

CURRICULUM VITAE OF PROFESSOR M.M.MALIK



Dr. M. M. Malik

Designation	Professor (HAG), Physics												
Address Phone E-mail	Office : Department of Physics, MANIT, Bhopal, 462003, India Residence: A-4, Hill Crest, Lake View Colony Kohefiza, Bhopal, 462001 (o) 0755-4051590, ® 0755-4272973, Mobile : 9425016724 malikmm@manit.ac.in , manzar.malik@gmail.com												
Date of Birth	14 June 1965												
Educational Qualification	1. B.Sc. (Physics, Chemistry and Mathematics) Bhopal University, Bhopal 2. M.Sc. Physics with Electronics, Bhopal University, Bhopal 3. Ph.D. on the topic : “Electrical and Structural studies of Chalcogenide Glasses” Jamia Millia Islamia (A Central University), New Delhi												
Experience	34 years (30 years Teaching and Research in MANIT, Bhopal)												
Specialization	Amorphous Semiconductors, Nanostructured Materials, Luminescence , Solar Photovoltaics												
Publication	<table> <tr> <td>1. International Journals</td><td>104</td></tr> <tr> <td>2. Proceedings of International Conferences/ Seminars</td><td>22</td></tr> <tr> <td>3. Proceedings of National Conferences/Seminars</td><td>12</td></tr> <tr> <td>4. Patents (Published-02, Granted-03)</td><td>05</td></tr> <tr> <td>5. Book Chapters Published</td><td>02</td></tr> <tr> <td>6. Book Published</td><td>01</td></tr> </table>	1. International Journals	104	2. Proceedings of International Conferences/ Seminars	22	3. Proceedings of National Conferences/Seminars	12	4. Patents (Published-02, Granted-03)	05	5. Book Chapters Published	02	6. Book Published	01
1. International Journals	104												
2. Proceedings of International Conferences/ Seminars	22												
3. Proceedings of National Conferences/Seminars	12												
4. Patents (Published-02, Granted-03)	05												
5. Book Chapters Published	02												
6. Book Published	01												
Member of professional bodies	Life Member Ship of Following Societies 1. ISTE 2. Indian Chapter of ICTP Trieste, Italy												
Country Visited	Italy												

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

Achievements/ Awards	1. SRF-CSIR, New Delhi 2. Started two PG courses i. M.Tech Nanotechnology 2 YPGD course in 2006 at Department of Physics, MANIT, Bhopal ii. M.Sc Physics 2YPGD course in 2021 at Department of Physics, MANIT, Bhopal.
Number of Ph.D. Guided/ Supervised	1. Ph.D. Awarded : 17 2. Ph.D. pursuing : 01
PDF Mentored	1. Dr. Shweta Rajawat ,UGC- PDF, Award No. F.15-1/2016-17/PDFWM-2015-17-MAD-30739 (SA-II) Completed on the project entitled “Targeted Drug Delivery for Cancer Treatment using carbohydrate functionalized Silver Nanoparticles (duration ;from 01 July 2016 to 30 June 2021) 2. Dr. Rashmi Yadav SERB-N-PDF Award No. SR/WOS-A/PM-100/2018 working on the project entitled; “Applications and Study of Nanostructured Single and Double Perovskite for Multifunctional properties “(duration 15, Oct. 2019 to 14 Oct 2022). 3. Dr. Shweta Rajawat DST-WISE/PDF/PM-39/2024(G) Evaluation of toxic profile of an indigenously prepared targeted colloidal nano silver possessing significant efficacy against cervical cancer (duration :01 Sept.2024 to31 August 2027)
M.Tech Thesis Guided	61
Project/ Consultancy undertaken	03
Conference /Seminar Organised	1) Member Organizing Committee & Technical Session Committee of 12th Annual Conference of Gwalior Academy of Mathematical Sciences and All India Symposium on Computational Biology held from 6th April to 8th April 2007. 2) Coordinator for one day Seminar on Role of Science, Engineering & Technology in understanding the Planet Earth. Held on 28. Feb. 2008 at MANIT, Bhopal 3) Member Organizing Committee, International workshop on "Interactive Systems, Nanosolar Photovoltaics and Coatings for Sustainable Built Environment" sponsored by UK-India Education Research Initiatives(UKIERI) Thematic Partnership project. 10-11 January 2013.
Administrative experience at MANIT, Bhopal	1. I/C Director 2. Deputy Director 3. Dean Academic 4. Coordinator, Central research Facility 5. Controller of Examination 6. Head, Department of Physics 7. Chairman, Nanoscience and Engineering center 8. Chairman Admission Committee 9. Chairman, Medical Reimbursement committee 10. Joint Controller of Examination, 11. Co-coordinator TEQIP-I (World Bank Project)

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

	12. Deputy Controller of Examination
Out Reach Activities	Subject expert for Faculty Recruitment/ Chairman/Member of Committees (Administrative and Academic)/Boards in other Institutes /Organizations of Govt. of India.

Annexure-1

DETAILED INFORMATION of Prof. M.M.MALIK

RESEARCH PUBLICATIONS

INTERNATIONAL JOURNALS :

- 1.) **M. Manzar Malik**, M. Zulfequar & M. Hussain
Electrical Conductivity of a-Ga₃₀Se_{70-x}M_x
Physics Letters A 158, PP.475(1991).
- 2.) Arvind Kumar, **M. Manzar Malik**, M. Zulfequar, A.Kumar & M. Hussain
Electrical conductivity and thermoelectric power in Se_{80-x}Te₂₀In_x
Solid State Communication, 14, pp699 (1991).
- 3.) M. Hussain, Alka Batra, Arvind Kumar & **M. Manzar Malik**.
Correlation between X-Ray Absorption Edge Shift and Fermi Energy
Revista Mexicana de Fisica, 37, pp197 (1991).
- 4.) **M. Manzar Malik**, M. Zulfequar, Arvind Kumar, & M. Hussain
Effect of Indium Impurity on the electrical properties of a-Ga₃₀Se₇₀
Journal of Physics: Condensed Matter, 4 ,pp 8331 (1992).
- 5.) **M. Manzar Malik**, A N Nigam, & M. Hussain
X-Ray K-Absorption edge studies in a- Ga₃₀Se_{70-x}In_x
X-Ray Spectrometry, 21, pp193(1992).
- 6.) **M. Manzar Malik** & M. Hussain
Effect of silver on the X-Ray K-absorption edge of a-Ga₃₀Se₇₀.
Journal of Non Crystalline Solids, 170, pp312 (1994).
- 7.) Z.H.Khan, **M. Manzar Malik**, M. Zulfequar, & M. Hussain
Electrical Conduction mechanism in a-Se_{80-x}Te_xGa_x films (0<x<80).
Journal of Physics: Condensed Matter 7, pp8979 (1995).
- 8.) Z.H.Khan, **M. Manzar Malik**, M. Zulfequar, & M. Hussain
Electrical Transport Properties of Thin films of a-Se_{80-x}Ga₂₀Bi_x
Material Science and Technology, 13 ,pp 435(1997).
- 9.) Z.H.Khan, **M. Manzar Malik**, M. Zulfequar, & M. Hussain
Effect of Sb on Transport properties of Thin Films of a-Se_{80-x}Ga₂₀Sb_x
Japanese Journal of Appl. Physics 37, pp23 (1998).

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- 10.) Shreyas S Pitale; Suchinder K Sharma; R.N.Dubey; M.S.Qureshi; **MM Malik**, “Thermoluminescence glow curve analysis of UV irradiated long persistent CaS: Pr³⁺ phosphor through computerized glow curve deconvolution technique”, Nuclear Instruments and Methods in Physics Research Section B: Beam Interactions with Materials and Atoms, (**NIM-B**), **Elsevier Publishers**, Volume 266, Issue 9, , pp2027-2034 (2008). Impact Factor 2.3
- 11.) Shreyas S Pitale; Suchinder K Sharma; R.N.Dubey; M.S.Qureshi; **M. M. Malik**; TL and PL studies on defect assisted green Luminescence from Doped Strontium Sulfide Phosphor”. Journal of Luminescence, Elsevier Publishers, Volume 128, Issue 10, , pp 1587-1594 (2008).
- 12.) Suchinder K. Sharma; Shreyas S. Pitale; **M. M. Malik**; R.N.Dubey; M.S.Qureshi, “Synthesis and detailed kinetic analysis using computerized glow-curve deconvolution technique of nanocrystalline Sr₃Al₂O₆:Pr³⁺ - A new phosphor for UV applications” Physica Status Solidii (A), Wiley Publishers, Volume 205, Issue 11, pp 2695 – 2703 (2008).
- 13.) Suchinder K. Sharma; Shreyas S. Pitale; **M. M. Malik**; R. N. Dubey; M. S. Qureshi, “Synthesis and Detailed Kinetic Analysis of Sr₄Al₁₄O₂₅:Eu²⁺ Phosphor under Black Light Irradiation”, Radiation Effects and Defects in Solids, Taylor & Francis Publishers, Volume 163, Issue 9, pp 767-777 (2008).
- 14.) Suchinder K Sharma, Shreyas S Pitale, **M. M. Malik**; R. N. Dubey, M.S.Qureshi; “Luminescence studies on the blue–green emitting Sr₄Al₁₄O₂₅:Ce³⁺ phosphor synthesized through solution combustion route”, Journal of Luminescence, Elsevier Publishers, Volume 129, Issue 2, , pp 140-147 (2009).
- 15.) Shreyas S Pitale; Suchinder K Sharma, R.N.Dubey, M.S.Qureshi, **M. M. Malik**; “Luminescence behavior of SrS:Pr³⁺ micron-sized phosphor fabricated through chemical co-precipitation route and post-annealing processes”. Optical Materials, Elsevier Publishers, Volume 31, Issue 6, , pp 923-930 (2009).
- 16.) Lubna Hashmi, M.S.Qureshi, R.N.Dubey, **M.M.Malik**, Ishrat Alim, A.H.Siddiqui, Spectroscopic Analysis and Synthesis of Wide Band Gap CdS Quantum Dots Using Colloidal Synthesis Technique at low temperature Advanced Materials Research Trans Tech Publications, Switzerland Vol. 67 pp 191-196 (2009) ISBN: 978-0-87849-328-9. Impact Factor: 0.85
- 17.) Suchinder K Sharma, Shreyas S Pitale, **M Manzar Malik**; R N Dubey, M.S.Qureshi, “Spectral and Kinetic Characterization of Orange-Red Emitting Sr₃Al₂O₆:

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- Eu³⁺/Sm³⁺ Phosphor”, Journal of Alloys and Compounds, Elsevier Publishers, Volume 482, Issues 1-2, 12, pp 468-475 (2009).
- 18.) Suchinder K. Sharma , Shreyas S. Pitale, **M. Manzar Malik**, R.N. Dubey, M.S. Qureshi, Siddharth Ojha “ Influence of fuel/oxidizer ratio on lattice parameters and morphology of combustion synthesized ZnO powders”. Physica ‘B’, Elsevier Publishers, 405 pp866-874 (2010). Impact Factor : 1.28
- 19.) Shreyas S. Pitale, Suchinder K. Sharma, R.N. Dubey, M.S. Qureshi, **M.M. Malik**, “Spectral and kinetic characterization of CaS:Pr³⁺ phosphor synthesized through chemical co-precipitation route and post annealing process”, Optical Materials, Elsevier Publishers, Volume 32, Issue 3, pp 461-468 (2010).
- 20.) Prabha Sana, **M. M Malik**, M.S. Qureshi Synthesis and Characterization of Mn²⁺ doped ZnS Nanoparticles Capped with Thio Glycolic Acid”. . American Institute of Physics, Volume 1276, 2010, pp. 76-81 doi: 10.1063/1.3504345
- 21.) Prabha Sana, **M. M Malik**, M.S. Qureshi “Raman Scattering of Surface Functionalized Manganese Doped ZnS Colloidal Quantum Dots”. American Institute of Physics - Volume 1313, , pp. 209-211 (2010)doi: 10.1063/1.3530492
- 22.) Suchinder K Sharma, Shreyas S Pitale, **M Manzar Malik**; T K Gundu Rao, Santa Chawla, R N Dubey, M S Qureshi; “Spectral and Defect Analysis of Cu Doped Combustion Synthesized New SrAl₄O₇ Phosphor”. Journal of Luminescence, Elsevier Publishers, Volume 130, Issue 2, Pages 240-248(2010).
- 23.) Synthesis and Characterization Of Silver Sulfide Nanoparticles Of Various Morphologies Using Chitosan As Stabilizer Lubna Hashmi , **M.M.Malik** , M.S.Qureshi , R.N. Dubey, Ishrat Alim and A.H. Siddiqui Published in American Institute of Physics Vol. 1276 pp 62 – 69 (2010).doi: 10.1063/1.3504343, ISSN: 15517616, H Index: 25
- 24.) Sonal Shrivastava, **M.M.Malik** and K.R.Pardasani, SVM Model for identification of Human GPCRs Journal of Computing, Vol 2 Issue2 pp1-4(2010) ISSN: 25159617
- 25.) Suchinder Sharma & **M.Manzar Malik**, Single step synthesis of Ce³⁺ doped CaAl₂O₄ and CaAl₄O₇ systems Materials Letter (Elsevier). Vol 65(10)pp1451-1453 (2011) doi :10.1016/j.matlet.2011.02.033

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- 26.) Achamma George, Suchinder Sharma , Santa Chawla, M.S.Queshi & **M.M.Malik** “X-ray Diffraction and photoluminescence studies of Ce doped ZnO nanocrystals. Journal of Alloys & Compunds. 509 pp5942-5946 (2011).
- 27.) Sonali Saha, **M.M.Malik**, M.S.Qureshi “Structural studies of silver nano particle using ocimum leaf extract via green synthesis” International Journal of Applied Engineering Eureka Press, Vol.2 pp148-152 (2012).
- 28.) Sonali Saha, **M.M.Malik**, M.S.Qureshi, Characterisation and synthesis of silver nano particle using leaf extract of epipremnum aureum” International Journal of Nanomaterials and Biostructures Vol. 2 (1), pp 1-4- (2012).
- 29.) Lubna Hashmi, Prabha Sana , **M.M.Malik**, A.H. Siddiqui , M.S.Qureshi, “Novel Fork Architectures of Ag₂S Nanoparticles Synthesized Through In-Situ Self-Assembly Inside Chitosan Matrix” Journal of Nano Hybrids, Trans Tech Publications, Switzerland Vol. 1, pp 23-43 (2012) ISSN:1687-4110
- 30.) Prabha Sana , Lubna Hashmi, **M.M.Malik**, M.S.Qureshi, R.N.Dubey, “Luminescence and Morphological Kinetics of Functionalized ZnS Colloidal Nanocrystals” International Scholarly Research Network ISRN Optics Article ID 621908, pp 1-8 (2012). ISSN: 2090-7826
- 31.) Pragya Ojha, **M.M.Malik**, M.S.Qureshi, “XRD Studies on Magnetoelectrets using Type-E Orientation Pattern” **IEEE** Journal of Transactions on Dielectrics and Electrical Insulation. Vol. 19, No. 4, pp. no.1299-1304 (2012) ISSN 1070-9878 Impact factor:1.36
- 32.) Pragya Ojha, **M.M.Malik**, M.S.Qureshi, Magnetoelectret state of porous polypropylene and Investigation on Surface charge Characteristics” , IOSR Journal of Applied Physics ,Vol.1, Issue 1, pp 131-136 (2012) ISSN 2278-4861 Impact factor:1.345
- 33.) Oroosa Subohi, G S Kumar, **M M Malik**, Rajnish Kurchania,”Dielectric properties of Bismuth Titanate(Bi₄Ti₃O₁₂) synthesized by solution combustion technique” Physica B: Physics of Condensed Matter, 407(18), (2012), 3813-3817. Elseviers Publications ISSN : 0921-4526 Impact factor:1.32

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- 34.) Pragya Ojha, **M.M.Malik**, M.S.Qureshi, “Magnetoelectret Behaviour of porous Polytetrafluoroethylene under uniform and nonuniform magnetic field” Middle-East Journal of Scientific Research Vol.13 (10) pp1399-1405, (2013) WASJ (World Applied Sciences of Journals, ISI Journal- IDOSI Publication) ISSN 1990-9233
- 35.) Sonali Saha, **M.M.Malik**, M.S.Qureshi, Microwave synthesis of silver nano particles , NanoHybrid, Transtec Publications Vol 4 pp99-112 (2013).
- 36.) Saransh Srivastava, Oroosa Subohi, **M M Malik** “ Ferroelectric Properties of strontium bismuth titanate (SrBi₄Ti₄O₁₅) synthesized using solution combustion technique” Nano Hybrids, 3, 67-79(2013). Trans Tech Publications ISSN : 2234-9871
- 37.) Oroosa Subohi, G S Kumar, **M M Malik** “ Optical properties and preparation of Bi₁₂TiO₂₀ using combustion synthesis technique” Optik- International Journal For Light and Electron Optics 124 2963– 2965 (2013) Elseviers Publications ISSN : 0030-4026 Impact factor:0.52
- 38.) Lokesh Shastri , **M.M.Malik** M.S.Qureshi Photoluminescence Study Of ZnO-SiO₂ Nanostructures Grown In Silica Matrix Obtained Via Sol Gel Method Journal of Physics and Chemistry of Solids 74(4) pp595–598 (2013) ISSN 1536-125X, Impact Factor 1.41
- 39.) Prabha Sana, Shammi Verma, K. C. Praveen, and **M. M. Malik** “In-Situ I-V Measurements of ZnS:TiO₂/p-Si Quantum Dots Hetero-Junction Photodiode under 120 MeV Au⁹⁺ Ions” **IEEE** Journal of transaction on Quantum Electronics, Vol. 49,(9), pp 770-776 (2013) ISSN. 0018-9197, Impact Factor 1.83, SCI journal
- 40.) Prabha Sana, Shammi Verma, **M. M. Malik** In Situ I-V Measurements of Ultraviolet Enhanced ZnS:TiO₂/ITO Quantum Dots Hetero-Junction Photodiode under 120 MeV Au⁹⁺ Ions”, Asian Journal of Chemistry; Vol. 25, pp. S293-S296 (2013), SCI Journal ISSN. 0970-7077,
- 41.) Prabha Sana, Shammi Verma and **M.M. Malik**, In-situ I-V measurements of ultraviolet enhanced ZnS:TiO₂/n-Si quantum dots hetero-junction photodiode under 120 MeV Au⁹⁺ Ions” **IEEE** journal of Transaction on Device and Material Reliability, No. 3, Vol 13, , pp. 407-412 (2013) ISSN: 1530-4388. Impact Factor 1.516
- 42.) M Trihotri, D Jain, UK Dwivedi, FH Khan, **MM Malik**, MS Qureshi Effect of silver coating on electrical properties of sisal fibre-epoxy composites Polymer bulletin 70 (12), 3501-3517

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- 43.) Oroosa Subohi, Lokesh Shastri G S Kumar, **M M Malik**, Rajnish Kurchania “Study of Maxwell–Wagner (M–W) relaxation behavior and hysteresis observed in bismuth titanate layered structure obtained by solution combustion synthesis using dextrose as fuel” *Materials Research Bulletin* 49 651-656 (2014) Elseviers Publications ISSN : 0025-5408 Impact factor:2.141
- 44.) Oroosa Subohi, G S Kumar, **M M Malik**, Rajnish Kurchania “Synthesis of bismuth titanate with urea as fuel by solution combustion route and its dielectric and ferroelectric properties” *Optik- International Journal For Light and Electron Optics* 125 (2014) 820– 823 Elseviers Publications ISSN : 0030-4026
- 45.) Prabha Sana, Shammi Verma and **M. M. Malik**, Effect of Heavy Ion Irradiation on Self Assembled Pr³⁺ doped ZnS/TiO₂ Nanocrystals” *Mater. Res. Express IOP Vol.1* pp (1-11)(2014) doi: 10.1088/2053-1591/1/1/015027 ISSN No. 2053-1591 SCI Journal
- 46.) Prabha Sana, Shammi Verma, **M.M. Malik**, and M. Ramrakhiani “High Field Conductivity and Brightness Measurements of Pr³⁺ Doped ZnS/ TiO₂ Core-Shell Nanocrystals”, *IEEE journal of Transaction on Nanotechnology* Issue 99,13(2) 254-260. , (2014) ISSN 1536-125X, Impact Factor 1.80,
- 47.) Niraj Kumar Singh, Lubna Hashmi and **M.M. Malik** Nitrogen doped p-type ZnO nanostructures: synthesis and characterization Accepted for Publication in *International Journal of Latest Trends in Engineering and Technology* Vol. 3 issue 4 pp145-153 (2014) ISSN No 2278-621X. Impact Factor: 0.7
- 48.) V Kabra, L Aamir and **M M Malik** Low cost, p-ZnO/n-Si, rectifying, nano heterojunction diode: Fabrication and electrical characterization *Beilstein Journal of Nanotechnology* 5 (1), 2216-2221 (2014)
- 49.) Prabha Sana, Shammi Verma and **M. M. Malik** ,Optical and Structural Investigations of Manganese Doped ZnS/SiO₂ Core-Shell Nanostructure”, *International Journal of Nano Science*, 14 (3), 1-7 (2015). doi.org/10.1142/S0219581X15500064
- 50.) Oroosa Subohi, G S Kumar, **M Manzar Malik**, Rajnish Kurchania Study of influence of fuel on dielectric and ferroelectric properties of bismuth titanate ceramics synthesized using solution based combustion technique" *Mater. Res. Express Vol.2 IOP publishing* 2 (3), 036302 (2015) . doi.org/10.1088/2053-1591/2/3/036302

- 51.) O Subohi, R Singh, GS Kumar, **M M Malik**, R Kurchania
Impedance analysis and dielectric properties of Ce modified bismuth titanate lead free ceramics synthesized using solution combustion route
Journal of Materials Science: Materials in Electronics 26 (11), 9122-9133 (2015).
doi.org/10.1007/s10854-015-3600-4
- 52.) S Kumar, R Purohit, **M M Malik**
Properties and Applications of Polymer Matrix Nano Composite Materials Materials Today: Proceedings 2 (4), 3704-3711 (2015) . doi.org/10.1016/j.matpr.2015.07.148
- 53.) V Kabra, L Hashmi, **M M Malik** Fabrication and Characterization of Solution Processed n-ZnO/p-Si Nano Heterojunction Diode, Materials Today: Proceedings 2 (9), 4544-4549 (2015) . doi.org/10.1016/j.matpr.2015.10.068
- 54.) M Shafeeq, GK Gupta, Hirshikesh, **M M Malik**, OP Modi
Effect of milling parameters on processing, microstructure and properties of Cu–Al– Ni–Ti shape memory alloys.
Powder Metallurgy 58 (4), 265-272 (2015). doi.org/10.1179/1743290115Y.0000000002
- 55.) M Trihotri, UK Dwivedi, FH Khan, **M M Malik**, MS Qureshi Effect of curing on activation energy and dielectric properties of carbon black–epoxy composites at different temperatures. Journal of Non-Crystalline Solids 421, 1-13 (2015) . doi.org/10.1016/j.jnoncrysol.2015.04.020. doi.org/10.1016/j.jnoncrysol.2015.04.020
- 56.) P Ojha, MS Qureshi, **MM Malik**
Magnetoelectrets prepared by using temperature gradient method
AIP Advances 5 (5), 057116 (2015). doi.org/10.1063/1.4921021
- 57.) O Subohi, GS Kumar, **MM Malik**, R Kurchania
Study of electrical and ferroelectric properties of Bi₃. 4Ce₀. 6Ti₂. 4Zr₀. 6O₁₂ ceramics
Journal of Materials Science: Materials in Electronics 26 (12), 9342-9349 (2015).
doi.org/10.1007/s10854-015-3074-4

- 58.) SK Sharma, **MM Malik**

Temperature dependent emission characteristics of monoclinic YBO 3: Eu 3+/Tb 3+ phosphor

Journal of Luminescence 173, 231-236 (2016). doi.org/10.1016/j.jlumin.2016.01.007

- 59.) P K Patel, **MM Malik**, T Gupta

Optimization Techniques for High Performance 9T SRAM Cell Design. Proceedings of First International Conference on Information and Communication Technology for Intelligent System , Springer International Publishing Vol.(1) 269-279 (2016). doi.org/10.1007/978-3-319-30933-0_28

- 60.) O Subohi, GS Kumar, **MM Malik**, R Kurchania Effect of B-site isovalent doping on electrical and ferroelectric properties of lead free bismuth titanate ceramics

Journal of Physics and Chemistry of Solids 93, 91-99 (2016).

doi.org/10.1016/j.jpcs.2016.02.019

- 61.) O Subohi, CR Bowen, **MM Malik**, R Kurchania Dielectric spectroscopy and ferroelectric properties of magnesium modified bismuth titanate ceramics

Journal of Alloys and Compounds 688, 27-36 (2016).

doi.org/10.1016/j.jallcom.2016.07.173

- 62.) M Shafeeq M, GK Gupta, **M M Malik**, V Sampath, OP Modi

Influence of Quenching Methods on Martensitic Transformation and Mechanical Properties of P/M Processed Cu-Al-Ni-Ti Shape Memory Alloys

Powder Metallurgy 59 (4) 271-280 (2016). doi.org/10.1080/00325899.2016.1206261

- 63.) M Trihotri, UK Dwivedi, FH Khan, M M Malik, MS Qureshi

Study of low weight percentage filler on dielectric properties of MCWNT-epoxy nanocomposites Journal of Advanced Dielectrics, 6(3) (2016).

doi.org/10.1142/S2010135X16500247

- 64.) V Koutu, L Shastri, **M. M. Malik**

Effect of NaOH concentration on optical properties of zinc oxide nanoparticles.

Materials Science Poland, 34(4) 819-827 (2016). doi.org/10.1515/msp-2016-0119

- 65.) Vinita Pandey, Neha Singh, **MM Malik**, Fozia Z Khan

SnO₂, SnO₂: Mg and SnO₂: Ni Nanoparticles Based Luminescence Ammonia Sensors, Materials Focus 6(3) 359-363 (2017). doi.org/10.1166/mat.2017.1404

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- 66.) Nitu Singh, Vinita Pandey, Neha Singh, **M. M. Malik**, Fozia Z. Haque Application of TiO₂/SnO₂ nanoparticles in photoluminescence based fast ammonia gas sensing. Journal of Optics Volume 46, Issue 3, pp 199–203 (2017).
doi.org/10.1007/s12596-017-0404-3
- 67.) Sunil Kumar, **MM Malik**, Rajesh Purohit
Synthesis Methods of Mesoporous Silica Materials, Materials Today (proceedings) 4(2) 350-357 (2017) doi.org/10.1016/j.matpr.2017.01.032
- 68.) V Koutu, L Shastri, **MM Malik**
Effect of temperature gradient on zinc oxide nano particles synthesized at low reaction temperatures, Materials Research Express, 4(3) (2017).
doi.org/10.1088/2053-1591/aa5855
- 69.) UK Dwivedi, M Trihotri, SC Gupta, FH Khan, **MM Malik**, MS Qureshi
Effect of carbon nanotubes implantation on electrical properties of sisal fibre–epoxy composites . Composite Interfaces, 24(2) 111-123 (2017).
doi.org/10.1080/09276440.2016.1192314
- 70.) Pramod Kumar Patel, **MM Malik and Tarun gupta**
Low Leakage CNTFETs Based 9T SRAM Cells Using Dual-Chirality and Multi-Vt Technology.J. Nanoelectronics and Optoelectronics Vol.13(1) pp45-54 (2018).
doi.org/10.1166/jno.2018.2173
- 71.) Pramod Kumar Patel, **MM Malik**, Tarun gupta
Reliable high-yield CNTFET-based 9T SRAM operating near threshold voltage region. Journal of Computational Electronics 17 (2), 774-783 (2018).
doi.org/10.1007/s10825-017-1127-z
- 72.) Siddiqui Hafsa, Para Mohammad Ramzan, Qureshi M S, **Malik M M**, Haque Fozia Z
Studies of structural, optical, and electrical properties associated with defects in sodium-doped copper oxide (CuO/Na) nanostructures. Journal of Materials Science 53 (12), 8826–8843 (2018) . doi.org/10.1007/s10853-018-2179-6
- 73.) H Siddiqui, MR Parra, **MM Malik**, FZ Haque
Structural and optical properties of Li substituted CuO nanoparticles.
Optical and Quantum Electronics 50 (6), 260 (2018).
- 74.) Khursheed, Afreen; Khare, Kavita; **Malik, M. M.**; Haque, Fozia Z.
Performance tuning of very large scale integration interconnects integrated with deep Sub micron repeaters. Journal of Nanoelectronics and Optoelectronics, 13 (12), 1797-1806 (2018)

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- 75.) V Koutu, O Subohi, L Shastri, **MM Malik**
Study the effect of dip in reaction temperature on thermal and electrical properties of ZnO nanoparticles Advanced Powder Technology 29 (9), 2061-2069 (2018). doi.org/10.1016/j.appt.2018.05.012
- 76.) S Kumar, S Rajawat, R Purohit, **MM Malik**
Optical studies of MWCNT doped boron carbon oxynitride (BCNO) nano composite phosphor material Optik 176, 617-625 (2019). doi.org/10.1016/j.ijleo.2018.09.030
- 77.) PK Patel, **MM Malik**, TK Gupta, Design of an ultra low power CNTFET based 9T SRAM with shared BL and half select free techniques, International Journal on Numerical Modeling: Electronic Networks, Devices and Fields, 32 (2), e2511) I.F. 0.816 (2019). doi.org/10.1002/jnm.2511
- 78.) NK Singh, V Koutu, **MM Malik**, Enhancement of Room Temperature Ferromagnetic Behaviour of Co-doped ZnO Nanoparticles synthesized via Sol-gel Technique, Journal of Sol-Gel Science and Technology 91(2) 324-334 (2019). doi.org/10.1007/s10971-019-05004-4
- 79.) Pramod KumarPatel, **MM Malik**, Tarun K.Gupta, Performance evaluation of single ended disturb-free CNTFET-based multi-Vt SRAM, Microelectronics Journal, 90,19-28(2019), doi.org/10.1016/j.mejo.2019.05.015
- 80.) JP Jwala, O Subohi, **MM Malik** Influence of B-site modification by hetrovalent (Nb5+) and isovalent (Zr4+) dopants in BaTiO3 on its dielectric and electrical properties synthesized by novel sol gel route, Materials Research Express 6 (9), 096308 (2019). doi.org/10.1088/2053-1591/ab2dee
- 81.) V Koutu, S Rajawat, L Shastri, **MM Malik** Apoptosis and inhibition of human epithelial cancer cells by ZnO nanoparticles synthesized using plant extract. Advances in Nano rsearch, 7 (4), 231-239 (2019). doi.org/10.12989/anr.2019.7.4.233
- 82.) Sunil Kumar, Shweta Rajawat, Rajesh Purohit, **MM Malik** (2019), “Optical properties of BCNO nano phosphor synthesized using novel green technology”, Materials Research Express, Volume 6, Number 10 ,105027 (2019). doi.org/10.1088/2053-1591/ab3741
- 83.) Akash Gupta, Shweta Rajawat, **MM Malik**, “Investigations on ITO/Ag-WO₃/Ag heterojunction Schottky Solar Cell: Fabrication and Characterization through I-V and C-V”, Optik, Volume 194, 163104 (2019), doi.org/10.1016/j.ijleo.2019.163104
- 84.) G. Achamma, M. S. Qureshi, **MM Malik**, X-Ray Photoelectron Spectroscopy and Raman Studies of ZnO: Ce Nanocrystals, Journal of Applied Spectroscopy, 86,831-835(2019), doi.org/10.1007/s10812-019-00902-5

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

- 85.) Vaibhav Koutu, Rajesh Dhakar, Pragya Ojha, Lokesh Shastri, **MM Malik**, Structural and Optical Studies of TiO₂:Ag₂O Nanocomposite by Sol-Gel Method, Materials Science Poland 38(2), pp. 263-270 (2020). 10.2478/msp-2020-0036
- 86.) Shweta Rajawat, **MM Malik** “In-vitro studies of colloidal silver against SK-mel-28 cancer cell line”, accepted in the Advances in Natural Sciences: Nanoscience and Nanotechnology (ANSN) (2020), doi.org/10.1088/2043-6254/ab9d22
- 87.) Shweta Rajawat and **MM Malik** “Study of silver nanoparticles activity against He-La cell lines”, Int. J. Nanomanufacturing, Vol. 16, No. 4 (2020), [10.1504/IJNM.2020.110383](https://doi.org/10.1504/IJNM.2020.110383)
- 88.) P. Patel, **MM Malik**, Tarun K. Gupta “A Read-Disturb-Free Stable Low Power and High-Density GNRfet 6T SRAM with Multi-VT Technology” Circuit World (Emerald), [Online Published] DOI: 10.1108/CW-06-2019-0054 (2020), doi.org/10.1108/CW-06-2019-0054
- 89.) P. Patel, **MM Malik**, Tarun K. Gupta “A Novel High-Density Dual Threshold GNRfet SRAM Design with Improved Stability” Microprocessors and Microsystems Journal (Elsevier), vol. 73, Issue 2, 102956 (2020), doi.org/10.1016/j.micpro.2019.102956
- 90.) Shweta Rajawat **M.M. Malik** Targeted delivery of Colloidal Silver for MCF-7 Breast Cancer Treatment Current Drug Delivery DOI : 10.2174/1567201817666200508095241 (2020). doi.org/10.2174/1567201817666200508095241
- 91.) Pramod Kumar Patel, **Manzar Malik** , Tarun Kumar Gupta, An Ultra-Low-Power and High-Performance SRAM Cell Design based on GNRfets , International Journal of Electronics Letters (Taylor and Francis) doi.org/10.1080/21681724.2020.1794048 (2020)
- 92.) Sunil Kumar , Shweta Rajawat ,Pragya Ojha ,Rajesh Purohit , **MM Malik** Study of the effect of urea concentration on optical properties of Boron CarbonOxynitride (BCNO) nanophosphor Optik 232, 166522 (2021). doi.org/10.1016/j.ijleo.2021.166522
- 93.) Akash Gupta, Shweta Rajawat, **MM Malik**, Study of UV-sensitive Ag doped WO₃ prepared using ultra-sonification Optik 242, 167266 (2021). doi.org/10.1016/j.ijleo.2021.167266.
- 94.) Pramod Kumar Patel, **MM Malik**, Tarun K. Gupta, An ultra-low-power and high-performance SRAM cell design based on GNRfets, International Journal of Electronics Letters, 9 (4),494-504(2021), doi.org/10.1080/21681724.2020.1794048.
- 95.) Rashmi Yadav, Anchit Modi, Touseef A Para, Vilas Shelke , **MM Malik**, Influence of Y substitution on structural, magneto-transportand magnetic properties of La_{2-x}Y_x

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

CoMnO_6 ($0 \leq x \leq 0.3$) double perovskites., Journal of Magnetism and Magnetic Materials 554, 169311 (2022).

- 96.) Pramod Kumar Patel, **Manzar Malik**, Tarun Kumar Gupta, Optimization Techniques for Reliable Low Leakage GNR-FET-Based 9T SRAM, IEEE Transactions on Device and Materials Reliability 22(4) 506-516 (2022)
- 97.) Shweta Rajawat, Vaibhav Koutu, Sonali Saha, **MM Malik**, Biopolymers as silver nanoparticle carriers for targeted drug delivery, Materials Today: Proceedings (2023)
- 98.) Rashmi Yadav, Anchit Modi, Kumud Dubey, **MM Malik**, Optical and photoluminescence response driven by sintering temperature in LaFeO_3 nano-perovskites, Journal of Materials Science: Materials in Electronics 34 (15) 1243 (2023)
- 99.) Sonal Santosh Bagade, Shashidhar Patel, **MM Malik**, Piyush K Patel, Recent Advancements in Applications of Graphene to Attain Next-Level Solar Cells , C Journal of Carbon Research, MDPI 9(3) 70 (2023). doi.org/[10.3390/c9030070](https://doi.org/10.3390/c9030070)
- 100.) SS Bagade, SB Barik, **MM Malik**, PK Patel Impact of band alignment at interfaces in perovskite-based solar cell devices, Materials Today: Proceedings (2023)
- 101.) N Bhardwaj, **MM Malik**, S Sundaramurthy, Development of nano-enhanced phase change material from different biomasses for energy application, Journal of Energy Storage 73, 108837 (2023).
- 102.) SS Bagade, **MM Malik**, Piyush K Patel , The Charm of Entwining Two Major Competitors CZTS & $\text{CH}_3\text{NH}_3\text{SnI}_3$ to Feasibly Explore Photovoltaic World Beyond Shockley-Queisser Limit Surfaces and Interfaces, 46, 104020 (2024)
- 103.) PK Patel, **MM Malik**, TK Gupta, Reliable single-ended ultra-low power GNR-FETs-based 9T SRAM cell with improved read and write operations, Microelectronics Reliability 153, 115321 (2024)
- 104.) S.Rajawat, B. Ramachandran , **MM Malik**, Efficacy Assessment of Sulfated Flavanol Functionalized Silver Nanoparticles against MCF-7 Breast Cancer. Clinical Cancer Drug (2024)
- 105.) R Kishor, A Sharma, R Parmar, S Kumari, **MM Malik**
Removal of fluoride from aqueous solution using high surface area activated carbon derived from scale solid waste Environmental Science and Pollution Research 32, 15929-15941(2025)

Book Chapters :02

1. Advances in Material Science , The Effect of A-site and B-site Isovalent doping in Bismuth Titanate Ceramics on its Dielectric and Ferroelectric Properties , Volume 29, pp 237-259 (2017).
2. Synthesis, Properties, and Advanced Applications, Effect of Concentration and Temperature on ZnO Nanoparticles Prepared by Reflux Method” in “Polymeric and Nanostructured Materials” Padinjakkara. (ISBN: 9781771886444); Apple Academic Press, NJ, USA 2017

Book (s) 01

1. Silver Nanoparticles: Properties, Synthesis techniques, Characterizations, Antibacterial and Anticancer studies.
ASME Press, New York, USA (2018) doi.org/10.1557/mrs.2019.35

Patents 04 Granted 03

1. **Title :** Type E Orientation Pattern using XRD
Patntee's : Pragya Ojha, **M. Manzar Malik** & Shums Qureshi Australian Government Innovation **Patent No. 2021107079, Date of Grant 17.11.2021**
2. **Title :** Method of Biological Synthesis of Zinc Oxide (ZnO) Nanoparticles, Inventor, Dr. Vaibhav Koutu & **Dr. M.M.Malik** Controller General of Patents & Trade Mark , Intellectual Property India , **Patent No. 458144, Date of Grant 11.10.2023**
3. **Title :** Method for Synthesis of Metal-Oxide Nanoparticles by Temperature Gradient Co-Precipitation Technique, Inventor, Dr. Vaibhav Koutu & **Dr. M.M.Malik** , Controller General of Patents & Trade Mark , Intellectual Property India , **Patent No. 546304 Date of Grant 29.07.2024**

Published 01

1. **Title :** Method for preparation of surface engineered nano-metal formulation for targeted delivery at hela cervical cancer site, Inventor, Dr. Shweta Rajawat & **Dr. M.M.Malik** Patent Application No. 202021039771 (controller General of Patents & Trade Mark , Intellectual Property India), **Published & under Examination.**

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

Ph.D. Thesis Supervision/Guidance

S.No.	Name of Student	Title	Year of Award
1	Mr. Shreyas Pitale	Luminescence Mechanism of Pr ³⁺ Doped Alkaline Earth Based Phosphors	2009
2	Mr. Suchinder Sharma	Studies on Spectral and Defect Aspects of Combustion Synthesized Sr-Al-O Systems	2010
3	Ms. Lubna Hashmi	Synthesis & Characterization of Functionalized Semiconductor nanocrystals of Silver Based Chalcogenides	2011
4	Mr. M.A.Rizvi	Enhancing routing efficiency using Agents	2011
5	Ms. Achamma George	Investigation on Morphological and optical properties of oxide based semiconductor nanomaterials	2012
6	Mr. Ravi Kant Kapoor	Performance Analysis of various routing mechanism with varying load balance	2012
7	Ms. Prabha Sana	Investigations on Swift heavy ions irradiated ZnS colloidal nanocrystals for photodevices.	2013
8	Ms. Pragya Ojha	Investigations on magnetoelectrets of porous polypropylene and polytetrafluoroethylene	2013
9.	Mr. Lokesh Shastri	Synthesis and characterization of ZnO nanostructures for various engineering applications.	2015
10	Ms. Sonali Saha	Biosynthesis and characterization of Ag and Cu nano particles	2015
11	Ms. Oroosa Subohi	Synthesis and characterization of Bismuth layer structured ferroelectrics	2015
12	Mr. Vaibhav Koutu	Solution Based Synthesis of ZnO Nanoparticles For Optoelectronic and Bio-Medical Applications	2017
13	Mr. Muhamed Shafeeq M.	Influence of Processing Parameters and Chemical Composition on the Properties of Cu-Al based Shape Memory Alloys	2017
14	Mr. Pramod Kumar Patel	Design and Simulation of Ultra low Power High performance n-T SRAM Cell	2019
15	Mr. Sunil Kumar	Structural and Optical Studies of Boron Carbon Oxynitride (BCNO) Nanocomposite Phosphor Materials	2020
16	Mr. Niraj Kumar Singh	Structural Optical and Magnetic Studies of Transition Metals Doped Zinc Oxide Nanoparticles	2020
17.	Mr. Akash Gupta	Electronic and Optical Properties of Transition metal doped Tungsten Oxide (WO ₃) Nanostructures.	2024
18.	Mr. Krishna Kumar Patel	Synthesis and Characterization of Piezoelectric nanocomposite for energy harvesting applications	Pursuing

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

M.Tech.Thesis Supervision/Guidance Details of the M.Tech. (Nanotechnology) Thesis Guided:

S.NO.	Title	Name of Student	Year of Award
1.	Synthesis and Characterization of Copper Decorated Multiwalled Carbon Nanotubes	Deepa Kumari	2008
2.	Synthesis and Characterization of Nickel Decorated Multiwalled Carbon Nanotubes	Sadia Nouman	2008
3.	Synthesis, Characterization and Decoration of Multiwalled Carbon Nanotubes	Arshali Sasi	2008
4.	Fabrication and Characterization of Organic Semiconductor Based Solar Cells and Gas Sensors	Pratik Athe	2009
5.	Grafting of Organic Mono/Multilayers on Silicon for Molecular Electronics	Pushpraj Tanwar	2009
6.	X-Ray Diffraction and Morphological Studies of Combustion Synthesized Pristine ZnO	Siddharth Ojha	2009
7.	Structural Study of Nanoaprticle-Protein Complexes as Characterized by Neutron Scattering Technique	Sharad Kumar	2009
8.	CdS Quantum Dot Organic Light Emitting Diode	Deepti Shrivastava	2010
9.	Dispersion Characteristics of Ceramics Nanoparticles in Transformer Oil	Priyanka Bandwar	2010
10.	Synthesis and Characterization of <i>p</i> -Type ZnO Nanoparticles	Niraj Kumar Singh	2012
11.	Synthesis and Characterization of Ag@TiO ₂ core-shell Nanoparticles	Jyoti Prakash Jwala	2012
12.	Fabrication of Plasmonic Solar Cell using Ag ₂ S with Silver Nanoparticles	Rahul Shrivatava	2012
13.	Synthesis and Characterization of Tungsten Oxide Nanoparticles	Satyarth Tiwari	2012
14.	Synthesis of Tungsten Oxide Nanoparticles	Anuj Jain	2012
15.	Synthesis and Characterization of Mangnese Dioxide	Niraj Singh	2012
16.	Preparation and Study of TiO ₂ Nanoparticles Filled (Chitosan:PVA)-NH ₄ SCN Composite Gel Electrolytes	Ashutosh Khare	2012
17.	Synthesis and Characterization of Ag ₂ S/Ag Core-Shell Nanoparticles	Piyush Jain	2012
18.	Ag@WO ₃ core-shell nanoparticles: Synthesis, Characterization and	Khushdeep Singh Prajapati	2013

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

	application in solar cell		
19.	TiO ₂ /Ag ₂ S Quantum Dot sensitized Solar Cell	Ganpati Pawar	2013
20.	ZnO@Ag ₂ S Core-shell nanostructures for Photovoltaic applications	Sreejith S.	2013
21.	Plasmonic Enhanced Ag@TiO ₂ core-shell Nanostructure based solar cell	Devesh Kumar Sharma	2013
22.	Synthesis Characterization and Fabrication of ZnO@Ag ₂ S	Bharat Bhushan Deori122105108	2014
23.	Synthesis and Characterization of Silver Iodide NanoParticles for Cloud Seeding	Ajit Kumar Singh 122105115	2014
24.	Synthesis Characterization and Application of Silicon Quantum Dots / Nanoparticles in sensitized Solar Cell	Anshul Bhaskar 122105116	2014
25.	Fabrication and Characterization of Solution Processed ZnO Based Nano Homo junction and Hetro Junction Diode	Vinay kabra 122105117	2014
26.	Investigation on n-WO ₃ and p-Ag-WO ₃ Solution processed Hetero Junction Diodes and Solar cell	Akash Gupta 122105121	2014
27.	Front end generation and Validation of Mixed Single IPs Throgh IPGEN	Arpit Gupta 122105122	2014
28.	Investigation of Role of MgO in developing Transparent Nd doped NdYAG ceramics	Neelesh Kumar Jain 132105116	2015
29.	Evaluation and Deployment of Standalone Memory Characterization solutions for Timings and IR Drop Views	Surabhee Gupta 132105102	2015
30.	SSO Simulation of High Speed IO's using IBISV5.0 Model	Anurag Dwivedi 132105105	2015
31.	Development of Standard Cell Library in DSM Technology	Animesh Kumar 132105119	2015
32.	Standard Cell Chracterization and Methodologies	Yashwant Goswami 132105104	2015
33.	CNT's Based Flexibile NO ₂ Gas Sensor for Asthma detection using Exhaled Breath	Daya Shankar Sharma 142126105	2016
34.	Low Cost STM32 based GSM controlled Smart Solar Street Light	Utkarsh Shrivastava 142126116	2016
35.	Synthesis and Characterization of TiO ₂ : Ag ₂ O Nano Composites	Rajesh Dhakar 142126106	2016
36.	Synthesis and Characterization of Al doped ZnO Thin Films	Leela Nidhi Shukla 142126108	2016
37.	Synthesis and Characterization of Praseodymium doped strontium Bismuth Titnate (SrB ₄ Ti ₄ O ₁₅)	Abhishek Chourasia 152126114	2017
38.	Synthesis of porous SiO ₂ doped BCNO	Pavan Kumar Varma	2017

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

	Phosphor nanomaterial for luminescence applications	152126112	
39.	Synthesis and Characterization of cerium doped sodium Bismuth Titanate ($\text{Na}_{0.5}\text{Bi}_{0.5}\text{TiO}_3$)	Harshit Nema 152126110	2017
40.	Synthesis and Characterization of CNT Doped BCNO Phosphor Nanomaterial	Narendra Kushwaha 152126108	2017
41.	Synthesis and Characterization of Iron doped ZnO	Shubham Yadav 162126114	2018
42.	ZnO and SnO_2 nanomaterial based gas sensors for electronic noise application	Nitin R Linge 162126103	2018
43.	Synthesis and Characterization of Cobalt based ZnO	Aishwarya Singh 162126107	2018
44.	Numerical Analysis of Heat Transfer in Triple Concentric Tube Heat Exchanger using Nanofluid	Shubham Shukla 172126106	2019
45.	Synthesis and Characterization of Nano- Al_2O_3 and Development of Zn- Al_2O_3 .	Rahul Kumar 172126105	2019
46.	Structural and Optical Characteristics of Ag doped Tungsten Oxide by Microwave Assisted Chemical Route.	Akshay Sinha 172126109	2019
47.	Studies on Optimization of Process Parameters for Slip Casting of Alumina Powders	Chirag Porwal 182105115	2020
48.	Reduction of CNT Interconnect Resistance for the Replacement of Cu for Future Technology Nodes	Nitin Ivnati	2021
49.	Design of SRAM Bitcell based on MOS-GNRFET	Prashant Chouhan	2021
50.	Real Time Terahertz Imaging Using SLMs or DLPs/DMDs	Swapna Esampelly	2022
51.	Design and Fabrication of InGaN/GaN MQWS Blue Light Emitting Diodes on C-Plane Sapphire Substrate	Abhishek Anand	2022
52.	Growth, Characterization and Applications of Transition Metal Dichalcogenides	Chandrika Gadgil	2022
53.	Development of Nano Enhanced Phase Change Material From Different Biomasses for Energy Application	Nidhi Bhardwaj	2023
54.	LASER Cladding of 316LAUSTENTIC Stainless Steel on 9Cr-1Mo Ferritic/Martensitic Steel	Shivaksh Kumar Mishra	2023
55.	Investigation of Molecular Structure of rGO at different Oxidation Temperature	Sachin Kumar	2023
56.	Development of Self-Cleaning surfaces using thin carbon films layered on Silicon –modified surfaces with PECVD	Pooja Patidar	2023

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

57.	Fabrication and Characterization of Van Der Waals heterostructures	Ajay Dheerajlal Bhut	2024
58.	Magnetite doped Nanocellulose fiber and Pyrolytic carbon based Triboelectric Nanogenerator	Om Prabhu Buddekkar	2024
59.	Synthesis and Characterization of Activated Carbon from Palash Tree Barks and Activated Carbon / Metal Oxide Composite for Supercapacitor Electrodes	Prashant Sompura	2024
60.	Enhancing the Thermal Transfer Characterization of Stainless Steel Cu-DLC and SiC-DLC Thin Films Deposited by PVD Cum PECVD	Anjana Prasad	2025
61.	Synthesis and Characterization of Ni-Co based Electrodes for H ₂ production using Electrocatalytic Co-deposition technique	Anand Kumar Santosh Pandey	2025

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

S.No.	Higher Education Teaching Experience						
	Institute/ University	Post	Duration		Experience		PB & G-Pay
			From	To	Y	M	
1.	MANIT , Bhopal (the then MACT)	Lecturer	08 .07. 1994	09.10. 1998	4	3	2200-75-4000
2.	MANIT , Bhopal (the then MACT)	Sr. Lecturer	09.10. 1998	09.10. 2003	5	0	10000 - 325-15200
3.	MANIT, Bhopal	Assistant Professor	09.10. 2003	09.10 2006	3	0	12000 - 420-18300
4.	MANIT, Bhopal	Associate Professor	09.10. 2006	09.10. 2010	4		PB-IV & 9000
5.	MANIT, Bhopal	Professor	09.10. 2010	04 June 2025	14	07	VII CPC Cell 14 A
6.	MANIT, Bhopal	Professor (HAG)	04 June 2025	To date	-	05	VII CPC Cell 15
Total					31	03	

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

S.No.	Administrative Experience				
	Organization	Post	Nature of Responsibility	Duration	
				From	To
1.	MANIT, Bhopal	I/C Director	Administrative and Academic responsibility of Institute	Sept. 2015	Nov. 2015
2.	MANIT Bhopal	Dy. Director	Administrative and Academic responsibility of Institute	September 2015	Dec. 2015
3.	MANIT Bhopal	Dean Academic	Academic responsibility of Institute	Feb 2015	Nov. 2015
4.	MANIT Bhopal	Head, Physics Department	Academic and administrative responsibility of department	i. June 2012 ii. July 2016	July 2014 December 2018
5.	MANIT Bhopal	Chairman, Nano Science & Engg. Centre	Academic and administrative responsibility of department	Nov. 2013	June 2017
6.	MANIT Bhopal	Controller of Examination	Academic (Examination)	Sept. 2010	April 2014
7.	MANIT Bhopal	Jt. Controller of Examination	Academic (Examination)	August 2007	Sept. 2010
8.	MANIT Bhopal	Dy. Controller of Examination	Academic (Examination)	April 1998	Aug. 2003
9.	MANIT Bhopal	Co-coordinator TEQIP, Phase-I	Administrative	July 2006	March 2009
10.	MANIT Bhopal	Coordinator Central Research Facility	To develop State of Art Research Laboratory	January 2019	Continuing

CURRICULUM VITAE OF PROFESSOR M.M.MALIK

Sponsored projects/ Consultancy undertaken

S. No.	Sponsoring agency	Title of the project	Investigators	Period	Amount in lacs	Brief mention of progress
1	Grant in Aid MHRD, GoI	Surface Morphological Investigations of Nanomaterials Using Atomic Force Microscopy	Principal Investigator : Dr.M.M.Malik Co-investigator: Dr. Rajnish Kurchania	06 months	Rs. 51.75	Completed
2	TEQIP Collaborative Research Scheme, NPIU, MHRD, GoI	Biological Synthesis of Metal-Oxide Nanoparticles using Natural Components As Nms for Anticancer Applications	Principal Investigator Dr. Vaibhav Koutu Co-investigator Dr. P. P. Bansod Dr. M. M. Malik, Dr. Yogesh Kumar Sariya	02 Years	Rs.11.60	completed

Consultancy

S.No.	Name of the Project	Project Investigator(s)	Funding agency	Amount in lacs	Progress
1	Fire Fighting and Interior Design of PTDC Building	Consultants: Prof. M. M. Malik, Prof. K. K. Dhote & Prof. R. K. Nema	MPMKVVCL Bhopal	Rs. 8.35	Completed