

Complete list of publications

2020

1. Versatile Coordination Modes of 2,6-Bis(2-(diphenylphosphanyl)-1*H*-imidazol-1-yl)pyridine in Cu(I) and Au(I) Complexes, Saurabh Kumar, Joel T. Mague, and M. S. Balakrishna, *Eur J. Inorg. Chem.* 2020, 0000.
2. Triazole appended phosphines: Synthesis, palladium complexes and catalytic studies, Mini review (invited), D. Mondal and M. S. Balakrishna, *Eur. J. Inorg. Chem.* 2020, 2392-2402. (Cover page article)
3. Phospholes, Chapter 00, G. S. Ananthnag, M. S. Balakrishna, *Comprehensive Heterocyclic Chemistry IV*, Elsevier, 2020, in Press
4. Six-membered Rings with Two or More Heteroatoms with at least One Phosphorus Chapter 27, G. S. Ananthnag, M. S. Balakrishna, *Comprehensive Heterocyclic Chemistry IV*, Elsevier, 2020, in Press.
5. Rare Au...H Interactions in Gold(I) complexes of Bulky Phosphines Derived from 2,6-Dibenzhydryl-4-methylphenyl Core. M. K. Pandey, H. S. Kunchur, D. Mondal, L. Radhakrishna, Basvaraj S. Kote, M. S. Balakrishna, *Inorg. Chem.* 2020, 59, 3642-3658.
6. New 1,2,3-Triazole Based Bis- and Tris-Phosphine Ligands: Synthesis, Transition Metal Chemistry and Catalytic Studies, L. Radhakrishna, H. S. Kunchur, P. K. Namdeo, and M. S. Balakrishna, *Dalton Trans.* 2020, 49, 3434-3449 (Cover page article).

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7. Synthesis and tetra-pincer nickel(II) and palladium(II) complexes of resorcin[4]arene-octophosphinite [Res(OPR₂)₈] and rhodium-catalyzed regioselective hydroformylation reaction G. S. Ananthnag, D. Mondal, J. T. Mague, M. S. Balakrishna, *Dalton Trans.* 2019, 48, 14632-14641. DOI: 10.1039/c9dt02499a
8. Chloropalladated tetranuclear and copper(I) complexes of propargylamines [RC≡CCH₂NC₄H₈N-CH₂C≡CR], V. S. Kashid, B. S. Kote, M. S. Balakrishna, *J. Organomet. Chem.* 2019, 897, 2447-2453.
<https://doi.org/10.1016/j.jorganchem.2019.07.006>
9. Transition metal complexes of tetrakis(diphenylphosphino)ethylenediamine [(Ph₂P)₂NCH₂CH₂N(PPh₂)₂], V. S. Kashid, B. S. Kote, H. S. Kunchur, J. T. Mague, M. S. Balakrishna, *Polyhedron*, 2019, 172, 87-94.
<https://doi.org/10.1016/j.poly.2019.03.029>
10. Catechol and 1,2,4,5-tetrahydroxybenzene functionalized cyclodiphosphazane ligands: synthesis, structural studies, and transition metal complexes, M. K. Pandey, H. S. Kunchur, G. S. Ananthnag, J. T. Mague, M. S. Balakrishna, *Dalton Trans.* 2019, 48, 3610-3624. DOI: 10.1039/c8dt04819c
11. Synthesis and transition metal complexes of 1,1'-bis(diphenylethynylphosphino)ferrocene, P. S. Prasad and M. S. Balakrishna, *Polyhedron*, 2019, 158, 173-182.
12. Copper(I) chemistry of phosphines, bisphosphines, phospholes and phosphorus heterocycles, Ed. M. S. Balakrishna, Elsevier, 2019.
13. Copper(I) chemistry of cyclodiphosphazanes, M. S. Balakrishna, *Copper(I) chemistry of phosphines, bisphosphines, phospholes and phosphorus heterocycles*, Ed. M. S. Balakrishna, Ch 11 345-374, Elsevier, 2019.
14. Copper chemistry of aminobis(phosphines) and phosphines appended with nitrogen containing heterocycles, M. S. Balakrishna, *Copper(I) chemistry of cyclodiphosphazanes, Copper(I) chemistry of*

phosphines, bisphosphines, phospholes and phosphorus heterocycles, Ed. M. S. Balakrishna, Ch 12 375-406, Elsevier, 2019.

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15. Diverse Architectures and Luminescence Properties of Group 11 Complexes Containing Pyrimidine Based Phosphine, N-((Diphenylphosphine)methyl)-pyrimidin-2-amine, Saurabh Kumar, D. Mondal, **M. S. Balakrishna**, *ACS Omega*, 2018, 3, 16601-16614. DOI: [10.1021/acsomega.8b02484](https://doi.org/10.1021/acsomega.8b02484)
16. Synthesis of Indoles and Benzofurans using Graphene Oxide grafted Aminobisphosphine-Pd^{II} Complex, D Sengupta, L. Radhakrishna, **M. S. Balakrishna**, *ACS Omega*, 2018, 3, 15018-15023. DOI: [10.1021/acsomega.8b02120](https://doi.org/10.1021/acsomega.8b02120)
17. Switchable Coordination Modes of 1,2,3-Triazole Based Ambidentate Bisphosphine, L. Radhakrishna, M. K. Pandey, **M. S. Balakrishna**, *RSC Advances*. 2018, 8, 25704-25718. DOI: [10.1039/c8ra04086a](https://doi.org/10.1039/c8ra04086a)
18. Immobilization of Aminobisphosphine-Pd^{II} Complex, [PdCl₂{(Ph₂P)₂N(CH₂)₃Si(OMe)₃}] over Graphene Oxide: An Efficient and Reusable Catalyst for Suzuki-Miyaura Cross-Coupling Reaction, D. Sengupta, M. K. Pandey, D. Mondal, L. Radhakrishna, **M. S. Balakrishna**, *Eur.J. Inorg. Chem.* 2018, 3374-3383 (*cover page article*). DOI: [10.1002/ejic.201800291](https://doi.org/10.1002/ejic.201800291)
19. Sterically Demanding Phosphines with 2,6-Dibenzhydryl-4-methylphenyl Core: Synthesis of Ru^{II}, Pd^{II} and Pt^{II} Complexes, Structural and Catalytic Studies, M. K. Pandey, J. T. Mague, **M. S. Balakrishna**, *Inorg. Chem.* 2018, 57, 7468-7480. DOI: [10.1021/acs.inorgchem.8b01095](https://doi.org/10.1021/acs.inorgchem.8b01095)
20. Synthesis and transition metal chemistry of ferrocenyl-benzo-oxazaphosphininone P. S. Prasad, **M. S. Balakrishna**, *J. Organomet. Chem.* 2018, 862, 31-39.
21. Synthesis of phosphine-chalcogenides under solvent free conditions using rotatory ball mill, R. Kumar, S. Kumar, M. Kumar Pandey, V. S. Kashid, L. Radhakrishna, **M.S. Balakrishna**, *Eur. J. Inorg. Chem.* 2018, 1028-1037. DOI: [10.1002/ejic.201701414](https://doi.org/10.1002/ejic.201701414)
22. 2-(4-Phenyl-1H-1,2,3-triazol-1-yl)ethanol based phosphinite ligand: Synthesis, transition metal complexes and structural studies, B. Choubey, P. S. Prasad, J. T. Mague, **M. S. Balakrishna**, *Eur. J. Inorg. Chem.* 2018, 1707-1714 (*cover page article*). DOI: [10.1002/ejic.201701058](https://doi.org/10.1002/ejic.201701058)
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24. Microwave-assisted copper(I) catalyzed A³ coupling reaction: reactivity, substrate scope and structural characterization of two coupling products, V. S. Kashid, **M. S. Balakrishna**, *Catalysis. Commun.* 2018, 103, 78-82. <http://dx.doi.org/10.1016/j.catcom.2017.09.020>
25. Unusual and rare pincer ligands: Synthesis, metallation, reactivity and catalytic studies, **M. S. Balakrishna**, Invited article, *Polyhedron* 2018, 142, 2-10 (*cover page review article*). <http://dx.doi.org/10.1016/j.poly.2017.07.026>

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27. Macrocyclic cyclodiphosphazane $[\{P(\mu\text{-}^i\text{BuN})\}_2(\text{O}-m\text{-C}_6\text{H}_4\text{CHNCH}_2)_2]_2$: Synthesis, chalcogen derivatives and gold(I) complex, V. S. Kashid, J. T. Mague, **M. S. Balakrishna**, *J. Chem. Sci.* 2017, 129, 1531-1537. doi:[10.1007/s12039-017-1358-3](https://doi.org/10.1007/s12039-017-1358-3)
28. Palladium and copper complexes of wide angle bisphosphine, 1,4-bis((diphenylphosphino)methyl)-benzene, S. Kumar, **M. S. Balakrishna**, *J. Chem. Sci.* 2017, 129, 1115-1120. DOI 10.1007/s12039-017-1334-y
29. First examples of tri- and tetraphosphametacyclophanes: synthesis and isolation of an unusual hexapalladium complex containing pincer units with Pd—P covalent bonds, V. S. Kashid, L. Radhakrishna, **M. S. Balakrishna**, *Dalton Trans.* 2017, 46, 6510-6513 (*Inside cover page article*) DOI: 10.1039/c7dt00737j
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33. Silver(I) Complexes of Bisphosphines PhN{P(OC₆H₄C₃H₅-o)₂}₂ (**1**) and [2,6-{Ph₂PC(O)}₂(C₅H₃N)] (**2**), V. S. Kashid, S. Naik, **M. S. Balakrishna**, *Proc. Natl. Acad. Sci., Sect. A Phys. Sci.* 2016, 86, 601-604.
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38. Transition metal chemistry of large-bite bisphosphines, N,N-bis(diphenylphosphinobenzyl)-N-phenylamine and bis(2-diphenylphosphinobenzyl)ether, S. A. Bhat, J. T. Mague, **M. S. Balakrishna**, *J. Organomet. Chem.* 2016, 809, 21-30.

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