



## NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY

(Affiliated to Anna University)

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### Department of Science and Humanities (Physics)

#### Personal Details

Name:	Dr. K. JAYACHITRA
Designation:	ASSISTANT PROFESSOR
Educational Qualification:	M.Sc., M.Phil., PhD
Experience:	16 Years 8 Months
Area of Specialization:	Nonlinear optical materials, Crystal Growth

#### Educational Details

S.No.	Degree	Branch/Specialization	Institute/University	Year
1	Ph.D	Physics / Nonlinear optical materials	TBML College, Porayar/ Bharathidasan University, Trichy	2021
2	M.Phil.,	Physics	Annamalai University, Chidambaram	2006
3	M.Sc.,	Physics	Annamalai University, Chidambaram	2002
4	B.Sc.,	Physics	A.V.C.College,Man nampanal, Mayiladuthurai/ Bharathidasan University,Trichy	1995

#### Publication Details

International Journal

1. **K Jayachitra**<sup>a</sup>, P.C. JobePrabakar<sup>a</sup>, S. Ramalingam<sup>b</sup> NMR UV-Visible spectroscopic investigation on methyl amino methyl anthracene using computational calculations, International Journal on Basic and Applied Research, 2249-3352 (P) 2278-0505
2. **K Jayachitra**<sup>a</sup>, P.C. JobePrabakar<sup>a</sup>, S. Ramalingam<sup>b</sup> Vibrational, NMR and UV-Visible spectroscopic investigation on 10-methyl anthracene 9- carbaldehyde using computational calculations Journal of Molecular Structure 1217(2020)-128435
3. **K. Jayachitra**<sup>a</sup>, P.C. JobePrabakar<sup>a</sup>, S. Ramalingam<sup>b</sup>, B. Senthikumar<sup>c</sup>, R. Aarthi<sup>d</sup> Structural investigation and vibrational analysis on 9- (methylamino methyl) anthracene using quantum computational tools, Journal of Xidian University, 1001 – 2400
4. **K. Jayachitra**<sup>a</sup>, P.C. JobePrabakar<sup>a</sup>, S. Ramalingam<sup>b</sup>, B. Senthikumar<sup>c</sup>, R. Aarthi<sup>d</sup> NMR UV - Visible and theoretical studies on 9 -methylaminomethyl anthracene crystal, Adalya Journal, 1301 – 2746
5. **K Jayachitra**<sup>a</sup>, P.C. JobePrabakar<sup>a</sup>, S. Ramalingam<sup>b</sup> NLO mechanism evaluation by Z-Scan, opto- electronic properties interpretation and chemical potential cavity investigation of 1,8-anthracenedimethanol using quantum computations 1240(2021)-130563

#### National Journal

1. **K Jayachitra**<sup>a</sup>, R.Palani<sup>a</sup> Acoustical studies on ternary electrolytic mixtures at 303, 308 and 313 K Indian Journal of Pure and Applied Physics 1120 (2007)-131504

#### International Conference

- **K Jayachitra** Advanced materials in the International conference on Recent Advances in Applied Physics on 21<sup>st</sup> & 22<sup>nd</sup> September 2017 at Annamalai University, Chidambaram.
- **K Jayachitra** NLO materials on anthracene derivatives International Conference on Recent Trends in synthetic methods and Material Chemistry on 2<sup>nd</sup> and 3<sup>rd</sup> February 2018 at Annamalai University, Chidambaram.
- **K Jayachitra** Molecular and vibrational investigation on Methylamino methyl

Anthracene in the International Conference on Application Oriented Materials in Science & Technology on 14<sup>th</sup> & 15<sup>th</sup> September 2018 at EGS Pillay Arts & Science College, Nagapattinam.

- **K Jayachitra** NMR and UV-Visible Spectroscopic investigation on 1,8-Anthracene dimethanol in the International Conference on Recent Trends in Advanced Functional Materials on 22<sup>nd</sup> February 2020 at Idhaya College for Women, Kumbakonam.
- **K Jayachitra** Computational Studies on Benzenediol in the International Conference on Advanced Functional Materials (ICAFM-2023) on 3<sup>rd</sup> and 4<sup>th</sup> October 2023 at TBML College, Porayar.

#### National Conference

- **K Jayachitra** Ultrasonic studies on **The Indian Science congress Association** on 6<sup>th</sup> January 2007 at Annamalai University, Chidambaram
- **K Jayachitra** Computational Studies on 1,8-Anthracene dimethanol in the One day National Conference on Emerging Materials and Computational Techniques – 2023 (NCEMCT-2023) on 29<sup>th</sup> September 2023 at Dr. Kalaignar Karunnamidhi Government Institute for Post Graduate Studies and Research. Karaikal.
- **K Jayachitra** Computational Studies on N-fluoroanthene in the National Conference on Recent Advancements in Applications of Nanomaterials (RAAN-2023) on 16<sup>th</sup> and 17<sup>th</sup> October 2023 at Bon Secours College for Women and A.V.V.M Sri Pushpam College, Thanjavur.

#### Program Organised

##### Seminar

1. State level Seminar on “**Elementary Principles on Physics**” Dec-2015, Department of Physics, Nethaji Subash Chandra Bose College, Thiruvarur.
2. State level Seminar on “**Semiconductor devices**” Feb-2016, Department of Physics,

Nethaji Subash Chandra Bose College, Thiruvarur.

3. State level Seminar on **“Current Trends in Advanced Materials”** Feb-2017, Department of Physics, Nethaji Subash Chandra Bose College, Thiruvarur.
4. State level Seminar on **“Communication Systems”** Oct -2017, Department of Physics, Nethaji Subash Chandra Bose College, Thiruvarur.
5. State level Seminar on **“Advances in Applied Physics”** Feb-2018, Department of Physics, Nethaji Subash Chandra Bose College, Thiruvarur.

#### Quiz competition

1. Feb-2015, Department of Physics, Nethaji Subash Chandra Bose College, Thiruvarur.
2. Sep-2016, Department of Physics, Nethaji Subash Chandra Bose College, Thiruvarur.

### Program Attended

#### Workshop

1. **Physics Laboratory conduct and innovation:** National level, March 2015, Central University of Tamil Nadu

#### Webminars

1. **“Recycling of waste rock as a ceramic raw material: An alternative to avoid environmental contamination”** at Arasu Engineering College, Kumbakonam on April 2021.
2. **“Academic reforms”** at TMM College of arts and Science, Kulathur, Tuticorin on June 2021
3. **“Digital learning resources for academic excellence”** at Dharmapuram Adhinam Arts College, Mayiladuthurai on August 2021

#### Reviewer in journals

1. **“Everywhere You Look, You’ll Find Food: Emerging Adult Perspectives towards The Food Media Landscape”** Ecology of food and nutrition GEFN-2021-0093
2. **“A Photovoice study to reveal community perceptions of highly processed packaged foods in India”** Ecology of food and nutrition GEFN-2021-0163

