

Detailed Biodata:

Name: Dr. Amit Dubey

Date of Birth: April 28, 1973

Nationality: Indian

Correspondence Address: Dr. Amit Dubey
Professor and Head
Department of Chemistry
MA National Institute of Technology – (MANIT)
Bhopal (M.P.)

E-mail: dramit.dubey@gmail.com, amitdubeydr@manit.ac.in

Tel: 08085385963

Permanent Address: Dr. Amit Dubey
S/O Sh. T.C. Dubey (Rtd. Principal)
Village-Malahat
Near Professor Colony,
Nangal Road- Una, District-UNA (H.P)
PIN-174303

Educational qualification:

Degree	Board/University	Year	Subject	Division
10th	H.P. Board-Dhramsala	1988		First
10+2	H.P. Board- Dhramsala	1990	Phy,chem,Maths &English	First
B.Sc.	H.P. University-Shimla	1993	Phy,Chem, Maths	First
M.Sc.	Kurukshetra University- Kurukshetra	1996	Chemistry (organic)	First
Ph.D	Central Salt and Marine Chemicals Research Institute- Bhavnagar (CSIR)-Gujarat	2003	Chemistry	

Professional Experience

S.No	Name of the Institute	Position Held	Period
1.	Physical Research Laboratory-Ahmedabad (A Unit of Dept. of Space, Govt of India)	Project Associate	August 1997 to January 1999
2.	Central Salt and Marine Chemicals Research Institute (CSMCRI)- Bhavnagar (CSIR)	Ph.D (degree)	February 1999 to August 2003
3.	Korea Advanced Institute of Science and Technology-Daejeon, Centre for Functional Nanomaterials, Daejeon, South Korea	Post Doctoral Research Fellow	September 2003 to June 2005
4.	National Chemical Laboratory (NCL) – Pune	Research Associate-(CSIR)	August 2005 to December 2005
5.	Birla Institute of Technology and Science (BITS), Pilani (Rajasthan)	Assistant Professor	January 2006 to July 2010.
6.	Maulana Azad National Institute of Technology –Bhopal (M.P.)	Associate Professor	July 2010 to December 2018
7.	Maulana Azad National Institute of	Professor	December 2018

	Technology –Bhopal (M.P.)		to till date
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Research Projects Completed:

1. Synthesis and Characterization of Silica Polymer Nanocomposites for Environmentally benign, Biological and Industrially significant organic transformations.” DST Fast Track, July, 2007-2010.
2. Synthesis and Characterization of Functionalized Ordered Mesoporous Silica Nanocomposites for Advanced Applications, MPCOST (Madhya Pradesh Council of Science & Technology), 2011-14.
3. Structure –Activity relationship of functionalized nanoporous carbons and their polymeric nanocomposites for significant organic transformations, CSIR, 2012-15

Thesis supervision:

No. of PhD degree supervised (Completed): 07

Administrative Experience:

- (i) Head of the Department, Chemistry, May 2023 to till date
- (ii) Head of the Department, Chemistry, June,2012- July, 2015
- (iii) Assistant Proctor, 23-06-11 to 26-08-11
- (iv) Deputy Proctor, June, 2011 to June 2013.
- (v) Member, Admission Committee UG, 2011
- (vi) Member, Admission Committee UG, 2012
- (vii) Coordinator, Academic Audit of the Institute, May 11-12, 2011
- (viii) Committee Member, Convocation, 2010, 2011, 2012
- (ix) Member, Techno-search and Maffic Programme, March,3-6, 2011
- (x) Warden, Boys Hostel, BITS-Pilani (Two years)
- (xi) Doctoral Counseling Committee (Two Years)

List of significant publications:

1. Synthesis, characterization and catalytic hydroxylation of phenol over CuCoAl-ternary hydrotalcites. A. Dubey, V. Rives and S.Kannan. *Phys. Chem. Chem. Phy*, 3, 2001, 4825-4836.
2. Catalytic hydroxylation of phenol over CuNiAl-ternary hydrotalcites A. Dubey, V. Rives and S. Kannan. *J. Mol. Catal. A: Chemical* 181, 2002,151-160.
3. Catalytic hydroxylation of phenol over CuM(II)M(III)- ternary hydrotalcites , where M(II)=Ni or Co and M(III)= Al, Cr or Fe. A. Dubey, S.Velu, S. Suzuki and S. Kannan *Appl. Catal A. General* 238, 2003, 319-326.
4. Synergistic effects in the hydroxylation of phenol over CoNiAl ternary hydrotalcites. Vicente Rives, Amit Dubey and Srinivasan Kannan.. *J. Catal.*, 220, 2003, 161-171.
5. Synthesis and characterization of CuMgAl ternary hydrotalcites as catalysts for the hydroxylation of phenol. S. Kannan , A. Dubey , H. Knozinger, *J. Catal*, 231, 2005, 381-392 (Selected as TOP TEN articles of the year 2005)
6. Liquid phase hydroxylation of benzene over Cu-containing ternary hydrotalcites. A. Dubey and S.Kannan, *Catal. Commun.* 6, 2005, 394-398.
7. Mesoporous polymer–silica catalysts for selective hydroxylation of Phenol, Amit Dubey, Minkee Choi and Ryong Ryoo, *Green Chem.*, 2006, 8, 144-146.
8. Synthesis and catalytic applications of CMK-LDH nanocomposite materials (communication), Amit Dubey, *Green Chemistry*, 2007, 9, 424-426.

9. A simple and efficient protocol for the synthesis of substituted coumarins catalyzed by stannic (IV) chloride under solvent free condition, B.G.Mishra, A. Dubey and M.Mallari, **React. Kinet. And Catal. Lett.**, 91,1, 169-175, 2007.

10. Selective Oxidation of Aromatics over Silica-Polymer Nanocomposite materials, Amit Dubey and Braj Gopal Mishra **Catal. Commun.**, 8, 2007, 1507-1510.

11. Nanosized Sulfated SnO₂ dispersed in the micropores of Al-pillared clay as efficient catalyst for the synthesis of some biologically important molecules. **M. Swomya, B.G. Mishra, Amit Dubey, Applied Catalysis A**, 333, 2007,272-276.

12. Environmentally benign liquid phase oxidation of Vanillin over copper containing ternary hydrotalcites Amit Dubey, Divya Sachdev, Braj Gopal Mishra and S.Kannan **Catal. Commun.**, 9, 2008, 391-394.

13. Combustion synthesized, sulfate grafted zirconia and zirconia based nanocomposite oxides as novel catalysts for synthesis of substituted coumarins. B.G. Mishra, M.A. Naik, A. Dubey, **Colloid and Surface A, Physicochem. Aspects**, 317, 2008, 237-245.

14. Heterogeneous liquid phase synthesis of 3,4-Dihydropyrimidin-2(1H)-ones using aluminated mesoporous silica, Amit Dubey, Braja Gopal Mishra, Divya and Somaya **React. Kinet. And Catal. Lett.**, 93,1, 2008, 149-155.

15. Catalytic applications of sulfated tin oxide for synthesis of structurally diverse *f*-acetamido ketones and aryl-14h-dibenzo(a,j)xanthenes Mallari A. Naik, Braja Gopal Mishra, Amit Dubey and G. D. Hota **Bull. Catal. Soc. India**, 8 , 2009, 35-38.

16. Phosphomolybdic acid dispersed in Al-pillared clay (PMA/Al-PILC) as heterogeneous catalyst for the benign synthesis of benzoxanthenes under solvent free conditions Mallari A.

Naik, S. Samantaray, Braja Gopal Mishra, Amit Dubey. **React. Kinet. Catal. Lett**, 98, 1, 2009, 125-131.

17. Liquid phase aerial oxidation of benzoin over copper containing hydrotalcite, Divya Sachdev, Mallari A. Naik, Amit Dubey and Braj Gopal Mishra, **Catal. Commun**, *11*, 2010, 684-688.

18. Heterogeneous one step liquid phase synthesis of Phenytoin from calcined Hydrotalcites, Divya Sachdev and Amit Dubey **Catal. Commun**, *11*, 2010, 1063-1067.

19. Sulfonic acid functionalized mesoporous SBA-15 for one-pot synthesis of substituted aryl-14H-dibenzo xanthenes and bis(indolyl) methane, Mallari A Naik, Divya Sachdev, Amit Dubey **Catal. Commun.**, *11*, 2010, 1148-1151

20. Synthesis and Characterization of Silica-Polymer nanocomposites functionalized with piperazine for the synthesis of β -nitro alcohols, Divya Sachdev and Amit Dubey, **Catal. Lett.** Catal Lett (2011) 141:1548–1556.

21. Properties and characteristics of sisal fibre reinforced composite, Amit dubey Ankita Sharma, S. Suresh, Amit Dubey, **Advanced Materials Research**, 2012, 585, 322-326

22. Synthesis, characterization and catalytic application of ordered mesoporous silica nanocomposites functionalized with chloroacetic acid (SBA-15/CA) Amit Dubey Divya Sachdev, Amit Dubey, **Advanced Materials Letters**, 2013, 4 (1), 39-45

23. Mesoporous silica/polyphosphoric acid (SBA-15/PPA) nanocomposites for acylation of naphthalene, AMIT DUBEY Divya Sachdev, **Catalysis Communications**, 2013, 39, 39–43

24. Debenzylation of vanillic acid over sulfosuccinic acid functionalized mesoporous silica nanocompositesAMIT DUBEY Divya Sachdev, G. Robin Wilson, Neel Mani Srivastava, **Catalysis Communications**, 51, 90-94

25. Insights from the Molecular Docking of Hydrolytic Products of Methyl Iso Cyanate (MIC) to Inhibition of Human Immune Proteins , RS Manish Kumar Tripathi, MohammAmit Dubey Yasir, Vikram Singh Gurjar, **Protiti Bose. Interdiscip Sci Comput Life Sci.**, 2014, 6, 1-8
26. Mesoporous silica polymer nanocomposites encapsulated with polyphosphoric acid for the synthesis of b-amino carbonyl compounds under environmental benign conditions†GRWAS Divya Sachdev, Amit Dubey, **New J.Chemistry**, 2014, 39, 2633-2641.
27. Ordered mesoporous silica polymer nanocomposites for the adsorption of bovine serum albumin (BSA), G. Robin Wilson, Ankita Sharma, Neel Mani Srivastava, Divya Sachdev • Amit Dubey, **Journal of Porous Materials**, 22,2015,333-337
28. Ferulic acid functionalized mesoporous silica polymer nanocomposites (SBA/FA) for the adsorption of Cr(VI). G. Robin Wilson, Ankita Sharma, Divya Sachdev and Amit Dubey. **J. of Porous Materials**, 2016, 23, 195-200.
29. Mesoporous Silica polymer nanocomposites functionalized with vinyl pyridine and vinyl pyrrolidinone for the sorption of Humic Acid. G. Robin Wilson and Amit Dubey, **Advanced Materials Letters**. 2016, 7(9), 760-764.
30. Antibacterial activity of vinyl imidazole(VI) functionalized silica polymer nanocomposites (SBA/VI) against Gram negative and Gram positive bacteria. Ankita Sharma, G. Robin Wilson and Amit Dubey, **New J. Chem.** 2016, 40,764-769.
31. Synthesis and Characterization of Trichloroisocyanouric acid functionalized mesoporous silica nanocomposite (SBA/TCCA) for the Acylation of Indole. G. Robin Wilson and Amit Dubey. **J. of Chemical Sciences**. 2016, 128, 1285-1290.

32. Piperazine functionalized mesoporous silica for selective and sensitive detection of ascorbic acid, Amit dubey Divya Sachdev, Priyanka H. Maheshwari, **Journal of Porous Materials** 23, 2016, 123-126

33. Vinyl carbazole (VC) functionalized mesoporous silica polymer nanocomposites (SBA/VC) for the antibacterial activity studies, Ankita Sharma, Amit Dubey, Rajnish Kurchania, **J Porous Mater** (2016) 23: 851-855

34. Surface modified mesoporous silica polymer nanocomposites for the sorption of dyes from aqueous solution. Ankita Sharma, Amit Dubey, **J Porous Mater** (2017) 24: 429-435.

35. 4-chloro-2, 6-pyridinedicarboxylic acid (CPDA) functionalized mesoporous silica nanocomposites for the synthesis of sinapaldehyde, S. Verma and A Dubey, **Kinetics and Catalysis**, 2020, Vol. 61, No. 1, pp. 112–118.

36. Vinyl Phosphonic Acid Functionalized Silica Polymer Nanocomposites for the Acylation of Phenol, Savita Vermaa and Amit Dubeya, ISSN 0023-1584, **Kinetics and Catalysis**, 2021, Vol. 62, No. 6, pp. 724–733

37. Esterification of methacrylic acid with epichlorohydrin over syringic acid functionalized mesoporous silica nanocomposites Amit Dubey · P. B. Gourav · Harjinder Singh, Reaction Kinetics, Mechanisms and Catalysis (2025) 138:1439–1451

38. Origin of selectivity in surface functionalized vinylpyridine mesoporous silica nanocomposites (VP/SBA) for Henry reaction, Amit Dubey, Journal of Porous Materials (2025) 32:447–454

Industrial Participation:

- (i) Practice School-1 (PS-1) Faculty, Gujarat Ambuja Cement Company Limited, Darlaghat, (H.P.), May-July, 2006.

- (ii) PS-1 Faculty, Grassroot Development Laboratory, Ahmedabad, May-July, 2008.
- (iii) PS-1 Faculty, Chambal Fertilizers and Chemicals Limited, Kota (Rajasthan), May-July, 2009.
- (iv) PS-1 Faculty, CDS Solution, Mumbai, May-July, 2010

Conferences/Workshops Organized:

- (i) Joint Secretary, International Conference on the Interface of Chemistry-Biology in Biomedical Research, Birla Institute of Technology & Science, PILANI, INDIA, 22 – 24 FEBRUARY 2008
- (ii) Secretary, National Conference on Green and Sustainable Chemistry (NCGSC-2010), Birla Institute of Technology & Science, Pilani (Rajasthan), during February 19-21, 2010
- (iii) Member, Organizing Committee, National Conference on Surfactants, Emulsions and Biocolloids with special focus on Biomimetic systems. BITS-Pilani-2007.
- (iv) Member, Organizing Committee, National Symposium on challenges in Drug Discovery Research: Networking Opportunities between Academia and Industry, BITS-Pilani, April 7-8, 2006.
- (v) Coordinator, Natural Products and the shifting paradigm in Drug Discovery, 2015, MANIT-Bhopal,
- (vi) Coordinator, All india Seminar on Recent Advances of Nanotechnology in Environmental and Biological Applications, IEE-Bhopal, November, 22-23, 2014.
- (vii) Coordinator, Five Day Short Term Training course on “Green Chemistry & Engineering, Present Past and Future” from 30 -06-14 to 04-07-14

Work Shops Attended:

- (i) Intensive Teaching workshop, BITS-Pilani, 06-01-07 to 25-04-07
- (ii) Short Term course on Green Catalysis for Industrial Applications 7-11 May,2012, MANIT-Bhopal.
- (iii) Recent Trends in Materials and Devices, Amity University, 2011

- (iv) Academic Workshop on Design and Management of Change, MANIT-Bhopal, 24-08-13
- (v) International Conference on Nanomaterials and Nanotechnology, University of Delhi, December, 18-21, 2011.
- (vi) International Workshop on Interactive Systems, Nanosensors, Photovoltaics and coatings for sustainable Built Environment, 10-11 January, 2013.
- (vii) International Conference on Recent Advances in Material Science and Technology, 2013” at NITK-Suratkal 17-01-13 to 19-01-13.
- (viii) Workshop on Innovative Teaching Methodology, MANIT-Bhopal, Jan 5-6, 2012.
- (ix) International Conference on Nanotechnology: Lessons from Nature and Emerging Technologies (July 25 -26, 2013)
- (x) Indo-UK seminar on "Molecular Imprinting: Strategies, Applications and Future Perspectives" during February 05-07, 2014 at NEERI (CSIR) Nagpur in collaboration with Cranfield University (UK).
- (xi) International Conference on Advanced Polymeric Materials (ICAPM 2013) 11- 13th October 2013 at International And Interuniversity Centre for Nano science and Nanotechnology, Mahatma Gandhi University, Kottayam, Kerala, India.
- (xii) Coordinator, Online Short Term Training Program on “Challenges and Opportunities in Designing Nanoarchitectonics of Nanoporous Carbon Materials for Industrial Applications” held during 16-20thSeptember, 2020, MANIT Bhopal