Faculty Profile

1. Name : Dr. R.Palanivelu
2. Designation : Professor and Head
3. Date of Joining : 19.08.1994
4. Nature of Association : Regular
5. E mail : hodchemistry@ksrct.ac.in
6. Mobile no. : 98652 35165

7. **Academic Qualifications:**

Course	Name of the Institution / University	Year of Passing	% of Marks	Class
Ph.D (Nano Science)	Anna University, Chennai, India	Oct 2015	-	-
M.Phil	Bharathidasan University-Trichy	Nov 2003	67.4	First
M.Sc.,	CBM College - CBE	May 1989	64.4	First
B.Sc.,	Kongunadu Arts & Science College - CBE	April 1986	59.9	Second
H.S.C.	Govt. Hr. Sec. School, Ulagappanpalayam, Tiruchengode, Namakkal	March 1983	61.0	First
S.S.L.C.	Govt. Hr. Sec. School, Elachipalayam, Tiruchengode, Namakkal	April 1981	64.0	First

8. **Teaching Experience**

Professor and Head, K.S.Rangasamy College of Technology, Tiruchengode, from 01.07.2010 to till-date.

Assistant Professor and Head, K.S.Rangasamy College of Technology, Tiruchengode, from 01.08.1997 to 30.06.2010**.**

Lecturer, K.S. Rangasamy College of Technology, Tiruchengode, from 19.08.1994 to 31.07.1997.

Lecturer, K.S. Rangasamy Institute of Technology, Tiruchengode, from 01.08.1991 to 18.08.1994.

9. **Projects**

DRDO

Title: Mono dispersed Colloidal and Cocoon Shaped Nano Silica Particles for Abrasive Applications

Ph. D

Thesis title: " Synthesis and Characterisation of Amorphous Nanosilica Particles From Rice Hulls Biomass For Different Industrial Applications"

10. Professional Strengths

- Good motivator and possess an ability to handle multiple tasks **(i- Can Club-Chairman** in KSR group of Institutions from 1991 till date through which more than **7000 students** have been counseled so far for their betterment in both academic and personal life)
- Possess excellent logical and critical thinking for betterment of student's career growth
- Determined and goal-oriented
- Possess good management and communication skills
- In-depth knowledge of tools and techniques for effective teaching and learning activities
- Have good leadership and management skills
- Ability to solve issues in a quick and efficient manner

11. Research Fund: No. of Project Completed – 01 (DRDO, New Delhi) – 5 lakhs

12.Articles Published

PATENTS

1. **Palanivelu, R,** Padmanaban, P & Rajendran, V 2010, 'Processing of Amorphous nano silica particles from rice hulls through chemical route' Taylor and Francis, Indian Patent,

   2786/CHE/2008 A.(Published on 21st May 2011 and Granted on 15th March 2017- Patent no: 281341.

2. Rajendran, V , **Palanivelu, R,** Sutha, S & Umarani, C, 'Mono dispersed colloidal and cocoon shaped nano silica particles for industrial applications, 171/CHE/2009 Dt: 27/01/2009. Published on 13th January 2017. (Awaiting for the Granted Result)

13.International Journals

1. **Palanivelu, R,** Padmanaban, P, Sutha, S & Rajendran, V 2014, 'Inexpensive approach for production of high-surface area silica nanoparticles from rice hulls biomass', IET Nanobiotechnology, vol. 8, no. 4, pp. 290-294. (IF: 1.72)

2. **Palanivelu, R,** Manivasakan, P, Dhineshbabu, NR & Rajendran, V 2014, 'Comparative Study on Isolation and Characterization of Amorphous Silica Nanoparticles from Different Grades of Rice-Hulls', Synthesis and reactivity in inorganic metal-organic and nano-metal chemistry, (IF: 0.5)

3. **Palanivelu, R,** Dhineshbabu, NR, Palanisamy, T, Balasubramaniam, S & Rajendran, V 2014, 'Comparative study of addition of amorphous nanosilica particles with different grades of cement mortar' International journal of Applied ceramics and Technology, pp. 1-9. (IF: 1.215)

4. **Palanivelu, R,** Dhineshbabu, NR, Gobi, N, Thirunavukkarasu, G & Rajendran, V 2015,'Enrichment of cotton fabrics through functionalised amorphous nanosilica particles' Journal of industrial textiles, (Under Review) (IF: 1.200)

5. Sutha, S, **Palanivelu, R**, Yuvakumar, R, & Rajendran, V 2013, 'Effect of thermal treatment on hydrophobicity of methyl-functionalised hybrid nano-silca particles', Materials Letters vol. 90, pp. 68-71. (IF: 2.26)

6. Sutha, S, **Palanivelu, R,** Sakthipandi, K,, Umarani, C & Rajendran, V 2012, 'Structural studies of Nanosilica employing on-line ultrasonic studies', Phase Transitions, vol.7, pp. 565-576. (IF: 1.04)

7. Gobi, N, **Palanivelu, R**, Ramachandran, TR & Rajendran, V 2011, 'Effect of silica nanoparticles and BTCA on physical properties of cotton fabrics', Materials Research, vol. 14, pp. 552- 559. (IF: 2.1)

8. Sasi priya K, Gopi N, Palanivelu R, Ramachandran TR & Rajendran V 2009, 'Influence og nano silica coating on functional properties of cotton fabrics' Advanced Materials Research, vol.67, pp. 149-154 (IF : 2.1)

9. Natarajan T, Kumaravel A & Palanivelu R 2016' Extraction and characterization of natural cellulosic fiber from passiflora foetida stem' International journal of polymer analysis and characterization, Vol 21 Page: 478-485 (IF : 1.7)

10. Magibalan, S., Senthilkumar, P., Senthilkumar,C., Palanivelu,R., & Prabu,M. 'Dry sliding behavior of aluminium alloy 8011 with 4% fly ash' Materials Testing, 2018, 60(2), 209-214. doi 10.3139/120.111126 (IF-0.521)
11. Magibalan, S., Senthilkumar, P., Senthilkumar,C., Palanivelu,R., & Prabu,M 'Dry sliding behavior of aluminium alloy 8011 with 12% fly ash composites' 2018, Materials Research Express 5(5), p.056505-16 (IF : 1.151)
12. Magibalan, S., Senthilkumar, P., Senthilkumar,C., Palanivelu,R., & Prabu,M ' Microstructure and mechanical properties of fly ash particulate reinforced AA8011 aluminium alloy composites' Materials Testing, 60(7-8), 765-771 (IF : 0.521)
13. Magibalan, S., Senthilkumar, P., Senthilkumar,C., Palanivelu,R., & Prabu,M, ' Dry sliding behavior of aluminium alloy 8011 with 8% fly ash' Materials Testing, 2018, 60(7-8), 777-782. (IF : 0.521)
14. Muthusamy Prabu, Subramanian Magibalan, Chinnamuthu Senthilkumar, Rajagounder palanivelu, Palanisamy Senthilkumar & rajendran Boopathi, ' Modeling of machining parameters for MRR and TWR in EDM characteristics on Al/10 wt.-% TiB_2 composites' Materials Testing, 2019, Volume 61 Issue 6 Pages 559-566.

14. Contributed Papers at International Conference/Seminar

1. **Palanivelu, R**, Padmanaban, P & Rajendran, V, 2009, 'Nanosilica for Industrial Applications from Rice Hulls', 1st International Conference on Nanostructured Materials and Nano Composites (ICNM-2009), pp. 228-229.
2. **Palanivelu, R**, Padmanaban, P & Rajendran, V 2010, Synthesis and characterisation of amorphous nano silica particles from rice hulls employing thermal degradation method, 'International Conference on Nanomaterials and Nanotechnology (NANO-2010), K.S.Rangasamy College of Technology, pp. 62-62.
3. **Palanivelu, R**, Gobi, N, Thirunavukkarasu, G & Rajendran, V 2012, Study of functional and physical properties of amorphous nano silica coated on cotton fabrics, International Conference on Macro- and Supramolecular Architects and Materials (MAM-12: Nano Systems and Applications), LeMeridian, pp. 333-340.
4. **Palanivelu, R** & Rajendran, V, 2015, Different approaches for production of amorphous nanaosilica particles from rice hulls, International conference on MAM-15, KSRCT.

15. List of books publications

1. **Palanivelu, R.**, Srividhya, B., Tamilarasu, K. and Padmanaban, P. 2013. Engineering Chemistry. Cengage learning, New Delhi (ISBN13: 978-81-315-1795-6)
2. **Palanivelu, R.** and Srividhya, B. 2013. Environmental Engineering. Cengage learning, New Delhi (ISBN13: 978-81-315-1794-9)
3. **Palanivelu, R. 2008**, Engineering chemistry-I, Pranav Publications, Tiruchengode.
4. **Palanivelu**, **R.** B.Srividhya.,(**2000- 2015**) Laboratory Manual for Enginnering Chemistry, Sakura Publications, Erode

16. Other Academic Accomplishments

1. **Resource Person** for various colleges such as Dr.NGP Arts-Cbe, SNR Arts-Cbe, GCT- Cbe, GCE-Salem, **K.S.R B.Ed** College, **K.S.R Arts** and Science College, Nandha Engineering College, **Excel** Engineering College, **Sengunthar** Engineering College, **Paavai** Engineering College, Shanmuga Engg.College, Vellalar Arts and Science College for Women, **Sona** College of Technology, **Mahendra** Engineering College etc.,
2. **Conducted International Conferences-3**
    1. NANO-2010: 28 countries participated with 3 Nobel Laureates.
    2. MAM-12 (35 countries participated with 3 Nobel Laureates.
    3. NANO-15- DEC-07-10 (43 countries participated with 1 Nobel Laureate) with my research supervisor **Dr. V.Rajendran, Director, CNSCST** as Chair person for all the 3 events
4. **Conducted Exhibition SCITECH-2007** in our campus **(1557 Schools participated in and around Tamil Nadu)** with my research supervisor **Dr. V.Rajendran** as Chair person.
5. **Conducted no. of national conferences/seminars/symposiums** with my research supervisor **Dr. V.Rajendran** as Chair person in our campus.
6. **Conducted many college functions** inclusive of annual day since 1991 **as a co-ordinator** in various events.

AWARDS

1. **Best Research Paper Award** received for study of functional and physical properties of amorphous nano silica coated on cotton fabrics in MAM-12 International Conference with cash award of **Rs. 10,000/** by international juries.

2. **23 times received 100 % Result producing award (with cash award of Rs.1000 each time)**

17. Personal Details

Fathers Name	**:**	K.Rajagounder
Date of Birth & Age	**:**	13.05.1966 & 53 Years
Gender	**:**	Male
Marital Status	**:**	Married
Permanent Address	**:**	Olappalayam Elachipalayam (Po) Tiruchengode Namakkal- 637 202

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