

JJ Vittal's Publications – May 2024

ORCID: 0000-0001-8302-0733 and Researcher ID: B-2541-2010. About 500 research papers and reviews – Google Scholar: ~28,500 citations & h-index 83. 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 thermosolient 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

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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

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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

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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 *CrystEngComm* 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.

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499. "Impact of Structural Modification of Diamondoid Cd(II) MOFs on the Nonlinear Optical Properties," M. Gupta, Z. Zhu, D. Kottlilil, 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. Kottlilil, 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) (2021) 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

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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

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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

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480. "Structural Transformation of Photoreactive Helical Coordination Polymers to Two-Dimensional Structures," B.B. Rath, G.K. Kole, J.J. 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
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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
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468. "Curved crystal morphology, photoreactivity and photosolient 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
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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
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464. Halogen...Halogen Interactions in the Supramolecular Self-Assembly of 2D Coordination Polymers and CO₂ 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)Cu₂(O₂CCH₃)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.
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Cover page)

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