

LIST OF PUBLICATIONS FROM 1995 – 2019

1. S.Kannan, S.Velu, V.Ramkumar and C.S.Swamy, Synthesis and physicochemical properties of cobalt aluminium hydrotalcite, *J. Mat. Sci.*, **1995**, 30, 1462-1468.
2. U. Kameswari, A. Narayanan, V. Ramkumar and Dorothy Samuel, Reaction of Piperidine with Formaldehyde over Alumina Catalysts, *Selected studies in Heterogenous Catalysis*, **1996**. Edited by Dr.B.Viswanathan.
3. S. Velu, V. Ramkumar, A. Narayanan and C. S. Swamy, Effect of interlayer anion on the Physicochemical properties of Zinc aluminium hydrotalcites, *J. Mat. Sci.*, **1997**, 32, 957.
4. Quentin Hanley and V. Ramkumar, An Internal standardization procedure for Spectrally resolved Fluorescence Life Imaging Microscope (sFLIM). *App. Spect.*, **2005**, 59, 261-266.
5. S. Rajeswari, G. Venkatesa Prabhu, K. Krishnakumar, V. Ramkumar and B. Varghese, 1-[(2,5-Dioxopyrrolidin-1-yl)(phenyl)methyl]urea. *Acta Cryst.* **2007**, E63, o2929.
6. T. Augustine, C. C. Kanakam, R. Suresh, Y. Christurajan and V. Ramkumar, 6-Methoxy-1'-methyl-4'-phenylchroman-3-spiro-3'-pyrrolidine-2'-spiro-3"(2"^H)-indole-2",4-dione. *Acta Cryst.*, **2007**, E63, o3794.
7. T. Augustine, V. Ramkumar, S. Arul Antony and C. C. Kanakam, 6"-Methoxy-1'-methyl-4'-phenylacenaphthene-1-spiro-2'-pyrrolidine-3'-spiro-3"-chroman-2,4"-dione, *Acta Cryst.*, **2007**, E63, o4412.
8. A. Doddi, T. A. Luiz, V. Ramkumar and M. N. S. Rao, cis-Bis (benzyl methyl phenyl phosphine- P) tetracarbonylmolybdenum(0), *Acta Cryst.*, **2007**, E63, m2727.
9. P. Parthiban, S. Umamatheswari, A. Doddi, V. Ramkumar and S. Kabilan, r-2,c-6-Bis(4-bromophenyl)-t-3,t-5-dimethyltetrahydropyran-4-one, *Acta Cryst.*, **2007**, E63, o4373.
10. R. Ramachandran, P. Parthiban, A. Doddi, V. Ramkumar and S. Kabilan, r-2,c-6-Bis(3-fluorophenyl)-t-3,t-5-dimethylpiperidin-4-one, *Acta Cryst.*, **2007**, E63, o4559.
11. T. Augustine, V. Ramkumar and Charles C. Kanakam, 1'-Methyl-4'-phenylacenaphthene-1-spiro-2'-pyrrolidine-3'-spiro-3"-benzo[g]chroman-2,4"-dione, *Acta Cryst.*, **2007**, E63, o4717.
12. P. Parthiban, V. Ramkumar, M. S. Kim, K. T. Lim and Y. T. Jeong , 2,4-Bis(2-chloro phenyl)-3-azabicyclo [3.3.1]nonan-9-one, *Acta Cryst.*, **2008**, E64, o1586.
13. P. Parthiban, V. Ramkumar, N. A. Kumar, J. S. Kim and Y. T. Jeong, r-2,c-6-Bis(3-methoxyphenyl)-t-3,t-5-dimethylpiperidin-4-one, *Acta Cryst.*, **2008**, E64, o1631.
14. P. Parthiban, K. Thirumurugan, V. Ramkumar, S. Pazhamalai and Y. T. Jeong 2,4-Bis(3-fluoro phenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2008**, E64, o1708-o1709.

15. P. Parthiban, V. Ramkumar, H. D. Santan, J. T. Kim and Y. T. Jeong, 2,4-Bis(4-fluoro phenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2008**, E64, o1710.
16. G. Ramachandran, R. Suresh, S. Sreedevi, Charles C. Kanakam and V. Ramkumar, 6-Formyl- 2-methoxy-3-nitrophenyl 4-toluenesulfonate, *Acta Cryst.*, **2008**, E64, o2046.
17. T. Augustine, Scholastica Mary Vithiya, V. Ramkumar and Charles C. Kanakam, 3-Benzylidene-6-methoxychroman-4-one, *Acta Cryst.*, **2008**, E64, o2080.
18. P. Parthiban, V. Ramkumar, M. S. Kim, K. T. Lim and Y. T. Jeong, 2,4-Bis(3-bromo phenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2008**, E64, o2332.
19. P. Parthiban, V. Ramkumar, M. S. Kim, K. T. Lim and Y. T. Jeong, 2,4-Bis(2-bromo phenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2008**, E64, o2385.
20. Rajeswari. S, Venkatesa Prabhu. G, Tamilvendan. D, V. Ramkumar Spectroscopic studies and crystal structure of 1-[(2,5-dioxopyrrolidin-1-yl)(phenyl) methyl] thio urea, *J. Chem. Cryst.*, **2009**, 39, 650–654.
21. Rajendra S. Dhayal, Satyanarayan Sahoo, V. Ramkumar and Sundargopal Ghosh, Substitution at Boron in Molybdaborane Frameworks: Synthesis and Characterization of Isomeric $(h_5\text{-}C_5\text{Me}_5\text{Mo})_2 B_5\text{H}_n\text{X}_m$ (when X = Cl: n = 5, 7, 8; m = 4, 2, 1 and X = Me: n = 6,7;m=3,2), *J. Organomet. Chem.*, **2009**, 694, 237-243.
22. L. Muruganandam, S. Rajeswari, D. Tamilvendan, V. Ramkumar and G. V. Prabhu N-[Morpholino(phenyl)methyl]benzamide, *Acta Cryst.*, **2009**, E65, o578.
23. P. Parthiban, V. Ramkumar, M. S. Kim, S. Kabilan and Y. T. Jeong ,2,4-Bis(4-chloro phenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2009**, E65, o609.
24. P. Parthiban, V. Ramkumar, H. D. Santan, J. T. Kim and Y. T. Jeong, 2,4-Bis(3-chloro phenyl)-3-azabicyclo[3.3.1]nonan-9-one., *Acta Cryst.*, **2009**, E65, o840.
25. P. Parthiban, V. Ramkumar, M. S. Kim, S. M. Son and Y. T. Jeong, 2,4-Bis(2-methoxy phenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2009**, E65, o1383.
26. P. Parthiban, V. Ramkumar, S. Amirthaganesan and Y. T. Jeong, 2,4-Bis(4-bromophenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2009**, E65, o1356.,
27. Paramasivam Parthiban, Gopalakrishnan Aridoss, Paramasivam Rathika, Venkatachalam Ramkumar and Senthamarai Kannan Kabilan. Synthesis, spectral, crystal and antimicrobial studies of biologically potent oxime ethers of nitrogen, oxygen and sulfur heterocycles. *Bio.Med. Chem. Lett.*, **2009**, 19, 2981–2985.
28. Geetharani, K., Bose, S. K., Pramanik, G., Saha, T. K., Ramkumar, V., Ghosh, Sundargopal An Efficient Route to Group 6 and 8 Metallaborane Compounds: Synthesis of arachno- [$Cp^*\text{Fe}(\text{CO})B_3\text{H}_8$] and closo- [$(Cp^*\text{M})_2B_5\text{H}_9$] (M = Mo, W), *Euro. J. Inorg. Chem.*, **2009**, 11, 1483-1487.
29. Dhayal, R. S., Chakrahari, K. K. V., Ramkumar, V., Ghosh, Sundargopal, β -Alkylation and Arylation of $(\text{e}5\text{-}C_5\text{Me}_5\text{Mo})_2B_5\text{H}_9$: Synthesis and Characterization of Isomeric $(\text{e}5\text{-}C_5\text{Me}_5\text{Mo})_2B_5\text{H}_9\text{-nRn}$ (When R = n-Bu, n = 2, 1; R = Ph, n = 2, 1), *J. Cluster Sci.*, **2009**, 20, 565 –572.

30. Sahoo, S., Reddy. K. H. K., Dhayal, R. S., Mobin, S. K., Ramkumar, V., Jemmis, E. D., Ghosh, Sundargopal, Chlorinated Hypoelectronic Dimetallaborane Clusters: Synthesis, Characterization and Electronic Structures of $(5\text{-C}_5\text{Me}_5\text{W})_2\text{B}_5\text{H}_n\text{Cl}_m$ ($n = 7, m = 2$ and $n = 8, m = 1$), *Inorg. Chem.*, **2009**, 48, 6509–6516.
31. Ravikumar R. Gowda, Debashis Chakraborty, Venkatachalam Ramkumar, New Aryloxy and Benzyloxy Derivatives of Titanium as Catalysts for Bulk Ring-Opening Polymerization of ϵ -Caprolactone and δ -Valerolactone, *Euro. J. Inorg. Chem.*, **2009**, 20, 2981-2993.
32. P. Parthiban, V. Ramkumar and Y. T. Jeong, 2,4-Bis(2-fluorophenyl)-3-azabicyclo [3.3.1]nonan-9-one. *Acta Cryst.*, **2009**, E65, o1596.
33. P. Parthiban, V. Ramkumar and Y. T. Jeong ,1-Methyl-2,4-Bis(2-methoxyphenyl)-3-azabicyclo [3.3.1]nonan-9-one. *Acta Cryst.*, **2009**, E65, o3103.
34. Augustine A.P.T., Charles C. Kanakam., Scholastica Mary vithiy and V. Ramkumar, A facile entry into a novel class of dispiroheterocyclic framework through 1, 3-dipolar cycloaddition of azomethine ylides with 3-arylidene-4-chromanones as dipolarophiles. *Tetrahedron Letters*, **2009**, 50, 5906-5909.
35. Thakur, A., Chakraborty, A., Ramkumar, V., Ghosh, Sundargopal, A new synthetic route to Lindqvist type clusters $[(n\text{-Bu}_4\text{N})x][\text{M}'\text{M}5\text{O}_19]$ [when $x = 2$, $\text{M}' = \text{M} = \text{Mo}$ or W ; $x = 3$, $\text{M}' = \text{Mo}$, $\text{M} = \text{W}$] from metal carbonyl precursors $[(\text{CO})_5\text{ML}]$ [$\text{M} = \text{Mo}$, W ; $\text{L} = \text{CO}$, $\text{C}(\text{OMe})(\text{Me})$], *Dalton Trans.*, **2009**, 36, 7552-7558.
36. Pushparathinam Gopinath , Surapaneni Nilaya , Tripathy Ranjan Debi , Venkatachalam Ramkumar and Kannoth Manheri Muraleedharan, As many as six tandem reactions in one step! Unprecedented formation of highly functionalized benzothiophenes, *Chem. Commun.*, **2009**, 46, 7131-7133.
37. Paramasivam Parthiban, Gopalakrishnan Aridoss, Paramasivam Rathika, Venkatachalam Ramkumar, Senthamarai Kannan Kabilan, Synthesis, stereochemistry and antimicrobial studies of novel oxime ethers of aza/diazabicycles, *Bio. Med. Chem. Lett.*, **2009**, 19, 6981-6985.
38. Bose, S.K., Geetharani, K, Ramkumar.V., Mobin, S.K, Ghosh, Sundargopal, Fine-Tunning of Metalloborane Geometries: Chemistry of Metallaboranes of Early Transition Metals derived from Metal halides and Monoborane reagents, *Chem. Eur. J.*, **2009**, 15, 13483-13490.
39. Paramasivam Parthiban, Paramasivam Rathika, Venkatachalam Ramkumar, Se Mo Son, Yen Tae Jeong, Stereospecific synthesis of oximes and oxime ethers of 3-azabicycles:A SAR study towards antimicrobial agents, *Bio. Med. Chem. Lett.*, **2010**, 20, 1642-1647.
40. P. Parthiban, V. Ramkumar and Y. T. Jeong, 2,4-Bis(3-methoxyphenyl)-3-azabicyclo [3.3.1]nonan-9-one. *Acta Cryst.*, **2010**, E66, o48-o49.
41. P. Parthiban, V. Ramkumar and Y. T. Jeong , 2,4-Bis(4-chlorophenyl)-1-methyl-3-aza bicyclo [3.3.1]nonan-9-one, *Acta Cryst.*, **2010**, E66, o545.
42. P. Parthiban, V. Ramkumar and Y. T. Jeong , 2,4-Bis(2-fluorophenyl)-1-methyl-3-aza bicyclo [3.3.1]nonan-9-one, *Acta Cryst.*, **2010**, E66, o194-o195.

43. Bose, S.K., Geetharani. K, Ramkumar.V., Varghese. B., Ghosh, Sundargopal, Chemistry of Vanadaboranes: Synthesis, Structures and Chararterization of Organ vanadium Sulfide Clusters with Disulfido linkage, *Inorg. Chem.*, **2010**, 49, 2881-2888.
44. Rajeswari, S., Venkatesa Prabhu, G., Tamilvendan, D., V. Ramkumar, Spectroscopic studies and crystal structure of 1-(morpholino (phenyl) methyl) pyrrolidine-2,5-dione. *J. Chem. Cryst.*, **2010**, 40, 437- 442.
45. Balamurugan, D., Ramkumar, V., Muraleedharan, K.M., Trans – β 2,3-amino acid-based supramolecular synthons for probing the interrelationships between structures, torsion-directed assembly and isomorphism, *Cryst. Growth and Design*, **2010**, 10, 2460-2464.
46. Saha, T.K., Rajashekhar, B., Gowda, R.R., Ramkumar, V., Chakraborty, D., Bis (imino) phenoxide complexes of zirconium: Synthesis, structural characterization and solvent - free ring-opening polymerization of cyclic esters and lactides, *Dalton Transactions*, **2010**, 39, 5091-5093.
47. Malik, P., Chakraborty, D., Ramkumar, V., New Phosphoroamidate compounds: Synthesis, structural characterization and studies of $ZnCl_2$ assisted hydrolysis of the P-N bond. *Polyhedron*, **2010**, 29, 2142-2148.
48. Paul, S. S. Punnoose, N. L. Mary, T. Narasimhaswamy and V. Ramkumar, (N1E,N2E)-N1,N2-Bis(4-hexyloxy-3-methoxybenzylidene)ethane-1,2-diamine, *Acta Cryst.*, **2010**, E66, o1377.
49. N. Haridharan, V. Ramkumar and R. Dhamodharan, 2-Oxo-4-trifluoromethyl-2H-chromen-7-yl 2-bromo-2-methylpropanoate. *Acta Cryst.*, **2010**, E66, o1606.
50. R. R. Gowda, V. Ramkumar and D. Chakraborty, Triethylammonium 1,1'-binaphthyl-2,2'-diyl phosphate, *Acta Cryst.*, **2010**, E66, o1625.
51. M. Kannan, V. Ramkumar and R. Dhamodharan, 2,4,6-Trimethyl-3,5-bis [(phenyl carbonothioyl) sulfanylmethyl] benzyl benzenecarbodithioate, *Acta Cryst.*, **2010**, E66, o1382.
52. Niladri B. Debata, Debakanta Tripathy, V. Ramkumar, Dillip Kumar Chand, Coordination driven self-assembly in a single pot, *Tetrahedron Letters*, **2010**, 51, (33), 4449-4451.
53. Ravikumar R. Gowda, Debashis Chakraborty, Venkatachalam Ramkumar, Aryloxy and benzyloxy compounds of hafnium: Synthesis, structural characterization and studies on solvent-free ring-opening polymerization of e-caprolactone and d-valerolactone, *Polymer*, **2010**, 51, 4750-4759.
54. Paramasivam Parthiban, SenthamaraiKannan Kabilan, Venkatachalam Ramkumar, Yeon Tae Jeong, Stereocontrolled facile synthesis and antimicrobial activity of oximes and oxime ethers of diversely substituted bispidines, *Bio. Med. Chem. Lett.*, **2010**, 20, 6452-6458.
55. Neelamegan Haridharan, Venkatachalam Ramkumar, Raghavachari Dhamodharan, Exploration of Novel Pyrene Labeled Amphiphilic Block Copolymers: Synthesis Via ATRP, Characterization and Properties, *J. Macro. Sci., Part A*, **2010**, 47, 918 - 926.

56. N. Haridharan, V. Ramkumar and R. Dhamodharan, 2-Bromo-2-methyl-N-(4-methyl-2-oxo-2H-chromen-7-yl)propanamide, *Acta Cryst.*, **2010**, E66, o2007.
57. T.Augustine, Scholastica Mary Vithiya, S. Ignacimuthu and V. Ramkumar, 3-Benzoyl-1-methyl-4-phenylspiro-[acenaphthylene-1(2H),2-pyrrolidin]-2-one, *Acta Cryst.*, **2010**, E66, o3002.
58. P. Parthiban, V. Ramkumar and Y. T. Jeong, 2,4-Bis(2-methylphenyl)-3-azabicyclo[3.3.1]nonan-9-one O-methyloxime. *Acta Cryst.*, **2010**, E66, o2978.
59. Kasipandi Vellaisamy, John Victor Napoleon, Ramkumar Venkatachalam and Muraleedharan Kannoth Manheri, Multi-chelation approach towards natural product-like skeletons: one-pot access to a nitrogen-containing tetracyclic framework from AlaAla dipeptide, *Chem. Commun.*, **2010**, 46, 9212-9214 .
60. Ravikumar R Gowda, Venkatachalam Ramkumar and Debashis Chakraborty, p-Tolylmethanaminium cyclohexane-1,2-diyl phosphate, *Acta Cryst.*, **2010**, E66(12), o3049.
61. Vaibhav Aggarwal, V. Ram Kumar and Udai P. Singh, Synthesis and Molecular Structure of Sulfur Containing Cobalt Compounds, *J. Chem. Cryst.*, **2011**, 41, 121-126.
62. Ravikumar R. Gowda, Debashis Chakraborty, Venkatachalam Ramkumar, Aryloxy and benzyloxy compounds of zirconium: synthesis, structural characterization and studies on solvent-free ring opening polymerization of e-caprolactone and d-valerolactone, *J. Organomet. Chem.*, **2011**, 696, 572-580.
63. P. Parthiban, V. Ramkumar, Dong Ho Park and Y. T. Jeong, 2,4-Bis(2-ethoxyphenyl)-7-methyl-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2011**, E67(6), o1475-o1476.
64. Ravikumar R. Gowda, Debashis Chakraborty, Venkatachalam Ramkumar, Phosphoroamidate compounds of 1,1'-Bi-2-naphthol: Synthesis, structural characterization and solvent-free ring-opening polymerization of e-caprolactone and L-lactide, *Inorg. Chim. Acta.*, **2011**, 372, 88-93.
65. Niladri B. Debata, V. Ramkumar and Dillip Kumar Chand, A model study of alternative approach toward a class of palladium(II) based self-assembly, *Inorg. Chim. Acta*, **2011**, 372, 71-78.
66. P. Parthiban, V. Ramkumar and Y. T. Jeong, 2,4-Bis(4-propoxyphenyl) -3-azabicyclo[3.3.1] nonan-9-one, *Acta Cryst.*, **2011**, E67(4), o790.
67. Tanmoy kumar saha, Venkatachalam Ramkumar and Debashis Chakraborty, Salen Complexes of Zirconium and Hafnium: Synthesis, Structural Characterization, Controlled Hydrolysis, and Solvent-Free Ring-Opening Polymerization of Cyclic Esters and Lactides, *Inorg. Chem.*, **2011**, 50, 2720-2722.
68. P. Parthiban, V. Ramkumar and Y. T. Jeong, 2,4-Bis (4-butoxyphenyl) -3-azabicyclo[3.3.1] nonan-9-one, *Acta Cryst.*, **2011**, E67(3), o635.
69. Rajendran Saravanakumar, Venkatachalam Ramkumar and Sethuraman Sankararaman, Synthesis and Structure of 1,4-Diphenyl-3-methyl-1,2,3-triazol-5-ylidene Palladium Complexes and Application in Catalytic Hydroarylation of Alkynes, *Organometallics*, **2011**, 30, 1689-1694.

70. N.Haridharan, V. Ramkumar and R. Dhamodharan, 3-(9H-Carbazol-9-yl)propan-1-ol, *Acta Cryst.*, **2011**, E67(1), o180.
71. Rajan Deepan Chakravarthy, Kotapati Suresh, Venkatachalam Ramkumar and Dillip Kumar Chand, New Chiral Molybdenum Complex Catalyzed Sulfide Oxidation with Hydrogen Peroxide, *Inorganica Chimica Acta*, **2011**, 376, 57-63.
72. Rajendra Singh Dhayal, V. Ramkumar, Sundargopal Ghosh, Synthesis, Structure and Characterization of Dimolybdaheteroboranes, *Polyhedron*, **2011**, 30 (12), 2062-2066.
73. Ravikumar R. Gowda, Debashis Chakraborty, Venkatachalam Ramkumar, Controlled Hydrolysis of $[\text{Ti}(\text{O}-2,4,6-\text{Br}_3\text{C}_6\text{H}_2)_2(\text{O}-\text{iPr})_2]$: synthesis, structural characterization and studies on bulk polymerization of cyclic esters and lactide, *Inorg. Chem. Commun.*, **2011**, 14, 1777-1782.
74. Ravikumar R Gowda, Venkatachalam Ramkumar and Debasish Chakraborty, 1,1'-binaphthyl-2,2'-diyl benzylphosphoramidate, *Acta Cryst.*, **2011**, E67(12), o3310.
75. D. H. Park, V. Ramkumar and P. Parthiban, 2,4-Bis (4-ethoxyphenyl) -1- methyl -3-azabicyclo [3.3.1]nonan-9-one, *Acta Cryst.*, **2011**, E68, o2999.
76. D. H. Park, V. Ramkumar and P. Parthiban, 2,4-Bis(4-ethoxyphenyl)-3-azabicyclo [3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E68, o2841.
77. D. H. Park, V. Ramkumar and P. Parthiban, 2,4-Bis(2-bromophenyl)-7-tert-pentyl-3-azabicyclo [3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E68, o2946.
78. D. H. Park, V. Ramkumar and P. Parthiban, 2,4,6,8-Tetrakis(4-chlorophenyl)-3,7-diazabicyclo [3.3.1]nonan-9-one O-benzyloxime acetone monosolvate, *Acta Cryst.*, **2012**, E68, o1481.
79. D. H. Park, V. Ramkumar and P. Parthiban, 2,4-Bis(4-ethoxyphenyl)-7-methyl-3-azabicyclo [3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E68, o779-o780.
80. N. Haridharan, V. Ramkumar and R. Dhamodharan, N,N'-(1,4-Phenylene)bis(2-bromo-2-methylpropanamide), *Acta Cryst.*, **2012**, E68, o811.
81. D. H. Park, V. Ramkumar and P. Parthiban, 2,6-Bis(4-chlorophenyl)-1,3-dimethylpiperidin-4-one O-benzyloxime, *Acta Cryst.*, **2012**, E68, o525.
82. D. H. Park, V. Ramkumar and P. Parthiban, 2,6-Bis(4-methoxyphenyl)-1,3-dimethylpiperidin-4-one O-benzyloxime, *Acta Cryst.*, **2012**, E68, o524.
83. Naranthatta, Mili C., Das, Deepika., Tripathy, Debakanta., Sahoo, Himansu S., Ramkumar, Venkatachalam., Chand, Dillip K., Consequence of Presence and Absence of $\tilde{\Lambda}$ -Clouds at Strategic Locations of Designed Binuclear Pd(II) Complexes on Packing: Self-Assembly of Self-Assembly by Intermolecular Locking and Packing, *Crystal Growth and Design*, **2012**, 12, 6012-6022.
84. Roy, Bose., Shubhankar Kumar, Anju, R. S., Ramkumar, V., Ghosh, Sundargopal., Synthesis and Structure of Dirhodium Analogue of Octaborane-12 and Decaborane-14, *Inorganic Chemistry*, **2012**, 51, 10715-10722.

85. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,4,6,8-Tetrakis(4-chlorophenyl)-3,7-diazabicyclo[3.3.1]nonan-9-one O-benzylloxime acetone monosolvate, *Acta Cryst.*, **2012**, E 68, o1481-o1481.
86. Chakraborti, Kiran Kumar Varma., Thakur, Arunabha., Mondal, Bijan., Dhayal, Rajendra Singh., Ramkumar, V., Ghosh, Sundargopal., A close-packed boron-rich 11-vertex molybdaborane with novel geometry, *J. Organomet. Chem.*, **2012**, 710, 75-79.
87. Haridharan, N., Ramkumar, V., Dhamodharan, R., N, N'-(1,4-Phenylene)bis(2-bromo-2-methylpropanamide), *Acta Cryst.*, **2012**, E 68, o811.
88. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,4-Bis(4-ethoxyphenyl)-7-methyl-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E 68 o779-o780.
89. Thakur, Arunabha., Sao, Soumik., Ramkumar,V., Ghosh, Sundargopal., Novel Class of Heterometallic Cubane and Boride Clusters Containing Heavier Group 16 Elements, *Inorganic Chemistry*, **2012**, 51, 8322-8330.
90. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,4-Bis(2-ethoxyphenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E 68, o3282.
91. Geetharani, K., Ramkumar, V., Ghosh, Sundargopal., Synthesis and Characterization of Novel Ruthenaferracarbonanes from Photoinsertion of Alkynes into a Ruthenaferraborane, *Organometallics*, **2012**, 31, 6381-6387.
92. A. Doddi, J. V. Kingston, V. Ramkumar, M. Suzuki, M. Hojo, M. N. S. Rao, Synthesis and Characterization of Dianionic Hexacoordinate Silicon (IV) Complexes of Substituted Catechols, Flavones, and Fluorone: X-Ray Crystal Structures of $[(n\text{-C}_3\text{H}_7)_2\text{NH}_2]_2$ $[(\text{Cl}_4\text{C}_6\text{O}_2)_3\text{Si}]_3$ CH₃CN and $[(n\text{-C}_3\text{H}_7)_2\text{NH}_2]_2$ $[(\text{Br}_4\text{C}_6\text{O}_2)_3\text{Si}]_2$ (CH₃)₂SO, *Phosphorus, Sulfur, and Silicon and the Related Elements*, **2012**, 187 (3), 343-356.
93. Thakur, Arunabha., Sao, Soumik., Ramkumar, V., Ghosh, Sundargopal., Novel Class of Heterometallic Cubane and Boride Clusters Containing Heavier Group 16 Elements, *Inorganic Chemistry*, **2012**, 51, 8322-8330.
94. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,4-Bis(4-ethoxyphenyl)-1-methyl-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E 68, o2999.
95. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,4-Bis(4-ethoxyphenyl)-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E 68, o2841.
96. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,4-Bis(2-bromophenyl)-7-tert-pentyl-3-azabicyclo[3.3.1]nonan-9-one, *Acta Cryst.*, **2012**, E 68, o2946.
97. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,6-Bis(4-chlorophenyl)-1,3-dimethylpiperidin-4-one O-benzylloxime, *Acta Cryst.*, **2012**, E 68, o525.
98. Park, Dong Ho., Ramkumar, V., Parthiban, P., 2,6-Bis(4-methoxyphenyl)-1,3-dimethylpiperidin-4-one O-benzylloxime, *Acta Cryst.*, **2012**, E 68, o524.
99. D. Tripathy, V. Ramkumar, D. K. Chand, Toppled Molecular Domino Sets by Self-Assembly of Self-assembly: The p-Polymers, *Crystal Growth and Design*, **2013**, 13(8), 3763-3772.

100. K. K. Chakraborti, A. Thakur, B. Mondal, V. Ramkumar, S. Ghosh , Hypoelectronic Dimetallaheteroboranes of Group 6 Transition Metals Containing Heavier Chalcogen Elements, *Inorganic Chemistry*, **2013**, 52, 7923-7932.
101. N. Haridharan, V. Ramkumar, 1, 3-Bis (2-methylprop-2-enoyl)-1H-benzimidazol-2 (3H)-one, *Acta Cryst.*, **2013**, E 69 (6), o818.
102. K. Yuvaraj, D. K. Roy, K. Geetharani, B. Mondal, V. P. Anju, P. Shankhari, V. Ramkumar, S. Ghosh., Chemistry of Homo-and Heterometallic Bridged-Borylene Complexes. *Organometallics*, **2013**, 32 (9), 2705-2712.
103. J. B. Shaik, V. Ramkumar, B. Varghese, S. Sankararaman, Synthesis and structure of trans-bis (1, 4-dimesityl-3-methyl-1, 2, 3-triazol-5-ylidene) palladium (II) dichloride and diacetate. Suzuki–Miyaura coupling of polybromoarenes with high catalytic turnover efficiencies, *Beilstein journal of organic chemistry*, **2013**, 9, 698-704.
104. R. Saravanakumar, V. Ramkumar, S. Sankararaman, Synthesis and Structural Characterization of *cis* Isomer of 1, 2, 3-Triazol-5-ylidene based Palladium Complexes, *J. Organomet. Chem.*, **2013**, 736, 36-41.
105. Roy, Dipak Kumar., Bose, Shubhankar Kumar., Anju, R. S., Mondal, Bijan., Ramkumar, V., Ghosh, Sundargopal., Boron Beyond the Icosahedral Barrier: A 16-Vertex Metallaborane, *Angewandte Chemie International Edition*, **2013**, 52, 3222-3226.
106. D. H. Park, V. Ramkumar, P. Parthiban (1E, 4E)-1, 5-Bis [2-(trifluoromethyl) phenyl] penta-1, 4-dien-3-one, *Acta Cryst.*, **201**, E 69 (2), o177.
107. D. H. Park, V. Ramkumar, P. Parthiban, 2, 4, 6, 8-Tetrakis (2-fluorophenyl)-3, 7-diazabicyclo [3.3. 1] nonan-9-one, *Acta Cryst.*, **2013**, E 69 (2), o179 .
108. T. K. Saha, M. Mandal, D. Chakraborty, V. Ramkumar, Imino phenoxide complexes of group 4 metals: synthesis, structural characterization and polymerization studies, *New Journal of Chemistry*, **2013**, 37, 949-960.
109. Saha, Tanmoy Kumar., Mandal, Mrinmay., Thunga, Madhubabu., Chakraborty, Debashis., Ramkumar, Venkatachalam., Imino phenoxide complexes of niobium and tantalum as catalysts for the polymerization of lactides, α -caprolactone and ethylene, *Dalton Transactions*, **2013**, 42, 10304-10314.
110. R. Ganesamoorthi, A. Thakur, D. Sharmila, V. Ramkumar, S. Ghosh , Synthesis and characterization of N-phenyl pyrrole anchored to Fischer carbene complex through ring closing metathesis oxidative aromatization and various aryl substituted Fischer carbene complexes, *J. Organomet. Chem.*, **2013**, 726, 56-61.
111. R. S. Anju, D. K. Roy, B. Mondal, V. Ramkumar, S. Ghosh, An Early-Late Transition Metal Hybrid Analog of Hexaborane(12): *Organometallics.*, **2013**, 32, 4618-4623.
112. K. Yuvaraj, D. K. Roy, K. Geetharani, B. Mondal, V. P. Anju, P. Shankhari, V. Ramkumar, S. Ghosh, Chemistry of Homo and Heterometallic Bridged-Borylene Complexes: *Organometallics.*, **2013**, 32, 2705-2712.
113. K. K. V. Chakraborti, A. Thakur, B. Mondal, V. Ramkumar, S. Ghosh , Hypoelectronic Dimetallaheteroboranes of Group 6 Transition Metals Containing Heavier Chalcogen Elements:, *Inorg. Chem.*, **2013**, 52, 7923-7932.

114. S. H. A. Lakshmi, M. Kandaswamy and V. Ramkumar, 2,2'-{[(1E,1'E)-(Cyclohexane-1,4-diyl)bis(azanylylidene)]bis(ethan-1-yl-1-ylidene)}diphenol, *Acta Cryst.*, **2013**, E69, o1593.
115. M. G. Meera, P. K. Selvaraj, B. Viswanathan and V. Ramkumar,[mu]-(2,6-Bis{[3-(dimethylamino)propyl]iminomethyl}-4-methylphenolato)-[mu]-hydroxido-bis[(thiocyanato-[kappa]N)copper(II)], *Acta Cryst.*, **2013**, E69, m542-543.
116. V. Karthikeyan, V. Ramkumar and R. J. Karunakaran , Ethyl 2-amino-4-(4-methyl-1,3-thiazol-5-yl)-5-oxo-4H,5H-pyrano[3,2-c]chromene-3-carboxylate, *Acta Cryst.*, **2013**, E69, o1411-o1412.
117. K. Senthil, S. Kalainathan, A. RubanKumar, V. Ramkumar, J Podder, 2-[(E)-2-(4-Methoxyphenyl) ethenyl]-1-methylpyridinium iodide, *Acta Cryst.*, **2013**, E 69, o1848-o1848.
118. R. Saravanakumar, V. Ramkumar, S. Sankararaman, Synthesis and structural characterization of *cis* isomer of 1, 2, 3-triazol-5-ylidene based palladium complexes, *J. Organomet. Chem.*, **2013**, 736, 36-41.
119. S. Pappuru, E. R. Chokkapu, D. Chakraborty, V. Ramkumar, Group IV complexes containing the benzotriazole phenoxide ligand as catalysts for the ring-opening polymerization of lactides, epoxides and as precatalysts for the polymerization of ethylene, *Dalton Transactions*, **2013**, 42, 16412-16427.
120. P. Niranjana, A. Pati, S. K. Porwal, V. Ramkumar, S.J. Gharpure, D.K. Chand, Coordination polymers via self-assemby of silver (i) and *cis*-bis-nitrile-oxa-bowl derivatives, *CrystEngComm*, **2013**, 15, 9623-9633.
121. M. Mathisvelvam, V. Ramkumar, D. Loganathan, S. Pérez, Effect of distal sugars and interglycosidic linkage on the N-glycoprotein linkage region conformation: synthesis and X-Ray crystallographic investigation of β -1-N-alkanamide derivatives of cellobiose and maltose as disaccharide analogs of the conserved chitobiosylasparagine linkage, *Glycoconjugate journal*, **2014**, 31, 71-87.
122. R. Deepan Chakravarthy, V. Ramkumar and D. Kumar Chand, A molybdenum based metallomicellar catalyst for controlled and selective sulfoxidation reactions in aqueous medium, *Green Chemistry*, **2014**, 16, 2190-2196.
123. D. Tripathy, H. S. Sahoo, V. Ramkumar, D. K. Chand , Palladium (ii) induced complete conformational enrichment of the syn isomer of N, N'-bis (4-pyridylformyl) piperazine, *RSC Advances*, **2014**, 4, 18595-18599.
124. R. Ramachandran, G. Prakash, S. Selvamurugan, P. Viswanathamurthi, Jan Grzegorz Malecki and V. Ramkumar, Efficient and versatile catalysis of N-alkylation of heterocyclic amines with alcohols and one-pot synthesis of 2-aryl substituted benzazoles with newly designed ruthenium (ii) complexes of PNS thiosemicarbazones, *Dalton Transactions*, **2014**, 43, 7889-7902.
125. L. Sahoo, A. Singhamahapatra, V. Ramkumar, D. Loganathan, Regioselective opening of unsymmetrical cyclic anhydrides: synthesis of N-glycosylated isoasparagine and isoglutamine conjugates, *RSC Advances*, **2014**, 4, 22042-22047.

126. B. Sureshbabu, V. Ramkumar, S. Sankararaman, Substituent effect on the formation of helical to layered hydrogen bond networks in hydroxyl and carboxyl substituted 1-aryl-1 H-1, 2, 3-triazoles, *CrystEngComm.*, **2014**, 16, 6098-6106.
127. A. Pati, J. Athilakshmi, V. Ramkumar, D. K. Chand, Two dimensional polydodecameric water-chloride cluster enfolding (Hg-Cl-Hg)⁺ concealed cascade cryptate, *CrystEngComm.*, **2014**, 16, 6827-6830. (2014).
128. B. Sureshbabu, V. Ramkumar, S. Sankararaman, Facile base-free in situ generation and palladation of mesoionic and normal N-heterocyclic carbenes at ambient conditions, *Dalton Trans.*, **2014**, 43, 10710-10712.
129. S. Bandi, N. B. Debata, V. Ramkumar, D. K. Chand, One-pot synthesis of self-assembled heteroleptic palladium (II) complexes with tmeda: An application of ligand exchange reactions, *Inorganic Chemistry Communications*, **2014**, 39, 75-78.
130. V. P. Anju, S. K. Barik, B. Mondal, V. Ramkumar, S. Ghosh, Metallaboranes from Metal Carbonyl Compounds and Their Utilization as Catalysts for Alkyne Cyclotrimerization, *ChemPlusChem*, **2014**, 79, 546-551.
131. V. Karthikeyan, V. Ramkumar, R. J. Karunakaran, 1'-Allyl-1-(3, 4-dimethylbenzoyl)-2-(4-methyl-1, 3-thiazol-5-yl)-1, 2, 5, 6, 7, 7a-hexahydrospiro [pyrrolizine-3, 3'-indolin]-2'-one, *Acta Cryst*, **2014**, E70 (5), o541-o542.
132. Sandip Guchhait , Keshab Ghosh, B. Sureshbabu, V. Ramkumar, S. Sankararaman, C2-Symmetric normal and mesoionic bis-N-heterocyclic carbenes with biphenyl backbone. A comparison of bis (1, 2, 3-triazol-5-ylidene) and bis (imidazol-2-ylidene) ligands, *Journal of Organometallic Chemistry*, **2014**, 768, 68-74.
133. P. Bhyrappa, U. K. Sarangi, V. Velkannan, V. Ramkumar, β -Tetrasubstituted meso-Tetra (4'-n-butylphenyl) porphyrins and Their Metal Complexes: Synthesis and Structural Properties, *Euro J. Inorg. Chem.* **2014**, 33, 5760-5770.
134. D. H. Park, V. Ramkumar, P. Parthiban, Crystal structure of 2, 4-bis (2-chlorophenyl)-7-tert-pentyl-3-azabicyclo [3.3. 1] nonan-9-one , *Acta Cryst.*, **2014**, E 70, o1161-o1162.
135. A. Dasgupta, V. Ramkumar, S. Sankararaman, Catalytic asymmetric hydrogenation using a [2.2] paracyclophane based chiral 1, 2, 3-triazol-5- ylidene-Pd complex under ambient conditions and 1 atmosphere of , *RSC Advances*, **2015**, 5, 21558-21561.
136. M. Mandal, D. Chakraborty, V. Ramkumar, Zr (iv) complexes containing salan-type ligands: synthesis, structural characterization and role as catalysts towards the polymerization of e-caprolactone, rac-lactide, *RSC Advances*, **2015**, 5, 28536-28553.
137. S. K. Roymuhury, D. Chakraborty, V. Ramkumar, Zwitterionic group 4 aminophenolate catalysts for the polymerization of lactides and ethylene, *New Journal of Chemistry*, **2015**, 39, 5218-5230.
138. S. K. Roymuhury, D. Chakraborty, V. Ramkumar, Synthesis and characterization of group 4 metal alkoxide complexes containing imine based bis- bidentate ligands: effective catalysts for the ring opening polymerization, *Dalton Transactions*, **2014**, 44, 10352-10367.

139. B. Rajashekhar, S. K. Roymuhury, D. Chakraborty, V. Ramkumar, Group 4 metal complexes of Trost's semi-crown ligand: synthesis, structural characterization and studies on the ring-opening polymerization of lactides and e-caprola, *Dalton Transactions*, **2014**, 44, 16280-16293.
140. D. Chakraborty, D. Mandal, V. Ramkumar, V. Subramanian, J. V. Sundar, A new class of MPV type reduction in group 4 alkoxide complexes of salicylaldiminato ligands: Efficient catalysts for the ROP of lactides, epoxides and polymerization, *Polymer*, **2015**, 56, 157-170.
141. R. Vaidyanathaswamy, G. A. Raman, V. Ramkumar, R. Anand, Nucleophilic difluoro alkylation of benzophenones, benzaldehydes and Schiff's bases by tetrafluoroethyl ether and difluoroacetamide, *Journal of Fluorine Chemistry*, **2015**, 169, 38-49.
142. M. C. Naranthatta, V. Ramkumar, D. K. Chand, Role of peripheral phenanthroline groups in the self-assembly of self-assembled molecular triangles, *Journal of Chemical Sciences*, **2015**, 127 , 273-280.
143. S. Ghosh, D. Chakraborty, V. Ramkumar, Imino (phenoxide) compounds of magnesium: Synthesis, structural characterization, and polymerization studies, *Journal of Polymer Science Part A: Polymer Chemistry*, **2015**, 53, 1474-1491.
144. H. Behera, V. Ramkumar, N. Madhavan, Cation-Transporting Peptides: Scaffolds for Functionalized Pores? *Chemistry-A European Journal*, **2015**, 21, 10179-10184.
145. S. K. Roymuhury, D. Chakraborty, V. Ramkumar, Aluminium complexes bearing N, O-aminophenol ligands as efficient catalysts for the ring opening polymerization of lactide, *European Polymer Journal*, **2015**, 70, 203-214.
146. D. K. Roy, R. Borthakur, S. Bhattacharyya, V. Ramkumar, S. Ghosh, Borate-based ligands with soft heterocycles and their ruthenium complexes, *J. Organomet. Chem.*, **2015**, 799, 132-137.
147. A. Mohan, V. Ramkumar, S. Sankararaman, Synthesis and structures of (-) menthyl and (+) neomenthyl substituted enantio pure bis (1, 2, 3-triazol-5-ylidene) PdI₂ complexes and PEPPSI type (1, 2, 3-triazol- ylidene) (pyridine)PdI₂complexes. Comparison of catalytic activities for C-C coupling), *Journal of Organometallic Chemistry*, **2015**, 799, 115-121.
148. B. Sureshbabu, V. Ramkumar, S. Sankararaman, A mild and efficient method for the synthesis of structurally diverse 1, 2, 3-triazolylidene palladium (II) diiodo complexes. Comparison of catalytic activities for Suzuki–Miyaura coupling, *Journal of Organometallic Chemistry*, **2015**, 799, 232-238.
149. S. K. Roymuhury, D. Chakraborty, V. Ramkumar, Zwitterionic niobium and tantalum complexes with bidentate aminophenol scaffolds: synthesis, structural characterization and use in the ring opening polymerization, *RSC Advances*, **2016**, 6 (54), 48816-48826.
150. K. Yuvaraj, M. Bhattacharyya, R. Prakash, V. Ramkumar, S. Ghosh, New Trinuclear Complexes of Group 6, 8, and 9 Metals with a Triply Bridging Borylene Ligand, *Chemistry-A European Journal*, **2016**, 22 , 8889-8896.

151. A. Chandrasekhar, V. Ramkumar, S. Sankararaman, Highly Selective and Modular Synthesis of 3-Aryl-4-(arylethynyl)-2H-chromen-2-ones from 2-Iodoaryl 2-Arylacetates through a carbonylative Sonogashira Coupling, *European Journal of Organic Chemistry*, **2016**, 23, 4041-4049.
152. A. Dasgupta, V. Ramkumar, S. Sankararaman, Synthesis of Fluorescent 1, 3-Diaryl propynones by Carbonylative Alkylation Reaction Using (Phosphine)(1, 2, 3-triazol-5-ylidene) palladium Complexes as Catalyst, *European Journal of Organic Chemistry*, **2016**, 28, 4817-4823.
153. D. Chakraborty, E. R. Chokkapu, M. Mandal, R. R. Gowda, V. Ramkumar, Zwitterionic Complexes of Group 4 Metal Chlorides Containing a Bis (imino) phenoxide Scaffold: Synthesis, Characterization and Polymerization Studies, *Chemistry Select*, **2016**, 1, 5218-5229.
154. S. Pappuru, D. Chakraborty, J. V. Sundar, S. K. Roymuhury, V. Ramkumar, Group 4 complexes of salicylbenzoxazole ligands as effective catalysts for the ring-opening polymerization of lactides, epoxides and copolymerization of e-caprolact, *Polymer*, **2016**, 102, 231-247.
155. A. Sheelam, S. Mandal, T. Thippani, V. Ramkumar, K. Ramanujam, Carbon-supported Co (III) dimer for oxygen reduction reaction in alkaline medium, *Ionics*, **2016**, 22, 2183-2194.
156. S. Pappuru, D. Chakraborty, V. Ramkumar, Nb and Ta benzotriazole or benzoxazole phenoxide complexes as catalysts for the ring-opening polymerization of glycidol to synthesize hyperbranched polyglycerols, *Dalton Transactions*, **2017**, 46, 16640-16654.
157. S. V. Raghava, P. Gopinath, B. K. Srivastava, V. Ramkumar, Sulfamide-Lattice Restructuring To Form Dimensionally Controlled Molecular Arrays and Gel-Forming Systems, *Chemistry-A European Journal*, **2017**, 23, 3658-3665.
158. E. Varadharajan, V. Ramkumar, M. V. B. Scholastica, A. P. T. Augustine, 3-Benzylidene -1'-methyl-4'-phenyldispiro [cyclopentane-1, 3'-pyrrolidine-2', 1"-acenaphthene]-2, 2"-dione, *IUCrData*, **2017**, 2 (4), x170581.
159. D. Sasi, V. Ramkumar, N. N. Murthy, Bite-Angle-Regulated Coordination Geometries: Tetrahedral and Trigonal Bipyramidal in Ni (II) with Biphenyl-Appended (2-Pyridyl) alkylamine N, N'-Bidentate Ligand, *ACS Omega*, **2017**, 2 (6), 2474-2481.
160. H. Behera, V. Ramkumar, N. Madhavan, Triamide macrocyclic chloride receptors via a one-pot tandem reduction–condensation–cyclization reaction, *Organic and biomolecular chemistry*, **2017**, 15, 4937-4940.
161. S. Pappuru, D. Chakraborty, V. Ramkumar, D. K. Chand, Ring-opening co polymerization of maleic anhydride or L-Lactide with tert-butyl glycidyl ether by using efficient Ti and Zr benzoxazole-substituted 8-Hydroxyquinolina , *Polymer*, **2017**, 123, 267-281.
162. K. V. Ramanaiah, V. Ramkumar, N. N. Murthy, High-spin iron (II) complexes of halides and pseudo-halides with biphenyl-appended N, N'-bidentate ligand: X-ray structural and spectroscopic studies, *Inorganica Chimica Acta*, **2017**, 466, 197-204.

163. I. Das, B. kumar Chennuri, V. Ramkumar, R L. Gardas , Understanding the solvation behavior of tetramethylguanidinium based ionic liquids in dilute aqueous solutions through apparent molar properties, *Journal of Molecular Liquids*, **2017**, 242, 129-136.
164. B. Rajashekhar, M. Mandal, D. Chakraborty, V. Ramkumar, Homoleptic Zr and Hf Complexes of Imino/Bis (imino) phenoxide Scaffolds: Synthesis, structural characterization and their catalytic activity in the ROP of cyclic ester, *Chemistry Select*, **2017**, 2, 8408-8417.
165. M. G. Chowdhury, S. K. Barik, K. Saha, B. Kirubakaran, Abhishek Banerjee, Venkatachalam Ramkumar, Sundargopal Ghosh, Electron Precise Group 5 Dimetallahteroboranes, *Inorg. Chem.*, **2018**, 57, 985–994.
166. D. Chakraborty, B. Rajashekhar, M. Mandal, V. Ramkumar, Group 4 metal complexes containing the salalen ligands: Synthesis, structural characterization and studies on the ROP of cyclic esters, *J. Organomet. Chem.*, **2018**, 871, 111-121.
167. J. B. Shaik, V. Ramkumar, S. Sankararaman, Synthesis of a new class of cationic Pd (II) complexes with 1, 2, 3-triazol-5-ylidene ligand and their catalytic application in the conversion of internal alkynes to 1, 2-diketones. *J. Organomet. Chem.* **2018**, 860, 1-8.
168. Mayank G. Sharma, Ruturajsinh M. Vala, Divyang M. Patel, Irene Lagunes, Miguel X Fernandes, José M Padrón, Venkatachalam Ramkumar, Ramesh L Gardas, Hitendra M Patel, Anti-Proliferative 1, 4-Dihydropyridine and Pyridine Derivatives Synthesized through a Catalyst-Free, One-Pot Multi-Component Reaction, *Chemistry Select*, **2018**, 3, 12163-12168.
169. Attoor Chandrasekhar, Venkatachalam Ramkumar, Sethuraman Sankararaman, Palladium catalyzed carbonylative annulation of the C (sp²)–H bond of N, 1-diaryl-1 H-tetrazol-5-amines and N, 4-diaryl-4 H-triazol-3-amines to quinazolinones, *Organic and biomolecular chemistry*, **2018**, 18, 8629-8638.
170. Moulika Bhattacharyya, Kuppusamy Yuvaraj, Alokanda Chanda, Venkatachalam Ramkumar, Sundargopal Ghosh, Metal-Rich Metallaboranes: Structures and Geometries of Heterometallic μ₉-Boride Clusters, *Eur.J. Inorg.Chem.*, **2018**, 22, 2574-2583.
171. Mrinmay Mandal, V. Ramkumar, Debasish Chakraborty, Salen complexes of zirconium and hafnium: Synthesis, structural characterization and polymerization studies, *Polymer Chemistry*, **2019**.
172. Nisha Chetty, V. Ramkumar, Narasimha N Murthy, Bis-and mono-tridentate chelated iron complexes with a new facially capping unsymmetrical nitrogen ligand: X-ray structural and spectroscopic studies, *Polyhedron*, **2019**, 158, 241-247.
173. V. Ramkumar, Indrajit Das, Ramesh L Gardas, Structural Arrangement and Computational Exploration of Guanidinium Based Ionic Liquids with Benzoic Acid Derivatives as Anion, *Crystal Growth and Design*, **2019**, 19, 2642-2657.