JJ Vittal's Publications – December, 2025

ORCID: 0000-0001-8302-0733 and Researcher ID: B-2541-2010. About 525 research papers and reviews – Google Scholar: ~29,800 citations & h-index 85. According to the recent *C*-score (composite indicator for career-long impact), JJ ranks 57th (all citations) & 50th (self-citation excluded) out of 57422 researchers listed in the field of Inorganic Chemistry & Nuclear Chemistry, and overall, 12,920th out of 655,350 researchers (top 2%) listed in the database, ranked 53rd in Singapore, 19th at NUS and 2nd in the Department of Chemistry, NUS.

Reviews, Book Chapters, Commentary, Book & Journal Issues editing, etc.

Textbook

1. G.R. Desiraju, J.J. Vittal, A. Ramanan, *Crystal Engineering – A Textbook*, World Scientific, 2011

Books Edited

2. E.R.T. Tiekink, J.J. Vittal, M.J. Zaworotko (Book Editors), *Organic Crystal Engineering - Frontiers in Crystal Engineering*, Wiley, 2010

1. E.R.T. Tiekink, J.J. Vittal (Book Editors), *Frontiers in Crystal Engineering*, Wiley, 2006

Reviews, Scientific Commentaries & Perspectives

17. J.J. Vittal, "[2+2] Photocycloaddition reaction as a tool to monitor the molecular motions in the solid state by mechanochemical grinding", *J. Photochem. Photobiol. C: Photochem. Rev*. 57 (2023) 100636

16. Y.-L. Li, A.-J. Li, S.-L. Huang, J. J. Vittal, G.-Y. Yang, "Polypyridyl Ru(II) or Cyclometalated Ir(III) Functionalized Architectures for Photocatalysis", *Chem. Soc. Rev*. 52(14) (2023) 4725-4754

15. G.K. Kole, J.J. Vittal, "Isomerization of cyclobutane ligands in the solid state and solution", *J. Ind. Chem. Soc.*, 99(9) (2022) 100630

14. B.B. Rath, J.J. Vittal, "Photoreactive Crystals Exhibiting [2 + 2] Photocycloaddition Reaction and Dynamic Effects", *Acc. Chem. Res.* 55(10) (2022), 1445-1455

13. G. Chakraborty, I.H. Park, R. Medishetty, J.J. Vittal, "Two-Dimensional Metal-Organic Framework Materials: Synthesis, Structure, Properties, and Applications", *Chem. Rev.*, 121(7) (2021) 3751-3891

12. M. Gupta, J.J. Vittal, "Control of interpenetration and structural transformation in the interpenetrated MOFs", *Coord. Chem. Rev.*, 435 (2021) 213789 (invited review)

11. J. J. Vittal, H.S. Quah, "Engineering solid state structural transformations of metal complexes" *Coord. Chem. Rev.*, 342 (2017) 1-18 (invited review)

10. M. J. Werny, J.J. Vittal, "Regulating thermosalient behavior in the three polymorphs", *IUCrJ*, 4 (2017) 202-203 (invited scientific commentary).

9. R. Medishetty, J.J. Vittal, "Metal-organic frameworks for photochemical reactions", in Metal-organic frameworks for photonics applications (Editors: B. Chen and G. Qian), *Struct. & Bond.* 157 (2014) 105-144. (Invited)

8. G.K. Kole, J.J. Vittal, "Solid state reactivity, structural transformations involving coordination polymers," *Chem. Soc. Rev.* 42(4) (2013) 1755-1775, (invited review for the Werner issue)

7. W.L. Leong, J.J. Vittal, "One-Dimensional Coordination Polymers: Complexity, Diversity in Structures, Properties, and Applications," *Chem. Rev.* 111(2) (2011) 688-764

6. K. Biradha, C.-Y. Su, J.J. Vittal, "Recent Developments in Crystal Engineering," *Cryst. Growth & Des.* 11(4) (2011) 875-886 (one of the most read articles in 2011)

5. K. Biradha, A. Ramanan & J.J. Vittal, "Coordination Polymers versus Metal Organic Frameworks," *Cryst. Growth & Des.* 9(7) (2009) 2969-2970

4. R. Ganguly, B. Sreenivasulu, J.J. Vittal, "Amino acid containing reduced Schiff base as the building blocks for supramolecular structures" *Coord. Chem. Rev*. 252(8-9) (April 2008) 1027-1050 (invited & one of the top 25 hottest articles, April-June 2008)

3. J. J. Vittal, "Supramolecular structural transformations involving coordination polymers in the solid-state," *Coord. Chem. Rev*. 251 (2007) 1781-1795 (invited & one of the top 25 hottest articles, July-September 2007, highly cited paper by Essential Science Indicators, 2008-2011)

2. J. J. Vittal, M.T. Ng, "Chemistry of Metal Thio-, Selenocarboxylates – Precursors for Metal Sulfide/Selenide Materials, Thin Films, Nanocrystals," *Acc.Chem.Res.*39 (2006) 869-877 (invited, cover page & one of the most-accessed articles in October-December 2006)

1. J. J. Vittal, "The Chemistry of Inorganic, Organometallic Compounds with Adamantane-like Structures," *Polyhedron* 15 (1996) 1585-1642 (a review)

Book Chapters

5. H.S. Quah, J.J. Vittal, "Influence of supramolecular interactions on the solid-state photoreactivity of metal complexes" in 'Functional Supramolecular Materials: From Surfaces to MOFs' Monographs in Supramolecular Chemistry No. 22 (Edited by Rahul Banerjee), Royal Society of Chemistry, US, pp. 180-216, 2017.

4. A. Chanthapally, J.J. Vittal, 'Metal-Organic Frameworks: Photoreactive Frameworks', in the book *Metal-Organic Framework Materials*" (Editors: Leonard R. MacGillivray and Charles M. Lukehart), John Wiley & Sons, Ltd: Chichester, UK, pp. 135-157, 2014.

3. J. J. Vittal, "Hydrogen-bonded coordination polymeric structures" in the book *Frontiers in Crystal Engineering* (Editors: E.R.T. Tiekink, J.J. Vittal), Wiley, Chapter 12, pp. 297-319, 2006.

2. J. J. Vittal, R.J. Puddephatt "Gold: Inorganic & Coordination Chemistry", in *The Encyclopaedia of Inorganic Chemistry*, R.B. King, Editor-in-Chief, John Wiley & Sons, Ltd., 2nd Edition, 3 (2006) 1673-1688.

1. P.A.W. Dean, J.J. Vittal, "Adamantane-like Cages", in the book "*Metallothioneins. Synthesis, Structure, Properties of Metallothioneins, Phytochelatins, Metal Thiolate Complexes*." Edited by M.J. Stillman, C.F. Shaw Jr., K.T. Suzuki, VCH Publishers, New York (1992), Chapter 14, p. 346-386.

Special Articles

4. J. J. Vittal, "Lip Lin Koh (1935-2015)" *J. Appl. Crystallogr*. 48(3) (2015) 976

3. J. J. Vittal, "Angewandte Author Profile" *Angew. Chem. Int. Ed.* 53(52) (2014) 14302

2. L. Tian, J.J. Vittal, "From inorganic compounds to inorganic materials" Materials Research Society of Singapore newsletter MRS-S Outlook, 2(4) (April-June, 2008), 96-113 (invited)

1. K. Swaminathan, J.J. Vittal, "Crystallography in Singapore" in *IUCr Newsletter*, 14(3) (2006) 7-16 (invited & cover page)

Editorial

9. S. Konar, J.J. Vittal (Guest Editors) for the virtual issue of *Structure Property Relationship in Crystalline Solids*, *Cryst. Growth & Des.*, 19(24), November 25, 2019

8. S.R. Batten, B. Chen, J.J. Vittal (Guest Editors), "Coordination Polymers/MOFs Structures, Properties and Applications" Editorial, *ChemPlusChem*, 81(8) (2016) 669-670 (invited)

7. J. J. Vittal, J. Ellena (Guest Editors), "Crystal Growth & Design celebrates the International Year of Crystallography 2014", *Cryst. Growth & Des.*, 15(1) (2015), 2-4 (invited)

6. J. J. Vittal, S.R. Batten (Guest Editors), "2014 International year of crystallography celebration: Asia-Pacific," *CrystEngComm* 16(28) (2014) 6276 (invited)

5. L. Xiaogang, J.J. Vittal (Guest Editors), "Chemistry of Nanomaterials", a thematic issue edited for *COSMOS* (Proceedings of the Singapore National Academy of Science), 6, Issue No. 2 (2010) (invited)

4. K.V. Katti, J.J. Vittal, R. Kannan (Guest Editors), "New Routes to Inorganic Materials, Films, Nanocrystals" Editorial Preface on the Special Issue, *Synthesis, Reactivity in Inorganic, Metal-Organic, Nano-metal Chemistry*, 38 (2008) 125

3. K.V. Katti, P.K. Bharadwaj J.J. Vittal, R. Kannan (Guest Editors), "Latest developments in the chemistry of water clusters", editorial for the special issue on water clusters, *Synthesis, Reactivity in Inorganic, Metal-Organic, Nano-metal Chemistry*, 38(1) (2008) 1

2. R. Murugavel, K. V. Katti, J.J. Vittal, R. Kannan (Guest Editors), "New Vistas in Inorganic Chemistry" editorial for the special to honor H.W. Roesky, *Synthesis, Reactivity in Inorganic, Metal-Organic, Nano-metal Chemistry*, 37 (2007) 665-667 & 745-747

1. J.N. Moorthy, J.J. Vittal (editors) preface for the special issue on Coordination Polymers, *J. Mol. Struct.* 796, 30 August 2006, p 1(invited)

Provisional Patent filed

1. J. J. Vittal, P. Balaya, K. Savaranan, M.V. V. Reddy, B.V.R. Chowdari, "Synthesis of cathode materials based on olivine-type phosphates by solvothermal method for enhanced lithium-ion battery performance." 9 April 2008, Singapore. U.S. Provisional Patent Application Serial No. US61/123,512

Research Papers

2025

506 A Calcium(II) Coordination Polymer Gel as a Highly Selective Fluorescent Chemosensor in Water for $Cu(NO_3)_2$, W.L. Leong, J.J. Vittal, *Chemistry - An Asian J.*, 20(24) (2025) e70467

2024

505. Incorporation of Ir(C^N)2(N^N)-NiCl2 in a (N^N)- covalent organic framework for transcendent dual catalysis in photochemical cross-coupling synthesis, Y.-L. Li, F. Wang, J.J. Vittal, P. Jin, S.-L. Huang, G.-Y. Yang, *J. Mater. Chem. A*, 12(15) (2024) 9164-9172

504**.** **"**Porphyrin−Sensitizers and Anthracene−Annihilators Built in Isostructural Frameworks for Investigating Triplet−Triplet Annihilation Upconversion," N. Liu, H. Chen, J. Su, Y. Weng, J. J. Vittal, S.-L. Huang, J. Jiang, *Inorg. Chem*. 63(10) (2024) 4691-4696

2023

503. "Enhancement in Two-Photon Absorption and Photoluminescence in Single Crystals of Cd(II) Metal Organic Frameworks," B.B. Rath, D. Kottilil, W. Ji, J.J. Vittal, *ACS Appl. Mater. & Interfaces*, 15 (22) (2023) 26939-26945

2022

502. "Isostructurality in amino molecular salts of two dicarboxylic acids driven by noncovalent synthons", R. Medishetty, A. Ekka, C.E. Mulijanto, R. Tandiana, J.J. Vittal, *CrystEngComm*., 24 (2022) 6330-6337 (Themed collection on *CrystEnggComm* Hot Articles)

501. "Highly Efficient Multiphoton Absorption of Zn-AIEgen Frameworks", N. Liu, Z. Chen, W. Fan, J. Su, T. Lin, S. Xiao, J. Meng, J. He, J. J. Vittal, J. Jiang, *Angew. Chem. Int. Ed.*, 61(12) (2022) e202115205 (1-7) (Front Cover)

500. "Multistimuli Responsive Dynamic Effects in a One-Dimensional Coordination Polymer," B.B. Rath, M. Gupta, J.J. Vittal, *Chem. Mater.* 34(1) (2022) 178-185.

2021

499. "Impact of Structural Modification of Diamondoid Cd(II) MOFs on the Nonlinear Optical Properties," M. Gupta, Z. Zhu, D. Kottilil, B.B. Rath, W. Tian, Z.-K. Tan, X. Liu, Q.-H. Xu, W. Ji, J.J. Vittal, *ACS Appl. Mater. & Interfaces*, 13 (50) (2021) 60163–60172

498. "Dynamic Effects in Crystalline Coordination Polymers", B. B. Rath, J. J Vittal, *CrystEngComm*. 23(34) (2021) 5738 - 5752

497. "Catecholase-like Activity in 2D MOFs: Oxidation of 3,5-DTBC by Two Cu(II) 2D MOFs of Reduced Schiff Base Ligands", Y. Thio, J.J. Vittal, *Inorg. Chim. Acta* 526 (2021) 120502

496. "Anisotropic Two-Photon Absorption and Second Harmonic Generation in Single Crystals of Silver(I) Coordination Complexes", A. Alexander, M. Gupta, D. Kottilil, B. B. Rath, J.J. Vittal, W. Ji, *ACS Appl. Mater. Interfaces* 13(27) (2021) 31891–31897

495. "Mechanical Bending and Modulation of Photoactuation Properties in a One-Dimensional Pb(II) Coordination Polymer", B.B. Rath, J.J. Vittal, *Chem. Mater.* 33(12) (2021) 4621-4627

494. "Construction of 2D Interdigitated Polyrotaxane Layers and their Transformation to a 3D Polyrotaxane by a Photocycloaddition Reaction between Wheels", H. Ju, M. Shin, I.-H. Park, J. H. Jung, J.J. Vittal, S. S. Lee, *Inorg. Chem*. 60(11) (2021) 8285-8292

493. "Multi-Functional Properties of a Zn(II) Coordination Complex", G. Bolla, Q. Chen, G. Gallo, I.H. Park, K. C. Kwon, X. Wu, Q.-H. Xu, K. P. Loh, S. Chen, R. E. Dinnebier, W. Ji, J.J. Vittal, *Cryst. Growth & Des.*21(6) (2121) 3401-3408

492. "Reversible Thermosalience in a One-Dimensional Coordination Polymer Preceded by Anisotropic Thermal Expansion and Shape Memory Effect", B.B. Rath, G. Gallo, R.E. Dinnebier, J.J. Vittal, *J. Amer. Chem. Soc*., 143(4) (2021) 2088–2096

2020

491. "Single-crystal-to-single-crystal [2+2] photo-cycloaddition reaction in a photosalient 1D coordination polymer of Pb(II)", B.B. Rath, J.J. Vittal, *J. Amer. Chem. Soc.*, 142(47) (2020) 20117-20123

490. "Water Stable Zn(II) Metal-Organic Framework as a Selective and Sensitive Luminescent Probe for Fe(III) and Chromate Ions", B.B. Rath, J.J. Vittal, *Inorg. Chem.*, 59(13) (2020) 8818-8826

489. "Rotation of a helical coordination polymer by mechanical grinding", B.B. Rath, G. K. Kole, S. A. Morris, J.J. Vittal, *Chem. Commun*., 56(46) (2020) 6289-6292

488. "Giant enhancement of second harmonic generation accompanied by the structural transformation of 7-fold to 8-fold interpenetrated MOF", Z. Chen, G. Gallo, V. A. Sawant, T. Zhang, M. Zhu, L. Liang, A. Chanthapally, G. Bolla, H. S. Quah, X. Liu, K. P. Loh, R. E. Dinnebier, Q. -H. Xu, J.J. Vittal, *Angew. Chem. Int. Ed.*, 59(2) (2020) 833-839 (inside back cover)

487. “Disappeared supramolecular isomer reappears with perylene guest”, I.-H. Park, A. Dey, K. Sasaki, M. Ohba, S.S. Lee, J.J. Vittal, *IUCrJ*, 7(2) (2020) 324 – 330

486. "Extraordinary Anisotropic Thermal Expansion in Photosalient Crystals", K. Yadava, G. Gallo, S. Bette, C. E. Mulijanto, D.P. Karothu, I.-H. Park, R. Medishetty, P. Naumov, R. Dinnebier, J.J. Vittal, *IUCrJ*, 7(1) (2020) 83 – 89

2019

485. "Straight, bendable and bent organic crystals”, K. Yadava, X. Qin, X. Liu, J.J. Vittal, *Chem. Commun*., 55 (2019) 14749 - 14752

484. “Chemical Patterning in Single Crystals of Metal-Organic Frameworks by [2+2] Cycloaddition Reaction", I.H. Park, E. Lee, S.S. Lee, J.J. Vittal, *Angew. Chem. Int. Ed.*, 58(42) (2019) 14860-14864

483. "Solid state photochemical [2+2] cycloaddition reaction of Mn^{II} complexes", K. Yadava, J.J. Vittal, *Chem. Eur. J.* 25(44) (2019) 10394 - 10399

482. “Photosalient behavior of photoreactive Zn(II) complexes”, K. Yadava, J.J. Vittal, *Cryst. Growth & Des*. 19(5) (2019) 2542-2547

481. *“*Metal Organo-Polymeric Framework via [2 + 2] Cycloaddition Reaction: Influence of Hydrogen Bonding on Depolymerization”, I.-H. Park, K. Sasaki, H.S. Quah, E. Lee, M. Ohba, S. S. Lee, J.J. Vittal, *Cryst. Growth & Des*. 19(3) (2019) 1996–2000

2018

480. "Structural Transformation of Photoreactive Helical Coordination Polymers to Two-Dimensional Structures," B.B. Rath, G.K. Kole, J.J. Vittal, Vittal, *Cryst. Growth & Des*. 18(10) (2018) 6221-6226

479. "Near-White Light Emission from Lead(II) Metal-Organic Frameworks," A.M.P. Peedikakkal, H.S. Quah, S. Chia, A.S. Jalilov, A.R. Shaikh, H.A. Al-Mohsin, K. Yadava, W. Ji, J.J. Vittal, *Inorg. Chem*. 57(18) (2018) 11341-11348

478. “Contrast Solid-State Photoreactive Behavior of Two Two-Dimensional Zn(II) Coordination Polymers,” H.S. Quah, J. L. X. Yap, U. Sambasivam, A. Chanthapally, B. Donnadieu, J.J. Vittal, *Cryst. Growth & Des*. 18(6) (2018) 3693−3696

479. “Competition Between Head-to-Head and Head-to-Tail Photocycloaddition Reaction in the Solid State: A Case Study”, V. A. Sawant, J. Wu, J.J. Vittal, *Cryst. Growth & Des*. 18(6) (2018) 3661−3667

477. “Isomerism in double-pillared-layer coordination polymers –structures and photoreactivity,” I.-H. Park, H. Ju, K. Kim, S.S. Lee, J.J. Vittal, *IUCrJ*, 5(2) (2018) 182–189

476. “Multiphoton absorption and two-photon-pumped random lasing in crystallites of a coordination polymer”, M. Liu, H. S. Quah, S. Wen, Y. Li, J.J. Vittal, W. Ji, *J. Phys. Chem. C*, 122(1) (2018) 777-781

475. “Role of structure and metal ion in the fluorescence sensing of nitro compounds for a series of lanthanide(III) 9, 10-anthracene dicarboxylate coordination polymers” H.S. Quah, L.T. Ng, J.J. Vittal, *Dalton Trans*. 47(1) (2018) 264-268.

2017

474. **“**Synthesis, structures and magnetic properties of isoreticular polyrotaxane-type two-dimensional coordination polymers” I.-H. Park, T. S. Herng, H. Ju, J. Ding, S. S. Lee, J.J. Vittal, *RSC Adv*. 7 (72) (2017) 45582-45586

473. "Tuning two-photon absorption cross section in metal organic frameworks", H.S. Quah, V. Nalla, K. Zheng, C.A. Lee, X. Liu, J.J. Vittal, *Chem. Mater.* 29(17) (2017) 7424-7430

472. "Photochemical reactions of metal complexes in the solid state," J.J. Vittal, H.S. Quah, *Dalton Trans*. 46 (22) (2017) 7120-7140 (invited Perspective)

471. "Making photoreactive *trans*-3-(*n'*-pyridyl)acrylic acid (n = 2,3) with head-to-tail orientation in the solid state by salt formation," G.K. Kole, U. Sambasivam, G.K. Tan, J.J. Vittal, *Cryst. Growth & Des.* 17(5) (2017) 2694-2699

470. "Interpenetrated Double Pillared-Layer Co^{II} MOFs with pcu Topology," I.H. Park, Y. Kang, E. Lee, A. Chanthapally, S.S. Lee, J.J. Vittal, *Austr. J. Chem*. 70(5) (2017) 461-467

469. "Nonlinear optical properties of a one-dimensional coordination polymer" M. Liu, H.S. Quah, S. Wen, J. Wang, P.S. Kumar, G. Eda, J.J. Vittal, W. Ji, *J. Mater. Chem. C*, 5(11) (2017) 2936-2941

468. "Curved crystal morphology, photoreactivity and photosalient behaviour of mononuclear Zn(II) complexes" C. E. Mulijanto, H. S. Quah, Geok Kheng Tan, B. Donnadieu, J.J. Vittal, *IUCrJ* 4(1) (2017) 65-71

2016

467. "Supramolecular Isomerism and Polyrotaxane-based Two-Dimensional Coordination Polymers" I-H. Park, H. Ju, T. S. Herng, Y. Kang, S. S. Lee, J. Ding, J.J. Vittal, *Cryst. Growth & Des.* 16(12) (2016) 7278-7285

466. "Molecular Scissoring: Facile 3D to 2D Conversion of Lanthanide Metal Organic Frameworks Via Solvent Exfoliation", H. S. Quah, L.T. Ng, B. Donnadieu, G.K. Tan, J.J. Vittal, *Inorg. Chem*. 55(21) (2016) 10851-10854

465. "Enantioselective Desymmetrization of Cyclohexadienones via an Intramolecular Rauhut-Currier Reaction of Allenoates", W. Yao, X. Dou, S. Wen, J. Wu, J.J Vittal, Y. Lu, *Nat. Commun*. 7 (2016) 13024 (1-8)

464. Halogen···Halogen Interactions in the Supramolecular Self-Assembly of 2D Coordination Polymers and CO_2 Sorption Behavior" F. Ahmed, S. Roy, K. Naskar, C. Sinha, S.M. Alam, S. Kundu, J.J. Vittal, M.H. Mir, *Cryst. Growth & Des.* 16(5) (2016) 5514-5519

463. 'Tunable Electrical Conductivity & Magnetic Property of Two-Dimensional Metal-Organic Framework $[Cu(TPyP)Cu_2(O_2CCH_3)_4]$" A. Sengupta, S. Datta, C. Su, H.T. Seng, J. Ding, J.J. Vittal, K.P. Loh, *ACS Appl. Mater. Interfaces* 8(25) (2016) 16154-16159.

462. "Efficient Third Harmonic Generation in a Metal-Organic Framework Compound" M. Liu, H.S. Quah, S. Wen, Z. Yu, J.J. Vittal, W. Ji, *Chem. Mater*. 28(10) (2016) 3385-3390

461. "Influence of Interpenetration in Diamondoid MOFs on the Photoreactivity and Sensing Properties" I.-H. Park, C. E. Mulijanto, H.-H. Lee, Y. Kang, E. Lee, A. Chanthapally S. S. Lee, J.J. Vittal, *Cryst. Growth & Des.* 16(5) (2016) 2504-2508

460. "RGO/Stibnite Nanocomposite as a Dual Anode for Lithium and Sodium Ion Batteries" A.S. Hameed, M.V. Reddy, J. L. T. Chen, B.V.R. Chowdari, J.J. Vittal, *ACS Sus. Chem. & Engg.* 4(5) (2016) 2479-2486

459. "Synthesis, Characterization and Photocatalytic Properties of In_2S_3, $ZnIn_2S_4$ and $CdIn_2S_4$ Nanocrystals" S. Batabyal, S.E. Lu, J.J. Vittal, *Cryst. Growth & Des.* 16(4) (2016) 2231-2238.

458. "Solid-state polymerization *via* [2+2] cycloaddition reaction involving coordination polymers", R. Medishetty, I.H. Park, S.S. Lee, J.J. Vittal, *Chem. Commun.* 52(21) (2016) 3989-4001(Feature article)

2015

457. "Room temperature large-scale synthesis of layered frameworks as low-cost 4 V cathode materials for lithium ion batteries", A. S. Hameed, M. V. Reddy, M. Nagarathinam, T. Runčevski, R.E Dinnebier, S. Adams, B. V. R. Chowdari, J.J. Vittal, *Sci. Reports*. 5 (2015) 16270 (1-11)

456. **"**Solid State Packing and Photoreactivity of Alkali Metal Salts of *trans*, *trans*-muconate" G. K. Kole, A. Chanthapally, G.K. Tan, J.J. Vittal, *Cryst. Growth & Des.* 15(11) (2015) 5555-5559

455. "Influence of chiral ligand on the gel formation of a Mg(II) coordination polymer", W. L. Leong, S.K. Batabyal, S. Kasapis, J.J. Vittal, *CrystEngComm* 17(42) (2015) 8011-8014

454. "A Step-by-step Assembly of a 3D Coordination Polymer in the Solid State by desolvation and [2+2] Cycloaddition Reaction" R. Medishetty, R. Tandiana, J. Wu, Z. Bai, Y. Du, J.J. Vittal, *Chem. Eur. J.* 21(34) (2015) 11948-11953 (Hot Paper & Frontispiece)

453. "Multiphoton Harvesting Metal Organic Frameworks" H.S. Quah, W. Chen, M. K. Schreyer, H. Yang, M.W. Wong, W. Ji, J.J. Vittal, *Nat. Commun.* 6 (2015) 7954 (1-7)

452. "Influence of Angular Dicarboxylate Ligand on the Structure of Single and Double Pillared-Layer Coordination Polymers of Co(II)" I.-H. Park, R. Medishetty, H.-H. Lee, T.S. Herng, J. Ding, S.S. Lee, J.J. Vittal, *Cryst. Growth & Des*. 15(8) (2015) 4156-4161

451. "Influence of Fluorine Substitution on the Unusual Solid-State [2+2] Photo Cycloaddition Reaction between an Olefin and an Aromatic Ring" R. Medishetty, Z. Bai, H. Yang, M.W. Wong, J.J. Vittal, *Cryst. Growth & Des.* 15(8) (2015) 4055-4061

450. "Synthesis and electrochemical investigation of novel phosphite based layered cathodes for Li-ion batteries" A. S. Hameed, M. V. Reddy, N. Sarkar, B. V. R. Chowdari, J.J. Vittal, *RSC Advances* 5(74) (2015) 60630-60637

449. "Formation of a Syndiotactic Organic Polymer inside a MOF via [2+2] Photo-Polymerization Reaction" I.-H. Park, R. Medishetty, H.-H. Lee, C. E. Mulijanto, H. S. Quah, S. S. Lee, J.J. Vittal, *Angew. Chem. Int. Ed.* 54(25) (2015) 7313-7317

448. "Second harmonic generation from the "centrosymmetric" crystals' V. Nalla, R. Medishetty, W. Yue, Z. Bai, S. Handong, W. Ji, J.J. Vittal, *IUCrJ* 2(2015) 317-321

447. "Photosalient behavior of photoreactivity crystals" R. Medishetty, S. K. Sahoo, C. E. Mulijanto, P. Naumov, J.J. Vittal, *Chem. Mater*. 27(5) (2015) 1821-1829

2014

446. "Preparation of rGO-wrapped magnetite nanocomposites and their energy storage properties" A. Shahul Hameed, M. V. Reddy, B. V. R. Chowdari, J.J. Vittal, *RSC Advances* 4 (109) (2014) 64142-64150

445. "Oxygen-Initiated Stereoselective Thermal Isomerisation of a Cyclobutane Derivative in the Solid State" A. Chanthapally, H. Yang, H. S. Quah, R. D. Webster, M. K. Schreyer, M. W. Wong, J.J. Vittal, *Chem. Eur. J*. 20(48) (2014) 15702-15708

444. "Lithium Storage Properties of Pristine and (Mg,Cu) Codoped $ZnFe_2O_4$ Nanoparticles", A.S. Hameed, H. Bhiraei, M.V. Reddy, M.Z. Shoushtari, J.J. Vittal, C.K. Ong, B.V.R. Chowdari, *Appl. Mater. Interfaces* 6(13) (2014) 10744-10753

443. "Stepwise Host-Guest [2+2] Photoreaction in a Hydrogen-Bonded One-Dimensional Coordination Polymer to a Two-Dimensional Layered Structure," R. Medishetty, R. Tandiana, J.J. Vittal, *Cryst.*

Growth & Des. 14(7) (2014) 3186 – 3190

442. "Popping Single Crystals Under UV Light: The First Example of a Photosalient Effect Triggered by a [2+2] Cycloaddition Reaction" R. Medishetty, A. Husain, Z. Bai, T. Runčevski, R. Dinnebier, P. Naumov, J.J. Vittal, *Angew. Chem. Int. Ed*. 53(23) (2014) 5907-5911 (Hot paper & Cover page)

441. "Solid-State Polymerization in a Polyrotaxane Coordination Polymer via [2+2] Cycloaddition Reaction", I. H. Park, R. Medishetty, S.S. Lee, J.J. Vittal, *Chem. Commun.* 50(5) (2014) 6585-6588

440. "Distortional Supramolecular Isomers of Polyrotaxane Coordination Polymers: Photoreactivity and Sensing of Nitro Compounds" I.H. Park, R. Medishetty, J.-Y. Kim, S.S. Lee, J.J. Vittal, *Angew. Chem. Int. Ed*. 53(22) (2014) 5591-5595

439. "Solid-state Reactivity of Supramolecular Isomers: A study of the *s*-block coordination polymers" A. Chanthapally, H.S. Quah, J.J. Vittal, *Cryst. Growth & Des.* 14(5) (2014) 2605-2613

438. "Carbon coated $Li_3V_2(PO_4)_3$ from the single-source precursor, $Li_2(VO)_2(HPO_4)_2(C_2O_4)\cdot 6H_2O$ as cathode, anode materials for Lithium ion batteries," A. S. Hameed, M.V. Reddy, B.V.R. Chowdari, J.J. Vittal, *Elect. Chim. Acta* 128 (2014) 184-191

437. "Self-Assembly of a 15-Nickel Metallamacrocyclic Complex Derived from L- Glutamic Acid Schiff Base Ligand" Y. Thio, S.W. Toh, F. Xue, J.J. Vittal, *Dalton Trans.* 43(16) (2014) 5998-6001

436. "Putting the Squeeze on CH_4 and CO_2 through Control over Interpenetration in Diamondoid Nets" S. K. Elsaidi, M. H. Mohamed, L. Wojtas, A. Chanthapally, T. Pham, B. Space, J.J. Vittal, M. J. Zaworotko, *J. Amer. Chem. Soc*., 136(13) (2014) 5072-5077

435. "Solid-State Conversion of a MOF to a Metal-Organo Polymeric Framework (MOPF) via [2+2] Cycloaddition Reaction" I.-H. Park, A. Chanthapally, H.-H. Lee, H. S. Quah, S. S. Lee, J.J. Vittal, *Chem. Commun.* 50(28) (2014), 3665-3667 (inside cover)

434. "Synthesis and nonlinear optical switching of Bi_2S_3 nanorods and enhancement in the Bi_2S_3@Au nanorod-composites", J. L.T. Chen, V. Nalla, G. Kannaiyan, V. Mamidala, W. Ji, J.J. Vittal, *New J. Chem*. 38(3) (2014) 985-992

433. **"**Reversible Single-Crystal-to-Single-Crystal Photochemical Formation and Thermal Cleavage of a Cyclobutane Ring" G.K. Kole, T. Kojima, M. Kawano, J.J. Vittal, *Angew. Chem. Int. Ed*. 53(8) (2014) 2143-2146

432. "Metal-Organic Organo-Polymeric Hybrid Framework Reversible [2+2] Cycloaddition Reaction," I.-H. Park, A. Chanthapally, Z. Zhang, S.S. Lee, M.J. Zaworotko, J.J. Vittal, *Angew. Chem. Int. Ed*. 53(2) (2014) 414-419 (Frontispiece)

431. "Assembly of 3D Coordination Polymers from 2D Sheets [2+2] Cycloaddition Reaction" R. Medishetty, R. Tandiana, L. L. Koh, J.J. Vittal, *Chem. Eur. J.* 20(5) (2014) 1231-1236

430. "Influence of Inductive Effect, Steric Encumbrance on the Catecholase Activities of Copper(II) Complexes of Reduced Schiff Base Ligands," Y. Thio, X. Yang, J.J. Vittal, *Dalton Trans.* 43(9) (2014) 3545-3556

429. "Photoreactivity of Polymorphs of a Ladder Polymer with Crisscross, Parallel Orientations of C=C Bonds," A. Chanthapally, W.T. Oh, J.J. Vittal, *Chem. Commun.* 50(4) (2014) 451 - 453

2013

428. **"**Thermally Reversible Single-Crystal to Single-Crystal Transformation of mononuclear to Dinuclear Zn(II) Complexes [2+2] Cycloaddition Reaction" R. Medishetty, T. T. S. Yap, L. L. Koh, J.J. Vittal, *Chem. Commun.* 49(83) (2013) 9567-9569

427. "[2+2] Cycloaddition Reaction as a Tool to Monitor the Formation of Thermodynamically Stable Ladder Coordination Polymers," A. Chanthapally, W.T. Oh, J.J. Vittal, *CrystEngComm*. 15(45) (2013) 9324-9327

426. "Vesicle-Mediated Growth of Tubular Branches, Centimeter-Long Microtubes from a Single Molecule" A. Abbas, A. Brimer, L. Tian, D. A. Avignon, A. S. Hameed. J.J. Vittal, S. Singamaneni, *Small* 9 (2013) 2611-2618

425. "Influence of C-H•••π interaction on the solid–state [2+2] cycloaddition reaction of a Ag(I) coordination complex in an inorganic co-crystal" G.K. Kole, R. Medishetty, L.L. Koh, J.J. Vittal, *Chem. Commun*. 49 (56) (2013) 6298-6300

424. "A Layered Oxalatophosphate as a Cathode Material for Lithium Ion Batteries" A. S. Hameed, M. Nagarathinam, M. K. Schreyer, M. V. Reddy, B. V. R. Chowdari, J.J. Vittal, *J. Mater. Chem. A* 1(18) (2013) 5721-5726

423. "Muconate bridged coordination polymers of Copper(II): Effect of auxiliary ligand on their structural architectures" M.H. Mir, J.J. Vittal, *Inorg. Chim. Acta* 403 (2013) 97-101 (invited for the special issue on Coordination Polymers)

422 "Silver(I) macrocycles, coordination polymers containing pyridyl carboxylate, phosphine ligands", G.K. Kole, C.K. Chin, G.K. Tan, J.J. Vittal, *Polyhedron* 52 (2013) 1440-1448 (invited for Werner 2013 special issue)

421. "Solvent-induced Structural Dynamics in Noninterpenetrating Porous Coordination Polymeric Networks" R. Medishetty, D. Jung, X. Song, D. Kim, S.S. Lee, M.S. Lah, J.J. Vittal, *Inorg. Chem*. 52(6) (2013) 2951-2957

420. "Solid State Structural Transformation, Photoreactivity of 1D Ladder Coordination Polymers of Pb(II)" G. K. Kole, A.M.P. Peedikakkal, B.M.F. Toh, J.J. Vittal, *Chem. Eur. J.* 19(12) (2013) 3962-3968. (Back cover page)

419. "Guest-Triggered Supramolecular Isomerism in a Pillared-Layer Structure with Unusual Isomers of Paddle-Wheel by SBU Reversible Single-Crystal to Single-Crystal Transformation" I.-H. Park, S. S. Lee J.J. Vittal, *Chem. Eur. J.* 19(8) (2013) 2695-2702

2012

418. *"*Solid State Photodimerization of *trans*-2-(4-pyridyl)-4-vinylbenzoic acid via Salt Formation, Isomerization of Cyclobutane Compounds in Solution" G.K. Kole, G.K. Tan, J.J. Vittal, *CrystEngComm*. 14(21) (2012) 7438-7443

417. "Co-crystals of tetrakis-1,2,3,4-(4'-carboxyphenyl)cyclobutane with dipyridyl spacers: design an serendipity" G.K. Kole, G.K. Tan, L.L. Koh, J.J. Vittal, *CrystEngComm.* 14(19) (2012) 6190-6195

416. "An Unusual Interweaving in a 3-Fold Interpenetrated Pillared-Layer Zn(II) Coordination Polymer with a Long Spacer Ligand" I.-H. Park, K. Kim, S.S. Lee, J.J Vittal, *Cryst. Growth & Des*. 12(7) (2012) 3397-3401

415. "Redox Active Hybrid Metal Centered Oxalato Phosphate Open Framework 4 V Cathode Materials for Lithium Ion Batteries" M. Nagarathinam, K. Saravanan, J.H. Phua, M. V. Reddy, B. V. R. Chowdari, J.J. Vittal, *Angew. Chem. Int. Ed.* 51 (2012) 5866-5870

414. "Thermal Cleavage of Cyclobutane Rings in the Photodimerized Coordination Polymeric Sheets", A. Chanthapally, G.K. Kole, K. Qian, G.K. Tan, S. Gao, J.J. Vittal, *Chem. Eur. J.* 18(25) (2012) 7869-7877

413. "Synthesis, electrochemical studies of layer-structured metastable αI-$LiVOPO_4$" A. Shahul Hameed, M. Nagarathinam, M.V. Reddy, B.V.R. Chowdari, J.J. Vittal, *J. Mater. Chem.* 22(15) (2012) 7206-7213

412. "Mechanochemical Reactions of Coordination Polymers by Grinding with KBr" M. Nagarathinam, A. Chanthapally, S. H. Lapidus, P. W. Stephens, J.J. Vittal*, Chem. Commun.* 48(20) (2012) 2585-2587

411. "Photoreactivity of Ag(I) Complexes, Coordination Polymers of Pyridyl Acrylic Acids" G.K. Kole, G. K. Tan, J.J. Vittal, *Cryst. Growth & Des.* 12(1) (2012) 326-332

2011

410. "Photoreactive Gold(I) Macrocycles with Diphosphine, *trans, trans*- Muconate Ligands", M.H. Mir, J.X. Ong, G.K. Kole, G.K. Tan, M.J. McGlinchey, Y. Wu, J.J. Vittal, *Chem. Commun*. 47(42) (2011) 11633-11635

409. **"**Solid State Structural Transformation from 2D-Interdigitated Layer to 3D-Interpenetrated Structure", R. Medishetty, L.L. Koh, G.K. Kole, J.J. Vittal, *Angew. Chem. Int. Ed.* 50(46) (2011) 10949-10952

408. "Synthesis, Characterization, Structures of Copper(II) Complexes Containing Carboxylate, Sulfonate Groups",W.L. Leong, J.J. Vittal, *J. Incl. Phenomena & Macrocycl. Chem.* 71(3-4) (2011) 557-566 (Special issue for Prof. Len Lindoy's 75th birthday)

407. "Structural Transformations of Pb(II)- *trans*-1,2-bis(4-pyridyl)ethene Coordination Polymers in Solution" A.M. P. Peedikakkal, J.J Vittal, *Cryst. Growth & Des*. 11(11) (2011) 4697-4703

406. "Role of Anions in the Synthesis of Cycl obutane Derivatives via [2+2] Cycloaddition Reaction in the Solid State, Their Isomerisation in Solution", G.K. Kole, G.K. Tan, J.J. Vittal, *J. Org. Chem.* 76(19) (2011) 7860-7865

405. "Li(Mn_xFe_{1-x})PO_4/C (x = 0.5, 0.75, 1) Nanoplates for Lithium Storage Applications", K. Saravanan, V. Ramar, P. Balaya , J.J. Vittal, *J. Mater. Chem.* 21(38) (2011) 14925-14935

404. "Hollow α-$LiVOPO_4$ sphere cathodes for high energy Li-ion battery application," K. Saravanan, H. S. Lee, M. Kuezma, *J.J. Vittal,* P. Balaya**,** *J. Mater. Chem.* 21(27) (2011) 10042-10050

403. "Crystal engineering studies on the salts of trans-4,4'-stilbenedicarboxylic acid in the context of solid state [2+2] cycloaddition reaction," G.K. Kole, G.K. Tan, J.J. Vittal, *CrystEngComm*. 13(9) (2011) 3138-3145 (Invited contribution for the special issue on "Reactions in Molecular Solids, Host-Guest Systems)

2010

402. "Solvent-free porous framework resulted from 3D entanglement of 1D zigzag coordination polymer," G. K. Kole, A. J. Cairns, M. Eddaoudi, J.J. Vittal, *New J. Chem.* 34(11)(2010) 2392-2395 (Invited contribution for the Special Issue on "Coordination Polymers: Structure, Function**)**

401. "Alkali Metal Ion Directed Self-Assembled Ni(II) Molecular Clusters," W.L. Leong, J.J. Vittal, *New J. Chem.* 34(10) (2010) 2145-2152

400 "Lithium storage in metal organic framework with diamondoid topology – A case study on metal formates," K. Saravanan, M. Nagarathinam, P. Balaya, J.J. Vittal, *J. Mater. Chem.* 20(38) (2010) 8329 - 8335

399. "Co(II) Coordination Polymers containing trans-1,2-bis(4-pyridyl)ethene, their Magnetic Properties," A.M. P. Peedikakkal, Y.-M. Song, R. –G. Xiong, S. GAO, [J.J. Vittal], *Eur. J. Inorg. Chem*. (24) (2010) 3856-3865. (Invited contribution for the Cluster issue: Targeted fabrication of MOFs for hybrid functionality)

398. "Metal-organic Frameworks Containing Tetrapyridylcyclobutane Ligand Derived from Isomerization Reaction", A.M.P. Peedikakkal, C. Peh, L.L. Koh, J.J. Vittal, *Inorg. Chem.* 49(15) (2010) 6775-6777

397. "Storage performance of $LiFe_{1-x}Mn_xPO_4$ nanoplates (x = 0, 0.5, 1)," K. Saravanan, J.J. Vittal, M. V. Reddy, B.V.R. Chowdari, P. Balaya, *J. Solid State Electrochem*. 14(10) (2010), 1755-1760

396. "A Novel Heterogeneous Colorimetric, Spectrophotometric Chemosensor for Detection, Adsorption of Hg^0, Hg^{2+}", E. Kim, N. Cho, J.J. Vittal, S. S.Lee, W.S. Han, J. H. Jung, *J. Nanosci. & Nanotech.* 10(8) (2010) 4914-4920

395. "A new ligand for metal-organic framework, co-crystal synthesis: Mechanochemical route to *rctt*-1,2,3,4-tetrakis-(4'-carboxyphenyl)-cyclobutane", G.K. Kole, L.L. Koh, S.Y. Lee, S.S. Lee, J.J. Vittal, *Chem. Commun.* 46(21) (2010) 3660-3662

394. "Fluorescent Coordination Polymeric gel from Tartaric Acid Assisted Self-Assembly" S.K. Batabyal, W.L. Leong, J.J. Vittal, *Langmuir* 26(10) (2010) 7464-7468

393. "Solid-State Synthesis of Coordination Polymers for [2+2] Photoreactions by Grinding," M. Nagarathinam, J.J. Vittal, *Austr. J. Chem.* 63(4) (2010) 585-595. (Invited article for Research Front issue on Crystal Engineering)

392. "Morphology controlled synthesis of $LiFePO_4$/C nanoplates for Li-ion batteries", K. Saravanan, P. Balaya, M.V. Reddy, B.V.R. Chowdari, J.J. Vittal, *Energy & Enviorn. Sci*. 3(4), (2010) 457-464

391. "Surprisingly stable ammonium ion complex of a non-cyclic crown-type polyether: solid, solution studies", K.-M. Park, H. J. Kim, S.-H. Moon, J.J. Vittal, J. H. Jung, S. S. Lee, *New J. Chem*., 34(4) (2010) 603–606 (from WCU Chair Professorship in S. Korea)

390. "Synthesis, crystal structures, DNA-binding properties, cytotoxic, antioxidation activities of several new ternary copper(II) complexes of N,N'-(p-xylylene)di-alanine acid, 1,10-phenanthroline", L. Jia, P. Jiang, J. Xu, Z.-Y. Hao a, X-M Xu, L.-H. Chen, J.-C. Wua, N. Tang, Q. Wang, J.J. Vittal, *Inorg. Chim. Acta* 363(5) (2010) 855-865

389. "Tadpole-Shaped $AgInSe_2$ Nanocrystals from a Single Molecular Precursor, its Nonlinear Optical Properties," L. Tian, M. T. Ng, N. Venkatram, W. Ji, J.J. Vittal, *Cryst. Growth & Des.* 10(3) (2010) 1237-1242

388. "Solvent-Dependent Networking of O_2S_2-Macrocycle with Silver Perchlorate into One-, Two-Dimensional Coordination Polymers," S. Y. Lee, J. H. Jung, J.J. Vittal, S. S. Lee, *Cryst. Growth & Des.* 10(3) (2010) 1033-1036. (from WCU Chair Professorship in S. Korea)

387. "Single-Crystal to Single-Crystal Photochemical Structural Transformations of Interpenetrated 3D Coordination Polymers by [2+2] Cycloaddition Reactions," M.H. Mir, L.L. Koh, G.K. Tan, J.J. Vittal, *Angew. Chem. Int. Ed*. 49(2) (2010) 390-393

386. "Photochemical [2+2] cycloaddition reaction of rare three-stranded ladder coordination polymer in the solid state", A.M.P. Peedikakkal, J.J. Vittal, *Inorg. Chem.* 49(1) (2010) 10-12

385. "Anion controlled Stereo-selective Synthesis of Cyclobutane Derivatives by Solid-state [2+2] Cycloaddition Reaction of the Salts of Trans-3-(4-pyridyl) Acrylic Acid," G.K. Kole, G.K. Tan, J.J. Vittal, *Org. Lett*, 12(1) (2010) 128-131

2009

384. "Shape-dependent nonlinear absorption, relaxation in $CuInS_2$ nanocrystals" N. Venkatram, S.K. Batabyal, L. Tian, J.J. Vittal, W. Ji, *Appl. Phy. Lett*. 95(20) (2009) 201109 (1-3) (Selected for the December 2009 issue of Virtual Journal of Ultrafast Science**)**

383. "Meso-scale Self-assembly of Highly Luminescent Zinc Tellurite Nanoclusters," S.K. Batabyal, N. Venkatram, W. Ji, J.J. Vittal, *Cryst. Growth & Des.* 9 (11) (2009), 4951-4956 (Cover Page)

382. "Hollow Nanospheres, Flowers of CuS from Self-Assembled Cu(II) Coordination Polymer, Hydrogen-bonded Complexes of N-(2-hydroxybenzyl)-L-serine" M. Nagarathinam, K. Saravanan, W.L. Leong, P. Balaya, J.J. Vittal, *Cryst. Growth & Des.* 9 (10) (2009) 4461-4470

381. "Phase Selective Synthesis of $CuInS_2$ Nanocrystals", S.K. Batabyal, L. Tian, N. Venkataram, W. Ji, J.J. Vittal, *J. Phys. Chem. C* 113 (33) (2009) 15037-15042

380. "Coordination Polymeric Nanofibers, their Field-Emission properties"
S. K. Batabyal, A.M.P. Peedikakkal, S. Ramakrishna, C.H. Sow, J.J. Vittal, *Macromol. Rapid. Commun.* 30 (15) (2009) 1356-1361

379. "Water Helicate, $(H_2O)_7$ Hosted by Diamondoid Metal–Organic Framework"
M. H. Mir, L. Wang, M. W. Wong, J.J. Vittal, *Chem. Commun.* (30) (2009) 4539-4541

378. "From Self-Assembled Cu(II) Coordination Polymer to Shape-Controlled CuS Nanocrystals"
M. Nagarathinam, J. Chen, J.J. Vittal, *Cryst. Growth & Des.*, 9 (5) (2009), 2457-2463

377. "Hydrogen-bonded Copper(II), Nickel(II) complexes, coordination polymeric structures containing reduced Schiff base ligands"
B. Sreenivasulu, J.J. Vittal, *Inorg. Chim. Acta* 362 (8) (2009) 2735-2743

376. *"*Zinc(II), Copper(II) 1D coordination polymeric complexes of a reduced Schiff base ligand"
L. Jia, N. Tang, J.J. Vittal, *Inorg. Chim. Acta* 362 (8) (2009) 2525-2528

375. "Synthesis, characterization of metal complexes of Calcein Blue: Formation of monomeric, ion-pair, coordination polymeric structures", W.L. Leong, J.J. Vittal, *Inorg. Chim. Acta* 362 (7) (2009) 2189-2199

374. "Formation of bilayer structure through face-to-face π···π interactions," L. Jia, N. Tang, J.J. Vittal, *J. Mol. Struc.* 920 (2009) 14-17

373. "Synthesis, Structure, Magnetism of Heterobimetallic Trinuclear Complexes $\{[L_2Co_2Ln][X]\}$ [Ln = Eu, X = Cl; Ln = Tb, Dy, Ho, X = NO_3; LH_3 = (S)P[N(Me)N=CH-C_6H_3-2-OH-3-OMe]$_3$]: A 3*d*-4*f* Family of Single-Molecule Magnets", V. Chandrasekhar, B.M. Pandian, J.J. Vittal & R. Clerac, *Inorg. Chem*. 48(3) (2009), 1148-1157

372. "Storage performance of $LiFePO_4$ nanoplates", K. Saravanan, M.V. Reddy, P. Balaya, G. Gong, B.V.R. Chowdari, J.J. Vittal, *J. Mater. Chem.* 19(5) (2009) 605-610 (Inside Cover page)

371. "Synthesis of NiS, MnS Nanocrystals from the Molecular Precursors [(TMEDA)M(SC{O}C_6H_5)$_2$] (M= Ni & Mn)", L. Tian, L.Y. Yep, T. T. Ong, J. Yi, J. Ding, J.J. Vittal, *Cryst. Growth & Des.* 9(1) (2009) 352-357

2008

370. "Stacking of double bonds for photochemical [2+2] cycloaddition reactions in the solid-state", M. Nagarathinam, A.M.P. Peedikakkal, J.J. Vittal, *Chem. Commun.* (42) (2008) 5277-5288 (Invited Feature article**)**

369. "Fluorescent Magnesium(II) Coordination Polymeric Hydrogel", W.L. Leong, S.K. Batabyal, S. Kasapis, J.J. Vittal, *Chem. – A Eur. J.* 14(29) (2008) 8822-8829 (Cover page)

368. "Axial-junction nanowires of Ag_2Te - Ag as a memory element" S.K. Batabyal, J.J. Vittal, *Chem. Mater*. 20(18) (2008) 5845–5850 (highlighted in *ChemInform*, Vo. 39, Issue 50, Dec. 9, 2008)

367. "Two-, Three-fold Interpenetrated Metal-Organic Frameworks from One-Pot Crystallization", M.H. Mir, S. Kitagawa, J.J. Vittal, *Inorg. Chem*. 47(17) (2008) 7728–7733.

366. "Fluorescence Enhancement of Coordination Polymeric Gel", W. L. Leong, A. Y.-Y. Tam, S. K. Batabyal, L. W. Koh, S. Kasapis, V.W.-W. Yam, J.J. Vittal, *Chem. Commun*. (31) (2008) 3628-3630 (inside Cover Page)

365. "Solid state photochemical [2+2] cycloaddition reaction in a hydrogen-bonded metal complex containing several parallel, criss-cross C=C bonds' A.M.P. Peedikakkal, J.J. Vittal, *Chem. – A Eur. J*. 14(17) (2008) 5329-5334

364. **"**Trinuclear Heterobimetallic Ni_2Ln complexes $[L_2Ni_2Ln][ClO_4]$ (Ln = La, Ce, Pr, Nd, Sm, Eu, Gd, Tb, Dy, Ho,, Er; LH_3 = (S)P[N(Me)NCH−C_6H_3-*2*-OH-*3*-OMe]$_3$): From Simple Paramagnetic Complexes to Single-Molecule Magnet Behavior", V. Chandrasekhar, B.M. Pandian, R. Boomishankar, A. Steiner, J.J. Vittal, A. Houri, R. Clérac, *Inorg. Chem*. 47 (11) (2008) 4918-4929

363. "Single-crystal to single-crystal transformation of cyclic water heptamer to another $(H_2O)_7$ cluster containing cyclic pentamer" M. H. Mir, J.J. Vittal, *Cryst. Growth & Des*. 8(5) (2008) 1478-1480

362. "Water aggregates hosted by the metal complexes of reduced Schiff base, related ligands" B. Sreenivasulu, J.J. Vittal, *Synthesis, Reactivity in Inorganic, Metal-Organic, Nano-metal Chem.* 38(1) (2008) 118-124 (invited for the special issue on water clusters).

361. "Morphology-Controlled Synthesis of Bi_2S_3 Nanomaterials via Single, Multiple Source Approaches" L. Tian, H. Y. Tan, J.J. Vittal, *Cryst. Growth & Des*. 8(2) (2008) 734-738

360. "Molecular fabric structure formed by 1D coordination polymer, $[Pb(bpe)(O_2CCH_3)(O_2CCF_3)]$" A.M.P. Peedikakkal, J.J. Vittal, *Cryst. Growth & Des*. 8(2) (2008) 375-377

359. "Photochemical [2+2] cycloaddition as a tool to study solid state structural transformation" M. Nagarathinam, J.J. Vittal, *Chem. Commun*. (2008) 438-440 (back-to-back issue & one of the top 10 most accessed articles in January 2008 from the website)

358. "Photodimerization of 1D hydrogen-bonded zwitter-ionic lead(II) complex, its isomerization in solution" A.M.P. Peedikakkal, J.J. Vittal, *Chem. Commun*. (2008) 441-443 (back-to-back issue & Cover page)

2007

357. "Synthesis, electronic spectroscopy of luminescent cyclometalated platinum-anthracenyl complexes" J. Hu, R. Lin, J.H.K. Yip, K.Y. Wong, D.L. Ma, J.J. Vittal, *Organometallics* 26 (26) (2007) 6533-6543

356. "Supramolecular interactions in [2,2'-bipy)M(SeC{O}Ph)$_2$]", Z. Lu, J.J. Vittal, *Synthesis, Reactivity in Inorganic, Metal-Organic, Nano-metal Chem.* 37 (2007) 797-800 (invited for the special issue dedicated to Herbert Roesky)

355. "Synthesis, characterization of ternary $AgInS_2$ nanocrystals by dual-, multiple-source methods" L. Tian, J.J. Vittal, *New J. Chem*. 31(12) (2007) 2083-2087

354. "Self-assembly of ion-pair complexes", W.L. Leong, J.J. Vittal, *Cryst. Growth & Des*. 7(10) (2007) 2112-2116

353. "Phase Transition Accompanied by Transformation of an Elusive Discrete Cyclic Water Heptamer to a Bicyclic $(H_2O)_7$ Cluster" M.H. Mir, J.J. Vittal, *Angew. Chem. Int. Ed*. 46 (2007) 5925-5928 (inside cover page)

352. "Linear Trinuclear Mixed-Metal CoII-GdIII-CoII Single-Molecule Magnet: $[L_2Co_2Gd][NO_3]$. $2CHCl_3$ (LH_3 = (S)P[N(Me)N:CH-C_6H_3-2-OH-3-OMe]$_3$)" V. Chandrasekhar, B.M. Pandian, R. Azhakar, Ramachandran, J.J. Vittal, R. Clerac, *Inorg. Chem*. 46(13) (2007), 5140-5142

351. "$AgInSe_2$ nanorods: A semiconducting material for saturable absorber" H.I. Elim, W. Ji, M.T. Ng, J.J. Vittal, *App. Phys. Lett*. 90 (2007) 033106 (1-3) (highlighted in the Virtual Journal of Nanoscale Science & Technology, January 29, 2007 issue, Virtual Journal of Ultrafast Science, February 2007)

2006

350. "New hetero-bimetallic, polymeric selenocarboxylates derived from $[M(SeC\{O\}Ph)_4]^{2-}$ (M = Ga, In) as molecular precursors to ternary selenides" M.T. Ng, J.J. Vittal, *Inorg. Chem*. 45 (2006) 10147-10154

349. "One pot synthesis, third-order nonlinear optical properties of $AgInS_2$ nanocrystals" L. Tian, H. I. Elim, W. Ji, J.J. Vittal, *Chem. Commun*. (2006) 4276-4278. (Cover page)

348. "Syntheses, structures of $[M\{In(SC\{O\}Ph)_4\}_2]$ (Mg & Ca): Single molecular precursors to MIn_2S_4 materials" L. Tian, W.H. Lye, T.C. Deivaraj, J.J. Vittal, *Inorg. Chem*. 45 (2006) 8258-8263

347. "One Dimensional Coordination Polymers: Cu(II), Zn(II) Complexes of *N*-(2-pyridylmethyl)-glycine, *N*-(2-pyridylmethyl)-*L*-alanine" X. Wang, R.D. Ranford, J.J. Vittal, *J. Mol. Struct*. 796 (2006) 28-35 (Special issue on Coordination Polymers)

346. "Syntheses, Structures, Properties of Copper(II) Complexes Containing *N*-(2-Hydroxybenzyl)-Amino Amide Ligands" X. Wang, J. Ding, J.J. Vittal, *Inorg. Chim. Acta* 359 (2006) 3481-3490. (Invited paper for the special issue dedicated to Prof. Mike Mingos)

345. "A Rational Approach to Cross-linking of Coordination Polymers by Photochemical [2+2] Cycloaddition Reaction," M. Nagarathinam, J.J. Vittal, *Macromolecular Rapid Commun.* 27 (2006) 1091-1099. (Invited feature article & back cover page)

344. "Synthesis, Structures, Catecholase Activity of New Series of Dicopper(II) Complexes of reduced Schiff Base Ligands" B. Sreenivasulu, F. Zhao, S. Gao, J.J. Vittal, *Eur. J. Inorg. Chem*. (2006) 2656-2670

343. "Anisotropic Movements of Coordination Polymers upon Desolvation: Solid-state Transformation of Linear 1D Coordination Polymer to Ladder-like Structure" M. Nagarathinam, J.J. Vittal, *Angew. Chem. Int. Ed*. 45 (2006) 4337-4341

342. "Asymmetric Synthesis of a P-chiral heteroditopic P⌒P=S ligand via chiral metal template promoted cycloaddition between 3,4-dimethyl-1-phenylphosphole, its sulfonated analog" S.A. Pullarkat, K.-W. Tan, M. Ma, G.-K. Tan, L.L. Koh, J.J. Vittal, P.-H. Leung, *J. Organomet. Chem*. 693 (2006) 3083-3088

341. "One Pot Synthesis of New Phase $AgInSe_2$ Nanorods" M. T. Ng, C. B. Boothroyd, J.J. Vittal, *J. Amer. Chem. Soc*. 128 (2006) 7118-7119

340. "Inorganic complexes retain diethylether well above its boiling point through $OH_2\cdots OEt_2$ hydrogen bonding" L. Tian, J.J. Vittal, *Cryst. Growth & Des*. 6(4) (2006) 822-824

339. "A simple way to prepare PbS nanocrystals with morphology tuning at room temperature" Z. Zhang, S.H. Lee, J.J. Vittal, W.S. Chin, *J. Phys. Chem*. B 110(13) (2006) 6649-6654

338. "Synthesis, structure, magnetic properties of $[Li(H_2O)M(N_2H_3CO_2)_3]\cdot 0.5H_2O$ (M = Co,Ni) as single precursors to $LiMO_2$ battery materials" S.L.Tey, M.V. Reddy, G.V. Subba Rao, B.V.R. Chowdari, J. Yi, J. Ding, J.J. Vittal, *Chem. Mater*. 18 (2006) 1587-1594

337. "La_2S_3 Thin Films from Metal Organic Chemical Vapor Deposition of Single-source Precursor" L. Tian, T. Ouyang, K.P. Loh, J.J. Vittal, *J. Mater. Chem*. 16 (2006) 272-277. (Hot paper)

2005

336. "Stereochemical Investigations of a Novel Class of Chiral Phosphapalladacycle Complexes Derived from 1-[(2,5-Dimethyl)phenyl]ethyldiphenylphosphine" J.K.-P. Ng, Y. Li, G.-K. Tan, L.-L. Koh, J.J. Vittal, P.-H. Leung, *Inorg. Chem*. 44 (2005) 9874-9886

335. "Crystal structures, characterizations of (Nitrato-O) (Nitrato-O,O′)(η^6-Hexamethylbenzene) Ruthenium(II), Di(Trifluoroacetato-O)(H_2O-O)(η^6-Hexamethylbenzene) Ruthenium(II)" X. L. Lu, W. K. Leong, L. Y. Goh, T. S. A. Hor, J.J. Vittal, *Synthesis, Reactivity in Inorganic, Metal-Organic, Nano-metal Chem.* 35 (2005) 743-746

334. "Copper(II) Complexes of Schiff Base, Reduced Schiff Base Ligands: Influence of Weakly Coordinating Sulfonate Groups on the Structure, Oxidation of 3,5-DTBC" B. Sreenivasulu, M. Vetrichelvan, F. Zhao, S. Gao, J.J. Vittal, *Eur. J. Inorg. Chem*. (2005) 4635-4645

333. "Organooxotin Cages, $\{[(n\text{-}BuSn)_3(\mu_3\text{-}O)(OC_6H_4\text{-}4\text{-}X)_3]_2[HPO_3]_4\}$, X = H, Cl, Br, I, in Double O-Capped Structures: Halogen-Bonding-Mediated Supramolecular Formation" V. Chandrasekhar, V. Baskar, K. Gopal, J.J. Vittal, *Organometallics* 24 (21) (2005) 4926-4932

332. "Square planar versus tetrahedral NiS_4 cores in the coordination spheres of (HMB)Ru(II), Cp^*Ru(III), a related CuS_4 complex. Synthetic, single-crystal X-ray diffraction, magnetic studies {HMB = η^6-C_6Me_6, Cp^* = η^5-C_5Me_5}" R.Y.C. Shin, M.E. Teo, G.K. Tan, L.L. Koh, J.J. Vittal, L.Y. Goh, *Organometallics* 24 (17) (2005) 4265-4273

331. "Shape, size control of Ag2Se nanocrystals from single precursor $[(Ph_3P)_3Ag_2(SeC\{O\}Ph)_2]$," M.T. Ng, C. Boothroyd, J.J. Vittal, *Chem. Commun.* (2005) 3820-3822. (Hot paper)

330. "Synthesis, crystal structure of 5-(4'-carboxyphenyl)-10,15,20-tri(4'-t-butylphenyl)porphinato zinc(II) complex" P. Bhyrappa, C. Arunkumar, J.J. Vittal, *J. Chem. Sci. (Bangalore, India)* 117(2) (2005) 139-143

329. "Topochemical photodimerization in the molecular ladder metal coordination polymer $[\{(CF_3CO_2)(\mu\text{-}O_2CCH_3)Zn\}_2(\mu\text{-bpe})_2]_n$ (where bpe = 4,4'-bipyridylethelene) via single-crystal to single-crystal transformation" N.L. Toh, M. Nagarathinam, J.J. Vittal, *Angew. Chem. Int. Ed*. 44 (2005) 2237-2241 (Cover page)

328. "Reactivity of $[CpCr(CO)_3]_2$ towards thione (CS) moieties in some sulfur-containing substrates" V.W.L. Ng, S.L. Kuan, Z. Weng, W.K. Leong, J.J. Vittal, L.L. Koh, G.K. Tan, L. Y. Goh, *J. of Organomet. Chem*. 690(9) (2005) 2323-2332

327. "S-Alkylation-Induced Redox Reactions Leading to Reversible Sulfur-Sulfur Coupling in a Pentamethylcyclopentadienyl Ruthenium(III) Thiolate-Thioether System" R.Y.C. Shin, M.E. Teo, W.K. Leong, J.J. Vittal, J.H.K. Yip, L.Y. Goh, R.D. Webster, *Organometallics* 24(7) (2005) 1483-1494

326. "$CpCr(CO)_3$-initiated N-N bond cleavage in a thiotetrazole ligand in a cyclopentadienylchromium complex", V. W. L. Ng, Z. Weng, J.J. Vittal, L.L. Koh, G.K. Tan, L.Y. Goh, *J. Organometallic Chem*. 690(5) (2005) 1157-1165

325. "Synthesis, characterization, biological acitivity of dioxouranium(VI) complexes of acyldipyridoxal hydrozones", C.-T. Yang, J.D. Ranford, J.J. Vittal, *Synthesis, Reactivity in Inorganic, Metal-Organic, Nano-metal Chem.* 35(1) (2005) 71-78

324. "Metallophilicity in Annular Ru_2M_2 derivatives of (HMB)Ru^{II}(tpdt) versus (Bis)-η2-dithiolate bonding in Ru_2M derivatives of $CpRu^{III}$(tpdt) (HMB = η^6-C_6Me_6; Cp = η^5-C_5Me_5; M = Cu^I, $Ag^{I,II}$, Au^I; tpdt = 3-thiapentane-1,5-dithiolate)"
R.Y.C. Shin, G.K. Tan, L.L. Koh, J.J. Vittal, L.Y. Goh, R.D. Webster, *Organometallics* 24(4) (2005) 539-551

323. "Hydrogen bonding, alkyl chain crystallization, constitutional isomerism in solid-state self-assembly of dodecyloxyisophthalic acid complexes"
B. Venkataramanan, Z. Ning, J.J. Vittal, S. Valiyaveettil, *CrystEngComm*. 7(16) (2005) 108-112

322. "Photoluminescent Coordination Polymers of d10 Metals with 4,4'-Dipyridylsulfide (dps)"
S. Muthu, Z. Ni, J.J. Vittal, *Inorg. Chim. Acta* 358(3) (2005) 595-605

321. "Influence of C=O···π interaction on the thermal dehydration behavior of $[Cu_2(Sgly)_2(H_2O)]\cdot H_2O$"
X.D. Yang, D. Wu, J.D. Ranford, J.J. Vittal, *Cryst. Growth & Des*. 5(1) (2005) 41-43

2004

320. "Electronic communication mediated by metal clusters" J.H.K. Yip, J. Wu, K.-Y. Wong, P. Kam, C. S.-N. Pun, J.J. Vittal, *J. Chinese Chem. Soc. (Taipei, Taiwan)* 51(5B) (2004) 1245-1252

319. "Water-soluble CdS quantum dots prepared from refluxing single precursor in aqueous solution"
Z.H. Zhang, W.S. Chin, J.J. Vittal, *J. Phys. Chem*. B 108 (2004) 18569-18574.

318. "A New polymorph of 4-pyridinethione containing a helical assembly based on N-H···S hydrogen bonds" S. Muthu, J.J. Vittal, *Cryst. Growth & Des*. 4 (2004) 1181-1184

317. "A surface chemistry route to Molybdenum sulfide, Germanide films using the single-source precursor Tetrakis(diethylaminodithiocarbamato)molybdnate(IV)"
T. Ouyang, K.P. Loh, H. Zhang, H. Zhang, J.J. Vittal, M. Vetrichelvan, W. Chen, X. Gao, A.T.S. Wee, *J. Phys. Chem*. B, 108 (2004) 17537-17545

316. "Helix inside a Helix: Encapsulation of Hydrogen-bonded Water Molecules inside a Staircase Coordination Polymer" B. Sreenivasulu, J.J. Vittal, *Angew. Chem. Int. Ed*. 43 (2004) 5769-5772. (Highly cited paper – Essential Science Indicators, Nov. 2008)

315. "Hydrogen-bonded Polyrotaxane-like structure containing cyclic $(H_2O)_4$ in $[Zn(OAc)_2(\mu\text{-bpe})]\cdot 2H_2O$: X-Ray, Neutron Diffraction Studies" M.T. Ng, T.C. Deivaraj, W.T. Klooster, G.J. McIntyre, J.J. Vittal, *Chem. Eur. J*. 10 (2004) 5853-5859

314**.** **"**Inhibition of the Human CCR5 Receptor by Variecolin, the Isolation of Four New Variecolin Analogues from the Fungus F31149", K. Yoganathan, C. Rossant, R. P.Glover, S. Cao, J.J. Vittal, S. Ng, Y. Huang, A. D. Buss, M. S. Butler, *J. Nat. Prod*. 67 (2004) 1681-1684

313. "Study on carbon-hydrogen activation of ketones by Gold(III) complexes, the synthesis, characterization of two ketonylgold(III) complexes" D. Fan, E. Melèndez, J.D. Ranford, P.F. Lee, J.J. Vittal, *J. Organomet. Chem*. 689 (2004) 2969-2974

312. "Synthesis, structure, solution NMR properties of $(Ph_4P)[M(SeC\{O\}Tol)_3]$ (M = Zn, Cd, Hg)"
M.T. Ng, P.A.W. Dean, J.J. Vittal, *Dalton Trans.* (2004) 2890-2894

311. "A hexacoordinated aluminium complex with a new type of seven-member chelate ring involving a cyclic phosphate ester"
N. Satish Kumar, J.J. Vittal, K.C.K. Swamy, *Acta Crystallogr. E* 60 (2004) m1321-m1323

310. "Self-assembly of Methacrylamides Assisted by an Interplay of N-H···O, C-H···O, C-H···π, π-π Interactions" B. Venkataramanan, M.A. Saifudin, J.J. Vittal, S. Valiyaveettil, *CrystEngComm.* 6(49)(2004) 284-289

309. "Syntheses of Core-modified corroles by three different [3+1] methodologies" J. Sankar, H. Rath, V. Prabhu Raja, T.K. Chandrashekar, J.J. Vittal, *J.Org. Chem*. 69 (2004) 5135-5138

308. "Isomerism in 1D Coordination Polymers of Cu(II) Complexes of *N*-(2-hydroxybenzyl)-L-valine: Influence of Solvent, Coordination Sphere on the Conformation"
X. Yang, J.D. Ranford, J.J. Vittal, *Cryst. Growth & Des*. 4(4) (2004) 781-788

307. "Chiral metal template promoted asymmetric pyrrole Diels-Alder reaction between N-(diphenylphosphino)pyrrole, diphenylvinylphosphine" W.-C. Yeo, J.J. Vittal, L.L. Koh, G.-K. Tan, P.-H. Leung, *Organometallics* 23(14) (2004) 3474-3482

306. "Cooperative reactivity studies of dppf-containing $CpRu^{II}$, $(C_6Me_6)Ru^{II}$ complexes towards different donor ligands (dppf = 1,1'-bis(diphenylphosphino)ferrocene)"
X.L. Lu, J.J. Vittal, E.R.T. Tiekink, G.K. Tan, S.L. Kuan, L.Y. Goh, T.S.A. Hor, *J. Organomet. Chem*. 689(11) (2004) 1978-1990

305. "Chloride substitution of [CpRu(dppf)Cl] with sulfur-containing ligands" X. L. Lu, J.J. Vittal, E.R.T. Tiekink, L.Y. Goh, T.S.A. Hor, *J. Organomet. Chem*. 689(9) (2004) 1444-1451

304. "Synthesis, solid-state self-assembly of polyphenols" B. Venkataraman, W.L.G. James, J.J. Vittal, S. Valiyaveettil, *Cryst. Growth & Des*. 4(3) (2004) 553-561

303. "Diverse Modes of Reactivity of Dialkyl Azodicarboxylates with P(III) Compounds: Synthesis, Structure, Reactivity of Products Other than the Morrison-Brunn-Huisgen Intermediate in a Mitsunobu-Type Reaction" N.S. Kumar, K.P. Kumar, K.V.P.P. Kumar, P. Kommana, Praveen; J.J. Vittal, K.C.K. Swamy, *J. Org. Chem*. 69(6) (2004) 1880-1889

302. "Electronic interactions in dinuclear platinum, palladium ethynylferrocene, ferrocenylvinylidene complexes" J.H.K. Yip, J. Wu, K.-Y.Wong, K.P. Ho, L.L. Koh, J.J. Vittal, *Eur. J. Inorg. Chem*. (2004) 1056-1062

301. "Indium(III) chloride catalyzed in situ generation of enamines, cyclization with imines: a novel route for synthesis of hexahydroxanthene-9-N-arylamines"
M. Anniyappan, D. Muralidharan, P.T. Perumal, J.J. Vittal, *Tetrahedron* 60(3) (2004) 2965-2969

300. "Coordination chemistry of the metalloligand $[Pt_2(\mu\text{-}S)_2(PPh_3)_4]$ with nickel(II) complexes - an electrospray mass spectrometry directed synthetic study" S.-W. A. Fong, T.S.A. Hor, J.J. Vittal, W. Henderson, S. Cramp, *Inorg. Chim. Acta* 357(4) (2004) 1152-1160

299. "Synthesis, structure of cyclic hexanuclear oxo-alkoxo-carboxylatoniobium(IV) complexes"
B.-L. Ooi, I. Søtofte, J.J. Vittal, *Inorg. Chim. Acta* 357 (2004) 625-629

298. "Does a sterically bulky group occupy the equatorial site in trigonal bipyramidal phosphorus?"
P. Kommana, S.S. Kumar, J.J. Vittal, E.G. Jayasree, E.D. Jemmis, K.C. K. Swamy, *Org. Lett*. 6(2) (2004) 145-148

297. "Syntheses, structural properties, catecholase activity of copper(II) complexes with reduced Schiff base *N*-(2-hydroxybenzyl)-amino acids" C.-T. Yang, M. Vetrichelvan, X. Yang, B. Moubaraki, K. S. Murray, J.J. Vittal, *Dalton Trans*. (2004) 113-121

2003

296. "Highly brominated porphyrins: synthesis, structure, their properties"
P. Bhyrappa, B. Purushothaman, J.J. Vittal, *J. Porphyrins, Phthalocynanines* 7 (2003) 682-692

295. "Structural dynamics, ligand mobility in carboxylate, dithiocarbamate complexes of Ru(II) containing 1,1'-bis(diphenylphosphino)ferrocene (dppf)" X.L. Lu, S.Y. Ng, J.J. Vittal, G.K. Tan, L.Y. Goh, T. S. A. Hor, *J. Organomet. Chem.* 688(1-2) (2003) 100-111

294. "Chemical, biological studies of gold(III) complexes with uninegative bidentate N–N ligands" D. Fan, C.-T. Yang, J. D. Ranford, J.J. Vittal, *Dalton Trans*. (24), (2003) 4749-4753

293. "Optical resolution, the study of ligand effects on the ortho-metalation reaction of resolved (±)-Diphenyl[1-(1-naphthyl)ethyl]phosphine, its arsenic analogue" J. K.-P. Ng, G.-K. Tan, J.J. Vittal, P.-H. Leung, *Inorg. Chem*. 43 (2003) 7674-7682

292. "A urea-incorporated receptor for aromatic carboxylate anion recognition" A. Fan, H.K. Hong, S. Valiyaveettil, J.J. Vittal, *J. Supramol. Chem*. 2 (2003) 247-254

291. "Synthesis, characterization, physicochemical properties of copper(II) complexes containing salicylaldehyde semicarbazone" P.F. Lee, C.-T.Yang, D. Fan, J.J. Vittal, J.D. Ranford, *Polyhedron* 22 (2003) 2781-2786

290. "Synthesis, characterization, biological activities of 2-phenylpyridine gold(III) complexes with thiolate ligands." D. Fan, C.-T. Yang, J.D. Ranford, J.J. Vittal, P.F. Lee, *Dalton Trans*. (2003) 3376-3381

289. "A metal coordination polymer with hexagonal diamondoid (or Lonsdaleite) network topology" B. Sreenivasulu, J.J. Vittal, *Cryst. Growth & Des*. 3 (2003) 635-637

288. "Asymmetric Synthesis, Coordination Chemistry of Bidentate P-Stereogenic Phosphines Containing Ester, Thionoester Functionalities." Y. Qin, H. Lang, J.J. Vittal, G.K. Tan, S. Selvaratnam, A.J.P. White, D.J. Williams, P.H. Leung, *Organometallics* 22 (2003) 3944-3950

287. "Nature of the reactants, influence of water on the supramolecular assembly" X. Wang, J.J. Vittal, *Inorg. Chem*. 42 (2003) 5135-5142

286. 'The 3-thiapentane-1,5-dithiolato-hexamethylbenzene ruthenium(II) complex as a metalloligand to Group 14 elements" R. Y.C. Chin, J.J. Vittal, Z-Y. Zhou, L.L. Koh, L.Y. Goh, *Inorg. Chim. Acta* 352 (2003) 220-228

285. "Asymmetric synthesis, the coordination chemistry of a P-chiral diphosphine monoxide" T.-W. Teo, S. Selvaratnam, J.J. Vittal, P.-H. Leung, *Inorg. Chim. Acta* 352 (2003) 213-219

284. "First Examples of AuI-X-AgI Halonium Cations (X = Cl, Br)" K. Zhang, J. Prabhavathy, J.H.K. Yip, L.L. Koh, G.K. Tan, J.J. Vittal, *J. Amer. Chem. Soc*. 125 (2003) 8452-845

283. "Interplay of weak interactions, structural features in the solid state self-assembly of symmetric diamides" Z. Feng, A. Fan, S. Valiyaveettil, J.J. Vittal, *Cryst. Growth & Des*. 3 (2003) 555-565

282. "Syntheses, Characterization, Thermal Properties of $[M(Spy)_2(SpyH)_2]$ (M = Cd, Hg; Spy^- = pyridine-4- thiolate; SpyH = pyridinium-4-thiolate)), $[M(SpyH)_4](ClO_4)_2$ (M = Zn, Cd, Hg) K. S. Anjali, J.J. Vittal, P. A. W. Dean, *Inorg. Chim. Acta* 351 (2003) 79-88

281. "Self-assembly of a 1D helical coordination polymeric lead(II) complex with Pb..O(perchlorate)..Pb scaffoldings" X. Wang, J.J. Vittal, *Inorg. Chem. Commun*. 6 (2003) 1074-1077

280. "Bimetallic complexes supported by bis(diphenylphosphino)methane *anti*, *syn* to the Mn-Pd bonds" Y. Liu, S. W. Chien, S. B. Koh, J.J. Vittal, T. S. A. Hor, *Inorg. Chim. Acta* 350 (2003) 86-92

279. "Chemical, biological studies of the dichloro (2-phenylpyridine) gold(III) complex, its derivatives"

D. Fan, C.-T. Yang, J.D. Ranford, P. F. Lee, J.J. Vittal, *Dalton Trans*. (2003) 2680-2685

278. "Synthesis, characterization, properties of copper(II) complexes containing *N,N*-di-(2-pyridylmethyl)-glycine, alanine"
K.W. So, C.-T. Yang, J.J. Vittal, J.D. Ranford, *Inorg. Chim. Acta* 349 (2003) 135-141

277. "Novel Bimetallic Thiocarboxylate Compounds as Single Source Precursors to Binary, Ternary Metal Sulfide Materials", T. C. Deivaraj, J.-H. Park, M. Afzaal, P.O'Brien, J.J. Vittal, *Chem. Mater.* 15 (2003) 2383-2391

276. "Influence of the Li^+ on the structure of $[Cu_3(phis)_3]^{3+}$ cation"
J.J.Vittal, X. Wang, J.D. Ranford, *Inorg. Chem*. 42 (2003) 3390-3392

275. "A rational approach to the design, synthesis of chiral organopalladium-amine complexes"
Y. Li, S. Selvaratnam, J.J. Vittal, P.-H. Leung, *Inorg. Chem*. 42 (2003) 3229-3236

274. "Structure, magnetic properties of a neutral dimeric Copper(II) complex of N-(2-hdroxybenzyl) glycinamide ligand"
X. Wang, J. Ding, J.D. Ranford, J.J. Vittal, *J. Appl. Physics* 93 (2003) 7819-7821

273. "Self-Assembly of heptanuclear Zinc(II) clusters linked by angular space ligands"
M.T. Ng, T.C. Deivaraj, J.J. Vittal, *Inorg. Chim. Acta*, 348 (2003) 173-178

272. "Trialkyl Ammonium Salts of $[M(SC\{O\}R)_4]^-$ ($M = Ga^{3+}$, In^{3+}) as Precursors for Metal Sulfide Thin Films"
T.C. Deivaraj, M. Lin, K.P. Loh, M. Yeadon, J.J. Vittal, *J. Materials Chem*. 13 (2003) 1149-1155

271. "Hydrothermal synthesis, structural characterisation of a vanadium (V) borophosphate cluster containing solid: $[Co(en)_3][enH_2]\{V_3BP_3O_{19}\}.5H_2O$"
M.Asnani, A. Ramanan, J.J. Vittal, *Inorg. Chem. Commun*. 6 (2003) 589-592

270. "Phosphinidene-, phosphido-bridged complexes from a η^2-arylthioxophosphane cyclopentadienyl-chromium complex"
Z. Weng, W.K. Leong, J.J. Vittal, L.Y. Goh, *Organometallics* 22 (2003) 1657-1662

269. "Complexes from ring opening of Lawesson's reagent, phosphorus-phosphorus coupling"
Z. Weng, W.K. Leong, J.J. Vittal, L.Y. Goh, *Organometallics* 22 (2003) 1645-1656

268. "Monohelical self-assembly of 5-alkoxyisophthalamides"
A. Fan, S. Valiyaveettil, J.J. Vittal, *CrystEngComm*. 5 (2003) 38-41

267. "Synthesis, structures of novel bis-, tetrakis-cyclodiphosphazane compounds appended to a diol or a tetraol", P. Kommana, J.J. Vittal, K.C.K. Swamy, *Polyhedron*, 22 (2003) 843-847

266. "A new structural form of Tin in a double O-capped cluster"
V. Chandrasekhar, V. Baskar, J.J. Vittal, *J. Amer. Chem. Soc*. 125 (2003) 2392-2393

265. "Syntheses, the stereoelectronic properties of novel cyclopalladated complexes derived from enantiomerically pure (R/S)-N,N-dimethyl-1-(9-phnanthryl) ethylamine", Y. Li, H.-H. Ng, S. Selvaratnam, G.-K. Tan, J.J. Vittal, P.-H. Leung, *Organometallics* 22 (2003) 834-842

264. Synthesis, Characterization, Properties of Ternary Copper(II) Complexes Containing Reduced Schiff Base *N*-(2-Hydroxybenzyl)-α-Amino Acids, 1,10-Phenanthroline"
C.T. Yang, B. Moubaraki, K. S. Murray, J.J. Vittal, *Dalton Trans*. (2003) 880-889

263. "Synthesis, structural behavior of ternary copper(II) complexes containing reduced Schiff base *N*-(2-hydroxybenzyl)-4-aminobutyric acid, 1,10-phenanthroline"
C.T. Yang, J.J. Vittal, *Inorg. Chim. Acta* 344 (2003) 65-76

262. “Coordination polymers of Zinc, Cadmium Thiocarboxylates with 4,4’-Bipyridine Ligands “ J.J. Vittal, J.T. Sampanthar, Z. Lu, *Inorg. Chim. Acta* 343 (2003) 224-230

261. "Facile Metal-mediates synthesis of macrocyclic diselenoethers" J.S.L. Yeo, J.J. Vittal, T.S.A. Hor, *Eur. J. Inorg. Chem*. (2003) 277-280

2002

260a. “Single-Source approach for the growth of I-III-VI thin films” M. Afzaal, T.C. Deivaraj, P. O’Brien, J.-H. Park, J.J. Vittal, *Mat. Res. Soc. Symp. Proc*. (2002) 730, V5.22.1-V5.22.6

260. “Group 11, 13 Metal thiocarboxylate compounds as single source molecular precursors for bulk metal sulphide materials, thin films” J.J.Vittal, T.C. Deivaraj, *Progress in Crystal Growth, Characterization of Mater.* 45 (2002) 21-27

259. “Cyclic thioether, acyclic thioether-thiolate complexes of pentamethylcyclopentadienyl ruthenium (II, III)” L.Y. Goh, M.E. Teo, S.B. Khoo, W.K. Leong, J.J. Vittal, *J. Organomet. Chem.* 664 (2002)161-169

258. “Coordination networks of Ag(I), N,N’-(3-pyridine carboxaide)-1,6-hexane: structures, anion exchange” S. Muthu, J.H.K. Yip, J.J. Vittal, *Dalton Trans*. (2002) 4561-4568

257. "Synthetic, structural, electrochemical, theoretical studies of heterometallic aggregates with $[Pt_2(\mu\text{-}S)_2M]$ core (M = Hg, Au)" X. Xu, S.-W.A. Fong, Z. Li, Z.-H. Loh, F. Zhao, J.J. Vittal, W. Henderson, S.-B. Khoo,, T.S.A. Hor, *Inorg. Chem*. 41 (2002) 6838-6845

256. “Organopalladium complex promoted asymmetric cycloaddition reactions involving 3,4-dimethyl-1-phenylphosphole-1-sulfide as the heterocyclic diene” Q. Ying, S. Selvaratnam, J.J. Vittal, P.H. Leung, *Organometallics* 21 (2002) 5301-5306

255. “Electronic communication mediated by a Pt^{I}-Pt^{I} σ-bond” J.H.K. Yip, J. Wu, K.-Y. Wong, K. P. Ho, S.-N. Christine, J.J. Vittal, *Organometallics* 21 (2002) 5292-5300

254. “An organometallic radical route to bis(phosphido)-, hydrido-phosphido-bridged metal-metal-bonded complexes of cyclopentadienylchromium via desulfurization of thiophosphinito ligands” L.Y. Goh, Z. Weng, W.K. Leong, J.J. Vittal, I.H. Haiduc, *Organometallics* 21 (2002) 5287-5291

253. “Nucleophilicity of the selenide ligands in $[Pt_2(\mu\text{-}Se)_2(PPh_3)_2]$. Molecular assembly of novel $\{In_2Pt_4Se_6\}$ core.” J.S.L. Yeo, J.J. Vittal, W. Henderson, T.S.A. Hor, *J. Organomet. Chem*. 659 (2002) 92-94

252. “Isolation, structural characterization of some stable Pd(II) carboxylate complexes supported by 1,1’-bis(diphenylphosphino) ferrocene (dppf).” Y.C. Neo, J.S.L. Yeo, P.M.N. Low, S.W. Chien, T.C.W. Mak, J.J. Vittal, T.S.A. Hor, *J. Organomet.Chem*. 658 (2002) 159-168

251. “Synthesis, X-ray structures, cytotoxicity of rhenium(I) carbonyl 2-(dimethylamino)ethoxide complexes” W. Wang, Y.K. Yan, T.S.A. Hor, J.J. Vittal, J.R. Wheaton, I. H. Hall, *Polyhedron* 21 (2002) 1991-1999

250. “Solid-state self-assembly of 1,4-bis(2-carboxybenzyloxy)benzene in the presence, absence of aromatic amines” R. Liu, S. Valiyaveettil, K.-F. Mok, J.J. Vittal, A.K.M. Hoong, *CrystEngComm*. 4 (2002) 574-579

249. “New allylphosphonate derived from $(OCH_2CMe_2CH_2O)PCl$, Baylis-Hilman adducts – Stereochemistry, utility” C. Muthiah, K. Senthil Kumar, J.J. Vittal, K.C. K. Swamy, *Synlett*, (2002) 1787-1790

248. "Synthesis, structure of *Trans-anti*-[Hg(μ-SePh)(SePh)(P{*c*-C_6H_{11}}$_3$)]$_2$"
P.A.W. Dean, J.J. Vittal, *Main Group Metal Organic Chem*. 25 (2002) 697-698

247. "Synthesis, structure of *Cis-syn*-[Cd(μ-SEt)(S_2CSEt)(P{c-C_6H_{11}}$_3$)]$_2$"
P.A.W. Dean, J.J. Vittal, *Main Group Metal Organic Chem.* 25 (2002) 695-696

246. "Synthesis, structure of Cd(κ^2-S_2CS-*c*-C_6H_{11})$_2$(P{*c*-C_6H_{11}}$_3$)."
P.A.W. Dean, J.J. Vittal, *Main Group Metal Organic Chem.* 25 (2002) 693-694

245. "Ligand functionalization, reactivity, transformation at the selenide centers of [Pt_2(μ-Se)$_2$(PPh_3)$_4$] with organic halides"
J.S.L. Yeo, J.J. Vittal, W. Henderson, T.S.A. Hor, *Organometallics* 21 (2002) 2944-2949

244. "Pentacoordinate phosphoranes with reversed apicopilicity as stable intermediates in a Mitsunobu-type reaction"
N. Satish Kumar, P. Kommana, J.J. Vittal, K.C.K. Swamy, *J. Organic Chem*. 67 (2002) 6653-6658

243. "Cleavage of homometallic, formation of heterometallic M-M bonds. Serendipitous syntheses of bimetallic MnPd(μ-PPh_2)(CO)$_4$(η^2-P-P) (P-P = dppm, dppe, dppf), polymetallic Mn_2Pd_2Ag(μ-PPh_2)$_2$(μ-dppm)(CO)$_8$"
Y. Liu, K.H. Lee, J.J. Vittal, T.S.A. Hor, *J. Chem. Soc. Dalton. Trans*. (2002) 2747-2751

242. "Synthesis, structural characterization, photoluminescence, thermal properties of [(Ph_3P)$_2$Cu(μ-SeC{O}R)$_2$Cu(PPh_3)]"
Z. Lu, W. Huang, J.J. Vittal, *New J. Chem*. 26 (2002) 1122-1129

241. "Organometallic radical-initiated cleavage of the metal chelate, thiazole rings in a cyclopentadienyl- chromium complex"
L.Y. Goh, Z. Weng, W.K. Leong, J.J. Vittal, *J. Amer. Chem. Soc*. 124 (2002) 8804-8805

240. "Synthesis, Structure of [(Ph_3P)$_2$Ag(μ-Cl)(μ-SC{O}Ph)In(SC{O}Ph)$_2$]"
T.C. Deivaraj, J.J. Vittal, *Inorg. Chim. Acta* 336 (2002) 111-114

239. "A New Metalloligand [M(SC{O}Ph)$_4$]$^-$: Synthesis, Characterization of Polymeric [A(MeCN)$_x$ {M(SC{O}Ph)$_4$}] Compounds (A = Li, Na & K; M = Ga & In ; x = 0-2)".
T. C. Deivaraj, W.H. Lye, J.J. Vittal, *Inorg. Chem*. 41 (2002) 3755-3760

238. "Structure of [Hg_2(SPh)$_4$(μ-4,4'-bpy)]$_n$"
M.T. Ng, T.C. Deivaraj, J.J. Vittal, *Main Group Metal Organic Chem.* 25 (2002) 581-582

237. "Self-Assembly of Gold(I) Rings, reversible formation of organometallic[2] catenanes"
C.P. McArdle, M.J. Irwin, M.C. Jennings, J.J. Vittal, R.J. Puddephatt, *Chem. Eur. J*. 8 (2002) 723-734

236. "Interconvertible Supramolecular Transformations"
J.J.Vittal, X.-D. Yang, *Cryst. Growth & Des*. 2 (2002) 259-262

235. "Heterogeneous reaction route to $CuInS_2$ thin films"
M. Lin, K.P. Loh, T.C. Deivaraj, J.J. Vittal, *Chem. Commun.* (2002) 1400-1401

234. "Structure of [(bipy)In(Cl)(SC{O}Ph)$_2$]"
T.C. Deivaraj, X. Tai, J.J. Vittal, *Main Group Metal Organic Chem.* 25 (2002) 467-468

233. Tricarbonylrhenium(I) complexes of phosphine-derivatized amines, amino acids, a model peptide: Structures, solution behaviour, cytotoxicity"

J. Zhang, J.J. Vittal, W. Henderson, J.R. Wheaton, I.H. Hall, T.S.A. Hor, Y.K. Yan, *J. Organometallic Chem*. 650 (2002) 123-132

232. "Apical versus equatorial disposition of substituents in tetraoxyphosphoranes bearing a 1,3,2-dioxaphosphocin ring. Application of apicophilicity in trigonal bipyramidal phosphorus" P. Kommana, S. Kumaraswamy, J.J. Vittal, K.C. Kumara Swamy, *Inorg. Chem*. 41 (2002) 2356-2363

231. "Synthesis, Structures, electrochemistry of polynuclear Cu^{I}, Ag^{I}, Pt^{II} Complexes bearing ferrocenyl group" J.H.K. Yip, J. Wu, K.-Y. Wong, K.-W. Yeung, J.J. Vittal, *Organometallics* 21 (2002) 1612-1621

230. "[(Bis(diphenylphosphino)ethane-P,P')(Bis(diphenylphosphino)ethane sulfide-P) (thiobenzoato-S)Copper(I)]" T.C. Deivaraj, J.J. Vittal, *Acta Crystallogr*. E 58 (2002) m181-m182

229. "Synthesis, Structures of Group 12 Metal Thioacetate Anions, $[M(SC\{O\}Me)_nCl_{4-n}]^{2-}$ (n = 3 & 4), $[Cd_2Cl_2(SC\{O\}Me)_4]^{2-}$", C. V. Amburose, T. C. Deivaraj, G.X. Lai, J.T. Sampanthar, J.J. Vittal, *Inorg.Chim. Acta* 332 (2002) 160-166

228. "Mass spectrometry-directed synthesis of 'early-late' sulfide-bridged heterobimetallic complexes from the metalloligand $[Pt_2(PPh_3)_4(\mu\text{-}S)_2]$, oxo compounds of vanadium(I), molybdenum(VI), uranium(VI). S.-W.A. Fong, W.T. Yap, J.J. Vittal, W. Henderson, T.S.A. Hor, *J. Chem. Soc. Dalton Trans.* (2002) 1826-1831

227. "Metal scrambling in the trinuclear $\{Pt_2Se_2M\}$)M = Pt, Pd, Au) system using an Electrospray Mass Spectrometry (ESMS) directed synthetic methodology; Isolation, crystallographic characterization of $\{Pt_2(\mu_3\text{-}Se)_2(PPh_3)_4[Pt(COD)]\}\{PF_6\}_2$, $\{Pt(\mu_3\text{-}Se)_2(PPh_3)_2[Pt(COD)]_2\}\{PF_6\}_2$" J.S.L. Yeo, J.J. Vittal, W. Henderson, T.S.A. Hor, *Inorg. Chem*., 41 (2002) 1194-1198

226. "Palladium(II) ion promoted hydroamination of di(phenylethynyl)phenylphosphine, aniline: A facile synthesis of a six-membered P-N heterocycle." X. Liu, T.K.W. Ong, S. Selvaratnam, J.J. Vittal, A.J.P. White, D.J. William, P.H. Leung, *J. Organomet. Chem*., 643-644 (2002) 4-11

225. "$Pd(O_2CCF_2CF_3\text{-}O)_2$(dppf), $PdAg(\mu\text{-}O_2CCF_2CF_3)_2(O_2CCF_2CF_3\text{-}O)_2$)(dppf) [dppf = 1,1'-bis(diphenylphosphine) ferrocene]: A stable Pd(II) phosphine carboxylate as a precursor to herobimetallic carboxylates." Y.C. Neo, J.J. Vittal, T.S.A. Hor, *J. Chem. Soc. Dalton Trans*., (2002) 337-342

224. "Exploring the Lewis basicity of the metalloligand $[Pt_2(\mu\text{-}Se)_2(PPh_3)_4]$ on metal substrates by electrospray mass spectrometry. Synthesis, characterization, structural studies of new platinum selenide phosphine complexes containing the $\{Pt_2Se_2\}$ core." J.S.L. Yeo, J.J. Vittal, W. Henderson, T.S.A. Hor, *J. Chem. Soc. Dalton Trans*., (2002) 328-336

2001

223. "A trioxygnated sterol from leaves of Aglaia laxiflora." Y.-J. Xu, Z. Imiyabir, Y.H. Lai, J.J. Vittal, S.-H. Goh, *ACGC Chem. Res. Commun*., 13 (2001) 37-41

222. "Palladium(II) phosphine thiocarboxylates. Structures of *cis*-$Pd(\kappa S\text{-}SOCMe)_2$(dppf) [dppf = 1,1'-bis(diphenylphosphino)ferrocene], *trans*-$Pd((\kappa S\text{-}SOCMe)_2(PPh_3)_2$" Y.C. Neo, J.J. Vittal, T.S.A. Hor, *J. Organomet. Chem*., 637 (2001) 757-761

221. "Morpholinium intercalated vanadophosphates" S. Sharma, A. Ramanan, J.J. Vittal, *Proc. Indian Acad. Sci. (Chem. Sci.)*, 113 (2001) 621-631

220. "Coordination polymers of d^{10} metals, *N,N'*-bis(3pyridinecarboxamide)-1,2-ethane". S. Muthu, J.H.K. Yip, J.J. Vittal, *J. Chem. Soc. Dalton Trans*. (2001) 3577-3584

219. "Bis(dithioacetato-S~2~)bis(triphenylphosphine-P)copper(I). 1.5 Toluene"
T.C. Deivaraj, J.J. Vittal, *Acta Crystallogr. E*, 57 (2001) M566-M567

218. "Single source precursors to ternary silver indium sulfide materials."
T.C. Deivaraj, J.H. Park, M. Afzaal, P. O'Brien, J.J. Vittal, *Chem. Commun*. (2001) 2304-2305

217. "Interconversion of a monomer, two coordination polymers of a copper(II) - reduced Schiff base ligand - 1,10-phenanthroline complex based on hydrogen-, coordinative-bonding" C.T. Yang, B. Moubaraki, K.S. Murray, J.D. Ranford, J.J. Vittal, *Inorg. Chem*., 40 (2001) 5934-5941

216. "Synthesis, structure of $(NMe_4)_2[Hg(\mu\text{-}Cl)(SC\{O\}Ph)_2]_2$"
T. C. Deivaraj, J.J. Vittal, *Main Group Metal Chem.*24 (2001) 815-816

215. "Self-assembly of rings, catenanes, a doubly braided catenane containing Gold(I): The hinge group effect in diacetylide ligands."
C.P. McArdle, M.C. Jennings, J.J. Vittal, R.J. Puddephatt, *Chem. Eur. J*. 7 (2001) 3572-3583

214. "A combinatorial-like probe on the reactivity of the $\{Pt_2S_2\}$ core of $Pt_2(PPh_3)_4(\mu\text{-}S)_2$ by electrospray mass spectrometry (ESMS). Synthesis, structures of novel heterometallic sulfide aggregrates of gold(III), mercury(II), tin(IV) with platinum(II)". S.-W.A. Fong, J.J. Vittal, T.S.A. Hor, W. Henderson, A.G. Oliver, C.E.F. Rickard, *J. Chem. Soc. Dalton Trans*. (2001) 1986-2002

213. "Syntheses, characterization of dinuclear cadmium(II) diimine complexes with bridging functionalised thiolate ligands"
K.S. Anjali, Y.-L. Pui, V.W.-W. Yam, J.J. Vittal, *Inorg. Chim. Acta* 319 (2001) 57-62

212. "A Copper complex with a magnetic ordering temperature above 400K"
X. Yang, L. Si, J. Ding, J.D. Ranford, J.J. Vittal, *Appl Phys. Lett*. 78 (2001) 3502-3504.

211. "Metal template effects on asymmetric cycloaddition reaction between diphenylvinyl phosphine, 2-diphenylphosphinofuran"
W.-C. Yeo, J.J. Vittal, A. J. P. White, D.J. Williams, P.-H. Leung, *Organometallics*, 20 (2001) 2167-2174

210. "Interpenetrating *versus* noninterpenetrating (4,4) nets - Influence of the size of the metal, counter ions". Z. Ni, J.J. Vittal, *Cryst. Growth & Des.* 1 (2001) 195-197

209. "Stereochemistry of Admantanoid $[(\mu\text{-}SPh)_6(CdCl)_4]^{2-}$ Anions". K.S. Anjali, K.W.K Thia, T.T. Low, M.Q. Chen, H. Huan, J.J. Vittal, *Main Group Metal Chem*. 24 (2001) 229-234

208. "Synthesis, Structure of $(Ph_4P)_2[Zn_2(\mu\text{-}SCH_2CH_2OH)_2Cl_4]$"
K.S. Anjali, J.J. Vittal, *Main Group Metal Chem*. 24 (2001) 129-130

207. "Synthesis, Structure of $[\{Cl_2Cd(dabco\text{-}CH_2Cl)\}_2(\mu\text{-}Cl)_2]$"
J.T. Sampanthar, J.J. Vittal, *Main Group Metal Chem.* 24 (2001) 127-128

206. "A rapid screening, "combinatorial-type' survey of the metalloligand chemistry of $Pt_2(PPh_3)_4(\mu\text{-}S)_2$ using electrospray mass spectrometry". S.-W. A. Fong, J.J. Vittal, W. Henderson, T.S.A. Hor, A.G. Oliver, C.E.F. Rickard, *Chem. Commun*. (2001) 421-422

205. "Nanotube Structure revealed by high resolution X-ray diffraction"
G. Xu, Z.C. Feng, Z. Popovic, J.Y. Lin, J.J. Vittal, *Adv. Mater*., 13 (2001) 264-267

204. "Stereoselective Formation of (Aminoalkyl)platinum Complexes from Imines" C.R. Baar, L.P. Carbray, M.C. Jennings, R.J. Puddephatt, J.J. Vittal, *Organometallics* 20 (2001) 408-417

203. "Chemistry of thiocarboxylates. Synthesis, structures of neutral silver(I) thiocarboxylates with triphenylphosphine." T.C. Deivaraj, J.J. Vital, *J. Chem.Soc. Dalton Trans*. (2001) 329-335 (back-to-back)

202. "Chemistry of thiocarboxylates: Synthesis, structures, ^{31}P NMR studies of bis(diphenylphosphino) methane adducts of copper, silver thiocarboxylates."
T.C. Deivaraj, J.J. Vittal, *J. Chem.Soc. Dalton Trans*. (2001) 322-328. (back-to-back)

201. "Probing the Lewis basicity of the metalloligand $[Pt_2(\mu\text{-}Se)_2(PPh_3)_4]$ on tin substrates by electrospray mass spectrometry."
J.S.L. Yeo, J.J. Vittal, W. Henderson, T.S.A. Hor, *J. Chem.Soc. Dalton Trans*. (2001) 315-321. (back-to-back)

200. "Coordination chemistry, reactivities, stereoelectronic properties of chelating phosphine ligands containing thioamide substituents."
P.-H. Leung, Y. Qin, G. He, K.F. Mok, J.J. Vittal, *J. Chem.Soc. Dalton Trans*. (2001) 309 -314 (back-to-back)

2000

199. "A new structurally characterized organotin/Schiff-base complex with approximately rectangular molecular boxes formed through hydrogen bonds."
Y.S. Zhou, L.J. Zhang, Z.R. Zeng, J.J. Vittal, X.Z. You, *J. Mol. Struc*. 553 (2000) 25-30

198. "Crystal structures, triboluminescent activities of samarium(III) complexes."
X.F. Chen, X.H. Zhu, W. Chen, J.J. Vittal, G.K. Tan, J. Wu, X.Z. You, *J. Coord. Chem*. 52 (2000) 97-110

197. "Novel self-assembled decavanadate clusters forming 1D molecular chains, 2D molecular arrays: $[HMTA\text{-}H\cdots H_2O][HMTA\text{-}CH_2OH][H_3V_{10}O_{28}\{Na(H_2O)_4\}]\cdot 4H_2O$, $[Na_2(H_2O)_{10}]$ $[H_3V_{10}O_{28}\{Na(H_2O)_2\}]\cdot 3H_2O$" T. Duraisamy, A. Ramanan, J.J. Vittal, *Cryst. Engg*. 3 (2000) 237-250

196. "Synthesis, molecular, crystal structue of a new organitin/Schiff-base complex, $C_{28}H_{31}Cl_3NO_4Sn$"
L.-J. Zhang, Y.-S. Zhou, X.-R Zeng, J.J. Vittal, X.-Z. You, *J. Chemical Crystallogr*. 30 (2000) 259-263

195. "Poly-linked adamantanoid structure of $Cd(SePh)_2$"
K.S. Anjali, J.J. Vittal, *Inorg. Chem. Commun*. 3 (2000) 708-710

194. "Cytotoxic prenylated depsidones from *Garcinia parvifolia*". Y.J. Xu, P.Y. Chiang, Y.H. Lai, J.J. Vittal, X.H. Wu, B.K.H. Tan, Z. Imiyabir, S.H. Goh, *J. Nat. Prod*. 63 (2000) 1361-1363

193. "Molecular topology:Easy self-assembly of an organometallic doubly braided[2]-Catenane".
C.P. McArdle, J.J. Vittal, R.J. Puddephatt, *Angew. Chem. Int. Ed*. 39 (2000) 3819-3822

192. "Silver-triphenylphosphine coordination polymers with linear spacer ligands"
J.T. Sampanther, J.J. Vittal, *Cryst. Engg*. 3 (2000) 117-133

191. "Activation of imines by platinum(II) to give aminoalkyl complexes: Scope, limitations of the reaction"
C.R. Baar, M.C. Jennings, J.J. Vittal, R.J. Puddephatt, *Organometallics* 19 (2000) 4150-4158

190. "Four new Clerodane diterpenoids from *Callicarpa pentandra*"
J. Xu, L.J. Harrison, J.J. Vittal, Y.J. Xu, S.H. Goh, *J. Nat. Prod*., 63 (2000) 1062-1065

189. "Formation of imino-phosphine bidentate chelates by an unprecedented organopalladium complex promoted oxidative coupling reaction between diphenylvinylphine, imines"
X. Liu, K.F. Mok, J.J. Vittal, P.H. Leung, *Organometallics* 19 (2000) 3722-3729

188. "Asymmetric synthesis, the novel retro Diels-Alder reaction of a *P*-chiral sulfonyl-substituted phosphanorbornene" P.H. Leung, H. Lang, X. Zhang, S. Selvaratnam, J.J. Vittal, *Tetrahedron-Asymmetry* 11 (2000) 2661-2664.

187. "A remote substituent as a control element in indium-mediated allylation reactions in aqueous media: highly diastereoselective synthesis of 1,3-amino alcohols"
T.P. Loh, J.M. Huang, K.C. Xu, S.H. Goh, J.J. Vittal, *Tetrahedron Letters* 41 (2000) 6511-6565.

186. "Crystal structures, molecular packing, picosecond optical limiting properties of quadridentate Schiff base divalent metal complexes derived from *S*-benzyl dithiocarbazate"
X.-H. Zhu, X.-F. Chen, Y. Zhang, X.-Z. You, W.-L. Tan, W. Ji, J.J. Vittal, G.-K. Tan, C.H.L. Kennard, *New J. Chem*. 24 (2000) 419-423.

185. "Syntheses, electronic spectroscopy of [PtL(L')][ClO_4] complexex (HL = 6-Phenyl-2,2'-bipyridine; L' = Pyridine, 4-aminopyridine, 2-aminopyridine,, 2,6-diaminopyridine)"
J.H.K. Yip, Suwarno, J.J. Vittal, *Inorg. Chem*. 39 (2000) 3537-3543.

184. "Synthesis, Structure, multi-NMR studies of (Me_4N)[A{M(SC{O}Ph)$_3$}$_2$] (A = Na, M = Hg,, A = K, M = Cd or Hg)". T. C. Deivaraj, P.A.W. Dean, J.J. Vittal, *Inorg. Chem*. 39 (2000) 3071-3074.

183. "*trans*-Bis(thioacetato-*S*)bis(triphenylphosphine-*P*)nickel(II)"
T.C. Deivaraj, J.J. Vittal, *Acta Crystallogr*. C55 (2000) 775-776.

182. "Aldol reaction under solvent-free conditions: Highly stereoselective synthesis of 1,3-aminoalcohols" T.P. Loh, J.M. Huang, S.H. Goh, J.J. Vittal, *Org. Lett*. 2 (2000) 1291-1294.

181 "A highly chemoselective, diastereoselective trifluoromethane sulfonic catalysed addition of allyltributylstannanes to a steroidal aldehyde in aqueous media."
T.P. Loh, J. Xu, Q.Y. Hu, J.J. Vittal, *Tetrahedron-Asymmetry* 11 (2000) 1565-1569.

180. "Flavonol - Cinnamate cycloadducts, diamide derivatives from *Aglaialaxiflora*"
Y.-J. Xu, X.-H, Wu, B.K.H. Tan, Y.-H, Lai, J.J. Vittal, Z. Imiyabir, L. Madani, K.S. Khozirah, S.H. Goh, *J. Nat. Prod*. 63 (2000) 473-476.

179. "Indium-mediated allylation: Application to the synthesis of 22-hydroxy steroids."
T.P. Loh, Q.Y. Hu, J.J. Vittal, *Synlett*. (2000) 523-525.

178. "μ-(4,4'-Bipyridine)-N : N'-bis[bis(pyrrolidinedithiocarboxylato-S,S') zinc(II)]
X-F, Chen, S-H. Liu, X-H. Zhu, J.J. Vittal, G-K.Tan, X-Z. You, *Acta Crystallogr. Section C* 56 (2000) 42-43.

177. "Phloroglucinol Derivatives from *Hypericum Japonicum*"
L-H. Hu, C-W Khoo, J.J. Vittal, K-Y. Sim, *Phytochem*., 53 (2000) 705-709

176. "Chemistry of Thiocarboxylates: Synthesis, Structures of Neutral Copper(I) Thiocarboxylates with Triphenylphosphine" T.C. Deivaraj, G.X. Lai, J.J. Vittal, *Inorg. Chem*., 39 (2000) 1028-1034

175. "Isolation of a stable precursor for [Pt^0(P-P)], its reductive addition to $Ru_3(CO)_9(\mu_3\text{-}S)_2$ giving square heterometallic clusters supported by two face-capping μ_4-sulfides [P-P = $(C_5H_4PPh_2)_2$M; M = Fe, Ru]" S.-W. A. Fong, J.J. Vittal, T.S.A. Hor, *Organometallics* 19 (2000) 918-924

174. "Alkyne diruthenium chemistry"
J. Kuncheria, H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *J. Organomet. Chem*. 593-594 (2000) 77-85

1999

173. "Reaction of $CdNO_3.4H_2O$ with 4,4'-bipyridine (bpy) in MeOH solvent: Synthesis, characterization of T-shaped [Cd(bpy)$_{1.5}$(NO_3)$_2$].3H_2O, square grid [Cd(bpy)$_2$(H_2O)$_2$] (NO_3)$_2$.4H_2O, linear polymeric [Cd(bpy)(H_2O)$_2$(NO_3)$_2$]". J.T. Sampanthar, J.J. Vittal, *Cryst. Engg*., 2 (1999) 251-264

172. " Thioacetate Complexes of Group 12 metals. Structures of $(Ph_4P)[Zn(SC\{O\}Me)_3(H_2O)]$, of $(Ph_4P)[Cd(SC\{O\}Me)_3]$" J.T. Sampanthar, T.C. Deivaraj, J.J. Vittal, P.A.W. Dean, *J. Chem. Soc. Dalton Trans*. (1999) 4419-4423

171. "Dulxanthone E: A new pyranoxanthone from the leaves of *Garcinia dulcis*", S. Kosela, L-H. Hu, S-H, Yip, T. Rachmatia, T. Sukri, T.S. Daulay, G-K. Tan, J.J. Vittal, K-Y. Sim, *Phytochem*. 52 (1999) 1375-1377

170. "Thermal Conversion of a Helical Coil to a 3-D Chiral Framework" J.D. Ranford, J.J. Vittal, D. Wu, X. Yang, *Angew. Chem. Int. Ed*. 38 (1999) 3498-3501

169. "Chemistry of functionalized thiolates: Syntheses, structures of neutral, monomeric $[Zn(S\text{-}C_6H_4X\text{-}4)_2(N\text{-}N)]$, X = H, NH_2, OH, (N-N) = nitrogen bases 2,2'-bpy, phen, tmen)" K.S. Anjali, J. T. Sampanthar, J.J. Vittal, *Inorg. Chim Acta* 295 (1999) 9-17

168. "Preparation, characterisation, structures of copper(II) complexes of an asymmetric anticancer drug analogue". B. Moubaraki, K.S.Murray, J.D. Ranford, J.J. Vittal, X. Wang, Y. Xu, *J. Chem. Soc. Dalton Trans*. (1999) 3573-3578

167. "New Inorganic-Organic Hybrid Materials based on Polyoxovanadates: $[Morp]_6[VO_4 \subset V_{14}O_{32}(OH)_6].\ 2H_2O$, $[Morp]VO_3$, $[HMTA\text{-}CH_3]_4[H_2V_{10}O_{28}].5H_2O$, [HMTA-H][HMTA-$CH_2OH]_2[H_5V_{10}O_{28}].6H_2O$" T. Duraisamy, N. Ojha, A. Ramanan, J.J. Vittal, *Chem. Mater*. 11 (1999) 2339-2349

166. "Crystal structures, magnetic properties of two alternating azide-bridged complexes $[\{M(dmbpy)(N_3)_2\}_n]$ (M = Mn or Cu; dmbpy = 4,4'-dimethyl-2,2'-bipyridine)". Z.Shen, J.-L. Zuo, Z. Yu, Y. Zhang, J.-F. Bai, C.-M. Che, H.-K. Fun, J.J. Vittal, X.-Z. You, *J. Chem. Soc. Dalton Trans*. (1999) 3393 - 3397

165. "Clusters in bis-tridentate tethered domains of an iron chelating drugs". W. Henderson, L.L. Koh, J.D. Ranford, W.T. Robinsin, J.O. Svensson, J.J. Vittal, Y.M. Wang, Y. Xu, *J. Chem. Soc. Dalton Trans*., (1999) 3341-3343

164. "Chemistry of Thiocarboxylates: Syntheses, Characterization of Silver, Copper thiocarboxylate Complexes, the Structures of $(Ph_4P)[M(SC\{O\}Me)_2]$ (M = Cu & Ag),, $(Et_3NH)[Ag(SC\{O\}Ph)_2]$" J.T. Sampanthar, J.J. Vittal, P.A.W. Dean, *J. Chem.Soc. Dalton Trans*., (1999) 3153-3156

163. "Synthesis, Structures of New symmetrically, unsymmetrically substituted cyclodiphosphazanes" M. Vijjulatha, K.C. K. Swamy, J.J. Vittal, L.L. Koh, *Polyhedron*, 18 (1999) 2249-2254

162. "$[PdCl_2(dppfO_2\text{-}O,O')]$ – A simple palladium(II) complex with a rare tetrahedral structure" J.S.L. Yeo, J.J. Vittal, T.S.A. Hor, *Chem. Commun*., (1999) 1477-1478

161. "$\{[AuL_2]^+[LauCl][AuCl_2]^-\}$ (L = 2-aminopyridine): A Trinuclear Gold(I) unit in the pattern [+Neutral]" J.H.K. Yip, R. Feng, J.J. Vittal, *Inorg. Chem*., 38 (1999) 3586-3589

160. "Synthesis, anti-cancer activities of a pair of enantiomeric gold(I) complexes containing sulfanyl-substituted P-stereogenic phosphines". Y.C. Song, J.J. Vittal, N. Srinivasan, S.H. Chan, P.H. Leung, *Tetrahedron-Asymmetry*, 10 (1999) 1433-1436

159. "Syntheses, Crystal Structures of dimer, $[(\mu\text{-bpy})\{Zn(SPh)_2(bpy)\}_2]$, two forms of the zig-zag coordination polymer, $[Zn(SPh)_2(\mu\text{-bpy})]_n$, bpy = 4,4'-bipyridyl" J. T. Sampanthar, J.J. Vittal, *J. Chem. Soc. Dalton Trans*., (1999) 1993-1997

158. "Diruthenium alkyne chemistry: Stepwise formation of an alkenyl (alkynyl) vinylidene complex" J. Kuncheria, H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem. Commun*., 2 (1999) 197-199

157. "Synthesis, structure of a new layered organic-inorganic hybrid compound containing unique chain CuI" H.G. Zhu, Z. Yu, H. Cai, X.Z. You, J.J. Vittal, G.K. Tan, *Chem. Lett*., (1999) 289-290

156. "Synthesis of Metallacycles by Oxidative Addition of Sn-S, Sn-Se, Sn-Te, Ge-Te Containing Precursors to Platinum(II)" M.C. Janzen, H.A. Jenkins, L.M. Rendina, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*., 38 (1999) 2123-2130

155. "Reduction of the anti-cancer analogue *cis, trans, cis*-$[PtCl_2(OCOCH_3)NH_3)_2]$ by L- methionine, L-cysteine, its crystal structure" P. F. Lee, L. Chen, J.D. Ranford, J.J. Vittal, S.Y. Wong, *J. Chem. Soc. Dalton Trans*. (1999) 1209-1212

154. "Two new Inorganic/Organic Hybrid Salts: $[Me_2NH_2]_4[Me_4N]_2$ $[Mo_{0.5}O_4 \subset (Mo_{12}O_{36})]$ $1.5H_2O$, $[NMe_4]_2[NH_4]_2[Mo_8O_{26}].2H_2O$" T. Duraisamy, A. Ramanan, J.J. Vittal, *J. Mater. Chem*., 9 (1999) 763-767

153. "Reductive Coupling of Halogenothiophenes, Halogenothiazoles Catalyzed by Pd(II) in a Basic Alcohol Medium". Y. Xie, G.K. Tan, Y.K. Yan, J.J. Vittal, S.C. Ng, T.S.A. Hor, *J. Chem.Soc. Dalton Trans*., (1999) 773-779

152. "Molecular recognition in palladium complex promoted asymmetric synthesis of a P-chiral hetero-difunctionalized bidentate phosphine ligand"
Y. Song, J.J. Vittal, S-H. Chan, P-H. Leung, *Organometallics*, 18 (1999) 650-655

151. "Lateriflorone, a cytotoxic spiroxalactone with a novel skeleton, isolated from *Garcinia lateriflora Bl.*" S. Kosela, S.-G. Cao, X-H, Wu, J.J. Vittal, T.Sukri, Masdianto, S.-H. Goh, K.-Y. Sim, *Tetrahedron Letters,* 40 (1999) 157-160

1998

150. "Synthesis, Stereochemistry of Homoleptic Transition Metal Thiobenzoate Complexes, (Ph_4P) $[M(SC\{O\}Ph)_3]$ (M = Mn, Co & Ni)". R. Devy, J.J. Vittal, P.A.W. Dean, *Inorg. Chem.*, 37 (1998) 6939-6941

149. "Synthesis, Structure, Reactivity of Zirconium Alkyl Complexes Bearing Ancillary Pyridine Diamide Ligands". F. Guerin, D.H. McConville, J.J. Vittal, G.A.P. Yap, *Organometallics*, 17 (1998) 5172-5177

148. "Synthesis, Electrospray Mass Spectrometry of Palladium(II) Diphosphine Complexes from Oxidative Addition of 2-Bromopyridine to Pd(0)"
C.C.H. Chin, J.S.L. Yeo, Z.H. Loh, J.J. Vittal, W. Henderson, T.S.A. Hor, *J. Chem. Soc.Dalton Trans*., (1998) 3777-3784

147. "Heteronuclear Hexaplatinum Cluster Complexes: Structure as a Function of Electron Count"
G.J. Spivak, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*., 37 (1998) 5474-5481.

146. "Three novel isomeric pyranocoumarins from *Calophyllum teysmannii*: Calanone, Isocalanone, Teysmanone A,"
J. J. Vittal, S-G. Cao, S-H. Goh, G.K. Tan, K-Y. Sim, *Acta Crystallogr*., C54 (1998) 1536-1540

145. "Sinusoidal Ribbon Waves in the Crystal Structure of Bis(4-aminophenyl) Disulfide"
J. J. Vittal & K.S. Anjali, *Cryst. Engg*., 1 (1998) 147-152

144. "Minor Coumarins from *Calophyllum teysmannii* var. *inophylloide*, Synthesis of Cytotoxic Calanone Derivatives". S-G. Cao, X-H. Wu, K-Y. Sim, B.H.K. Tan, J.J. Vittal, J.T. Pereira, S-H. Goh, *Helv. Chim. Acta*, 81 (1998) 1404-1416

143. "Palladium Complex Promoted Asymmetric Synthesis of Stereoisomeric P-Chiral Pridylphosphines *via* An Unusual *exo-endo* Sterochemically Controlled Asymmetric Diels-Alder Reaction Between 2-vinylpyridine, Coordinated 3,4-Dimethyl-1-phenylphosphole"

S. He, S-K. Loh, J.J. Vittal, K.F. Mok, P-H. Leung, *Organometallics,* 17(1998) 3931-3936

142. "Bisthiosemicarbazones of 2,4-Pentanedione are Pyrazolines"
D.H. Hunter, C. McRoberts, J.J. Vittal, *Can. J. Chem*., 76 (1998) 522-524

141. "The role of substituents on configurational isomerism, geometry of adamantane-like [(μ-$ER)_6(MX)_4$] (E = chalcogen, X = halogen). Structures of $(Me_4N)_2[(\mu\text{-}SPh)_6(ZnX)_4]$ (X = Cl, Br, I)" P. A.W. Dean, N.C. Payne, J. Wranich, J.J. Vittal, *Polyhedron*, 17 (1998) 2411-2416

140. "Isocalanone, a new pyranocoumarin from *Calophylum teysmannii* (Guttiferae)"
S.-G. Cao, K.L. Chong, J.J. Vittal, K.-Y. Sim, S.H. Goh, *Nat. Prod. Let.*, 11 (1998) 233-236

139. "Metal template synthesis, coordination properties of a palladium complex containing a novel, stable imidazole-substituted phosphine C-P bidentate chelate"
H. Lang, J.J. Vittal, P-K. Leung, *J. Chem. Soc. Dalton Trans*., (1998) 2109-2110.

138. "Stereoselectivity in Organometallic Reactions: Oxidative Addition of Alkyl Halides to Platinum(II)" C.R. Baar, H.A. Jenkins, J.J. Vittal, G.P.A. Yap & R.J. Puddephatt, *Organometallics*, 17, (1998) 2805-2818.

137. "Successive insertion of alkynes into a Tantalum-alkynyl bond: Implications for the coordination polymerization of alkynes"
F. Guérin, D.H. McConville, J.J. Vittal, G.A.P. Yap, *Organometallics*, 17 (1998) 1290-1296.

136. "Synthesis, NMR (^{13}C, ^{111}Cd, ^{199}Hg) Spectra, Structures of $(Ph_4As)_2[Hg_2Cl_4(S\{O\}CPh)_2]$, $(Ph_4As)_2[CdCl_4Hg(S\{O\}CPh)_2]$". J.J. Vittal, P.A.W. Dean, *Polyhedron*, 17 (1998) 1937-1942.

135. "Chelating diamide complexes of titanium: new catalyst precursors for the highly active, living polymerization of α-olefins" J.D. Scollard, D.H. McConville, J.J. Vittal, N.C. Payne, *J. Mol. Catal. A: Chem*., 128 (1998) 201-214.

134. "Highly Stereoselective Indium Trichloride-Catalysed Asymmetric Aldol Reaction of formaldehyde, a Glucose Derived Silyl Enol Ether in Water "
T-P. Loh, G-L. Chua, J.J. Vittal & M-W. Wong, *Chem. Commun*., (1998) 861-862.

133. "Topochemical Conversion of Hydrogen Bonding to Covalent Three-Dimensional Network"
J.D. Ranford, J.J. Vittal, D. Wu, *Angew. Chem. Int. Ed*., 37 (1998) 1114-1116.

132. "Yttrium β-Diketonate Complexes with Triglime: Inonic, Neutral Isomers, Outer Sphere Coordination of Triglime" K.D. Pollard, J.J. Vittal, G.P.A. Yap, R.J. Puddephatt, *J. Chem. Soc. Dalton Trans*., (1998) 1265-1267.

131. "Polytopal Isomerism of the $[Cd(S\{O\}CPh)_3]^-$ Anion" P.A.W. Dean, J.J. Vittal, D.C. Craig, M.L. Scudder, *Inorg. Chem*., 37 (1998) 1661-1664.

130. "Di-copper(II) Complexes of the Antitumore Analogs Acyldi(salicylaldehyde hydrazones), the Crystal Structures of Monomeric $[Cu_2$(1,3-[propanedioyl di(salicylaldehyde hydrazone)$(H_2O)_2](ClO_4)_2..3H_2O$, Polymeric $[\{Cu_2$(1,6-hexanedioy di(salicylaldehyde hydrazone)) $(C_2H_5OH)_2\}_m].(ClO_4)_{2m}.m(C_2H_5OH)$"
J.D. Ranford, J.J. Vittal, Y.M. Wang, *Inorg. Chem*., 37(1998) 1226-1231.

129. "The Reaction of Chlorophosphates with Strong Bases: Synthesis, Characterization of the Phosphonate Salts". M. Vijjulatha, K. Praveen Kumar, K.C. K. Swamy, J.J. Vittal, *Tetrahedron Letters*, 39 (1998) 1819-1822.

128. "Triethylammonium Tris(thiobenzoato-*O*, *S*)cadmium(II)" J. J. Vittal & P.A.W. Dean, *Acta Crystallogr*., C54 (1998) 319-321.

127. "1-Methyl-2-vinylpyrrole, 1-Phenyl-3,4-dimethylphosphole: Their Coordination Chemistries, Reactivities in a Chiral Palladium Complex Promoted Asymmetric Diels-Alder Reaction" S-K. Loh, J.J. Vittal, P-H. Leung, *Tetrahedron: Asymmetry*, 9 (1998) 423-428.

126. "Reactions of a Diruthenium Complex with Sulfur, Selenium, Sulfur Dioxide" J. Kuncheria, H.A. Mirza, H.A. Jenkins, J.J. Vittal, R.J. Puddephatt, *J. Chem. Soc. Dalton Trans*., (1998) 285-290.

125. "Stereoselectivity in Organometallic Reactions: Intramolecular Oxidative Addition of Aryl-Halogen Bonds to Platinum(II)" C.R. Baar, G.S. Hill, J.J. Vittal & R.J. Puddephatt, *Organometallics*, 17 (1998) 32-40.

124. "Crystal structure of (μ_3-Oxo)-(μ_3-sulfido)-tris(μ_2-bis(diphenylphosphino)methane) tricarbonyl rhenium-tri-platinum hexafluorophosphate tetraoxorhenium hexane dichloromethane solvate. $Pt_3\{Re(CO)_3)(\mu_3\text{-}O)(\mu_3\text{-}S)(\mu\text{-dppm})_3](PF_6)_{0.6}(ReO_4)_{0.4}.0.5C_6H_{14}$ $0.5CH_2Cl_2$" L. Hao, R.J. Puddephatt & J.J. Vittal, *Zeit. Krist. New Crystal Structures*, 213 (1998) 37-39.

1997

123. "Crystal structure of (μ_3-oxo)-(μ_3-carbonyl)-tris(μ_2-bis(diphenylphosphino)methane-P,P^1) tricarbonyl- triruthenium-methanol solvate hydrate. $[Ru_3(\mu_3\text{-}O)(\mu_3\text{-}CO)(\mu_2\text{-dppm})_3(CO)_3]$ 1.5MeOH .H_2O", H.A. Mirza, R.J. Puddephatt & J.J. Vittal, *Zeit. Krist. New Crystal Structures*, 212 (1997) 411-413.

122. "Crystal structure of [dichloro-bis(μ-bis(diphenylphosphino)methane))(μ.cyclohexyl isocyanide-*C*)dipalladium(I)]$0.5CH_2Cl_2$ $0.5C_6H_{14}$.$[PdCl_2(\mu\text{-dppm})_2(\mu\text{-CNCy})]$ $0.5CH_2Cl_2$. $0.5C_6H_{14}$" R. Markewich, R.J. Puddephatt & J.J. Vittal, *Zeit. Krist. New Crystal Structures*, 212 (1997) 409-410.

121. "Tricyclohexylphosphoniodithioformate", J. J. Vittal, P.A.W. Dean, *Acta Crystallogr*. C53 (1997) 1879-1881.

120. "The Bicluster Oxidative Addition as a route to Bicapped Hexaplatinum Clusters" L.J. Hao, L. Manojlovic-Muir, K.W. Muir, R.J. Puddephatt, G.J. Spivak, J.J. Vittal, D. Yufit, *Inorg. Chim. Acta*, 265 (1997) 65-74.

119. "Asymmetric synthesis of keto-substituted P-chiral phosphines by means of an unusual *exo/endo*-stereochemically controlled Diels-Alder reaction", P.H. Leung, S-K. Loh, J.J. Vittal, A.J.P. White, D.J. Williams, *Chem. Commun*., 1997, 1987-1988.

118. "Bulky Chelating Diamide Complexes of Zirconium: Synthesis, Structure, Reactivity of d^{10} Alkyl Derivatives", J.D. Schollard, D.H. McConville, J.J. Vittal, *Organometallics*, 16 (1997) 4415-4420.

117. "Luminescent Gold(I) Acetylides: From Model Compounds to Polymers", M.J. Irwin, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 16 (1997) 3541-3547.

116. "Synthesis, characterization, reactivity of binuclear palladium(I) bis(diphenylphosphino) amine complexes", C.S. Browning, D.H. Farrar, D.C. Frankel, J.J. Vittal, *Inorg. Chim. Acta*, 254 (1997) 329-338.

115. "Pseudosymmetric Structure of $Pb(SPh)_2$". A.D. Rae, D.C. Craig, I.G. Dance, M.L. Scudder, P.A.W. Dean, M.A Kmetic, N.C. Payne, J.J. Vittal, *Acta Crystallogr*., B53 (1997) 457-465.

114. "Models for Platinum-Rhenium Bimetallic Catalysts: Sulfidation of Pt_3Re Clusters" L. Hao, J. Xiao, J.J. Vittal & R.J. Puddephatt, *Organometallics,* 16 (1997) 2165-2174.

113. "Tetramethylammonium Tris(thiobenzoato-*O,S*)mercury(II)", J. J. Vittal, P.A.W. Dean, *Acta Crystallogr*., C53 (1997) 409-410.

112. “Synthesis, structure, reactivity of Titanacyclopentadiene complexes bearing ancillary pyridine diamide Ligands”. F. Guerin, D.H. McConville, J.J. Vittal, *Organometallics*, 16 (1997) 1491-1496.

111. "Methyl(hydrido)platinum(IV) Complexes: X-Ray Structure of the First (μ-Hydrido)diplatinum(IV) Complex", G.S. Hill, J.J. Vittal & R.J. Puddephatt, *Organometallics*, 16 (1997) 1209-1217.

110. "A Binuclear Oxo-bridged Iron(III) Complex: Structure of [μ -oxo-bis(*cis*-chlorobis(2,2'-ipyridyl))iron(III)] Dichloride 0.7 n-Amyl Alcohol Solvate", S.R. Choudhury, John A. Traquair, J.J. Vittal, *Zeit. Krist*., 212 (1997) 44-47.

109. "Anionic Calixarene Complexes of Copper(I), Silver(I) as Cation Receptors" W. Xu, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*., 36 (1997) 86-94.

1996

108. "Linear Gold(I) Coordination Polymers: A Polymer with a Unique Sine Wave Conformation" M.J. Irwin, J.J. Vittal, G.P.A. Yap, R.J. Puddephatt, *J. Amer. Chem. Soc*., 118 (1996)13101-13102

107. "Tetraphenylphosphonium Perchlorate" J. J. Vittal, P.A.W. Dean, *Acta Crystallogr*., C52 (1996) 3185-3188

106. "Pyridine-2-selenolate, -2-tellurolate as ligands: a multi-nuclear (^{77}Se,^{125}Te,^{119}Sn) magnetic resonance study of some tin(IV) complexes, the X-ray structural analysis of $Sn(SPh)_2(2\text{-}C_5H_4NSe)_2$, $Sn(SPh)_{1.85}(2\text{-}Se\text{-}C_5H_4N)_{2.15}$” N. Chopra, L.C. Damude, P.A.W. Dean, J.J. Vittal, *Can. J. Chem*., 74 (1996) 2095-2105

105. "Conformationally Rigid Diamide Complexes of Zirconium: Electron deficient Analogues of Cp_2Zr", F. Guerin, D.H. McConville, J.J. Vittal, *Organometallics*, 15 (1996) 5586-5590

104. "Rigid-Rod Polymers, Oligomers, Model Complexes with Pt-Pt Bonds in the Backbone" M.J. Irwin, G. Jia, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 15 (1996) 5321-5329.

103. "Bis[di-(2-aminoethyl)amine]nickel(II) Chloride Monohydrate, a Redetermination" R.C. Hynes, C.J. Willis, J.J. Vittal, *Acta Crystallogr*., C52 (1996) 1879-1881

102. "Hexaplatinum Clusters with Carbonyl, Diphosphine Ligands, the Trapping of Mercury(0), Thallium(I)", L. Hao, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 15 (1996) 3115-3123

101. "Polymerization of α -Olefins by Chelating Diamide Complexes of Titanium" J.D. Scollard, D.H. McConville, N.C. Payne, J.J. Vittal, *Macromolecules*, 29 (1996) 5241-5243.

100. "Photochemical Dissociation of a Germasilene: Preparation, Photolysis of Si,Si'-Di-*tert*-butyltetramesitylsiladigermirane", G.M. Kollegger, W.G. Stibbs, J.J. Vittal, K.M. Baines, *Main Group Metal Chem*., 19 (1996) 317-330

99. "Propargyl Calix[4]arenes, their Complexes with Silver(I), Gold(I)", W. Xu, J.J. Vittal, R.J. Puddephatt, *Can. J. Chem*., 74 (1996) 766-774

98. "A Strategy for Synthesis of Large Gold Rings", M.J. Irwin, L.M. Rendina, J.J. Vittal, R.J. Puddephatt, *Chem.Commun*., (1996) 1281-1282

97. "Chemistry of Thiobenzoates: Syntheses, Structures, NMR spectra of Salts of $[M(SOCPh)_3]^-$ (M = Zn,Cd,Hg)". J.J. Vittal, P.A.W. Dean, *Inorg. Chem*., 35 (1996) 3089-3093

96. "Synthesis, Characterization of Group 14-Platinum(IV) Complexes", C.J. Levy, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 15 (1996) 2108-2117

95. "Luminescent Platinum-Tin Bonded Metallacycles: First Oxidative Addition of Sn-S Bonds" L.M. Rendina, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 15 (1996) 1749-1751

94. "Tetramethylammonium tris(thiobenzoato)tin(II)" J. J. Vittal, P.A.W. Dean, *Acta Crystallogr*., C52 (1996) 1180-1182

93. "Macrocyclic Cyclophane Belts via Double Diels-Alder Cycloadditions: Macroannulation of Bisdienes by Bisdienopohiles. Synthesis of a Key Precursor to an [8]Cyclacene" R.M. Cory, C.L. McPhail, A.J. Dikmans, J.J. Vittal, *Tetrahedron Letters*, 37 (1996) 1983-1986

92. "Platinum-Rhenium-Mercury, Related Cluster Chemistry", L. Hao, J. Xiao, J.J. Vittal, R.J. Puddephatt, L. Manojlovic-Muir, K.W. Muir, A.A. Torobi, *Inorg. Chem*., 35 (1996) 658-666

91. "Platinum Cluster Cryptates: Trapping of Mercury(0), Thallim(I)", L. Hao, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*. 35 (1996) 269-270

90. "Bicluster Oxidative Addition: The Bicapped trigonal Prism in $[Pt_6(\mu\text{-}SnBr_3)_2(\mu\text{-}CO)_6(\mu\text{-}Ph_2PCH_2PPh_2)_3$, Related Clusters" G.J. Spivak, L. Hao, J.J. Vittal, R.J. Puddephatt, *J. Amer. Chem. Soc*., 118 (1996) 225-226

89. "Organoplatinum Dendrimers", S. Achar, J.J. Vittal, R.J.Puddephatt, *Organometallics*, 15 (1996) 43-50

88. "Cationic Group 14-Platinum(IV) Complexes", C.J. Levy, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 15 (1996) 35-42

87. "A Binuclear Alkyne Complex of Ruthenium", H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *J. Coord. Chem*., 37 (1996) 131-139

1995

86. "Chemical Vapor Deposition of Silver", Z. Yuan, N.H. Dryden, J.J. Vittal, R.J. Puddephatt, *Chem. Mater*., 7 (1995) 1696-1702

85. "Sterically Demanding Diamide Ligands: Synthesis, Structure of d^0 Zirconium Alkyl Derivatives", J.D. Schollard, D.H. McConville, J.J. Vittal, *Organometallics*, 14 (1995) 5478-5480

84. "Tetrahedral Platinum Carbonyl Clusters". L. Hao, J.J. Vittal, R.J. Puddephatt, L. Manojlovic-Muir, K.W. Muir, *J. Chem. Soc. Chem. Commun*., (1995) 2381-2382

83. "Cyclometallation of Bis(diphenylphosphino)methane Ligands on a Binuclear Ruthinium(0) Carbonyl Complex". H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *Can. J. Chem*., 73 (1995) 903-908

82. "Inorganic Inclusion Chemistry: A Novel Anion Inclusion System" W. Xu, J.J. Vittal, R.J. Puddephatt, *J. Amer. Chem. Soc*., 117 (1995) 8362-8371

81. "A New Form of Fluxional Process in the Sterically Hindered Oxo Cluster $[Ru_3(\mu_3\text{-}O)(\mu_3\text{-}CO)(CO)_3(\mu\text{-}Ph_2PCH_2PPh_2)_3]$". H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*., 34 (1995) 4239-4243

80. "Pt_5 Re Cluster That Models a Bimetallic Catalyst: Evidence for PtRe Multiple Bonding" L. Hao, J.J. Vittal, J. Xiao, R.J. Puddephatt, *J. Amer. Chem. Soc*., 117 (1995) 8035-8036

79. "The First Octahedral Platinum Cluster: Structure as a Function of Electron Count in Pt_6 Clusters" L. Hao, G.J. Spivak, J. Xiao, J.J. Vittal, R.J. Puddephatt, *J. Amer. Chem. Soc*., 117 (1995) 7011-7012

78. "Conformationally Rigid Diamide Complexes: Synthesis, Structure of Tantalum(III) Alkyne Derivatives", F. Guerin, D.H. McConville, J.J. Vittal, *Organometallics*, 14 (1995) 3154-3156

77. "Steric Effecs in the Chemistry of Platinum Cluster Complexes", L. Hao, I.R. Jobe, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 14 (1995) 2781-2789

76. "Stable Organoplatinum(IV) Complexes with Pendant Free Radicals" L.M. Rendina, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 14 (1995) 2188-2193

75. "The Coordinatively Unsaturated Cluster Cations $[Pt_3\{M(CO)_3\}(\mu\text{-}Ph_2PCH_2PPh_2)_3]^+$(M = Re, Mn)" J. Xiao, E. Kristof, J.J. Vittal, R.J. Puddepatt, *J. Organomet. Chem*., 490 (1995) 1-6

74. "Chemical Vapour Deposition of Copper or Silver from the Precursors, [M(hfac)(C=NMe)]. [M = Cu, Ag; hfac = $CF_3C(O)CH(O)CF_3$]", Z. Yuan, N.H. Dryden. X. Li, J.J. Vittal, R.J. Puddephatt, *J. Mater. Chem*., 5 (1995) 303-307

73. "Models for Bimetallic Catalysts: Multiple Oxidation States in Pt_3Re Cluster Cations" L. Hao, J. Xiao, J.J. Vittal, R.J. Puddephatt, *Angew. Chem. Int. Ed*., 34 (1995) 346-348

72. "Cationic Carbene Complexes of Platinum(IV). The Structure of a Secondary Carbene Complex" L.M. Rendina, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 14 (1995) 1030-1038

71. "Transition Metal Rimmed-Calixresorcinarene Complexes", W. Xu, J.P. Rourke, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*., 34 (1995) 323-329

1994

70. "The Addition of Carbonyl Compounds to Tetramesitylgermasilene, Dimesitylgermylene." K.M. Baines, J.A. Cooke, J.J. Vittal, *Heteroatom Chem*., 5 (1994) 293-303

69. "Clusters as Models for Surface Catalysis: A Model for Sulfide Effects on Pt/Re Catalysts" L. Hao, J. Xiao, J.J. Vittal, R.J. Puddephatt, *J. Chem. Soc. Chem. Commun*., (1994) 2183-2184.

68. "Reaction of Acetylene with a Diruthenium(0) Complex. Easy Interconversion of Dimetallocyclobutene, Metallocyclo-pentenone Complexes", H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 13 (1994) 3063-3067

67. "A Binuclear *bis*{*bis*(dimethylphosphino)methane}disilver(I) Complex with Weakly Bonded Hexafluoroacetylacetonato Ligands", Z. Yuan, N.H. Dryden, J.J. Vittal, R.J. Puddephatt, *Can. J. Chem*., 72 (1994) 1605-1609

66. "Thiobenzoates of Lead(II), Bismuth(III): The Crystal, Molecular structures of $(AsPh_4)[Pb(SCOPh)_3]$ and$[Pb(SCOPh)_2(S_2CP\{c\text{-}C_6H_{11}\}_3)]$", T.R. Burnett, P.A.W. Dean, J.J. Vittal, *Can. J. Chem*., 72 (1994) 1127-1135

65. "The Halogen effect in Oxidative Addition of Trimethylsilyl , Trimethyltin Halides to Platinum(II): Synthesis, Characterization of Silylplatinum(IV) Complexes" C.J. Levy, R.J. Puddephatt, J.J. Vittal, *Organometallics*, 13 (1994) 1559-1560

64. "Synthesis, ^{199}Hg NMR spectra of Adamantane-like $[(\mu\text{-}SAlk)_{6-m}(\mu\text{-}X)_m(HgX)_4]^{2-}$ anions, structures of $(Ph_4P)_2[(\mu\text{-}SEt)_5(\mu\text{-}Br)(HgBr)_4]$, $(Et_4N)_2[(\mu\text{-}I)(\mu\text{-}SPr^n)(HgI_2)_2]$" P.A.W. Dean, J.J. Vittal, Y. Wu, *Inorg. Chem*., 33 (1994) 2180-2186

63. "Cleavage, Reassembly of Trinuclear Palladium Clusters in Reactions in Isocyanide Ligand" M. Rashidi, J.J. Vittal, R.J. Puddephatt, *J. Chem. Soc. Dalton Trans*., (1994) 1283-1289.

62. "Structures of Two Forms of *cis*-Dimethylbis(methylisocyanide) platinum(II)" N.H. Dryden, R.J. Puddephatt, S.Roy, J.J. Vittal, *Acta.Crystallogr*., C50 (1994) 533-536

61. "Isocyanide, Diisocyanide Complexes of a Tripalladium Cluster"
M. Rashidi, E. Kristof, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*., 33 (1994) 1497-1501

1993

60. "Metal-thiolate Chemistry: The structure of the First Adamantane-type Cation [(μ-$SPh)_6(HgPPh_3)_4]^{2+}$", J. J. Vittal, P.A.W. Dean, N.C. Payne, *Can. J. Chem*. 71 (1993) 2043-2050

59. "(Isocyanoaryl)acetylides as Bridging Ligands in Rigid-rod Polymers: Mononuclear, Oligonuclear Gold(I) Complexes"
G. Jia, N.C. Payne, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 12 (1993) 4771-4778

58. "Organoplatinum(IV) Polymers, Model Complexes by Oxidative Addition of Bromoacetate Esters", S. Achar, J.D. Scott, J.J. Vittal, R.J. Puddephatt, *Organometallics*, 12 (1993) 4592-4598

57. "Synthesis, NMR Spectra (^{31}P, ^{111}Cd, ^{77}Se) of Adamantane-like Phosphine Complexes with the (μ-$ER)_6Cd_4$ Core, the Crystal, Molecular Structure of $[(\mu\text{-}SPr^i)_6(CdPPh_3)_2\ CdOClO_3)_2]$"
P.A.W. Dean, N.C. Payne, J.J. Vittal, Y. Wu, *Inorg. Chem*., 32 (1993) 4632-4639

56. "Organometallic Polymers with Gold(I) Centers Bridged by Diphosphines, acetylides".
G. Jia, R.J. Puddephatt, J.D. Scott, J.J. Vittal, *Organometallics*, 20 (1993) 3565-3574

55. "Addition of oxygen to a Pt_3Re cluster complex: A model for dissociative chemisorption of oxygen", J. Xiao, J.J. Vittal, R.J. Puddephatt, L. Manojlovic-Muir, K.W. Muir, *J. Amer. Chem. Soc*. 115 (1993) 7882-7883

54. "Coordination-Induced keto-enol tautomerization in the formation of Ni^{2+}, Cu^{2+} complexes of a fluorinated keto-diol". J.J. Vittal, C.J. Willis, *Can. J. Chem*., 71 (1993) 1051-1056

53. "Cobalt carbonyl complexes with bridging diphosphine ligands". H.A. Mirza, J.J. Vittal, R.J. Puddephatt, C.S. Frampton, L. Manojlovic-Muir, W. Xia, R.H. Hill, *Organometallics*, 12 (1993) 2767-2776

52. "Selective anion inclusion in Calix(4)arene complexes driven by face-bridging μ_4-halide binding"
W.Xu, J.J. Vittal, R.J. Puddephatt, *J. Amer. Chem. Soc*. 115 (1993) 6456-6457

51. "Oxidative addition of E-E bonds (E = Group VI element) to Platinum(II): A route to Platinum(IV) thiolate, selenolate complexes", K.-T. Aye, J.J. Vittal, R.J. Puddephatt, *J. Chem.Soc., Dalton Trans*., (1993) 1835-1839

50. "New Precursors for chemical vapor deposition of silver", N.H. Dryden, J.J. Vittal, R.J. Puddephatt, *Chem. Mater*., 5 (1993) 765-766

49. "Bridged derivatives of the heteronuclear carbonyl complexes $[CoM(CO)_9]$ (M = Mn, Re)"
D.J. Elliot, D.G. Olah, A.N. Hughes, J.J. Vittal, R.J. Puddephatt, Organometallics, 12 (1993) 1225-1230

48. "Monomeric to Polymeric Gold(I) complexes from bifunctional ligands $R_2C{\equiv}CH$"
G. Jia, R.J. Puddephatt, J.J. Vittal, *J. Organomet. Chem*., 49 (1993) 211-217

47. "A new route to binuclear, trinuclear Ruthinium carbonyl derivatives: Structures of $[Ru_3(\mu_3\text{-}O)(\mu_3\text{-}CO)(CO)_3(\mu\text{-}Ph_2PCH_2PPh_2)_3]$, its proton adduct", H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*., 32 (1993) 1327-1332

46. "Synthesis, Structure, Nuclear Magnetic Resonance Spectra (^{111}Cd, ^{23}Na) of Tetramethylammonium hexakis (thiobenzoato) dicadmiumsodium)ate. A Trinuclear anion with cadmium in trigonal planar coordination, sodium in octahedral coordination"
J. J. Vittal, P.A.W. Dean, *Inorg. Chem*., 32 (1993) 791-794

45. "Photochemical dimerization reactions on N-Acylindoles". D.L. Oldroyd, N.C. Payne, J.J. Vittal, A.C. Weedon, B. Zhang, *Tetrahedron Letters*, 34 (1993) 1087-1090

44. "Simultaneous hydrogen bonds from a carbonyl group to two fluorinated alcohols: The structure of 1,1,1,7,7,7-hexafluoro-2,6-bis(trifluoromethyl)-4-heptanone-2,6-diol", J. J. Vittal, C.J. Willis, *Acta Crystallogr*. C49 (1993) 310-313

43. "Rigid-rod compounds: Monomeric, oligomeric complexes with Gold(I) centers bridged by (isocyanoaryl)acetylides", G. Jia, R.J. Puddephatt, J.J. Vittal, N.C. Payne, *Organometallics*, 12 (1993) 263-265

42. "The mechanism of synthesis, the unexpected structure of the cluster $[Pt_2Re(\mu\text{-}CO)_2(CO)_6(\mu\text{-}dppm)_2]$ (dppm = $Ph_2PCH_2PPh_2$)", J.Xiao, J.J. Vittal, R.J. Puddephatt, *J. Chem. Soc. Chem. Commun*., 1993) 167-169

41. "Anion Inclusion by a Calix(4)arene Complex: A contrast between tetranuclear Gold(I), Copper(I) complexes", Wei Xu, J.P. Rourke, J.J. Vittal, R.J. Puddephatt, *J. Chem.Soc. Chem. Commun*., (1993) 145-147

40. "Structure of dichloro(η^5-cyclopentadienyl)(2-propenyl-η^5-cyclopentadienyl) titanium(IV)" L. Gelmini, R.J. Puddephatt, J.J. Vittal, *Acta Crystallogr.,* C49 (1993) 30-33

1992

39. "Isomerism in Adamantane-like inorganic compounds" J.J. Vittal, *J. Chem. Educ*., 69 (1992) 955-957

38. "A facile Digermene-to-Germylgermylene rearrangement; bulky Germylene insertion into the Si-H bond", K.M. Baines, J.A. Cooke, J.J. Vittal, *J. Chem. Soc. Chem. Commun*., (1992) 1484-1485

37. "Gold Complexes, Polymers with Pyridinethiols: The crystal, molecular structure of [AuCl(pyridinium-2-thione)]". G. Jia, R.J. Puddephatt, J.J. Vittal, *Polyhedron*, 11 (1992) 2009-2014

36. "Some mechanistic aspects of hypergolic ignition: Reactions of dinitrogen tetroxide with solid amines, their mixtures with magnesium". S.R. Jain, J.J. Vittal, T. Mimani, *Defence Sci. J*. 42 (1992) 5-12.

35. "Synthesis, multinuclear magnetic resonance spectra, chemistry of some complexes $[(\mu\text{-}SR)_6(MX)_4]^{2-}$ (R = alkyl; M = Zn or Cd; X = Cl, Br or I), the X-ray structural analysis of $(Et_4N)_2[(\mu\text{-}SPr^i)_6(CdBr)_4]$", P.A.W. Dean, J.J. Vittal, Y. Wu, *Can. J. Chem*., 70 (1992) 779-791

34. "Metal-Selenolate Chemistry. Stereochemistry of adamantane type clusters of formula $[(\mu\text{-}EPh)_6(MEPh)_4]^{2-}$ (M = Zn & Cd)", J. J. Vittal, P.A.W. Dean, N.C. Payne, *Can. J. Chem*. 70 (1992) 792-801

33. "Triply bridging alkyne complexes of Palladium." M. Rashidi, G. Schoettel, J.J. Vittal, R.J. Puddephatt, *Organometallics* 11 (1992) 2224-2228

32. "Molecular structures of a siladigermirane, a cyclotrigermane", K.M. Baines, J.A. Cooke, N.C., J.J. Vittal, *Organometallics* 11 (1992) 1408-1411

31. "Protonation of a metal-metal bond can lead to bond shortening", D.J. Elliot, J.J. Vittal, R.J. Puddephatt, D.H. Holah, A.N. Hughes, *Inorg. Chem*. 31(1992) 1247-1250

1991

30. "Methyl isocyanide complexes of Trinuclear Platinum cluster. A model for chemisorption of isocyanides on Platinum Surfaces. Crystal Structure of $[Pt_3(CNMe)_2(\mu\text{-}Ph_2CH_2PPh_2)_3]$

$[PF_6]_2.3Me_2CO$", R.J. Puddephatt, M. Rashidi, J.J. Vittal, *J. Chem. Soc. Dalton Trans*. (1991) 2835-2843

29. "Synthesis, structure, reactivity of Pt_3Au, Pt_3Au_2 cluster complexes", N.C. Payne, R. Ramachandran, G. Schoettel, J.J. Vittal, R.J. Puddephatt, *Inorg. Chem*. 30 (1991) 4048-4053

28. "An unusual heptanuclear Co_4Cu_3 cluster complex. A copper(III) cluster derivative?" H.A. Mirza, J.J. Vittal, R.J. Puddephatt, *J. Chem. Soc. Chem. Commun*., (1991) 309-310

27. "A study of the substitution of some fluoroaromatics using $[Pb(EPh)_3]^-$ (E = S or Se) as a source of theEPh^- nucleophile". S.H. Blanchard, P.A.W. Dean, V. Mannivannan, R.S. Srivastava, J.J. Vittal, *J. Fluorine Chem*. 51 (1991) 93-101

1990, before

26. "Synthesis, multinuclear magnetic resonance study of some tin(IV) complexes of pyridine-2-thiolate, related ligands, X-ray structural analysis of $Sn(C_5H_4NS)_4.C_5H_5NS$". L.C. Damude, P.A.W. Dean, V. Mannivannan, R.S. Srivastava, J.J. Vittal, *Can. J. Chem*. 68 (1990) 1323-1331

25. "Easy, reversible addition of mercury to triplatinum clusters: A model for the first step in amalgamation of platinum". G. Schoettel, J.J. Vittal, R.J. Puddephatt, *J. Amer. Chem. Soc*. 112 (1990) 6400-6402

24. "Stereochemistry of the oxidative addition of an epoxide to Platinum(II): Relevance to catalytic reactions of expoxides". K-T. Aye, L. Gelmini, N.C. Payne, J.J. Vittal, R.J. Puddephatt, *J. Amer. Chem. Soc*., 112 (1990) 264-2465

23. "New adamantane-like Mercury-chalgen cages. 2. Synthetic, multinuclear (^{31}P,^{77}Se, 123Te, ^{199}Hg) magnetic resonance study of Tellurolate-bridged Mercury(II) clusters $[(\mu\text{-}TeR)_6\ (HgPR'_3)^4]^{2+}$, $[(\mu\text{-}TeR)_6(Hg)(HgPR'_3)_3]^{2+}$ related species with mixed bridging chalcogenates" P.A.W. Dean, V. Mannivanan, J.J. Vittal, *Inorg. Chem*. 28 (1989) 2360-2368

22. "A simpler paper model for Buckminsterfullerene" J.J. Vittal, *J. Chem. Educ*., 66 (1989) 282

21. "Chemical aspects of the synergistic hypergolic ignition in hybrid systems with N_2O_4 as oxidizer" S.R. Jain, T. Mimani, J.J. Vittal, *Combustion Sci., Technol*. 64 (1989) 29-41

20. "Reactivity of Hydrazinium hydrazinecarboxylate - Synthesis of 2,5-dimethyl-1-amino-1,2,4-triazole" J.J. Vittal, V.B. Angadi, K.C. Patil, *J. Indian Inst. Sci*., 69 (1989) 119-124.

19. "Halogen, pseudohalogen substitution of some adamantanoid chalcogenate clusters $[(\mu\text{-}EPh)_6(MEPh)_4]^{2-}$ using methylmercury, triphenyltin derivatives. A multinuclear NMR Study". P.A.W. Dean, J.J. Vittal, *Can. J. Chem*. 66 (1988) 2443-2451.

18. "Synthesis, ^{31}P NMR spectroscopic study of $[Ag(\mu\text{-}R_2PCH_2PR_2)_3Ag]^{2+}$ (R = Me or Ph). Observation of an intramolecular "end-over-end" exchange of bridging $R_2PCH_2PR_2$" P.A.W. Dean, J.J. Vittal, R.S. Srivastava, *Can. J. Chem*. 65 (1987) 2628-2633

17. "New adamantane-like mercury-chalcogen cages. A synthetic, multinuclear (^{31}P, ^{77}Se, ^{199}Hg) NMR study of $[(\mu\text{-}ER)_6(HgL)_4]^{2+}$ (E = S or Se; L = Tertiary phosphine or arsine), related species with mixed ligands". P.A.W. Dean, J.J. Vittal, M.H. Trattner, *Inorg. Chem*. 26 (1987) 4245-4251

16. "Syntheses of $(Me_4N)_2[(\mu\text{-}EPh)_6(MX)_4]$ (M = Cd or Zn; E = S, Se; X = Cl, Br or I). Crystal, Molecular Structures of $(Me_4N)_2[(\mu\text{-}EPh)_6(CdBr)_4]$ (E = S, Se), characterization of $[(\mu\text{-}EPh)_6(CdX)_4]^{2-}$ in solution by ^{113}Cd, ^{77}Se NMR". P.A.W. Dean, J.J. Vittal, N.C. Payne, *Inorg. Chem*. 26 (1987) 1683-1689.

15. "Substitution, Redistribution Reactions of Tetranuclear Clusters $[(\mu\text{-EPh})_6(ZnSePh)_4]^{2-}$, $[(\mu\text{-EPh})_6(ZnX)_4]^{2-}$: A 77-Se NMR Study." P.A.W. Dean, J.J. Vittal, *Inorg. Chem*. 26 (1987) 278-283.

14. "Cadmium-113 Nuclear Magnetic Resonance Spectroscopic Study of Some mixed-Ligand Tetranuclear Clusters of the type $[Cd_4(EPh)_x(E'R)_{10-x}]^{2-}$, of the Mixed Metal Clusters $[Cd_4Zn_{4-x}(SPh)_{10}]^{2}$", P.A.W. Dean, J.J. Vittal, *Inorg. Chem*., 25 (1986) 514-519

13. "Simple Synthesis, ^{113}Cd NMR Spectroscopic Characterization of fully terminally substituted clusters $[(\mu\text{-EPh})_6(CdX)_4]^{2-}$ (E = S or Se; X = Br or I)".
P.A.W. Dean, J.J. Vittal, *Inorg. Chem*. 24 (1985) 3722-3723

12. "Structure of a Lead(II) salt of Ethane-1,2-dithiol, a simple analogue of Therapeutic Chelating Dithiols". P.A.W. Dean, J.J. Vittal, N.C. Payne, *Inorg. Chem*., 24 (1985) 3594-3597.

11. "Syntheses, X-ray Structural Analyses of $[(C_6H_5)_4As]$ $[Sn(EC_6H_5)_3]$, (E = S, Se)"
P.A.W. Dean, J.J. Vittal, N.C. Payne, *Can. J. Chem*. 63 (1985) 394-400

10. "Discrete Trigonal Pyramidal Lead(II) Complexes: Syntheses, X-ray Structure Analyses of $[(C_6H_5)_4As][Pb(EC_6H_5)_3]$, (E = S, Se)", P.A.W. Dean, J.J. Vittal, N.C. Payne, *Inorg. Chem*. 23 (1984) 4232-4236

9. "Observation of two bond ^{113}Cd-^{111}Cd Nuclear Spin-spin coupling in $[Cd_4SPh_{10}]^{2-}$"
P.A.W. Dean, J.J. Vittal, *J. Amer. Chem. Soc*. 106 (1984) 6436-6437

8. "Preparation, characterization, thermal properties of di-N-isothiocyanato dihydrazine metal(II)", K.C. Patil, J.P. Vittal, C.C. Patel, *Proc. Indian Acad. Sci*. 92A (1983) 83-89

7. "Synthesis, thermal decomposition studies of some Hydrazinium salts"
K.C. Patil, J.P. Vittal, C.C. Patel, *J. Thermal. Anal*. 26 (1983) 191-198

6. "Synthesis, characterization of new sulfate derivative of Hydrazine, $N_2H_5HSO_4$"
K.C. Patil, J.P. Vittal, J. *Chem. Soc. Dalton Trans*., (1982) 2291-2293.

5. "DSC Studies of the phase transformation of Hydrazonium sulfate", K.C. Patil, J.P. Vittal, *Materials Chem*. 7 (1982) 577-586

4. "Pyrolysis, combustion of α-Cellulose: Effect of dihydrazinium phosphate, $(N_2H_5)_2HPO_4$"
K.C. Patil, J.P. Vittal, C.C. Patel, *Thermochim. Acta*, 43 (1981) 213-219

3. "Monohydrazinium phosphate as flame retardant", K.C. Patil, J.P. Vittal, C.C. Patel, *J. Fire Retardant Chem*. 7 (1980) 3-8.

2. "Preparation, characterization, thermal properties of Hydrazinium derivatives. Part III"
K.C. Patil, J.P. Vittal, C.C. Patel, Proc. Indian Acad. Sci. 89A (1980) 87-93

1. "Hydrazinium thiocyanate as a reagent for determination of Copper", J.P. Vittal, C.R. Anantasubramaniam, R. Soundararajan, K.C. Patil, *Talanta* 26 (1979) 1042-1043