Brief Profile

Dr. Someshwar Pola M.Sc. Ph.D.

Professional:
Assistant Professor
Department of Chemistry
Osmania University
Hyderabad-500007,
Telangana State, India.
Mobile No: +91-9959972288
E-mail: somesh.pola@gmail.com
somesh.pola@osmania.ac.in
https://scholar.google.co.in/citations?hl=en&user=ZMqIhysAAAAJ&pagesize=80&view_op=list_works

- Dr. Someshwar Pola is working as Assistant Professor, Department of Chemistry, University College of Science, Osmania University since 2013.
- He has received B.Sc. from Kakatiya University, M.Sc from P.G center, Mirzapur, Osmania University and Ph.D. in chemistry from Kakatiya University, Warangal, Telangana State, India. Dr. Pola worked as a visiting faculty member at Institute of Chemistry, Academic Sinica, Taipei, Taiwan for two months in 2017. He also worked as Postdoctoral Fellow (PDF) at Institute of Chemistry, Academic Sinica, Taipei, Taiwan from August 2008 to April 2012. During this period, he has focused on the synthesis, characterization of organic functional materials towards Single-Crystal Field Effect Transistors.
- He also has Industrial Experience in medicinal Research and Development (AR&D), Senior Research scientist, GVK Biosciences Pvt. Ltd., Hyderabad, India.
- Dr. Pola published over 74 Research Papers in reputed International and National Journals (Citations: 1105, **h-index: 19, i10-index: 37**) and has two book chapter to his credit. He also presented research papers in 38 National and 25 International conferences. He delivered guest/invited lectures in various colleges/conferences.
- He has 13 years of teaching and 24 years of research experience. His research focuses on Supramolecular Chemistry, Solar Cell device Fabrication studies and Organic field effect-transistors and Photocatalysis of Organic pollutants in the presence of Metal oxide semiconductor and Metal Organic Frameworks.
- Under his supervision **8** P.G. students have completed their dissertation work. So far, he has supervised **07** PhD's and presently guiding 6 students for their doctoral degree.

PROFESSIONAL PARTICULARS

Assistant Professor
Nizam College: Sep. 2013 – Oct. 2018
University College of Science: Oct. 2018 - present

Projects:

SERB, UGC, DST-PURSE (completed) and DRDO (Ongoing) with Rs. 65.00 lakhs

Publications and Book chapters

BOOK CHAPTERS: **04**
Total no. of Publications: **75**

Professional recognition, and fellowships received:

i) Life member of Society for Materials Chemistry; ii) Life member of Materials Research Society of India (MRSI) iii) Life member of Indian Science Congress (ISC),

Additional responsibilities at Institute level:

Assistant controller (Oct-2020 to Jan-2021).

Additional responsibilities at Department level:

Incharge for Instruments

Training Programme

As a co-coordinator conducted a refresher course on "Chemical Sciences", on 20-01-2022 to 03-02-2022, UGC-HRDC, Osmania University, Hyderabad.

As a coordinator conducted a DST-STUTI a training program on "Characterization of Materials/Compounds by using Advanced Instruments" Osmania university (Spoke) and NIT, Warangal (Hub) on 16th – 22nd August 2022.

List of Publications

1. R. Parikirala, R. Kore, V. Rohini, D. V. Rao, P. Chetti, **Someshwar Pola,** Synthesis of New Cu/Zn (II) Complexes for Sonophotocatalysis for Mineralization of Pesticides and Agrochemical Wastewater, J. Environ. Chem. Eng., 2024, 113471, (https://doi.org/10.1016/j.jece.2024.11347).
2. K Masula, R Kore, Y Bhongiri, **Someshwar Pola**, M Basude, Ag-Li-ZnO nanostructures for efficient photocatalytic degradation of organic dyes and textile wastewater under visible light treatment, J. Mol. Structure, 2024, 1305, 137750.
3. M. Erragolla, R, Gade, R. Kore, S. N. Babu, S. V. Manorama, P Chetti, Someshwar Pola Photomineralization of urban stormwater under visible light irradiation by using new tellurium-based defect pyrochlores, Sus. Chem. Environ., 2024, 5, 100080.
4. R. Vallavoju, R. Kore, P. Radhika, M. Subburu, M. Basude, P. Chetti, **Someshwar Pola**, Degradation of organic pollutants in the presence of new Mn (II) complexes under ambient light or darkness conditions, J. Photochem. & Photobiol. A: Chem., 2023, 442, 114775.
5. S. K. Nayak, R. Kore, Md S. Ahmed, P. Verma, R. Vallavoju, D. Banerjee, **Someshwar Pola**, V. R. Soma, P. Chetti, S. S. K. Raavi, Femtosecond nonlinear optical properties of polycyclic aromatic hydrocarbon-based Benzo[e]pyrene derivatives, Optical Mater., 2023, 137, 113603.
6. Y. K. Lakshmi, S. Bharadwaj, S. Chanda, Ch. V. K. Reddy, **Someshwar Pola**, K. V. S. Kumar, Iron ion non-stoichiometry and its effect on structural, magnetic and dielectric properties of cobalt ferrites prepared using oxalate precursor method, Mater. Chem. & Phy., 2023, 295, 127172.
7. R. Vallavoju, R. Kore, P. Radhika, M. Subburu, R. Gade, M. Basude, **Someshwar Pola,** P. Chetti, Enhanced piezo-photocatalytic properties of new salophen based Ti (IV) complexes, Inorg. Chem. Commun., 2023, 148, 110272.
8. A. Kularkar, S. Chaudhari, Someshwar Pola, S. S. Rayalu, S. I. Chan, P. Nagababu, Hijacking the hydrogen atoms in photo-splitting of H2O2 for efficient reduction of CO_2 to CH_3OH, **Fuel**, 2023, 349, 128716.
9. M. Ambapuram, M. M. Parnapalli, G. Maddala, S. Kalvapalli, **Someshwar Pola**, R. Mitty, Dual-Function NaYF4:Yb^{3+}/Er^{3+} Boosts Efficiency for Multi-Dye Sensitized

Solar Cells and Carbon-Based $CsPbI_2Br$ Perovskite Solar Cells, ChemPhotoChem 2023, e202200302 (1 of 10).

10. K. Masula, P. Sreedhar, P. V. Kumar, Y. Bhongiri, **Someshwar Pola**, M. Basude, Synthesis and characterization of $NiO–Bi_2O_3$ nanocomposite material for effective photodegradation of the dyes and agricultural soil pollutants, Mater. Sci. Semicond. Process., 2023, 160, 107432.
11. R. Vallavoju, R. Kore, R. Parikirala, M. Subburu, R. Gade, V. Kumar, M. Raghavender, P. Chetti, **Someshwar Pola**, Synthesis and Characterization of New Tetradentate N_2O_2-Based Schiff's Base Cu (II) Complexes for Dye Photodegradation, Photochem 2023, 3, 274–287.
12. S. Bharadwaj, Y. K. Lakshmi, K. Ramya, Ch. V. K. Reddy, **Someshwar Pola**, A Study of Magnetic and Dielectric Properties for Iron Ion Variation in Cobalt Ferrite, Spin, 2023, 13, 2340008.
13. M. Ambapuram, M. M. Parnapalli, G. Maddala, S. Kalvapalli, L. Goswami, G. Gupta, **Someshwar Pola**, R. Mitty, Voltage and Power Conversion Performance of Bi-function ZrO2: Er^{3+}/Yb^{3+} Assisted and Co-sensitized Dye Sensitized Solar Cells for Internet of Things Applications, Chemphyschem: a Eur. J. Chem. Phy. & Phy. Chem., 2023, e202300572.
14. S. Mishra, P. Supraja, D. Haranath, R. R. Kumar, **Someshwar Pola**, Effect of surface and contact points modification on the output performance of triboelectric nanogenerator, Nano Energy, 2022, 104, 107964.
15. R. Gade, M. Basude, N. B. Simhachalam, V. R. Devi, **Someshwar Pola**, P. Chetti, Synthesis of titanates for photomineralization of industrial wastewater and organic pollutants, Environ. Sci.: Water Res. Technol., 2022, 8, 3065.
16. K. Manda, R. Kore, M. Ambapuram, P. Chetty, S. Roy, V. Jadhav, S. N. Babu, R. gundla, R. Mitty, **Someshwar pola** D-A-π-A-D Type Based Benzo-dithiophene as Core moiety a New Class Hole Transporting Materials for Efficient Perovskite Solar Cells, *ChemPhotoChem*, 2022, e202200062.
17. Suresh Kilaru, Ramesh Gade, Yadagiri bhongiri, Anuj Tripathi, Prabhakar Chetti, **Someshwar Pola**,* Organic materials based on hetero polycyclic aromatic

hydrocarbons for organic thin-film transistor applications, *Materials Science in Semiconductor Processing*, 2022, 147, 106730.

18. Mahesh Subburu, Ramesh Gade, Prabhakar Chetti, **Someshwar Pola**, Photooxidation of 2,20-(Ethyne-1,2-diyl)dianilines: An Enhanced Photocatalytic Properties of New Salophen-Based Zn(II) Complexes, *Photochem*, 2022, 2, 358–375.
19. K Masula, Y Bhongiri, GR Rao, PV Kumar, **Someshwar Pola**, M Basude, Evolution of photocatalytic activity of CeO2–Bi2O3 composite material for wastewater degradation under visible-light irradiation, *Optical Materials*, 2022, 126, 112201.
20. V. M. Vidya, **Someshwar Pola**, P Chetti, Synthesis and Optical Properties of Mono- and Di-Substituted 1, 3, 5-Triazines Functionalized with Thiophene and Furan, *Journal of Molecular Structure*, 2022, 1230, 132408.
21. S. P. Sai Sushma, G. Swarupa, T. Nagesh, **Someshwar Pola**, P. Rajitha, B. Vijaya Kumar, G. Upender, Enhanced photocatalytic activity of $CdWO_4/BaTiO_3$ heterostructure for dye degradation, *New J. Chem.*, 2021,45, 19723-19732.
22. G. Maddala, R. Gade, J. Ahemed, S. Kalvapalli, N. B. Simhachalam, P. Chetti, **Someshwar Pola,** R. Mitty, Efficient, Dopant free Phenazine based Hole Transporting Materials for High Performance Perovskite Solar Cells. *Solar Energy*, 2021, 226, 501-512.
23. Venkateshwar Rao D, Mahesh Subburu, Ramesh Gade, Manohar Basude, Chetti Prabhakar, Narendra S. Babu, Nagababu penumaka Yadagiri Bhonogiri and **Someshwar Pola**, New Zn (II) Complex-Composite Material: Piezo-Enhanced Photomineralization of Organic Pollutants and Wastewater from Lubricant Industry, Environ. Sci.: Water Res. Technol., 2021,7, 1737-1747.
24. Venkat Swamy Puli, Suresh K, Yadagiri Bhongiri, Anuj Tripathi, Prabhakar Chetti, Anindita Chatterjee, Kiran Kumar Vukoti and Someshwar Pola,* New indolo[1,2-c]quinazolines for Single-crystal field effect transistor (SCFET): A united Experimental and Theoretical Studies, Journal of Physical Organic Chemistry, 2021, 34, e4276.
25. J. Ahemed, J. Pasha, V. Rao D. R. Kore, R. Gade, Y. Bhongiri, P. Chetti, Someshwar Pola,* Synthesis of New Zn (II) Complexes for Photo decomposition of Organic Dye Pollutants, Industrial Wastewater and Photo-oxidation of methyl Arenes under

Visible-light, Journal of Photochemistry & Photobiology, A: Chemistry, 2021, 406, 113455.

26. V. S. Puli, M. Subburu, Y. Bhongiri, A. Tripathi, K.R.S. Prasad, A. Chatterjee, **Someshwar Pola**, P. Chetti, New Indolo[3,2-b]indole based small organic molecules for Organic Thin Film Transistors (OTFTs): A combined experimental and DFT Study, Journal of Molecular Structure, 2021, 1229, 129491.
27. M, Subburu, R. Gade, V. Guguloth, P. Chetti, K. R. Ravulapelly, **Someshwar Pola,** Effective photodegradation of organic pollutants in the presence of mono and bi-metallic complexes under visible-light irradiation, Journal of Photochemistry & Photobiology, A: Chemistry 406 (2021) 112996.
28. Vidya V. M., **Someshwar Pola** and Prabhakar Chetti, Optoelectronic and charge transport properties of D-n-A type 1,3,5-triazine derivatives: A combined experimental and DFT study, Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy 245 (2021) 118940.
29. M. S. Kumar, G. Maddala, M. Ambapuram, M. Subburu, J. R. Vaidya, S. N. Babu, P. Chetti, R. Mitty and **Someshwar Pola**, Cost-effective thiophene-assisted novel dopant free hole transport materials for efficient perovskite solar cell performance, Sustainable Energy Fuels, 2020, 4, 4754–4767.
30. S. Bharadwaj, A. Tirupathi, N. P. Kumar, **Someshwar Pola**, Y. K. Lakshmi, Study of magnetic and magnetoresistance behaviour of $La_{0.67}Sr_{0.33}MnO_3$–$CoFe_2O_4$ composites, Journal of Magnetism and Magnetic Materials, 2020, 513, 167058.
31. Venkanna G., Jakeer A., Mahesh S., Vijaya Charan G., Prabhakar Ch., **Someshwar Pola,** A very fast photodegradation of dyes in the presence of new Schiff's base N4-macrocyclic Ag-doped Pd(II) complexes under visible-light irradiation, Journal of Photochemistry & Photobiology A: Chemistry, 2019, 382, 111975.
32. S. Kumar, **Someshwar Pola**, C.-W. Huang, Md. M. Islam, S. Venkateswarlu, Y.-T. Tao, Polysubstituted Hexa-cata-Hexabenzocoronenes: Syntheses, Characterization and Their Potential as Semiconducting Materials in Transistor Application, Journal of Organic Chemistry, 2019, 84, 8562.

33. V. Gugulothu, J. Ahemed, M. Subburu, B. Yadagiri, R. Mittal, Ch. Prabhakar, **Someshwar Pola,** Evolution of Physical and Photocatalytic Properties of New Zn(II) and Ru(II) complexes, Polyhedron, 2019, 170, 412. .
34. J. Miryala, A. Tripathi, Ch. Prabhakar, D. Sarma, **Someshwar Pola,** B. Satyanarayana, Eco-friendly synthesis, crystal structures, photophysical properties and DFT studies of new N-arylthiazole-5-carboxamides, J. Mol. Struct., 2019, 1184, 193.
35. D. Bharath, M. Sasikumar, N. R. Chereddy, J. R. Vaidya, **Someshwar Pola**, Synthesis of new 2-((5-(4-alkyl-4H-dithieno[3,2-b:2′,3′-d]pyrrol-2-yl) thiophen-2-yl)methylene)malononitrile: Dopant free hole transporting materials for perovskite solar cells with high power conversion efficiency, Solar Energy, 2018, 174, 130.
36. S. Y. Abate, W.-T. Wu, **Someshwar Pola** and Y.-T. Tao, Compact TiO_2 films with sandwiched Ag nanoparticles as electron-collecting layer in planar type perovskite solar cells: improvement in efficiency and stability, RSC Adv., 2018, 8, 7847.
37. R. Gade, J. Ahemed, K. L. Yanapu, S. Y. Abate, Yu-Tai Tao, **Someshwar Pola**, Photodegradation of Organic Dyes and Industrial Wastewater in the Presence of Layer-type Perovskite Materials under Visible Light Irradiation, J. Environ. Chem. Eng., 2018, 6, 4504.
38. S. Gudala, S. R. Ambati, S. Penta, S. P. Mahapatra, R. R. Vedula, **Someshwar Pola** and B. Acharya, Synthesis of Heterocyclic Compounds Catalyzed by Metal/Metal Oxide-Multiwall Carbon Nanotube Nanocomposites, A. Sharma, J. Chinese Chem. Soc., 2017, 64, 589.
39. S. R. Ambati, S. Gudala, A. Sharma, S. Penta, V. L. Reddy, Y. Bomma, V. R. Janapala and **Someshwar Pola**, Facile Synthesis of Novel 3-(4-phenylisothiazol-5-yl)-2H-chromen-2-one Derivatives as Potential Anticancer Agents, J. Heterocyclic Chem., 2017, 54, 2333.
40. Y. T. Tao, **Someshwar Pola**, S. Kumar, M. M. Islam, Synthesis and Characterization of Contorted Pentabenzo-Fused Coronenes as Semiconducting Materials, J. Org. Chem., 2017, 82, 8067.
41. **Someshwar Pola**, Y. Bhongiri, R. Jadhav, Ch. Prabhakar and G. Venkanna,Synthesis of new fused heterocyclic aromatic hydrocarbons via C–S and C–C bond formation by C–H

bond activation in the presence of new Pd(II) Schiff's base complexes, RSC Adv., 2016, 6, 88321.

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43. J. Sunkari, S. Kundha, R. R. Gundapaneni, A. Reddy, **Someshwar Pola**, S. Kodumuru, J. S. Sreedasyam, Supramolecular interactions between a diamine-diamide ligand and anions, trigonal planar NO_3^- and spherical Cl^-: Multiple hydrogen bond cooperativity through water molecules, Ind. J. Chem. (Sec-A), 2015, 54A, 596.

44. **Someshwar Pola** et. al., Synthesis, characterization and silver / copper-nitrogen substitutional effect on visible light driven photocatalytic performance of sodium hexatitanate nanostructures, J. Chem. Tech. & Biotech., 2014, 90, 1507**.**

45. G. Ravi, N. K. Veldurthi, R. Velchuri, R. Guje, **Someshwar Pola**, M. Vithal, N. R Muniratnam, Photocatalytic performance of nitrogen-doped and Cu^{2+} and Ag^+ co-doped sodium trititanates, Int. J. Appl. Ceram. Tech., 2015, 12, 700.

46. J. Sunkari, R. R. Gundapaneni, S. Kundha, K. Sridhar, A. Reddy, **Someshwar Pola**, S. J. Swamy, Preparation and structural investigations of new hexadentate Schiff base ligands and their bivalent metal complexes, and, catalytic applications of the complexes in allylic and benzylic C–H bond activation, Ind. J. Chem. (Sec-A), 2014, 53A, 535.

47. G. Ravi, N. K. Veldurthi, S. Palla, Radha V, **Someshwar Pola,** M. Vithal., Preparation and photocatalytic activity of $KAl_{0.33}W_{1.67}O_6$ and $Sn_{0.5}Al_{0.33}W_{1.67}O_6$**,** Photochem. & Photobiol., 2013, 89, 824.

48. J. R. Reddy, G. Ravi, N. K. Veldurthi, R. Velchuri, **Someshwar Pola,** M. Vithal**,** and B. Sreedhar, Sol-Gel Synthesis and Photocatalytic Study of Visible Light Active N-Doped $KSbWO_6$, Z. Anorg. Allg. Chem, 2013, 639, 794.

49. M. Vithal, S. Rama Krishna, G. Ravi, S. Palla, R.Velchuri and **Someshwar Pola,** Synthesis of Cu^{2+} and Ag^+ doped $Na_2Ti_3O_7$ by a facile ion-exchange method as visible-light-driven photocatalysts, Ceram. Int**.,** 2013, 39, 8429.

50. **Someshwar Pola**, Chi-Hsien Kuo, Wei-Tao Peng, Md. Minarul Islam, Ito Chao, Yu-Tai Tao, Contorted tetrabenzocoronene derivatives for single crystal field effect transistors: correlation between packing and mobility, Chem. Mater., 2012**,** 24, 2566.

51. Y. Chen, B. Lee, H. T. Yi, S. S. Lee, M. M. Payne, **Someshwar Pola,** Y.-L. Loo, J. E. Anthony, Y. T. Tao, V. Podzorov, Dynamic character of charge transport parameters in disordered organic semiconductor field-effect transistors, , Phys. Chem. Chem. Phys., 2012, 14, 14142.

52. Md. M. Islam, **Someshwar Pola,** Yu-Tai Tao, High mobility n-channel single-crystal field-effect transistors based on 5,7,12,14-tetrachloro-6,13-diazapentacene, Chem. Commun., 2011, 47, 6356.

53. H. Y. Ho, C. H. Ko, C. C. Cheng, Y. T. Su, **Someshwar Pola,** Chirality and Bioactivity of the Sex Pheromone of Madeira Mealybug (Hemiptera: Pseudococcidae), J. Econ. Entomol., 2011, 104, 823.

54. Md. M. Islam, **Someshwar Pola,** Yu-Tai Tao, Effect of Interfacial Structure on the Transistor Properties: Probing the Role of Surface modification of Gate Dielectrics with Self-Assembled Monolayer Using Organic Single-Crystal Field-Effect Transistors, ACS Appl. Mater. Interfaces**,** 2011, 3, 2136.

55. T.-H. Chuang, Y.-C. Chen, **Someshwar Pola,** Use of the Curtius Rearrangement of Acryloyl Azides in the Synthesis of 3,5-Disubstituted Pyridines: Mechanistic Studies, J. Org. Chem.**,** 2010, 75, 6625.

56. S. J. Swamy, **Someshwar Pola,** Spectroscopic studies on Co(II), Ni(II), Cu(II) and Zn(II) complexes with a N_4-macrocyclic ligands. Spectochim. Acta Part A, 2008, 70, 929.

57. J. V. Madhav, B. S. Kuarm, **Someshwar Pola,** B. Rajitha, Y. T. Reddy, Peter A. Crooks, $CuPy_2Cl_2$: A novel and efficient catalyst for synthesis of propargylamines under conventional method and microwave irradiation, Syn. Commun.**,** 2008, 38, 3215.

58. J. V. Madhav, V. N. Kumar**, Pola Someshwar**, B. Rajitha, A simple and convenient method for the synthesis of aryl-14*H*-dibenzo[*a.j*]xanthenes by using Dipyridine copper chloride as Lewis acid catalyst, J. Heterocyclic Chem., 2008, 45, 119.

59. J. V. Madhav, **Pola Someshwar**, V. N. Kumar, B. Rajitha, Dipyridine cobalt chloride: a novel catalyst for the synthesis of coumarins via Pechmann condensation, J. Chem. Res., 2008, 232.

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62. V. N. Kumar, **Pola Someshwar**, P. N. Reddy, B. Rajitha, Y. T. Reddy, Dipyridine copper chloride catalyzed coumarin synthesis via pechmann condensation under conventional heating and microwave irradiation, Arkivoc, 2006 (xii) 23**.**

63. V. N. Kumar, **Pola Someshwar**, P. N. Reddy, Y. T. Reddy, B. Rajitha, Copper Dipyridine Dichloride as a mild and efficient catalyst for a one pot condensation Beginelli Reaction, J. Heterocyclic Chem, 2005, 42, 1017.

64. S. J. Swamy, B. Veerapratap, **Pola Someshwar**, K. Suresh, D. Nagaraju, Synthesis and spectral studies of Iron(III), Ruthenium(III) and Rhodium(III) Complexes with new tetraaza macrocyclic ligands, J. Chem. Res., 2005, 313.

65. S. J. Swamy, K. Suresh, **Pola Someshwar,** D. Nagaraju, Synthesis of Novel Schiff's Bases Containing Pyridine Rings, Syn. Commun., 2004, 34, 1847.

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Book Chapters

1. R. Parikirala, P. Chetti, **Someshwar Pola**, Chapter Twenty Six - Photocatalytic applications of metal ion-doped graphene oxide, Comprehensive Analytical Chemistry, 106, 2024, 769-806, https://doi.org/10.1016/bs.coac.2024.03.004.
2. R. Parikirala, S. Tiwari, G. Thalari, M. Basude, P. Chetti, **Someshwar Pola,** Chapter Fifteen - Electrochemical synthesis of graphene oxide and its analytical applications, Comprehensive Analytical Chemistry, 2024, 106, 435-460, https://doi.org/10.1016/bs.coac.2024.03.003.
3. **Someshwar Pola**, R. Gade, Significant Role of Perovskite Materials for Degradation of Organic Pollutants, Perovskite and Piezoelectric Materials, DOI: 10.5772/intechopen.91680.
4. **Someshwar Pola**, Significance of Thiazole-based Heterocycles for Bioactive Systems, Scope of Selective Heterocycles from Organic and Pharmaceutical Perspective, DOI: 10.5772/62077.