

## LIST OF PUBLICATIONS: (Iti Gupta)

### IN PEER REVIEWED JOURNALS

- 37) S. Das and **Iti Gupta\***; *Synthetic Aspects of Carbazole Containing Porphyrins and Porphyrinoids, Journal of Porphyrins & Phthalocyanines* (special issue-**Women in Porphyrin Science**), In Press, 2019.
- 36) **N. Manav, Praseetha E. K.**, M. Ishida, S. Mori, Y. Yasutake, S. Fukatsu, H. Furuta, and **Iti Gupta\***; *Phosphorescent Rhenium-Dipyrrinates: Efficient Photosensitizers for Singlet Oxygen Generation, Dalton Transactions*, 48, 2467-2478, 2019.
- 35) **Neha Manav, Ayushi Tyagi**, and **Iti Gupta\***; *Ferrocene and Triphenylamine Appended Boranils, Journal of Chemical Sciences-D (MTIC-Dec-2017 special issue)*, 130: 79, 2018.
- 34) **M. Vedamalai**, D. Kedariya, R. Vasita and **Iti Gupta\***; *Oxidation of phenothiazine based fluorescent probe for hypochlorite and its application to live cell imaging, Sensors and Actuators B: Chemical*, 263, 137–142, 2018.
- 33) **N. Balsukuri, N. Borouh, Praseetha E. K.** and **Iti Gupta\***; *Near Infra-Red Dyes Based on Pyrene Aza-BODIPYs, New Journal of Chemistry*, 42, 5875-5888, 2018.
- 32) H. Furuta, H., K. Mitsuno, T. Yoshino, **Iti Gupta**, S. Mori, S. Karasawa, M. Ishida; *Doubly N-Confused [36]Octaphyrin(1.1.1.1.1.1.1.1): Isomerization, Bis-Metal coordination, and topological chirality, Angewandte Chemie International Edition*, 19 Sep. 2017
- 31) **Praseetha E.K.**, R. N. Behera, **I. Gupta\***; *Carbazole Substituted BODIPYs: Synthesis, Computational, Electrochemical and DSSC Studies, Journal of Fluorescence*, 1-14, 2017,
- 30) **S. Das**, H. R. Bhat, **N. Balsukuri**, P. C. Jha, Y. Hisamune, M. Ishida, H. Furuta, S. Mori and **I. Gupta\***; *Donor–acceptor type A2B2 porphyrins: synthesis, energy transfer, computational and electrochemical studies; Inorganic Chemistry Frontiers*, 4, 618-638, 2017.
- 29) **M. Vedamalai**, V. G. Krishnakumar, S. Gupta, S. Mori, **I. Gupta\***; *Synthesis and characterization of styryl-BODIPY derivatives for monitoring in vitro Tau aggregation, Sensors and Actuators B: Chemical*, 244, 673–683, 2017.
- 28) **M. Vedamalai, I. Gupta\***; *Design and synthesis of BODIPY-BSA complex for biological applications, Luminescence*, 1-5, 2017. DOI: 10.1002/bio.3365
- 27) **N. Balsukuri, I. Gupta\***; *Singlet-singlet energy transfer in carbazole-porphyrin dyads and triads, Dyes and Pigments* 144, 223-233, 2017.
- 26) **N. Balsukuri**, S. Mori and **I. Gupta\***; *Donor Acceptor Type Ferrocene Substituted Aza-BODIPYs: Synthesis, Optical and Electrochemical Studies; Journal of Porphyrins & Phthalocyanines*, 20, 719-729, 2016.
- 25) **N. Balsukuri**, M.Y. Lone, P. C. Jha, S. Mori and **I. Gupta\***; *Synthesis, Structure and Optical Studies of Energy Donor-Acceptor Type NIR Aza-BODIPYs; Chemistry An Asian Journal* 11, 1572-1587, 2016.

- 24) M. Vedamalai, D. Kedaria, R. Vasita, S. Mori and I. Gupta\*; *Design and synthesis of BODIPY-Clickates based Hg<sup>2+</sup> sensors: Effect of triazole binding mode with Hg<sup>2+</sup> on signal transduction*, **Dalton Transactions** 45, 2700-2708, 2016. DOI: 10.1039/c5dt04042f
- 23) Praseetha E. K., S. Das, M.Y. Lone, P. C. Jha, S. Mori and Iti Gupta\* ; *Bridged Bis-BODIPYs: Synthesis, Structures and Properties*; **Dalton Transactions** 44, 17209-17221, 2015.
- 22) S. Das and I. Gupta\*; *Triphenylamine Substituted Dipyrrinato Metal Complexes: Synthesis, Optical and Electrochemical Studies*; **Inorganic Chemistry Communications** 60, 54-60, 2015.
- 21) N. Balsukuri, S. Das and I. Gupta\*; *Carbazole-Corrole and Carbazole-Porphyrin Dyads: Synthesis, Fluorescence and Electrochemical Studies*; **New Journal of Chemistry** 39, 482-491, 2015.
- 20) S. Das, N. Balsukuri, Praseetha E. K. and Iti Gupta\*; *Difunctionalized N-Confused Porphyrins: Synthesis, Fluorescence and Electrochemical Studies*; **Australian Journal of Chemistry** 68, 896-905, 2015.
- 19) Praseetha E. K. and I. Gupta\*; *Carbazole Substituted Boron Dipyrrromethenes*; **Dalton Transactions** 43, 12405–12413, 2014.
- 18) J.-Min Lim, I. Gupta, H. Furuta\* and D. Kim\*; *Comparative photophysics of sapphyrin derivatives: effects of confused and fused pyrrole rings*; **Journal of Porphyrins Phthalocyanines** 15, 858–864, 2011.
- 17) I. Gupta, A. Srinivasan, T. Morimoto, M. Toganoh, and H. Furuta\*; *N-Confused and N-Fused meso-Aryl Sapphyrins*; **Angewandte Chemie International Edition** 47, 4563-4566, 2008.
- 16) I. Gupta, R. Fröhlich and M. Ravikanth\*; *Synthesis and Anion Binding Studies of Thiaphlorins and Covalently Linked Thiaphlorin-Porphyrin Dyads*; **European Journal of Organic Chemistry** (11) 1884-1900, 2008.
- 15) S. Santra, T. K. Mukherjee, N. Babel, I. Gupta, A. Datta\* and M. Ravikanth\*; *Synthesis, aggregation and photoinduced electron transfer processes of cationic water-soluble 21-thia and 21-oxaporphyrin*, **Journal of Photochemistry Photobiology. A: Chemistry** 193 (2), 166-177, 2008.
- 14) I. Gupta and M. Ravikanth\*; *Synthesis and photophysical studies of covalently linked porphyrin-21-thiaporphyrin dyads*; **Inorganica Chimica Acta** 360, 1731-1742, 2007.
- 13) S. Punidha, N. Agarwal, I. Gupta and M. Ravikanth\*; *meso-5-Bromo-10,15,20-tri(p-tolyl)-21-thiaporphyrin as precursor for the synthesis of novel compounds*; **European Journal of Organic Chemistry** 1168-1175, 2007.
- 12) I. Gupta, R. Fröhlich and M. Ravikanth\*; *Synthesis of functionalized thia analogues of phlorins and covalently linked phlorin-porphyrin dyads*; **Chemical Communications** 3726-3728, 2006.
- 11) I. Gupta and M. Ravikanth\*; *Recent developments in heteroporphyrins and their analogues*; **Coordination Chemistry Reviews** 250, 468-518, 2006.
- 10) I. Gupta and M. Ravikanth\*; *Spectroscopic properties of meso-thienylporphyrins with different porphyrin cores*; **Journal of Photochemistry & Photobiology A Chemistry** 177, 156-163, 2006.
- 9) I. Gupta and M. Ravikanth\*; *Fluorescence properties of meso-tetrafurlylporphyrins*; **Journal of Chemical Sciences** 117, (2), 161-166, 2005.
- 8) I. Gupta and M. Ravikanth\*; *One-Flask Synthesis of Mono- and Tri- functionalized 21-Thia and 21-Oxaporphyrin Building Blocks and Their Application in the Synthesis of Covalent and Non-covalent Unsymmetrical Porphyrin Arrays*; **Journal of Organic Chemistry** 69, (20), 6796-6811, 2004.

- 7) **I. Gupta**, N. Agarwal and M. Ravikanth\*; *A novel and rapid synthetic routes to A<sub>3</sub>B and AB<sub>3</sub> type 21-thiaporphyrins and their use in the construction of unsymmetrical covalent and non-covalent porphyrin arrays*, **European Journal of Organic Chemistry** (8), 1693-1797, **2004**.
- 6) **I. Gupta**, C. –H. Hung and M. Ravikanth\*; *Synthesis and structural characterization of meso-thienyl core-modified porphyrins*; **European Journal of Organic Chemistry** (22), 4392-4400, **2003**.
- 5) **I. Gupta** and M. Ravikanth\*; *Synthesis of meso-furyl porphyrins with N<sub>4</sub>, N<sub>3</sub>S, N<sub>2</sub>S<sub>2</sub> and N<sub>3</sub>O porphyrin cores*; **Tetrahedron** 59, (32), 6131-6139, **2003**.
- 4) **I. Gupta** and M. Ravikanth\*; *Synthesis of meso-furyl porphyrins*; **Tetrahedron Letters** 43, (51), 9453-9455, **2002**
- 3) D. Kumaresan, N. Agarwal, **I. Gupta** and M. Ravikanth\*; *Synthesis of 21-thia and 21-oxoporphyrin building blocks and boron-dipyrrin appended systems*; **Tetrahedron** 58, (26), 5347-5356, **2002**.
- 2) D. Kumaresan, **I. Gupta** and M. Ravikanth\*; *Synthesis and characterization of 21-oxo-porphyrin building blocks and energy donor appended systems*; **Tetrahedron Letters** 42, (48), 8547-8550, **2001**.
- 1) P. Boobalan, **Iti Gupta** and M. Ravikanth\*; *Synthesis of single strapped 21-thiatetraphenylporphyrin systems*; **Indian Journal of Chemistry** 41-A, 1860-1863, **2001**.
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## INVITED LECTURES

- 7) **Iti Gupta\***, *Bridged Bis-BODIPYs: Synthesis & Studies*, 10th International Conference of Porphyrins & Phthalocyanines (ICPP-10), Munich (Germany), July 1-6, **2018**.
- 6) **Iti Gupta\***, *BODIPYs and Aza-BODIPYs: Synthesis and Properties*, National Conference on Applied Materials Science, Central Univ. of Gujarat (Gandhinagar) April 6-7, **2018**.
- 5) **Iti Gupta\***, *BODIPYs and Aza-BODIPYs: Synthesis and Applications*, Modern Trends in Inorganic Chemistry (MTIC-XVII), NCL Pune (Pune), Dec. 11-14, **2017**.
- 4) **Iti Gupta**, *BODIPYs and Aza-BODIPYs: Synthesis and Applications*, National Symposium on Chemistry of Light and Medicine, 8-9 Dec. 2016, IIT Gandhinagar.
- 3) **Iti Gupta\*** and Praseetha E. K., "*Bis-BODIPYs: Synthesis and Studies*" 9<sup>th</sup> International Conference of Porphyrins & Phthalocyanines (ICPP-9), Nanjing (China), July 3-8, **2016**.
- 2) **Iti Gupta\*** and N. Balsukuri, *Corrole-Carbazole Conjugates*, 8<sup>th</sup> International Conference of Porphyrins & Phthalocyanines (ICPP-8), Istanbul (Turkey), June 23-27, **2014**.
- 1) **Iti Gupta\***, S. Das and N. Balsukuri, *Mono-functionalized N-Confused Porphyrins*, 7<sup>th</sup> International Conference of Porphyrins & Phthalocyanines (ICPP-7), Jeju (S. Korea), July 1-6, **2012**.
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## CONTRIBUTED PAPERS / POSTERS AT CONFERENCES

- 24) **Vijayalakshmi Pandey**, Praseetha E. K. and **Iti Gupta\***, "*BODIPY Dyes: Synthesis and Bio application*" Tenth International conference in porphyrins and pthalocynines (ICPP-10). Munich, Germany, July 1 – 6, **2018**.

23) **Vijayalakshmi Pandey**, Praseetha E. Kesavan and **Iti Gupta\***, "BODIPY Based Fluorescent Probes: Synthesis and Bio application" in Main-group Molecules to Materials. Munich, IISc Bangalore, October 28<sup>th</sup>-31<sup>st</sup> October **2018**.

22) **Manav Neha, Singh Rajvir** and **Gupta, Iti\*** "Photosensitized Singlet Oxygen Generation And AIEE Behavior of Dipyrrin Metal Complexes" 23rd CRSI National Symposium in Chemistry (**NSC-23**), Indian Institute of Science Education and Research Bhopal (IISER Bhopal), Bhopal, Madhya Pradesh India Jul. 13-15, **2018**.

21) **Praseetha, E. K.** and **Gupta, Iti\*** "Analysis of rate and efficiency of energy transfer in  $\beta$ -linked donor-acceptor type porphyrins" 23rd CRSI National Symposium in Chemistry (**NSC-23**), Indian Institute of Science Education and Research Bhopal (IISER Bhopal), Bhopal, Madhya Pradesh India Jul. 13-15, **2018**.

21) **Manav, Neha; E. K. Praseetha** and **Gupta Iti\*** " Phosphorescent Rhenium-Dipyrrinates: Crystal Structure and Electrochemical Studies" in *The Modern Trends in Inorganic Chemistry (MTIC-2017)*, IISER, Pune, IN, Dec. 11-14, **2017**.

20) **Pandey, Vijaylakshmi; Joshi, Pooja** and **Gupta, Iti\*** " Water Soluble Glycosylated Porphyrins : Synthesis and Characterization" in *The Modern Trends in Inorganic Chemistry (MTIC-2017)*. IISER, Pune, IN, Dec. 11-14, **2017**.

19) **Vijayalakshmi Pandey** and **Iti Gupta\***, *Fluorescent Porphyrins: Synthesis & Energy Transfer Studies, ISRAPs Discussion Meeting on Radiation & Photochemistry: Fundamentals to Applications*, IIT Gandhinagar, August 19th **2017**. (**Best Poster Award**)

18) **Vijayalakshmi Pandey** and **Iti Gupta\***, *Meso substituted Fluorescent Porphyrins: Synthesis & Properties*, New Frontiers in Chemistry -From Fundamentals to Applications-II (**NFCFA2017**) BITS-Pilani GOA Campus, January 28-29th, **2017**.

17) **Neha Manav, Sudipta Das, Iti Gupta\***, *Metal Dipyrrinato Complexes: Synthesis & Studies*, New Frontiers in Chemistry -From Fundamentals to Applications-II (**NFCFA2017**) BITS-Pilani GOA Campus, January 28-29th, **2017**.

16) **N. Balsukuri** and **Iti Gupta\*** "Donor-Acceptor Type Aza-BODIPYs" 9<sup>th</sup> International Conference of Porphyrins & Phthalocyanines (ICPP-9), Nanjing (China), July 3-8, **2016**.

15) **Mani Vedamalai** and **Iti Gupta\*** "Design and synthesis of BODIPY conjugates for biosensing" 18th CRSI National Symposium in Chemistry, Panjab University, Chandigarh, Feb 5-7, **CRSI-2016**.

14) **N. Balsukuri** and **I. Gupta\***, *Ferrocenyl Substituted Aza-BODIPY Dyes*, 18<sup>th</sup> CRSI National Symposium in Chemistry, Punjab University Chandigarh, February 5-7, **CRSI-2016**.

13) **Praseetha E. K.** and **I. Gupta\***, *Bridged BODIPYs: Synthesis and Computational Studies*, 18<sup>th</sup> CRSI National Symposium in Chemistry, Punjab University Chandigarh, February 5-7, **CRSI-2016**.

12) **V. Pandey, S. Das** and **I. Gupta\***, *Donor-Acceptor Type A<sub>2</sub>B<sub>2</sub> Porphyrins*, 18<sup>th</sup> CRSI National Symposium in Chemistry, Punjab University Chandigarh, February 5-7, **CRSI-2016**.

11) **N. Balsukuri** and **I. Gupta\***, *Synthesis and Properties of Ferrocene Aza-BODIPYs*, National Conference on Recent Advancement in Chemical Sciences (RAICS-2015), MNIT Jaipur, August 21-23, **2015**.

10) **P. E. Kesavan** and **I. Gupta\***, *meso*-Carbazole substituted boron dipyrromethenes as a potential dye candidate for DSSC, , National Conference on Recent Advancements in Chemical Sciences (**RAICS-2015**), MNIT Jaipur, August 21-23, **2015**.

9) **Mani Vedamalai**, Dhaval, Rajesh Vasita and **Iti Gupta\***, *BODIPY-based Clickates for The Detection Of Hg<sup>2+</sup> Ions Through PET-CHEF mechanisms and Their Application to Bioimaging*, National Conference on Recent Advancements in Chemical Sciences (**RAICS-2015**), MNIT, Jaipur, Aug, 23-25, **2015**.

8) **N. Balsukuri** and **I. Gupta\***, *Corrole/ Porphyrin-Carbazole Conjugates*, 10<sup>th</sup> Mid-Year CRSI Symposium in Chemistry, NIT Tiruchirapalli, July 23-25, **2015**. (**Best Poster Award**)

7) **Praseetha E. K.** and **I. Gupta\***, *Carbazole Substituted Boron Dipyrromethene Dyes*, 16<sup>th</sup> CRSI National Symposium in Chemistry (NSC-16), IIT Bombay, February 7-9, **2014**.

6) **I. Gupta\*** and **N. Balsukuri**, *Corrole-Carbazole Conjugates: Synthesis and Optical Studies*; Modern Trends in Inorganic Chemistry (MTIC-XV), IIT Roorkee, Dec. 13-16, **2013**.

5) **S. Das** and **I. Gupta\***, *A<sub>3</sub>B Type Meso-Aryl Functionalized Carbaporphyrins*, New Directions in Chemical Sciences, IIT Delhi, Dec.7-9, **2012**.

4) **N. Balsukuri** and **I. Gupta\***, *A<sub>2</sub>B<sub>2</sub> Type Meso-Aryl Functionalized Carbaporphyrins*, Frontiers in Chemical Sciences (FICS), IIT Guwahati (Assam), Dec. 2-4, **2012**.

3) **S. Das** and **I. Gupta\***, *Mono-functionalized N-Confused Porphyrins*; 14<sup>th</sup> CRSI National Symposium in Chemistry (NSC-14), NIIIST Trivandrum, February 3-5, **2012**.

2) **S. Das** and **I. Gupta\***, *Expanded Analogues of Benziporphyrins*, Frontiers in Chemical Sciences (FICS), IIT Guwahati, Dec. 3-4, **2010**.

1) **I. Gupta** and M. Ravikanth\*, *Meso-furyl, meso-thienyl, mono- and tri-functionalized heteroporphyrins*, Journal of Porphyrins & Phthalocyanines, 8, 673, **2004**. (ICPP-3, Luisiana, USA)

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