

**Name** : Dr.Y.BRIGHTSON ARUL JACOB  
**Designation** : ASSISTANT PROFESSOR  
**Department** : CHEMISTRY  
**Date of Joining** : 10-7-2014 (SF)  
05-02-2016(Aided)  
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#### EDUCATIONAL QUALIFICATION:

Degree	Subject	College / University & Place	Year Completed
B.Sc	Chemistry(spl)	THE AMERICAN COLLEGE, MADURAI	2004
M.Sc	CHEMISTRY(spl)	THIAGARAJAR COLLEGE, MADURAI	2006
B.Ed	PHYSICAL SCIENCE	CSI COLLEGE OF EDUCATION, MADURAI	2008
M.Phil	CHEMISTRY	THIAGARAJAR COLLEGE, MADURAI	2009
Ph.D	CHEMISTRY	MADURAI KAMARAJ UNIVERSITY, MADURAI	2013

#### SPECIALISATION IN TEACHING

- Physical Chemistry

#### Specialisation in Research:

##### M.Phil

- ISOLATION AND CHARACTERIZATION OF BIODIESEL FROM THREE DIFFERENT SPECIES

##### Ph.D

- SYNERGISTIC AND DEVELOPMENT OF NEW ANTICORROSIVE INHIBITORS FOR MILD STEEL

#### Research Interests:

- Nano chemistry
- Medicinal Chemistry
- Corrosion Chemistry

**Work Experience:**

<b>Designation</b>	<b>Institution / Company</b>	<b>Year - From (month/year) To (month/year)</b>
Teacher	Keswick Public School, Madurai	1 <sup>st</sup> June 2009 to 30 <sup>th</sup> April 2010
Assistant Professor	NMSSVN College (Autonomous), Nagamalai, Madurai	6 <sup>th</sup> December 2010 to 9 <sup>th</sup> July 2014
Lecturer	The American College, (Autonomous), Madurai	10 <sup>th</sup> July 2014 to 31 <sup>st</sup> January 2016
Assistant Professor	The American College, (Autonomous), Madurai	5 <sup>th</sup> February 2016 to till date

**Academic Position (currently holding):****Faculty in SELF LEARNING PROGRAMME (Village Ecology-Action on Health)****Research Paper Publications:****Articles Published in national Journals:**

1. Corrosion Behaviour of Mild Steel In The Presence Of TIPA and  $Zn^{2+}$ , Y.Brightson Arul Jacob<sup>1,\*</sup>, R.Sayee Kannan<sup>2</sup>, J.Jeyasundari<sup>1</sup>, IOSR Journal of Applied Chemistry 1(5) (2012) 01-06
2. Inhibitive Properties of MB - $Zn^{2+}$  System and Its Synergism With SPT, Y.Brightson Arul Jacob<sup>1,\*</sup>, J.Jeyasundari<sup>1</sup>, R.Sayee Kannan<sup>2</sup>, International Journal of Engineering Research & Technology, 1(9) (2012) 1-10.
3. Corrosion Behavior of Carbon Steel In Presence of THAM and Citrate Ions, J.Jeyasundari<sup>\*,1</sup>, Y.Brightson Arul Jacob<sup>1</sup>, S.Rajendran<sup>2</sup>, Journal of Chemical, Biological and Physical Sciences, 3(1) (2012) 58-70.
4. Inhibitive properties of THAM- $Zn^{2+}$  system and its synergism with ST, J. Jeyasundari<sup>1,\*</sup>, Y. Brightson Arul Jacob<sup>1</sup>, S. Rajendran<sup>2</sup>, Journal of Chemical and Pharmaceutical Research, 4(10) (2012) 4657-4664.
5. Synergistic Effect of THAM- Molybdate and  $Zn^{2+}$  on the Inhibition of Corrosion of Mild Steel in Aqueous Environment, J. Jeyasundari\*, Y. Brightson Arul Jacob, Oriental Journal of Chemistry, 28(3) (2012)1463-1469.

6. Synergistic Effect of Triisopropanolamine in Aqueous Solution by St–Zn<sup>2+</sup> System, Y. Brightson Arul Jacob<sup>1,\*</sup>, R. Sayee Kannan<sup>2</sup>, J. Jeyasundari<sup>1</sup>, Research Journal of Chemical Sciences, 3(4)(2013)1-4.
7. Inhibition effect of glycine towards the corrosion of mild steel, Y. Brightson Arul Jacob<sup>a</sup>, J. Jeyasundari<sup>a\*</sup>, R. Sayee Kannan<sup>b</sup> A. Jawahar<sup>a</sup>, J. Indian Chem. Soc., 90 (2013)1-6.
8. Influence of the TSC(Trisodium citrate) on the corrosion inhibition of mild steel in MGD-Zn<sup>2+</sup>, J. Jeyasundari,<sup>[1]\*</sup>, Y. Brightson Arul Jacob<sup>[1]</sup>, J. Arockia Selvi<sup>[2]</sup>, Research & Reviews in Electrochemistry, 4(3) (2013) 81-86.
9. Synthesis Of Silver Phyto Nanoparticles And Their Antibacterial Efficacy, P. Shanmugaprabha<sup>1</sup>, J. Jeya Sundari<sup>\*1</sup>, Y. Brightson Arul Jacob<sup>2</sup>, S. Stephen Rajkumar Inbanathan<sup>3</sup>, Roots international journal of multidisciplinary researches, 1(2) (2015) 103-108.
10. Interaction of Anticancer Drug Letrozole with Ds-DNA Analyzed by Electrochemical Methods, Y. Brightson Arul Jacob<sup>1,\*</sup>, J. Jeyasundari<sup>2</sup>, Journal of Pharmaceutical, Chemical and Biological Sciences, 3(2) (2015) 221-229.
11. Bio Inspired Synthesis of Gold Nanoparticles using Psidium guajava Leaf Extract and its Anti Bacterial Activity, P. Shanmuga Praba<sup>1</sup>, J. Jeyasundari<sup>1</sup>, D. Renuga<sup>2</sup> and Y. Brightson Arul Jacob<sup>3</sup>. Journal of Chemistry and Chemical Sciences, 6(7) (2016) 624-633.

#### Articles published in International Journals:

12. Electrochemical and surface analysis studies on corrosion inhibition of carbon steel, J. Jeyasundari,<sup>[a]\*</sup> S. Rajendran,<sup>[b]</sup> R. Sayee Kannan,<sup>[c]</sup> Y. Brightson Arul Jacob<sup>[a]</sup>, Eur. Chem. Bull., 2(9) (2013) 585-591.
13. Effect of citrate ions on the electrochemical behaviour of mild steel in TIPA – Zn<sup>2+</sup> system, Y. Brightson Arul Jacob<sup>[a]\*</sup>, R. Sayee Kannan<sup>[b]</sup>, J. Jeyasundari<sup>[c]</sup>, Eur. Chem. Bull. 2(5) (2013) 293-297
14. Synthesis of Silver Nano particles using Piper Betle and its Antibacterial activity, P. Shanmuga Praba<sup>[a]</sup> J. Jeyasundari<sup>[a]\*</sup> and Y. Brightson Arul Jacob<sup>[b]</sup>, Eur. Chem. Bull. 3(10) (2014) 1014-1016.

15. Synthesis Of Plant-Mediated Silver Nanoparticles Using Ficus Microcarpa Leaf Extract And Evaluation Of Their Antibacterial Activities, P. Shanmuga Praba,<sup>[a]</sup> V.S.Vasanth,<sup>[b]</sup> J. Jeyasundari<sup>[a]\*</sup> and Y. Brightson Arul Jacob<sup>[c]</sup>, Eur. Chem. Bull. 4(3) (2015) 116-120.
16. Green synthesis and characterization of silver nanoparticles using Mimuscopselengi flower extract and its synergistic antimicrobial potential, J. Jeyasundari<sup>1</sup>, P. Shanmuga Praba<sup>1</sup>, Y. Brightson Arul Jacob<sup>2\*</sup>, S. Rajendran<sup>3</sup> and K. Kaleeswari<sup>1</sup>. American Chemical Science Journal. 12(3) (2016) 1-11.

#### **Conference / Seminar Presentations:**

1. **Participated** in one day “Faculty development programme” on **22<sup>nd</sup> March 2014** organized by internal quality assurance cell, NMSSVN College, Madurai.
2. **Participated** in one day national seminar on” Selected topics in chemistry” held on **4<sup>th</sup> march 2014** organized by department of chemistry, NMSSVN College, Madurai.
3. **Participated** in one day UGC sponsored seminar on” Examination Reforms 2014” held on **22<sup>nd</sup> February 2014** organized by NMSSVN College, Madurai.
4. **Presented a paper** on the title “Inhibitive properties of TIPA-Zn<sup>2+</sup> system and its synergism with ST” in national level seminar on Futuristic trends in chemistry held on **6<sup>th</sup> February 2013** organized by department of chemistry, Sri Meenakshi College, Madurai.
5. **Presented a paper** on the title “Effect of NH<sub>4</sub>VO<sub>3</sub> on the electro chemical behavior of mild steel”National Conference on Recent Advances in Surface Science (Rass 2013), held on **14&15<sup>th</sup> February 2013** organized by Gandhigram Rural Institute – Deemed University
6. **Participated** in one day national level seminar on “Chemistry and solar technology”on **18<sup>th</sup> March 2013** organized by department of chemistry, NMSSVN College, Madurai.
7. **Participated** in orientation programme held on **16<sup>th</sup> March 2013** organized by NMSSVN College, Madurai
8. **Presented** a seminar on the title“Research problem, objectives, Data collection, Analysis, Tools Employed and salient inferences” held on **27<sup>th</sup> January 2012** at the Department of chemistry, Thiagarajar College, Madurai.

9. **Participated** in one day national seminar on “Intricacies of inorganic chemistry and power storage” held on **6<sup>th</sup> march 2012** organized by department of chemistry, NMSSVN College, Madurai.
10. **Presented** a paper in National level seminar on “Topical drifts in Nanotechnology and Bio-Inorganic chemistry” held on **7<sup>th</sup> September 2012** organized by department of chemistry, NS College of Arts and Science, Theni.
11. **Participated** in national seminar on “Recent trends in chemistry” held on **18<sup>th</sup> September 2012** organized by department of chemistry, Fatima College, Madurai.
12. **Presented a paper** on the title “Influence of trisodium citrate on the inhibition efficiency of TIPA – Zn<sup>2+</sup> ,system in national level seminar on Emerging trends in chemistry held on **4&5<sup>th</sup> October 2012** organized by department of chemistry, CPA college, Bodinayakanur.
13. **Participated** in one day workshop on polychem-held on **28<sup>th</sup> January, 2011** Organized by Department Of polymer technology, Kamaraj college of Engineering, Virudhunagar.
14. **Participated** in one day seminar on “Recent trends in green chemistry” held on **20<sup>th</sup> February 2009** organized by Thiagarajar college of Engineering, Madurai.
15. **Participated** in one day workshop on “Environmental consciousness workshop” held on **30<sup>th</sup> January 2008** organized by CSI College of Education, Madurai.