



1. **Personal information**
 - Full name Nonappa
 - ORCID <https://orcid.org/0000-0002-6804-4128>
 - Date of CV 25.04.2023
 - Website <https://research.tuni.fi/png/>
2. **Education, Degree, Titles, and Certificates**
 - **19.10.2018: Abilitazione Scientifica Nazionale (ASN)**, CHIM/07-Fondamenti Chimici delle Tecnologie, MIUR, Italy.
 - **26.05.2017: Title of Docent** in Soft Matter Microscopy, School of Science, Department of Applied Physics, Aalto University, Finland
 - **13.12.2008: Ph.D.** in Organic Chemistry, Department of Organic Chemistry, Indian Institute of Science, Bangalore, India. **Supervisor: Prof. Uday Maitra**
Thesis: *Synthesis, physicochemical studies and gelation properties of novel bile acid derivatives*
 - **24.05.2003: Master of Science (M.Sc. in Chemistry)**, Department of Chemistry, Mangalore University, Karnataka, India.
 - **19.06.2001: Bachelor of Science (B.Sc. in Chemistry, Botany and Pharmacognosy as equal options)**, Shri Dharmasthala Manjunatheshwara College, Ujire, Karnataka, India.
3. **Education, Degree, Titles, and Certificates**
 - **10.11.2020:** Executive Master of Business Administration, Quantic School of Business and Technology, USA
 - **04.05.2019:** Fundamentals of Business, Quantic School of Business and Technology, USA
4. **Current position:**
 - **03.08.2020-03.08.2025: Associate Professor (tenure track)** in Nanochemistry, Faculty of Engineering and Natural Sciences, Tampere University, Tampere, Finland.
 - **Research group page:** <https://research.tuni.fi/png/>
5. **Previous work experience**
 - **26.05.2017-31.07.2020:** Research Fellow and Docent, Department of Applied Physics, School of Science, Aalto University, Finland
 - **01.08.2012-25.05.2017:** Postdoctoral Researcher, Department of Applied Physics, School of Science, Aalto University, Finland. **Supervisor: Prof. Olli Ikkala**
Research topics: *Nanoparticle self-assembly, Cryo-TEM, electron tomography and hydrogels*
 - **15.02.2009-31.07.2012:** Postdoctoral Researcher, Department of Chemistry, University of Jyväskylä, Finland. **Supervisor: Prof. Erkki Kolehmainen**
Research topics: *Solid-state NMR of gels, cocrystals and polymorphs*
 - **15.08.2008-14.02.2009:** Visiting Ph.D. student, SITRA fellowship, Department of Chemistry, University of Jyväskylä, Finland
 - **23.09.2007-22.03.2008:** Visiting Ph.D. student, CIMO fellowship, Department of Chemistry, University of Jyväskylä, Finland
6. **Language skills**
 - Kannada, English, Hindi, Tulu, Finnish
7. **Personal research funding and grants as PI and Co-PI**
 - 01/2023-12/2025: BioBase: Academy of Finland Project funding, 578,000.00€ (PI)
 - 01/2023-06/2024: Intense: Research to Business, Business Finland, 499,530.00€ (PI)
 - 12/2020-12/2022: Immunate: Research to Business, Business Finland, 960,000.00€ (Co-PI)
 - 09/2017-12/2019: PreClinica: Research to Business, Business Finland, 500,000.00€ (PI)

8. Research output

Selected **ten** publications. Total publications: **90**, H-index: **32**, Patents: **2**

1. K. M. Lakshmi, J. V. Rival, S. R. Nambiar, P. Sreeraj, C. Jeyabharathi, Nonappa, E. S. Shibu, Precision Nanocluster-Based Toroidal and Supertoroidal Frameworks Using Photocycloaddition-Assisted Dynamic Covalent Chemistry. *Small* **2023**, *19*, 220719.
2. S. Chandra, A. Sciortino, S. Shandilya, L. Fang, X. Chen, Nonappa, H. Jiang, L.-S. Johansson, M. Cannas, J. Ruokolainen, R. H. A. Ras, F. Messina, B. Peng, O. Ikkala. Core-Selective Silver-Doping of Gold Nanoclusters by Surface-Bound Sulphates on Colloidal Templates: From Synthetic Mechanism to Relaxation Dynamics. *Adv. Opt. Mater.* **2023**, *11*, 2201901.
3. S. Chandra, A. Sciortino, S. Das, F. I. Ahmed, A. Jana, J. Roy, D. Li, V. Liljeström, H. Jiang, L.-S. Johansson, X. Chen, Nonappa, M. Cannas, T. Pradeep, B. Peng, R. H. A. Ras, Z. Sun, O. Ikkala, F. Messina. Gold Au(I)6 clusters with ligand-derived atomic steric locking: Multifunctional optoelectrical properties and quantum coherence. *Adv. Opt. Mater.* **2023**, *11*, 20220264.
4. A. Som, A. Griffo, I. Chakraborty, H. Hähl, B. Mondal, A. Chakraborty, K. Jacobs, P. Laaksonen, O. Ikkala, T. Pradeep, Nonappa. Strong and Elastic Membranes via Hydrogen Bonding Directed Self-Assembly of Atomically Precise Nanoclusters. *Small* **2022**, *18*, 2201707.
5. V. Linko, H. Zhang, Nonappa, M. A. Kostiainen, O. Ikkala. From Precision Colloidal Hybrid Materials to Advanced Functional Assemblies. *Acc. Chem. Res.* **2022**, *55*, 1785.
6. V. Hynninen, S. Chandra, S. Das, M. Amini, Y. Dai, S. Lepikko, P. Mohammadi, S. Hietala, R. H. A. Ras, Z. Sun, O. Ikkala, Nonappa. Luminescent gold nanocluster-methylcellulose composite optical fibers with low attenuation coefficient and high photostability. *Small* **2021**, *17*, 2005205.
7. J. V. Rival, P. Mymoona, K. M. Lakshmi, Nonappa, T. Pradeep, E. S. Shibu. Self-assembly of precision noble Metal nanoclusters: Hierarchical structural complexity, colloidal superstructures, and applications. *Small* **2021**, *17*, 2005718.
8. A. Chakraborty, A. C. Fernandez, A. Som, B. Mondal, G. Natarajan, G. Paramasivam, T. Lahtinen, H. Häkkinen, Nonappa, T. Pradeep. Atomically Precise Nanocluster Assemblies Encapsulating Plasmonic Gold Nanorods. *Angew. Chem. Int. Ed.* **2018**, *57*, 6522.
9. Nonappa, J. S. Haataja, J. V. I Timonen, S. Malola, P. Engelhardt, N. Houbenov, M. Lahtinen, H. Häkkinen, O. Ikkala. Template-Free Supracolloidal Self-Assembly of Atomically Precise Gold Nanoclusters: From 2D Colloidal Crystals to Spherical Capsids. *Angew. Chem. Int. Ed.* **2017**, *56*, 6473.
10. V. Liljeström, A. Ora, J. Hassinen, H. Rekola, Nonappa, M. Heilala, J. Joensuu, R. H. A. Ras, P. Törmä, O. Ikkala, M. A. Kostiainen. Cooperative colloidal self-assembly of metal-protein superlattice wires. *Nat. Commun.* **2017**, *8*, Article number: 671.

9. Leadership and supervision experience

- Number of Postdocs 4; Ph.D. Students: 8 (4 completed, 4 ongoing), Masters theses: 4

10. Teaching merits

- 2021-Present: Advanced Materials Characterization, Tampere University (yearly course 5Cr):
- 2021-Present: Bioorganic Chemistry, Tampere University (yearly course 5Cr)
- 2022-Present: Collaborative course between Polimi and TAU, Molecular Functional Materials.
- 2016-2019: Soft Matter Physics, Department of Applied Physics, Aalto University, Finland (5 Cr).

11. Awards and honors

- **Eli Lilly Asia Outstanding thesis** award by Eli Lilly & Company Ltd. Indianapolis, USA, in 2009.
- Prof. Gajendraghad **Gold Medal for Academic Excellence**, 2004.
- **Web of Science** top 1% reviewers for cross-field-2019, 2018, 2017.

12. Other key scientific or academic merits

- Peer reviewer for **88** international journals peer reviews
- 2022,2023-Panel of experts, National Science Centre (NCN), Poland
- 2021 –Scientific experts for the scientific evaluation of Italian research (REPRISE), Italy
- Doctoral thesis evaluation: Opponent 5; Thesis reviewer: 8
- 2019 – Evaluator, Leading Fellow, TU Delft, and LE-STUDIUM, HORIZON 2020, France

13. Memberships and positions of trust in scientific societies

- 2016 – Member of Royal Society of Chemistry (MRSC)
- 2016 – Member American Chemical Society (ACS)

14. Presentations/invited lectures in internationally established conferences

Total conference presentations: 100, including GRC on Precision Nanomaterials, USA (2022); ACS (2020), SCANDEM, Trondheim, Norway (2021), FICS-IIT Guwahati, India (2019), GRC on Mammary Gland Biology, Italy (2018), RSC MC-13, Liverpool, UK (2018); Supramolecular Chemistry, IISER Kolkata, India (2018); EBS-2018, Maastricht, the Netherlands (2018); ACS, San Diego, USA (2016); IMRC, Cancun, Mexico (2015); NICE Biomaterials, Nice, France (2016); Biomaterials, Potsdam, Germany (2016); ISSPIC-Jyväskylä, Finland (2016); MMCE-Ljubljana, Slovenia (2009); Valtice NMR, Czech Republic (2009, 2010, 2011).