

# NEW PRINCE SHRI BHAVANI COLLEGE OF ENGINEERING AND TECHNOLOGY



(Affiliated to Anna University)

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**Department of Science and Humanities (Chemistry)**

## Personal Details

Name:	M. Mumjitha
Designation:	Assistant Professor
Educational Qualification:	Ph.D.,
Experience:	2 years
Area of Specialization:	Anodization, Dye degradation and Bioimplantation

## Educational Details

S.No	Degree	Branch/ Specialization	Institute/University	Year
1	Ph.D.,	Chemistry	Periyar University	2016
2	M.Phil.,	Chemistry	Periyar university	2010
3	M.Sc.,	Chemistry	Periyar university	2009
4	B.Sc.,,	Chemistry	Govt. Arts college for women, Salem-8.	2007

## PUBLICATIONS

### International Journal

1.	Vairamuthu Raj* and <b>Mohamed Sirajudeen Mumjitha</b> , Formation and Surface characterization of Nanostructured Al <sub>2</sub> O <sub>3</sub> -TiO <sub>2</sub> Coatings, <i>Bulletin of materials science</i> 37(2014)1411-1418. (IF = 1.5)
2.	V. Raj* and <b>M. Mumjitha</b> , Comparative study of formation and corrosion performance of porous alumina and ceramic nanorods formed in different electrolytes by anodization, <i>Materials Science and Engineering B</i> 179 (2014) 25 - 35 (IF = 4.051)
3.	V. Raj* and <b>M. Mumjitha</b> , Fabrication of biopolymers reinforced TNT/HA coatings on Ti: Evaluation of its Corrosion resistance and Biocompatibility, <i>Electrochimica Acta</i> 153 (2015) 1-11 (IF = 7.336)
4.	<b>M. Mumjitha</b> and V. Raj*, Fabrication of TiO <sub>2</sub> - SiO <sub>2</sub> bioceramic coatings on Ti alloy and its synergetic effect on apatite forming ability and corrosion resistance, <i>Journal of Mechanical behavior of biomedical materials</i> , (IF = 4.042)
5.	<b>M. Mumjitha</b> and V. Raj*, Electrochemical synthesis, structural features and photoelectrocatalytic activity of TiO <sub>2</sub> -SiO <sub>2</sub> ceramic coatings on dye degradation, <i>Materials Science and Engineering B</i> (IF = 4.051)
6.	S. Mohanapriya, <b>M. Mumjitha</b> , K. Purnasai and V. Raj*, Fabrication and characterization of poly (vinyl alcohol)-TiO <sub>2</sub> nanocomposite films for orthopedic applications, <i>Journal of the mechanical behavior of biomedical materials</i> , (IF = 4.042).
7.	S Tamilselvi, R Kavitha, M Usharani, <b>M Mumjitha</b> , S Mohanapriya *, Mechanical characterization of bio composite films as a novel drug carrier platform for sustained release of 5-fluorouracil for colon cancer: Methodological investigation, <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , (IF = 4.042).

## National Journal

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| 1. | V. Raj, <b>M. Mumjitha</b> , S. Maheswari, <i>Proceedings of the National Seminar</i> , “Nanocrystalline alumina films for enhanced corrosion resistance”, page no: 25-35, conducted by S. N. College, Kollam, Kerala.   |
| 2. | V. Raj and <b>M. Mumjitha</b> , Proceedings of the National conference on Advanced Materials processing, Characterization, and application, Enhanced Photocatalytic activity of TiO <sub>2</sub> particles by Zinc doping, page no: 263 - 268 conducted by PSN College of Engineering and Technology, Tirunelveli. |

## Academic Achievements

1.	Secured university SEVENTH RANK in B.Sc.,
2.	Secured University FIRST RANK in M.Sc.,
3.	Secured University FIRST RANK in M.Phil.,

## Program Organized

### Seminar

1.	Organized Seminar on INNOVATION AND CREATIVITY: TOOLS AND TECHNIQUES FOR SUCCESS, Dec, 12, Dept. of S&H, New Prince Shri Bhavani College of Engineering and Technology, Chennai.
2.	Organized Seminar on CONTRIBUTION OF AI in IPR, July 22, Dept. of S&H, New Prince Shri Bhavani College of Engineering and Technology, Chennai.

## Conferences attended

1.	M. Mumjitha, presented poster entitled "Evaluation of corrosion resistance and biocompatibility of biopolymers reinforced TNT/HA coatings on Ti" in Eurasia conference on chemical sciences, Dec-14 -18, 2013, jointly organized by Eurasia and Indian Institute of Science (IISc), Bangalore, India.
2.	M. Mumjitha, presented paper entitled "Evaluation of corrosion resistance and biocompatibility of biopolymers reinforced TNT/HA coatings on Ti" in International Conference on "Physiology and Medicine- 2014" organized by Periyar University, Salem-11, Tamil Nadu.
3.	M. Mumjitha, presented paper entitled "Nanocrystalline alumina films for enhanced corrosion resistance", published in the Proceedings of the National Seminar, page no: 25-35, conducted by S. N. College, Kollam, Kerala.
4.	<b>M. Mumjitha</b> , presented paper entitled "Enhanced Photocatalytic activity of TiO <sub>2</sub> particles by Zinc doping" published in the Proceedings of the National conference on Advanced Materials processing, Characterization, and application, page no: 263 - 268 conducted by PSN College of Engineering and Technology, Tirunelveli, Tamil Nadu.
5.	<b>M. Mumjitha</b> , presented paper entitled "Fabrication and electrochemical properties of polypyrrole/TiO <sub>2</sub> nanocomposite coatings" in International Conference on "Physiology and Medicine- 2014" organized by Periyar University, Salem-11, Tamil Nadu.

## Workshops attended

1.	<b>Workshop on “Application of radioisotopes in Chemical sciences (ARCS - 2012)”</b> , September 28, 2012, organized by Department of Chemistry, <b>Periyar University</b> , Salem in collaboration with Indian Association of Nuclear Chemists and Allied Scientists (SRC), <b>IGCAR, Kalpakkam</b> , Tamil Nadu, India.
2.	Participated in <b>National Science Academy Lecture workshop on “Modern Trends in Chemistry”</b> , August 13-14, 2012, organized by Centre for Nanoscience and Nanotechnology, <b>Periyar University</b> , Salem, Tamil Nadu, India.
3.	Participated in <b>Workshop on “Research Techniques/Funding Sources”</b> , March 21-22 & 31, 2011, organized by Equal opportunity cell of Periyar University (EOCOPU), <b>Periyar University</b> , Salem, Tamil Nadu, India.
4.	Participated in <b>Workshop on “Scientific usage of electron microscopes: SEM and TEM</b> , Jan 6, 2014, by Centre for Instrumentation and Maintenance Facility (CIMF), <b>Periyar University</b> , Salem-11, India.
5.	Participated in <b>Workshop on “Scientific applications of powder XRD”</b> , Feb 4, 2013, by Centre for Instrumentation and Maintenance Facility (CIMF), <b>Periyar University</b> , Salem – 11, India.
6.	Participated in <b>Workshop on “Advanced Characterization Techniques (ACT-2015)”</b> , Jan 29 & 30, 2015, organized by <b>Department of Chemistry, Periyar University</b> , Salem – 11, India.