

CURRICULUM VITAE

Dr. Rajaram Shankar Sutar

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 Date of Birth : 01 June, 1989
 Marital Status : Unmarried
 Gender : Male
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EDUCATIONAL QUALIFICATIONS

Course	University/Board	College/University	Year	Class
Ph.D.	Shivaji University, Kolhapur	Shivaji University, Kolhapur	30 th December, 2021	
SET	Maharashtra State	-	Apr.2017	-
M.Sc.	Shivaji University, Kolhapur	Shivaji University, Kolhapur	2014	First Class
B.Sc.	Shivaji University, Kolhapur	Raje Ramrao College, Jat	2011	First Class
HSC	State Board, Kolhapur	S.R.V.M. High-School & Jr. College, Jat	2007	First Class
SSC	State Board, Kolhapur	Sharadrao Shinde Prashala School, Pachhapur	2005	First Class

Ph.D.

The title of Ph.D. thesis is “**Studies on the Superhydrophobic Coatings based on Nanoparticle-Polymer Nanocomposites for Self-cleaning Application**”

In this work, I have prepared superhydrophobic coatings by dip and spray deposition technique using four types of nanoparticles such as SiO₂, TiO₂, Al₂O₃ and candle soot particles. Coating composites were prepared using these nanoparticles in combination with different polymers and deposited on micro-glass slides. Different characterization techniques were used to analyze surface property and mechanical durability of prepared coatings. In conclusion of this research dip coated candle soot-polypropylene composite coating revealed high water contact angle (~175°) along with low rolling angle (~1°). The candle soot-polypropylene composite coating has exhibited good thermal stability and high mechanical durability than other nanoparticle-polymer composite coatings. The prepared superhydrophobic coatings has showed excellent self-cleaning performance.

Ph.D. Supervisor Name and Affiliation

Name: Dr. A. K. Bhosale,

Affiliation: Associate Professor, Department of Physics, Raje Ramrao College, Jat. Affiliated to Shivaji University, Kolhapur, Maharashtra, India

Research Experience

Worked as Project Assistant in DST-INSPIRE Faculty Fellow, under the supervision of Dr. Sanjay S. Latthe, in Raje Ramrao College, Jat, during 1st September 2016 to 13th September 2020.

Project Completed in M.Sc.

The title of M.Sc. project is “*Synthesis and Characterization of TiO₂ thin film*”

Supervisor Name: Dr. M. V. Moholkar, Professor. Department of Physics, Shivaji University Kolhapur.

Foreign Affairs

- 1) Participated in **Japan-Asia Youth Exchange Program in Science** (SAKURA EXCHANGE PROGRAM IN SCIENCE) administered by **Japan Science and Technology Agency (JST)** during 15th November- 4th December 2017 in Tokyo University of Science, Noda, Japan, under the supervision of Dr. Sanjay S. Latthe.
- 2) Participated in “Second International Symposium on Recent Progress of Energy and Environmental Photocatalysis and the 23rd China-Japan Bilateral Symposium on Intelligent Electrophotonic Materials and Molecular Electronics”, (Photocatalysis 2 & SIEMME’23) Tokyo University of Science, Katsushika, Tokyo, **Japan**. 01st – 03rd December, 2017.

List of International Publications

Google citations: 714 h- index: 9 i10-index: 9

A. Research Papers: 07

- 1) **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*, 11 (2021) 1162. (Impact Factor: 2.881)
- 2) **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*, 138 (2021) 49943. (Impact Factor: 3.125)
- 3) Sanjay S Latthe, Vishnu S Kodag, **Rajaram S Sutar**, Appasaheb K Bhosale, Saravanan Nagappan, Chang-Sik Ha, Kishor Kumar Sadasivuni, Shivaji R Kulal, Shanhu Liu and Ruimin Xing. Sawdust-based Superhydrophobic Pellets for Efficient Oil-water Separation. *Materials Chemistry and Physics*, 243 (2020) 122634. (Impact Factor: 4.094)
- 4) Sanjeev P.Dalawai, Mohamed AlySaad Aly, Sanjay S.Latthe, Ruimin Xing, **Rajaram S.Sutar**, Saravanan Nagappan, Chang-Sik Ha, Kishor Kumar Sadasivunie Shanhu Liu. Recent Advances in durability of superhydrophobic self-cleaning technology: A critical review. *Progress in Organic Coatings* 138 (2020) 10538. (Impact Factor: 5.161)
- 5) Sanjay S. Latthe. **Rajaram S. Sutar**, Appasaheb K. Bhosale, Saravanan Nagappan, Chang Ha, Kishor Sadasivuni, Shanhu Liu, Ruimin Xing. Recent Developments in Air-trapped Superhydrophobic and Liquid-infused Slippery Surfaces for Anti-icing Application. *Progress in Organic Coatings* 137 (2019): 105373. . (Impact Factor: 5.161)
- 6) Sanjay S Latthe, **Rajaram S Sutar**, Vishnu S Kodag, AK Bhosale, A Madhan Kumar, Kishor Kumar Sadasivuni, Ruimin Xing, Shanhu Li. *Self-cleaning superhydrophobic coatings: Potential industrial applications*. *Progress in Organic Coatings*, 128 (2019), 52. (Impact Factor: 5.161)
- 7) Sanjay S Latthe, **Rajaram Sutar**, Tejashwini Shinde, Smita Pawar, Tushar Khot, Appasaheb Bhosale, Kishor Kumar Sadasivuni, Ruimin Xing, Liqun Mao, Shanhu Liu. *Superhydrophobic Leaf Mesh Decorated with SiO₂*

Nanoparticle–Polystyrene Nanocomposite for Oil–Water Separation. ACS Appl. Nano Mater., 2 (2019) 799. (Impact Factor: 5.097)

B. Book Chapters: 05

- 1) **Rajaram S. Sutar**, S. G. Deshmukh, A. M. More, A. K. Bhosale, and Sanjay S. Lathe, “Self-cleaning superhydrophobic SiO₂ NPs coating for the protection of solar cell cover glass”, CRC Taylor & Francis (Accepted, 7 June 2021)
- 2) Sanjay S Lathe, **Rajaram S Sutar**, AK Bhosale, Kishor Kumar Sadasivuni, Shanhu Li. Superhydrophobic surfaces for oil-water Separation. <https://doi.org/10.1016/B978-0-12-816671-0.00016-3> (Elsevier, Superhydrophobic Polymer Coatings, ISBN: 978-0-12-816671-0).
- 3) **Rajaram S. Sutar**, A. K. Bhosale and S. 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).
- 4) A. M. Kokare, **Rajaram S. Sutar**, D. M. Chougule, and S. 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).
- 5) B. T. Khogare, **Rajaram S. Sutar**, K. K. Rangar, and S. 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).

C. Conference Research Papers: 16

- 1) **Rajaram 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, and S. S. Latthe, “Photocatalytic and Superhydrophilic TiO₂ – SiO₂ Coatings on Marble for Self-Cleaning Applications”, Macromolecular Symposia, 400 (2021) 2100083 [I.F. 0.85], Publisher: Wiley, ISSN 1521-3900.
- 2) **Rajaram 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, and S. S. Latthe, “Octadecyltrichlorosilane Modified Superhydrophobic-Superoleophilic Stainless Steel Mesh for Oil- Water Separation”, Macromolecular Symposia, 400 (2021) 2100096. [I.F. 0.85], Publisher: Wiley, ISSN 1521-3900.
- 3) **Rajaram S Sutar**, Shriram D Manadeshi, Sanjay S Latthe, SR Kulal, GD Salunkhe, KK Rangar, RA Lavate, SB Raut, AC Sapkal, Appasaheb K Bhosale, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing. “Superhydrophobic Coating Using TiO₂ NPs/PMHS Composite for Self-Cleaning Application”. Macromolecular Symposia, 393 (2020) 2000033. (Impact Factor: 0.85)
- 4) **Rajaram S Sutar**, Sima S Gaikwad, Sanjay S Latthe, Vishnu S Kodag, SB Deshmukh, LP Saptal, SR Kulal, Appasaheb K Bhosale. “Superhydrophobic Nanocomposite Coatings of Hydrophobic Silica NPs and Poly (methyl methacrylate) with Notable Self-Cleaning Ability”. Macromolecular Symposia, 393 (2020) 2000116. (Impact Factor: 0.85)
- 5) **Rajaram S Sutar**, Revati C Salunkhe, Sanjay S Latthe, Vishnu S Kodag, Poonam M Shewale, Shital R Shinde, MB Sajjan, MH Karennavar, 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, 393 (2020) 2000035. (Impact Factor: 0.85)
- 6) **Rajaram S Sutar**, Sanjay S Latthe, AM Sargar, CE Patil, VS Jadhav, AN Patil, KK 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, 393 (2020) 2000031. (Impact Factor: 0.85)
- 7) **Rajaram S Sutar**, Manisha S Mane, Sanjay S Latthe, PG Pawar, Sarita S Kumbhar, Uma V Nerle, UE Mote, JL Bhosale, BN Kokare, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing. “Oil–Water Separation by ZnO-Based Superhydrophobic PU Sponges”. Macromolecular Symposia, 393 (2020) 2000036. (Impact Factor: 0.85)

- 8) Sonali B Jadhavar, **Rajaram S Sutar**, Sanjay S Latthe, RS Vhatkar. "Preparation of Superhydrophobic Coating Using Silica–PMMA Nanocomposite". *Macromolecular Symposia*, 393 (2020) 2000161. (Impact Factor: 0.85)
- 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, VH Gaikwad, Appasaheb K Bhosale, Kishor Kumar Sadasivuni, Shanhu Liu, Ruimin Xing. "Superhydrophobic PVC/SiO₂ Coating for Self-Cleaning Application". *Macromolecular Symposia*, 393 (2020) 2000034. (Impact Factor: 0.85)
- 10) Sanjay S Latthe, **Rajaram S Sutar**, AK Bhosale, Vishnu S Kodag, Poonam M Shewale, Ruimin Xing, Shanhu Liu. "Fabrication of Silica/PMMA Composite Based Superhydrophobic Coating by Drop Casting Method". *JOURNAL OF NANO- AND ELECTRONIC PHYSICS*, 12 (2020) 02023.
- 11) **Rajaram S. Sutar**, Sanjay S. Latthe, A. K. Bhosale Ruimin Xing, Shanhu Liu. Durable Self-Cleaning Superhydrophobic Coating of SiO₂–Cyanoacrylate Adhesive via Facile Dip Coat Technique. *Macromolecular Symposia*. 387 (2019) 1800218. (Impact Factor: 0.85)
- 12) **Rajaram S. Sutar**, A. K. Bhosale, S. P. Dharigouda and S. 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, Jat on 7-8th December, 2016. Vol – I (ISBN: 978-93-5254-490-5).
- 13) A. M. Kokare, **Rajaram 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). View online: <https://doi.org/10.1063/1.5033004>.
- 14) **Rajaram S. Sutar**, A. Somadder, S. B. Pawar, T. M. Khot, T. B. Shinde, P. G. Pawar, A. K. Bhosale and S. 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.
- 15) **Rajaram 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.
- 16) **Rajaram 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, Jat, 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).

LIST OF INTERNATIONAL/NATIONAL CONFERENCE PARTICIPATION: 23

- 1) Attended the 1st International e-Conference on Chemical & Materials for Emergent technologies (CheMET-2020)" organized by Center for Advanced Materials, Qatar University, **Qatar**, Emergent Materials Journal and Chemistry Africa Journal, Springer, during 15th - 17th November 2020
- 2) International E-Conference on "Cutting Edge Smart Materials & Nanotechnology (ICCESMN-2020)" organized by DEPARTMENT OF PHYSICS & IQAC of Sadguru Gadage Maharaj College, Karad , Maharashtra, India (An Autonomous College) during 20th -21st August 2020
- 3) Participated and presented Abstract in "Fifth International conference on Advances in Material Science", organized by Raje Ramrao Mahavidyalaya Jat during 6th -7th June 2020.

- 4) Participated and presented paper in “Fourth International conference on Advances in Material Science”, organized by Raje Ramrao Mahavidyalaya Jat during 20th – 21st January 2020.
- 5) Participated and presented paper in International Conference on “Smart Materials and Nanotechnology (ICSMN-2020)”, organized by Department of Engineering Physics and Chemistry, SKN Sinhgad College of Engineering, Pandharpur during 2nd -4th January 2020.
- 6) Participated and presented paper in “Third International conference on Advances in Material Science”, organized by Raje Ramrao Mahavidyalaya Jat during 27th -29th December, 2018.
- 7) Participated and presented paper 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, ISSN (Print): 2394-207X .
- 8) Participated and presented paper in “International Conference on Advances in Materials Science (ICAMS-2016)” organized by Post-graduate Department of Physics, Raje Ramrao College, Jat on 7-8th December, 2016. Vol – I (ISBN: 978-93-5254-490-5)
- 9) Participated and presented paper in “International conference on Energy, Environment and Ethics in Research”, organized by Yashwantrao Chavan Warana Mahavidyalaya, Warananagar. 7 Feb. 2019
- 10) Participated and presented paper in “International Conference on ‘New Trends in Nanotechnology (ICNTN – 2018)’” organized by Department of Physics, Arts, Science & Commerce College, Indapur, Maharashtra, India on 26th – 27th February 2018, ISSN (Print): 2394-207X.
- 11) Participated and presented paper in “One Day National Conference on Recent Advances in Zoology (RAIZ – 2018)” organized by Dept. of Zoology, Raje Ramrao Mahavidyalaya, Jat, 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).
- 12) Participated in “National Webinar on Hybrid Nanomaterials for Energy Applications” organized by G. M. Vedak College of Science, Tala, Raigad on 13th January 2021
- 13) Attended the 1st International e-Conference on Chemical & Materials for Emergent technologies (CheMET-2020)” organized by Center for Advanced Materials, Qatar University, **Qatar**, Emergent Materials Journal and Chemistry Africa Journal, Springer, during 15-17 November 2020
- 14) Participated in International Web-Seminar on “Novel Application of Nanomaterials”, organized by Department of Chemistry and Physics, IQAC of Prof. Dr. N. D. Patil Mavidhyalaya, Malkapur-Perid, Sawantwadi on 18th July 2020.
- 15) Participated in National e-Conference on “Spectroscopic Characterization Techniques in Research” organized by Department of Physics and IQAC of Shrimant Babasaheb Deshmukh Mahavidhyalaya, Atpadi, Sangli on 17th July 2020
- 16) Participated in National e-Conference on “Progress in Materials Science” organized by Department of Physics and IQAC of Shrimant Babasaheb Deshmukh Mahavidhyalaya, Atpadi, Sangli on 13th July 2020
- 17) Participated in “National Seminar on Modern Approaches in Sciences”, organized by K. N. Bhise Arts, Commerce and Vinayakrao Patil Science College, Vidyanagar, Bhosare (Kurduwadi), Dist-Salapur. 28 Jan. 2019.
- 18) Participated in One Day Workshop entitled “Biodiversity Conservation”, organized by organized by Department of Chemistry, Raje Ramrao Mahavidhyalaya, Jat on 9th December 2017.
- 19) Participated in “Second International Symposium on Recent Progress of Energy and Environmental Photocatalysis and the 23rd China-Japan Bilateral Symposium on Intelligent Electrophotonic Materials and Molecular Electronics”, (Photocatalysis 2 & SIEMME’23) Tokyo University of Science, Katsushika, Tokyo, **Japan**. 01st – 03rd December, 2017.
- 20) Participated in “National Conference on Recent Trends in Nanomaterial’s (NCRTN-2017)” organized by Department of Nanoscience and Technology, Yashvantrao Chavan Institute of Science, Satara on 28th September 2017.

- 21) Participated in “8th International Conference on Advanced Material Development and Performance”, 11th – 15th July, 2017 (Department of Physics, Savitribai Phule Pune University, Pune, Maharashtra, India).
- 22) Participated in “National Conference on Recent Trends in Physical, Chemical and Nanoscience-.2017 (NCRT-PCNano-2017)” organized by Department of Physics and Department of Chemistry, Lal Bahadur Shastri College of Arts, Science and Commerce, Satara on 23rd January 2017
- 23) Participated in National Seminar on “Recent Trends in Nanomaterials and its Applications” organized by Vidnyan Mahavidyalaya, Sangola on 21st January 2017

TEACHING EXPERIENCE

1. 15th June 2014 – 30th April 2016 - Three year’s experience for under graduate level in Raje Ramrao College, Jat.
2. 15th June 2016 – Till to a date - Four year’s experience for Post-graduate level in Raje Ramrao College, Jat.

AWARDS

1. The “**Best Oral presentation**” award received for presenting a paper at “International conference on Advances in Material Science and Applications (Online) (ICASMA-2020)” on 3rd-4th September, 2020, organized by Dept. of Physics, M.S.Ramaiah Institute of Technology (Autonomous Institute, Affiliated to VTU), Bengaluru-560054, Karnataka, India.
2. The “**Best Oral presentation**” award received for presenting a paper at “Second International Conference on Advances in Materials Science (ICAMS-2017)” organized by Post-graduate Department of Physics, Raje Ramrao College, Jat on 22nd -23rd December, 2017 (ISBN :978-84-931247-6-5).
3. Qualified the “Maharashtra State Eligibility Test (MH-SET)” for Assistant Professor, Conducted by Savitribai Phule Pune University state Agency (Formerly University Of Pune)

EXTRA-CERRICULAR ACTIVITIES

A. Conference and workshop Organized

1. Worked as a **Secretary** of “Fifth International conference on Advances in Material Science” organized by Post graduate Department of Physics, Raje Ramrao Mahavidyalaya Jat. 6th-7th June, 2020.
2. Worked as a **Secretary** of “Fourth International conference on Advances in Material Science” organized by Post graduate Department of Physics, Raje Ramrao Mahavidyalaya Jat. 20th 21st January, 2020.
3. Worked as a **Secretary** of One Day National Workshop on “Contributions of Women to Science & Opportunities for Women in Science” (CWS-OWS-2019)”, organized by Department of Chemistry, Department of Physics & Internal Quality Assurance Cell (IQAC), Raje Ramrao Mahavidyalaya, Jat, 15th February, 2019.
4. Worked as a **Treasurer** of One Day International Workshop on “Job Opportunities for Indian Students in Japan”, organized by Department of Chemistry, Department of Physics & Internal Quality Assurance Cell (IQAC), Raje Ramrao Mahavidyalaya, Jat, 28th February, 2019.
5. Worked as a **Secretary** of “Third International conference on Advances in Material Science” organized by Post graduate Department of Physics, Raje Ramrao Mahavidyalaya Jat. 27th-29th December, 2018.
6. Worked as a **Treasurer** in Second International Conference on Advances in Materials Science (ICAMS-2017) organized by Post-graduate Department of Physics, Raje Ramrao College, Jat on 22nd-23rd December, 2017.
7. Worked as a **Treasurer** in International Conference on Advances in Materials Science (ICAMS-2016) organized by Post-graduate Department of Physics, Raje Ramrao College, Jat on 7th-8th December, 2016.

B. Other

1. Completed the online course **Basics of Special Theory of Relativity** (18th December, 2018 to 8th March, 2019) organized by Centre for Continuing Education, Indian Institute of Technology Kanpur.

2. Four final year Master Science (M.Sc.) students have completed their project work under my guidance during academic year 2018-19.
3. **NET/SET Guidance:** Delivered the Guidance for NET, SET Examination in Chemistry Department, Raje Ramrao Mahavidyalaya, Jat for Master Students on 25th January, 2019.
4. **Gest Lecture:** Delivered a lecture Topic- Interference, Fluid dynamic and viscosity for B.Sc.I, in Arts, Science and Commerce Mahavidyalaya, Umadi, SANGLI on 7th October, 2017 at 10.00 am.
5. Participated in the online course *Physics of Semiconductors* (15th August, 2017 to 20th November, 2017) organized by Centre for Development of Technical Education (CDTE), Indian Institute of Technology Kanpur.
6. Completed the online course *Learning Physics through Simple Experiments* (20th September, 2016 to 20th November, 2016) organized by Centre for Development of Technical Education (CDTE), Indian Institute of Technology Kanpur.

Date: 22 January 2022

Dr. Rajaram Shankar Sutar

Place: Jat, Maharashtra, India

Google Scholar Profile : <https://scholar.google.co.uk/citations?user=bux0B10AAAAJ&hl=en>

Rajaram S. Sutar
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Superhydrophobic Surfaces

TITLE	CITED BY	YEAR
Self-cleaning superhydrophobic coatings: Potential industrial applications SS Latthe, RS Sutar, VS Kodag, AK Bhosale, AM Kumar, KK Sadasivum, ... Progress in Organic Coatings 126, 52-58	243	2019
Recent advances in durability of superhydrophobic self-cleaning technology: a critical review SP Dalwai, MAS Aly, SS Latthe, R Xing, RS Sutar, S Nagappan, CS Ha, ... Progress in Organic Coatings 138, 105381	165	2020
Recent developments in air-trapped superhydrophobic and liquid-infused slippery surfaces for anti-icing application SS Latthe, RS Sutar, AK Bhosale, S Nagappan, CS Ha, KK Sadasivum, ... Progress in Organic Coatings 137, 105373	104	2019
Superhydrophobic Leaf Mesh Decorated with SiO ₂ Nanoparticle-Polystyrene Nanocomposite for Oil-Water Separation SS Latthe, RS Sutar, TB Shinde, SB Pawar, TM Khot, AK Bhosale, ... ACS Applied Nano Materials 2 (2), 799-805	70	2019

Cited by

	All	Since 2017
Citations	714	713
h-index	9	9
i10-index	9	9

Public access VIEW ALL



With Dr. A. K. Bhosale Sir, Dr. Sanjay S. Latthe Sir and Departmental Research Group at Department of Physics, Raje Ramrao College, Jath, Maharashtra, India

Few Glimpse in Japan



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@Chiba Centre of Tokyo University of Science, Tokyo

With Professor Akira Fujishima Sir

