CURRICULUM VITAE

Prof. P.VIJAYKUMAR

SUMMARY

- Presently working as Professor of Chemistry, From June 2017 to till date, Osmania University, Hyderabad, India
- Associate Professor of Chemistry, July 2009 – June 2017, Osmania University, Hyderabad, India.
- Assistant Professor of Chemistry, August 1997- July 2009, Osmania University, Hyderabad, Telangana, India
- Ph.D. Chemistry (Organic Chemistry), Sept 2016, Osmania University, Hyderabad, India
- Experienced in Synthetic Organic Chemistry & Medicinal Chemistry
- Experienced in isolation & characterization of natural products from indigenous medicinal plants
- Experienced in amino acids & peptide synthesis
- Well-versed in literature search using advanced search engines (SciFinder, Reaxys and Chemical Abstract)

KEY SKILLS

♦Synthetic organic chemistry
♦ Isolation of natural products
♦ Medicinal chemistry
♦ Spectral analysis (^{1}H &^{13}C NMR, 2D-NMR (HSQC, HMBC, DEPT), IR, UV, MS and CHN analysis).

EDUCATION

Ph.D (Organic Chemistry), May 2005- Sept 2016 (*pursued Doctoral degree as a teacher*)
Under Prof. G. L. David Krupadanam, Natural product laboratory, Osmania University (OU), Hyderabad-India.
Title: "Synthesis and antibacterial activity of heterocycle substituted 3-coumarins and isolation, semi synthesis of 3-acetyl betulinic acid C-28 thiadiazole analogues".
M.Sc (Chemistry, Branch: Organic chemistry), July 1992- May 1994
Osmania University, Hyderabad, India.
B.Sc, (Majors: Botany, Zoology & Chemistry), June1989 to Apr 1992
Osmania University, Hyderabad, India.

PROFESSIONAL EXPERIENCE

- As a resource person for seminars and workshops.
- As a subject expert in selections of lecturers conducted by different public service commissions
- Worked as a **Departmental committee member** and as **Board of Studies Member**, Department of Chemistry, Osmania University, Hyderabad, India.

LIST OF PUBLICATIONS

1. Srinivas Burra, Vani Voora, Ch Prasad rao, **P Vijay Kumar**, Ramakrishna Kancha and G. L. David Krupadanam., *Synthesis of novel forskolin isoxazole derivatives with potent anti-cancer activity against brest cancer cell lines.,* ***Bioorganic Medicinal Chemistry Letters***., **2017**, 27, 4314-4318.
2. E. Yadaiah Goud, B. Kanakadurga Rao, G Thirupathi, Y Hemasri, Ch. Prasad Rao, **P. Vijay Kumar** and Y Jayaprakash Rao., Synthesis of Highly Z-Selective *Coumarin Annulated Dioxocine, Dioxacindione and Macrocycles Using Grubbs Second-Generation Catalyst****., Chemistry Select.,*** **2017**, 2, 1170-1174.

3. **P Vijay Kumar**. et.al ., *Photocatalytic and DC conductivity studies of proton exchanged* $KAl_{0.33}W_{1.67}O_6$ *and its application in* Pb^{+2} *removal*., ***Indian Journal of Chemistry***,**2017**, 56A, 270-277.
4. **Vijay Kumar Pasala**., PMA-SiO_2: *Heteropolyacid Catalysis for Michael Addition-Convenient Route to Substituted-3-Indoles*., ***Der Pharma Chemica***, **2017**, 9(13), 112-117.
5. **P Vijay Kumar**. et.al, *Low temperature synthesis of fluorite-type Ce-based oxides of composition* $Ln_2Ce_2O_7$ *(Ln = Pr, Nd and Eu): photodegradation and luminescence studies*., ***Journal of chemical sciences***, Vol. 129, No. 8, August 2017, pp. 1193–1203
6. Gopinath Gudipudi, Venu Sankeshi., Shyam P, Malini A, Srinivas. B, Prasad Rao Ch, **Vijay Kumar P**, Someswar R. Sagurthi, G.L. Daviad Krupadanam*, *Design and synthesis of chiral 2H-chromene-N-imidazolo-amino acid conjugates as aldose reductase inhibitors*, ***European Journal of Medicinal Chemistry*** **2016**, *124*, 750-762.
7. **Vijay Kumar pasala**., *Solvent-free, instant, ambient, n-boc protection of amine – A green, recyclable heterogenous acid catalysis by Amberlite-IR 120*., ***Der Pharma Chemica***, **2016**, 8(17), 272-276.
8. Srinivas Burra, **P Vijay Kumar**, P.Nagendar reddy, Sankeshi Venu, Perugu Shyam and G.L. David krupadanam , Design, Synthesis , Antioxidant and Antibacterial Activities of Novel 2-((1-Benzyl-1H-1,2,3-Triazol-4-yl) methyl) -5-(2H-Chromen-3-yl)-2H-Triazoles., **Russian journal of bioorganic chemistry**, 2018,v0l-44, N0.2, pp 244-251.
9. Sudhakar Mokenapelli, Madhu Gautam, Ramana Govu, **Vijaykumar Pasala**, Jayaprakash Rao Yerrabelly and Prasadrao Chitneni, De novo consecutive chemo/ regio selective IBX mediated oxidation of andrographolide and its derivatives., **Synthetic communications** 2019, VOL. 49, NO. 10, 1241–1251.
10. **Vijaykumar Pasala** & Srinivas Basavoju. Synthesis of spirooxindolocarbamates baed on Betti reaction: antibacterial, antifungal and antioxidant activities. **Mol.Divers 2020 Nov;24(4):1139-1147.** https://doi.org/10.1007/s11030-019-10017-w.
11. **Vijay Kumar Pasala** [a,*], Gopinath Gudipudi [a], Venu Sankeshi [b], Manohar Basude [a], Rambabu Gundla [c], Surendar singh Jadav [d], Burra Srinivas [a], E. Yadaiah Goud [a], Devasani Nareshkumar [a]. "Design, synthesis and biological evaluation of selective hybrid coumarin-TZD aldose reductase-II inhibitors as potential antidiabetics". **Bioorganic Chemistry 114 (2021) 104970.**
12. **P Vijay Kumar** & Manohar Basude. Hantzsch synthesis of 1,4-dihydropyridine derivatives over ZnO/ZrO2 catalyst under solvent free condition., **Indian Journal of Chemistry, 60A, 2021, 105-1063.**
13. **Vijay Kumar Pasala** and Manohar Basude. Highly active zinc oxide-supported lithium oxide catalyst for solvent free Knoevenagel condensation. **Journal of Chemical Sciences. (202) 133:67.**
14. **P. Vijay Kumar**, Manohar Basude. Evolution of photocatalytic activity of CeO2–Bi2O3 composite material for wastewater degradation under visible-light irradiation. **Optical Materials 16 (2022) 112201**.

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