
List of Technical Publications

In Peer-reviewed International Specific Journals

[A] From the research work incorporated in the Ph. D. thesis

- 1) Innovative biofilm inhibition and anti-microbial behavior of molybdenum sulfide nanostructures generated by microwaveassisted solvothermal route.
Nilam Qureshi, Rajendra Patil, Manish Shinde, Govind Umarji, Valerio Causin, Wasudev Gade, Uttam Mulik, Anand Bhalerao, Dinesh Amalnerkar.
Applied Nanoscience, 5, 2015, 331-341.
- 2) Superior dielectric performance of engineering thermoplastic as a result of in situ embedding of nanoscale mixed-phase molybdenum oxide.
Nilam Qureshi, Manish Shinde, R. Ratheesh, Anand Bhalerao, Bharat Kale, Uttam Mulik, Dinesh P. Amalnerkar.
Journal of Electronic Materials, 44(7), 2015, 2269-2275.
- 3) Sub-micron/nano-scale polymorphs of molybdenum oxide with tuned structural and morphological features embedded in engineering thermoplastic.
Nilam Qureshi, Manish Shinde, Anand Bhalerao, Bharat Kale, Uttam Mulik, Dinesh Pundalik Amalnerkar.
Materials Focus, 5, 2016, 17-23.
- 4) Nano-scale MoO_3 entrapped in engineering thermoplastic: inorganic pathway to bactericidal and fungicidal action.
Nilam M. Qureshi, Ravindra D. Chaudhari, Pramod C. Mane, Manish Shinde, Sandesh Jadakar, Sunit Rane, Bharat Kale, Anand Bhalerao, Dinesh Amalnerkar.
IEEE Transactions on NanoBioscience, 15(3), 2016, 258-264.

[B] Allied publications from research group

- 1) Innate approach for fabrication of nickel oxide nanocomposite in pellet form and their magneto-electric properties.
Nilam Qureshi, Govind Umarji, Manish Shinde, Vivek Rane, Lalit Borde, Uttam Mulik, Dinesh Amalnerkar.
Materials Express, 3 (1), 2013, 79-84.
- 2) Synthesis of cobalt oxide nanostructures by microwave assisted solvothermal technique using binary solvent system.
Manish Shinde, **Nilam Qureshi**, Sunit Rane, Uttam Mulik, Dinesh Amalnerkar.
Physical Chemistry Communications, 2(1), 2015, 1-9.

- 3) Instantaneous synthesis of faceted nanostructures of iron oxide using microwave solvothermal assisted combustion technique.

Manish Shinde, **Nilam Qureshi**, Sunit Rane, Jang Ah Kim, Taesung Kim and Dinesh Amalnekhar.

Accepted in Journal Nanoscience and Nanotechnology.

- 4) Morphological evolution of nanorod like to submicron brick like cobalt oxide structures under microwave solvothermal regime

Manish Shinde, **Nilam Qureshi**, Sunit Rane, Chisung Ahn, Taesung Kim and Dinesh Amalnekhar.

Accepted in Science of Advanced Materials.

- 5) Comparative physico-chemical investigations on processed moth caterpillar silks from northern western ghats.

Pramod C. Mane, **Nilam Qureshi**, Manish Shinde, Uttam Mulik, Dinesh Amalnekhar, Ravindra D. Chaudhari

Accepted in Journal of Polymeric Materials.

- 6) Electrically Conductive Photo-patternable Silver Paste for High Frequency Ring Resonator and Band Pass Filter

G. Umarji, **Nilam Qureshi**, S. Gosavi, U. Mulik, A. Kulkarni, T. Kim, D. Amalnekhar,

Accepted in Journal of Electronic Materials (Online)

[C] Manuscripts under preparation

- 1) Sol-gel assisted morphological evolution from 1-D to 2-D MoO₃ nanostructures for endowing rapid photocatalysis.

Nilam Qureshi, Sudhir Arbuj, Manish Shinde, Sunita Jadhav, Milind Kulkarni, Bharat Kale, Anand Bhalerao, Taesung Kim and Dinesh Amalnekhar.

Submitted to Crystal Engg. Communication.

Publications in Conferences

- 1 Synthesis of multi-utility NiCo₂O₄ nanocomposite for sensor applications.

Swapna Sadekar, Manish Shinde, **Nilam Qureshi**, Govind Umarji, Sunit Rane, Lalita Rane, Uttam Mulik

Raman Memorial Conference (2012), Pune University, 3-5 March 2012, (Poster presentation)

- 2 Generation of nanoparticles of Mo/MoO₃ confined within pps matrix using solid state reaction approach.

Madhuri Ombale, **Nilam Qureshi**, Manish Shinde, Govind Umarji, Jalinder Ambekar, Sunit Rane, Popat Tamade, Uttam Mulik

Raman Memorial Conference (2012), Pune University, 3-5 March 2012,
(Poster presentation)

- 3 Microwave assisted 'green' synthesis of ZnS:Cu nanoparticles for exploring photo-conductor application.

Sonali Sabale, Govind Umarji, Manish Shinde, **Nilam Qureshi**, Rajendra Panmad, Sunit Rane, Lalita Rane, Uttam Mulik

Raman Memorial Conference (2012), Pune University, 3-5 March 2012,
(Poster presentation)

- 4 Synthesis of cobalt oxide nanostructures by microwave assisted solvothermal route.

Manish Shinde, **Nilam Qureshi**, Sunit Rane, Suresh Gosavi, Dinesh Amalnerkar

NanoSciTech 2012, Punjab University, 15-18 February 2012,
(Poster presentation)

- 5 Nanocomposite of Nickel Oxide: In situ synthesis and characterization.

Nilam Qureshi, Govind Umarji, Manish Shinde, Lalit Borde, Uttam Mulik, Dinesh Amalnerkar

NanoSciTech 2012, Punjab University, 16-18 February 2012,
(Oral presentation)

- 6 Spanking Antimicrobial Applications of Nano-structures of Molybdenum sulfide synthesized via expedient route.

Nilam Qureshi, Rajendra Patil, Manish Shinde, Govind Umarji, Wasudev Gade, Valerio Causin, Uttamrao Mulik and Dinesh Amalnerkar

Bangalore India Bio 2012, Bangalore, 5-8 February 2012,
(Poster presentation)

- 7 Facile Recipe for Synthesis of Molybdenum Sulfide Based Nano-composite.

Nilam Qureshi, Govind Umarji, Manish Shinde, Uttam Mulik, Dinesh Amalnerkar

ICANN-2011 Conference to be held in December at IIT, Guwahati.
(Poster presentation)

- 8 Vivid Studies Pertaining to Synthesis of Nanostructure of Molybdenum Sulfide.

Nilam Qureshi, Manish Shinde, Govind Umarji, Uttam Mulik, Dinesh Amalnerkar

NMD-ATM Conference 2011, November 15-17 at Hyderabad.
(Poster presentation)

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- 9 In-situ synthesis and characterization of nanoscale nickel oxide based composite via novel polymer inorganic solid state reaction.

Nilam Qureshi, Govind Umarji, Manish Shinde, Jalinder Ambekar, Suresh Gosavi, Uttam Mulik, Dinesh Amalnerkar

Nanocon-010, Organized by Bharati Vidyapeeth, Pune

(Poster presentation)

- 10 Synthesis of cobalt oxide nanostructures by microwave assisted solvothermal technique using binary solvent system.

Manish Shinde, Nialm Qureshi, Sunit Rane, Uttamrao Mulik, Dinesh Amalnerkar.

Nanocon-012, Organized by Bharati Vidyapeeth, Pune

(Poster presentation)

- 11 Innate approach for fabrication of nickel oxide nanocomposite in pellet form and their magneto-electric properties.

Nialm Qureshi, Govind Umarji, Manish Shinde, Vivek Rane, Lalit Borde, Uttam Mulik, Dinesh Amalnerkar.

Nanocon-012, Organized by Bharati Vidyapeeth, Pune

(Poster presentation)

Patents

- 1) Expedient synthesis of molybdenum sulfide nano-particles.

Qureshi Nilam; Umarji Govind; Shinde Manish; Mulik Uttamrao; and Amalnerkar Dinesh

Indian Patent (Provisional), Application No. 1785/MUM/2011

- 2) Formulations comprising molybdenum sulfide nanoparticles.

Qureshi Nilam; Shinde Manish; Umarji Govind; Patil Rajendra; Gade Wasudev; Mulik Uttamrao; Amalnerkar Dinesh

Indian Patent (Provisional), Application No. 2583/MUM/2011

Awards

- 1) Vivid studies pertaining to synthesis of nanostructures of molybdenum oxide.

Nilam Qureshi, Govind Umarji, Manish Shinde, Uttam Mulik, Dinesh Amalnerkar

23rd AGM, MRSI, held at Thapar University, Patiala in 13-15 Feb. 2012.

(The Best Poster Presentation Award (1st position))

- 2) Facile recipe for synthesis of molybdenum sulfide based nano-composite.
Nilam Qureshi, Govind Umarji, Manish Shinde, Uttam Mulik, Dinesh Amalnerkar
FNE-2012, held at Sharada University, Noida in 7-9 Jan. 2012.
(The Best Poster Presentation Award (3rd position))
- 3) Nanocomposite of nickel oxide: *in-situ* synthesis and characterization.
Nilam Qureshi, Govind Umarji, Manish Shinde, Lalit Borde, Uttam Mulik, Dinesh Amalnerkar
National Conference on Recent Initiatives towards Green Electronics (NCRIGE2013), Amravati University, 8-9 February 2013.
(Best Young Scientist Award)