June 2012.**
- 60) **Poster presentation**, “*National Seminar on Advanced Materials (NSAM-2010)*” at **Dept. of Physics, Shivaji University, Kolhapur (India), 19th–20th March 2010.**
- 61) **Poster presentation**, “*International Conference on Sol-Gel Processes for Advanced Ceramics (SGPAC-2009)*” at **Convention Centre, Anupuram (Kalpakkam), (India), 11th–14th October, 2009.**
- 62) **Poster presentation**, “*International Workshop on Molecular/Organic Electronic Devices (MOED-2009)*” at **Guru Nanak Dev University, Amritsar, (India), 22nd – 25th September, 2009.**
- 63) **Poster presentation**, “*International Workshop on Nanotechnology and Advanced Functional Materials (NAFM—2009)*” at **National Chemical Laboratory (NCL), Pune, (India), 9th–11th July, 2009.**
- 64) **Poster presentation**, “*53rd DAE Solid State Physics Symposium (DAE-SSPS)*”, at **Bhabha Atomic Research Centre (BARC) and Tata Institute of Fundamental Research (TIFR) Mumbai, 16th–20th December, 2008.**
- 65) **Poster presentation**, “*International conference on Nanomaterials and Applications (ICNAMA-2008)*” at **Dept. of Physics Shivaji University, Kolhapur (India), 9th–11th December, 2008.**
- 66) **Poster presentation**, “*52nd DAE Solid State Physics Symposium (DAE-SSPS)*”, at **University of Mysore, Mysore (India), 27th–31st December, 2007.**
- 67) **Poster presentation**, “*International conference on Advanced Materials (ICAMA-2007)*” at **Dept. of Physics Shivaji University, Kolhapur (India), 15th–17th November, 2007.**
- 68) **Participated**, “*15th Annual Conference Cum Student’s Carnival on Mathematics for Social Sciences, Shivaji University Mathematics Society (SUMS)*” organized by **Sangola College, Sangola** on 20th – 21st December 2003.

H. Extra-Curricular Activities

- 1) My work experiences with ‘**Marathi Vidnyan Parishad, Mumbai, India**’ during 2005-07 have extensively developed my scientific vision and have provided me with a good base for my early career development. I voluntarily worked for this academy to create awareness about science in school students during the year 2005-07.

- 2) M.Sc. (Physics) education through “***Earn and Learn Scheme***” during 2005-07 at Shivaji University, Kolhapur.
- 3) ***National Cadet Core (NCC)***: “A” (1999) and “B” (2004) Certificates.
- 4) ***English Type-Writing***: 30 WPM, B-grade (November 2004).
- 5) ***MS-CIT***: 67%, January 2004 (Self-study mode).

I hereby declare that all the information given above is correct to the best of my knowledge.

Dr. Sanjay Subhash Latthe

Date: 01 / 10 / 2023
