

CURRICULUM-VITAE

Dr. A. S. Maan

Professor, Department of Physics,
Maharshi Dayanand University, Rohtak

E-mail: asmaan66@rediffmail.com
asmaan66@gmail.com

Contact No: +91-1262-393345



1. Educational Qualification

Degree	Year of Passing	University/Institute
Ph.D.	1990	M. D. University, Rohtak
PG	1986	-do-
UG	1984	-do-
Others	-----	-----

2. Career Profile:

Designation	Institute served	Duration	
		From	To
Lecturer	University College Rohtak	29/10/87 - 10/03/88, 03/10/88 - 27/05/91	
Joined the Department of Physics as Lecturer on 27/05/1991. Currently working as Professor, since 2007.	Physics Department, M. D. University, Rohtak	27/05/1991	

3. Research Guidance

No. of Students Supervised	Ph.D.	M.Phil.
	09	03
	Four students are currently working for their Ph. D degree.	-

4. Projects Undertaken

Title of the project	Duration	Funding Agency	Status	
			Completed Yes	In progress -----
“Electronic and Photoelectric properties of Amorphous Semiconductors”	Three years	DST	Yes	-----
“ Study of Electronic and optical properties of Ion	Three years	NSC	Yes	-----

Irradiated Semiconductors".			
-----------------------------	--	--	--

5. Research Profile

Area of Research	Experimental Condensed Matter Physics/ Material Science
Published in Refereed/Peer Reviewed Journals	101
Published in Conferences/Seminar proceedings	44
Participation in conferences/seminars:	08

6. Administrative and other responsibilities:

- Dean, Academic Affairs, M. D. University Rohtak from 01.01.2024 and continuing
- Dean, College Development Council, M. D. University Rohtak from 02.03.2021 and continuing
- Director Research, M. D. University Rohtak from 01.07.2014 to 16.06.2015
- Involved in various academic activities as a member of various bodies such as Academic Council, Board of Studies, etc.
- Various academic/administrative activities of M. D. U. and also of other bodies
- Life member, Indian Physical Society (IACS) Other contributions

LIST OF RESEARCH PUBLICATIONS

S. No.	Publication	Impact Factor
101.	Priya Siwach, Latisha Gaba, Sajjan Dahiya , Rajesh Punia, AS Maan, Kuldeep Singh, Anil Ohlan; <i>Recent progress in conjugated polymers composites with metal-organic frameworks as electrode materials for supercapacitors. Applied Surface Science Advances</i> 100555 (2024) Publisher: Elsevier).	6.2
100.	Ritu Chahal, Yamini Dalal, Sajjan Dahiya, Rajesh Punia , AS Maan, Kuldeep Singh, Anil Ohlan; <i>Insitu assembly of Fe₃O₄@ FeNi₃ spherical mesoporous nanoparticles embedded on 2D reduced graphene oxide (RGO) layers as protective barrier for EMI pollution. Applied Surface Science Advances</i> , 100545 (2024) (Publisher: Elsevier).	6.2
99.	Anjali Sharma, Ashima Makhija, Deepika Yadav, Sajjan Dahiya, Anil Ohlan, R Punia , AS Maan; <i>Effect of Sr doping on electronic transport properties of SnS₂ hexagonal nanoplates. Journal of Physics and Chemistry of Solids</i> , 111678 (2023) (Publisher: Elsevier).	4.0
98.	Ravinder Singh, Sunil Agrohiya, Sajjan Dahiya, Ishpal Rawal, Anil Ohlan, Rajesh Punia, AS Maan; <i>Room Temperature Ammonia (NH₃) Gas Sensor based on Molybdenum Disulfide and Reduced Graphene Oxide (MoS₂/rGO)</i>	-

	<i>Heterojunction. Journal of Physics: Conference Series</i> , 012022 (2023) (Publisher: IOP).	
97.	Sukhbir Singh, Sajjan Dahiya, Rajesh Punia, AS Maan, PK Saini, Srinibas Satapathy, Rahul Tripathi, Anil Ohlan; <i>Investigation of the Structural, Dielectric, Magnetic, and Magnetoelectric Properties of Nd-Substituted Sr₃Co₂Fe₂₄O₄₁ Z-Hexaferrite. ECS Journal of Solid State Science and Technology</i> , 093012 (2023) (Publisher: ECS).	2.2
96.	Sunil Agrohiya, Ravinder Singh, Sajjan Dahiya, Ishpal Rawal, Amit Kumar, Anil Ohlan, R Punia , AS Maan; <i>Fabrication of p-ZnCo₂O₄/n-Si spinel heterojunction devices for self-powered ultraviolet photodetectors: Effect of Zn²⁺ concentration. Journal of Alloys and Compounds</i> , 171855 (2023) (Publisher: Elsevier).	6.2
95.	Sanket Malik, Silki Sardana, Sajjan Dahiya, Rajesh Punia , AS Maan, Anil Ohlan; <i>Template based synthesis of mesoporous ferrite composites with reduced graphene oxide for Electromagnetic shielding application. Applied Surface Science Advances</i> , 00463 (2023) (Publisher: Elsevier).	6.2
94.	A Sharma, A Makhija, S Dahiya, A Ohlan, R Punia , AS Maan; <i>Rietveld refinement, Morphological, Optical and Photocatalytic Dye Degradation Studies of Pristine and Sr-Doped SnS₂ Hexagonal Nanoplates. Materials Research Bulletin</i> , 112464 (2023) (Publisher: Pergamon).	5.4
93.	Vibhor Kumar, Sandeep Kumar, AS Maan, Jamil Akhtar; <i>Interfacial and structural analysis of MeV heavy ion irradiated SiC. Applied Nanoscience</i> (2023) (Publisher: Springer International Publishing).	-
92.	Silki Sardana, Kanika Aggarwal, Priya Siwach, Latisha Gaba, AS Maan, Kuldeep Singh, Anil Ohlan; <i>Hierarchical three dimensional polyaniline/N-doped graphene nanocomposite hydrogel for energy storage applications. Energy Storage</i> (2023) (Publisher: John Wiley & Sons, Ltd.).	3.2
91.	Silki Sardana, Sajjan Dahiya, Rajesh Punia , A. S. Maan, Kuldeep Singh and Anil Ohlan; <i>Hierarchical flower-like MoS₂/reduced graphene oxide nanohybrids supported on nickel foam as a high-performance electrode material for supercapacitor applications. Journal of Materials Chemistry A</i> (2023) (Publisher: Royal Society of Chemistry).	11.9
90.	A Makhija, A Sharma, S Dahiya, N Deopa, R Malik, R Punia , AS Maan; <i>Green emission from trivalent cerium doped LaAlO₃/MgO nano-composite for photonic and latent finger printing applications. RSC advances</i> 13 (22), 15366-15378 (2023) (Publisher: Royal Society of Chemistry).	3.9
89.	S Agrohiya, R Singh, S Dahiya, I Rawal, A Ohlan, R Punia , AS Maan; <i>Self-powered solar-blind UV photodetectors based on Zn: NiO/p-Si heterojunction devices. Applied Physics A</i> 129 (3), 233 (2023) (Publisher: Springer Berlin Heidelberg).	2.7
88.	S Pawaria, J Ahlawat, P Sharma, S Dahiya, A Ohlan, R Punia , AS Maan; <i>Glass transition and crystallization kinetics of lithium modified zinc borate semiconducting glasses by non-isothermal method. Ceramics International</i> 49 (14), 23276-23286 (2023) (Publisher: Elsevier).	5.2
87.	Sunil Agrohiya, Sajjan Dahiya, Ishpal Rawal, Parveen Kumar Goyal, Anil Ohlan, Rajesh Punia , AS Maan; <i>Fabrication of ZnMn₂O₄ spinel thin film</i>	2.8

	<i>devices for solar-blind ultraviolet photodetectors: Effect of Zn²⁺ concentration. Journal of Materials Science: Materials in Electronics</i> 34 , 6 1-21 (2023) (Publisher: Springer International Publishing).	
86.	Sunil Agrohiya, Sajjan Dahiya, Parveen K Goyal, Ishpal Rawal, Anil Ohlan, R Punia , AS Maan; <i>Nickel doped zinc oxide thin films for visible blind ultraviolet photodetection applications. ECS Sensors Plus</i> 1 , 4 043601 (2022) (Publisher: IOP Publishing).	-
85.	Silki Sardana, Kanika Aggarwal, Sanket Malik, Ayushi Saini, Sajjan Dahiya, Rajesh Punia , AS Maan, Kuldeep Singh, Anil Ohlan; <i>Unveiling the surface dominated capacitive properties in flexible ternary polyaniline/NiFe₂O₄/reduced graphene oxide nanocomposites hydrogel electrode for supercapacitor applications. Electrochimica Acta</i> 434 , 141324 (2022) (Publisher: Elsevier).	6.6
84.	Sukhbir Singh, Pardeep Khichi, Sajjan Dahiya, Rajesh Punia, AS Maan, Rahul Tripathi, Anil Ohlan; <i>A systematic study of physical properties of La substituted Sr₃Co₂Fe₂₄O₄₁ Z-hexaferrites. Ceramics International</i> (2023). (Publisher: Elsevier).	5.2
83.	Silki Sardana, Anjali Gupta, Kuldeep Singh, AS Maan, Anil Ohlan; <i>Conducting polymer hydrogel based electrode materials for supercapacitor applications. Journal of Energy Storage</i> (2022) (Publisher: Elsevier).	9.4
82.	Anjali Gupta, Silki Sardana, Sajjan Dahiya, Rajesh Punia , AS Maan, Kuldeep Singh, Rahul Tripathi, Anil Ohlan; <i>Binder-free polypyrrole/fluorinated graphene nanocomposite hydrogel as a novel electrode material for highly efficient supercapacitors. Applied Surface Science Advances</i> 11 100297 (2022) (Publisher: Elsevier).	6.2
81.	Jyoti Ahlawat, Suman Pawaria, Nisha Deopa, Sajjan Dahiya, Rajesh Punia , AS Maan; <i>Structural and Optical Characterization of IR transparent Semiconducting Sodium Modified Zinc Borate Glassy System. Applied Physics A</i> 128 (10), 1-14 (2022). (Publisher: Springer International Publishing).	2.7
80.	Suman Pawaria, Manju Bala, Harshvardhan Duhan, Nisha Deopa, Sajjan Dahiya, Anil Ohlan, Rajesh Punia , AS Maan; <i>Study of crystallization and glass transition kinetics of bismuth-modified zinc vanadate glasses by non-isothermal method. Journal of Thermal Analysis and Calorimetry</i> , 1-12 (2022) (Publisher: Springer International Publishing).	4.4
79.	Suman Pawaria, Jyoti Ahlawat, Manju Bala, Sajjan Dahiya, Anil Ohlan, R Punia , AS Maan; <i>Structural and Optical characterization of Semiconducting Lithium Modified Zinc Borate Glassy System for UV Band Reject Filter. Journal of Molecular Structure</i> 1270 , 133836 (2022) (Publisher: Elsevier).	3.8
78.	Sushma Lather, Sukhbir Singh, Sajjan Dahiya, AS Maan, Rahul Singhal, Rahul Tripathi, Anil Ohlan; <i>Effect of mechanical milling on magnetic, dielectric and magneto-electric properties of Z-type (Ba, Sr) hexaferrites. Journal of Alloys and Compounds</i> (2022) (Publisher: Elsevier).	6.2
77.	Vibhor Kumar, AS Maan, Jamil Akhtar; <i>Defect levels in high energy heavy ion implanted 4H-SiC. Materials Letters</i> (2022) (Publisher: North-Holland).	3

76.	J Ahlawat, Suman Pawaria, Manju Bala, Sajjan Dahiya, Anil Ohlan, R Punia , AS Maan; <i>Study of thermal and physical properties of sodium modified zinc borate glasses. Materials Today: Proceedings</i> (2023) (Publisher: Elsevier).	-
75.	Ashima Makhija, R Punia , Sajjan Dahiya, Anil Ohlan, AS Maan; <i>Development trends of rare-earth luminescence: A bibliometric analysis. Materials Today: Proceedings</i> (2023) (Publisher: Elsevier).	-
74.	Anjali Sharma, Poonam Punia, Sajjan Dahiya, Anil Ohlan, R Punia , AS Maan; <i>Bibliometric analysis of tin disulphide nanomaterials. Materials Today: Proceedings</i> (2023) (Publisher: Elsevier).	-
73.	J Dalal, S Malik, S Dahiya, R Punia , K Singh, A S Maan, S K Dhawan, Anil Ohlan; <i>One pot synthesis and electromagnetic interference shielding behavior of reduced graphene oxide nanocomposites decorated with Ni_{0.5}Co_{0.5}Fe₂O₄ nanoparticles. Journal of Alloys and Compounds, 161472</i> (2021). (Publisher: Elsevier).	6.2
72.	Silki Sardana, Anjali Gupta, AS Maan, Sajjan Dahiya, Kuldeep Singh, Anil Ohlan; <i>Design and synthesis of polyaniline/MWCNT composite hydrogel as a binder-free flexible supercapacitor electrode. Indian Journal of Physics</i> (2021) (Publisher: Springer India).	2.0
71.	M Bala, S Pawaria, N Deopa, S Dahiya, A Ohlan, R Punia , A S Maan; <i>Structural, optical, thermal and other physical properties of Bi₂O₃ modified Lithium Zinc Silicate glasses. Journal of Molecular Structure 1234</i> , 130160 (2021). (Publisher: Elsevier).	3.8
70.	M Bala, S Agrohiya, S Dahiya, A Ohlan, R Punia , AS Maan; <i>Effect of replacement of Bi₂O₃ by Li₂O on structural, thermal, optical and other physical properties of zinc borate glasses. Journal of Molecular Structure 1219</i> , 128589 (2020). (Publisher: Elsevier).	3.8
69.	Vibhor Kumar, Sandeep Kumar, AS Maan, Jamil Akhtar; <i>Interface improvement of epitaxial 4H-SiC based Schottky diodes by selective heavy ion irradiation. Applied Nanoscience</i> , (2020) (Publisher: Springer International Publishing).	-
68.	Vibhor Kumar, AS Maan, Jamil Akhtar; <i>Electronic transport in epitaxial 4H-SiC based Schottky diodes modified selectively by swift heavy ions. Materials Science in Semiconductor Processing</i> (2020) (Publisher: Pergamon).	4.1
67.	Vibhor Kumar, Jyoti Verma, AS Maan, Jamil Akhtar; <i>Epitaxial 4H-SiC based Schottky diode temperature sensors in ultra-low current range. Vacuum</i> (2020) (Publisher: Pergamon).	4.0
66.	A Gupta, S Sardana, J Dalal, S Lather, A S Maan, R Tripathi, R Punia , Kuldeep Singh, Anil Ohlan; <i>Nanostructured Polyaniline/Graphene/Fe₂O₃ Composites Hydrogel as a High-Performance Flexible Supercapacitor Electrode Material. ACS Applied Energy Materials 3</i> (7), 6434-6446 (2020).	6.4
65.	Suman Kumari, Sanket Malik, Sandeep Kumar, Jasvir Dalal, Sajjan Dahiya, Anil Ohlan, Rajesh Punia , and A. S. Maan; <i>Excellent photoelectrical properties of ZnO thin film based on ZnO/epoxy-resin ink for UV-light detectors. AIP Conference Proceedings 2142</i> , 120004 (2019). (Publisher: American Institute of Physics).	-

64.	Sanket Malik, Suman Kumari, Anil Ohlan, Sajjan Dahiya, Rajesh Punia , and A. S. Maan; <i>Synthesis and structural characterization of light-weight ferrite-reduced graphene oxide composite</i> . AIP Conference Proceedings 2142 , 160004 (2019). (Publisher: American Institute of Physics).	-
63.	Anil Kumar, Jasvir Dalal, Sajjan Dahiya, Amal Chowdhury, A. Khandual, Anil Ohlan, Rajesh Punia , and A. S. Maan; <i>Coating of multi-walled carbon nanotubes on cotton fabric via conventional dyeing for enhanced electrical and mechanical properties</i> . AIP Conference Proceedings 2142 , 140019 (2019). (Publisher: American Institute of Physics).	-
62.	Sushma Lather, Jasvir Dalal, Anjali Gupta, Sukhbir Singh, DP Singh, Sajjan Dahiya, AS Maan, Rahul Tripathi, Anil Ohlan; <i>PbTiO₃-Ni_{0.5}Co_{0.5}Fe₂O₄ multiferroic nanocomposites: Impact of ball-milling on dielectric, magnetic and ferroelectric properties</i> . Ceramics International , 45(4) 4957-4963 (2019)	5.2
61.	Sheetal Antil, Manoj Kumar, Siddhartha Lahon, AS Maan; <i>Pressure dependent optical properties of quantum dot with spin orbit interaction and magnetic field</i> . Optik (2019) (Publisher: Elsevier).	3.1
60.	Jasvir Dalal, Sushma Lather, Anjali Gupta, Rahul Tripathi, Anup Singh Maan, Kuldeep Singh, Anil Ohlan; <i>Reduced graphene oxide functionalized strontium ferrite in poly (3, 4-ethylenedioxythiophene) conducting network: a high-performance EMI shielding material</i> . Advanced Materials Technologies (2019) (Publisher: Wiley).	6.8
59.	Sheetal Antil, Anil Ohlan, A. S. Maan, S. Lahon, Manoj Malik, R. Punia , Sajjan Dahiya; <i>Influence of hydrostatic pressure and spin orbit interaction on optical properties in quantum wire</i> . Physica B: Condensed Matter 552 202-208 (2019). (Publisher: Elsevier).	2.8
58.	Anil Kumar, Jasvir Dalal, Sajjan Dahiya, Rajesh Punia , K. D. Sharma, Anil Ohlan, A. S. Maan; <i>In situ Decoration of Silver Nanoparticles on Single-walled Carbon Nanotubes by Microwave Irradiation for Enhanced and Durable Anti-bacterial Finishing on Cotton Fabric</i> Ceramics International 45 1011-1019 (2019). (Publisher: Elsevier).	5.2
57.	Vibhor Kumar, Anup S Maan, Jamil Akhtar, <i>Tailoring Surface and Electrical Properties of Ni/4H-nSiC Schottky Barrier Diodes via Selective Swift Heavy Ion Irradiation</i> , physica status solidi (a) 2018.	-
56.	Vibhor Kumar, AS Maan; <i>Improvement in reverse bias leakage current of Ni/4H-nSiC Schottky barrier diodes via MeV selective ion irradiation</i> . IOP conference series: materials science and engineering , (2018) (Publisher: IOP Publishing).	-
55.	Jasvir Dalal, Sushma Lather, Anjali Gupta, Sajjan Dahiya, AS Maan, Kuldeep Singh, SK Dhawan, Anil Ohlan; <i>EMI shielding properties of laminated graphene and PbTiO₃ reinforced poly (3, 4-ethylenedioxythiophene) nanocomposites</i> . Composites Science and Technology (2018) (Publisher: Elsevier).	9.1
54.	D. Singh, V.S. Kundu, A.S. Maan; <i>Structural, morphological and gas sensing study of zinc doped tin oxide nanoparticles synthesized via hydrothermal technique</i> . Journal of Molecular Structure , 1115 (2016) 250-257.	3.8

53.	Virender Singh Kundu, Davender Singh, AS Maan, Amit Tanwar; <i>Structural, morphological, optical and photocatalytic investigation of Ag-doped TiO₂</i> . AIP Conference Proceedings (2016) (Publisher: AIP Publishing).	-
52.	Vibhor Kumar, Nando Kaminski, Anup Singh Maan, Jamil Akhtar; <i>Capacitance roll-off and frequency-dispersion capacitance-conductance phenomena in field plate and guard ring edge-terminated Ni/SiO₂/4H-nSiC Schottky barrier diodes</i> . physica status solidi (a) (2016) (Publisher: Wiley).	2
51.	V. Kumar, N. Kaminski, A.S. Maan, J. Akhtar; <i>Capacitance roll-off and frequency-dispersion capacitance-conductance phenomena in field plate and guard ring edge-terminated Ni/SiO₂/4H-nSiC Schottky barrier diodes</i> . Physica Status Solidi (A) Applications and Materials Science , 213 (2016) 193-202.	2.0
50.	Sajjan Dahiya, R. Punia, S. Murugavel, and A. S. Maan; <i>Conductivity and Modulus Formulation in Lithium Modified Bismuth Zinc Borate Glasses</i> . Solid State Sciences 55, 98 – 105 (2016). (Publisher: Elsevier).	3.5
49.	Sajjan Dahiya, Rajesh Punia, Anupinder Singh, Anup S. Maan, and Sevi Murugavel; <i>DC Conduction and Electric Modulus formulation of Lithium-Doped Bismuth Zinc Vanadate Semiconducting Glassy System</i> . Journal of the American Ceramic Society 98 (9), 2776-2783 (2015). (Publisher: Wiley).	3.9
48.	Davender Singh, Virender Singh Kundu, AS Maan; <i>Structural, morphological and gas sensing study of palladium doped tin oxide nanoparticles synthesized via hydrothermal technique</i> . Journal of Molecular Structure (2015) (Publisher: Elsevier).	3.8
47.	D. Singh, V.S. Kundu, A.S. Maan; <i>Structural, morphological and gas sensing study of palladium doped tin oxide nanoparticles synthesized via hydrothermal technique</i> . Journal of Molecular Structure , 1100 (2015) 562-569.	3.8
46.	V. Kumar, S. Pawar, A.S. Maan, J. Akhtar, <i>Diameter dependent thermal sensitivity variation trend in Ni/4H-SiC Schottky diode temperature sensors</i> . Journal of Vacuum Science and Technology B: Nanotechnology and Microelectronics , 33 (2015).	1.4
45.	Sajjan Dahiya, R. Punia, S. Murugavel, and A. S. Maan; <i>Structural and other physical properties of lithium doped bismuth zinc vanadate semiconducting glassy system</i> . Journal of Molecular Structure 1079 189–193 (2015). (Publisher: Elsevier).	3.8
44.	S. Dahiya, R. Punia, S. Murugavel, and A. S. Maan; <i>Temperature and frequency dependent conductivity of lithium doped bismuth zinc vanadate semiconducting glassy system</i> . Indian Journal of Physics 88(11) 1169 (2014). (Publisher: Springer).	2
43.	Vibhor Kumar, Anup Singh Maan, Jamil Akhtar; <i>Barrier height inhomogeneities induced anomaly in thermal sensitivity of Ni/4H-SiC Schottky diode temperature sensor</i> . Journal of Vacuum Science & Technology B 32 (2014) (Publisher: AIP Publishing).	1.4
42.	Sajjan Dahiya, A. S. Maan, R. Punia, R. S. Kundu, and S. Murugavel; <i>Physical, optical and structural properties of xNa₂O-(50-x)Bi₂O₃-10ZnO-40B₂O₃ glasses</i> . AIP Conference Proceedings 1512, 566 (2013). (Publisher: American Institute of Physics).	-

41.	RL Dhiman, Virender Singh Kundu, Susheel Arora, AS Maan; <i>Physical and electrical properties of copper oxide doped bismuth borate glasses</i> . AIP Conference Proceedings (2013) (Publisher: American Institute of Physics).	-
40.	Virender Singh Kundu, RL Diman, AS Maan, S Arora; <i>Synthesis and characterization of tin oxide nanoparticles via sol-gel method using ethanol as solvent</i> . International Journal of Advanced Research in Science And Engineering (2013) (Publisher: AR Research Publication).	-
39.	Susheel Arora, Virender Kundu, DR Goyal, AS Maan; <i>DSC and DC Conductivity of Bi₂O₃·LiF·B₂O₃ Glasses</i> . International Scholarly Research Notices (2013) (Publisher: Hindawi).	-
38.	V.S. Kundu, R.L. Dhiman, D. Singh, A.S. Maan; <i>Methanol assisted synthesis and characterization of tin oxide nanoparticles</i> . AIP Conf. Proc. , 2013, pp. 275-276.	-
37.	V. Kumar, A.S. Maan, J. Akhtar; <i>Selective SHI irradiation for mesa type edge termination in semiconductor planar junction</i> . Journal of Physics: Conference Series , 423 (2013).	-
36.	R.L. Dhiman, V.S. Kundu, S. Arora, A.S. Maan, <i>Structural and physical properties of vanadium doped copper bismuth borate glasses</i> . AIP Conf. Proc. , 2013, pp. 598-599.	-
35.	R.L. Dhiman, V.S. Kundu, S. Arora, A.S. Maan, <i>Physical and electrical properties of copper oxide doped bismuth borate glasses</i> . AIP Conf. Proc. , 2013, pp. 685-686.	-
34.	S. Arora, V. Kundu, D.R. Goyal, A.S. Maan; <i>Effect of stepwise replacement of LiF by ZnO on structural and optical properties of LiF·B₂O₃ glasses</i> . Turkish Journal of Physics , 37 (2013) 229-236.	2.1
33.	V. Kumar, J. Akhtar, K. Singh, A.S. Maan; <i>Simulation based analysis of temperature effect on breakdown voltage of ion implanted Co/n-Si schottky diode</i> . Journal of Nano- and Electronic Physics , 4 (2012).	-
32.	Susheel Arora, Virender Kundu, DR Goyal, AS Maan; <i>Effect of Stepwise Replacement of Non-Oxide to Oxide Group on Structural Properties of LiF·Glasses</i> . International Scholarly Research Notices , (2012) (Publisher: Hindawi).	-
31.	Susheel Arora, Virender Kundu, DR Goyal, AS Maan; <i>Effect of stepwise replacement of LiF by Bi₂O₃ and of annealing on optical properties of LiF·B₂O₃ glasses</i> . International Scholarly Research Notices , (2012) (Publisher: Hindawi).	-
30.	Sajjan Dahiya, A. S. Maan, R. Punia, R. S. Kundu and S. Murugavel; <i>Physical, Optical and Structural Properties of xLi₂O- (50-x) Bi₂O₃-10ZnO-40B₂O₃ Glasses</i> . Transactions of the Indian Ceramic Society 71(4), 225 (2012). (Publisher: Taylor & Francis).	1.2
29.	V. Kundu, R.L. Dhiman, A.S. Maan, D.R. Goyal; <i>Optical properties of alkaline earth ions doped bismuth borate glasses</i> , AIP Conf. Proc. , 2011, pp. 545-546.	-
28.	V. Kundu, R.L. Dhiman, A.S. Maan, D.R. Goyal; <i>Structural investigation of Li₂O-Bi₂O₃-B₂O₃ glasses</i> . AIP Conf. Proc. , 2011, pp. 541-542.	-

27.	M.S. Sheoran, N. Kishore, R. Dhar, A.S. Maan; <i>FTIR and Raman spectra of $x\text{B}_2\text{O}_3$ (95-x) TeO_2 5Fe_2O_3 glasses.</i> Asian Journal of Spectroscopy , 14 (2010) 85-92.	6.2
26.	V. Kundu, R.L. Dhiman, A.S. Maan, D.R. Goyal, S. Arora; <i>Characterization and electrical conductivity of Vanadium doped strontium bismuth borate glasses.</i> Journal of Optoelectronics and Advanced Materials , 12 (2010) 2373-2379.	0.5
25.	V. Kundu, R.L. Dhiman, A.S. Maan, D.R. Goyal; <i>Optical and spectroscopic studies of $\text{ZnO-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses,</i> Journal of Optoelectronics and Advanced Materials , 11 (2009) 1595-1600.	0.5
24.	R.L. Dhiman, V.S. Kundu, A.S. Maan, D.R. Goyal; <i>Characterization of aluminum doped zinc borate glasses.</i> Journal of Optoelectronics and Advanced Materials , 11 (2009) 1002-1006.	0.5
23.	A.S. Maan, D.R. Goyal; <i>Dielectric properties of In-Se-Te glassy alloys.</i> Indian Journal of Engineering and Materials Sciences , 15 (2008) 207-210.	0.615
22.	V. Kundu, R.L. Dhiman, D.R. Goyal, A.S. Maan; <i>Physical and electrical properties of semiconducting $\text{Fe}_2\text{O}_3\text{-V}_2\text{O}_5\text{-B}_2\text{O}_3$ glasses,</i> Optoelectronics and Advanced Materials, Rapid Communications , 2 (2008) 428-432.	-
21.	V. Kundu, R.L. Dhiman, D.R. Goyal, A.S. Maan, <i>Effect of V_2O_5 on structural, physical and electrical properties of bismuth borate glasses,</i> Journal of Optoelectronics and Advanced Materials , 10 (2008) 2765-2770.	0.5
20.	Virender Kundu, RL Dhiman, AS Maan, DR Goyal; <i>Structural and Physical Properties of $\text{Fe}_2\text{O}_3\text{-B}_2\text{O}_3\text{-V}_2\text{O}_5$ Glasses.</i> Advances in Condensed Matter Physics (2008) (Publisher: Hindawi Limited).	1.5
19.	A.S. Maan, D.R. Goyal, A. Kumar, <i>Investigation of optical absorption in $\text{Te}_5(\text{In}_x\text{Se}_{100-x})_{95}$ glassy alloys,</i> Chalcogenide Letters , 4 (2007) 48-53.	-
18.	A.S. Maan, D.R. Goyal, <i>Study of crystallization kinetics of $\text{Te}_5(\text{In}_x\text{Se}_{100-x})_{95}$ glassy alloys,</i> Chalcogenide Letters , 4 (2007) 89-96.	-
17.	AS Maan, DR Goyal, A Kumar; <i>Investigation of optical absorption in $\text{Te}_5(\text{In}_x\text{Se}_{100-x})_{95}$ glassy alloys.</i> Chalcogenide letters , (2007) (Publisher: S.C. Virtual Company of Physics S.R.L).	-
16.	AS Maan, DR Goyal; <i>Kinetics of glass transition in $\text{Te}_5(\text{In}_x\text{Se}_{100-x})_{95}$ glassy alloys.</i> Journal of Ovonic Research , (2007) (Publisher: S.C. Virtual Company of Physics S.R.L).	-
15.	J. Malik, K.L. Bhatia, N. Kishore, D. Kabiraj, A.S. Maan, <i>MeV energy Lithium ion irradiated crystalline GaAs: An optical study.</i> Radiation Measurements , 36 (2003) 647-652.	2.0
14.	M. Singh, D.R. Goyal, A.S. Maan, <i>Investigation of optical absorption in Sb-Se glassy alloys,</i> Journal of Physics and Chemistry of Solids , 60 (1999) 877-882.	4.0
13.	A.S. Maan, D.R. Goyal, S.K. Sharma, T.P. Sharma, <i>Optical absorption properties of amorphous GaSeTe alloys,</i> Journal of Non-Crystalline Solids , 183 (1995) 186-190.	3.5
12.	D.R. Goyal, A.S. Maan, <i>Far-infrared absorption in amorphous $\text{Sb}_{15}\text{Ge}_x\text{Se}_{85-x}$ glasses,</i> Journal of Non-Crystalline Solids , 183 (1995) 182-185.	3.5

11.	A.S. Maan, D.R. Goyal, S.K. Sharma, T.P. Sharma, <i>Investigation of electrical conductivity and optical absorption in amorphous In_xSe_{100-x} alloys</i> , Journal de physique. III , 4 (1994) 493-501.	-
10.	A. S. Maan, L. R. Sharma, H. S. Dahiya and D. R. Goyal, <i>Study of Laser Induced Photoconductivity in Thin Films of Amorphous Sb₁₅Ge₅Se₈₀ Alloy</i> , Journal de Physique III , France 3 (1993) 1211.	-
9.	A. S. Maan, D. R. Goyal and A. Kumar, <i>A.C. Conductivity of Amorphous Ga-Se-Te System</i> , Revue de Physique Appliquée 24 (1989) 1071.	-
8.	A. S. Maan, D. R. Goyal and A. Kumar, <i>Photoconductivity in the Thin Films of Amorphous Ga₄₀Se_xTe_{60-x}</i> , Revue de Physique Appliquée 24 (1989) 613.	-
7.	A. S. Maan and D. R. Goyal, <i>Steady State Photoconductivity and Decay Kinetics in Amorphous Thin Films of Ga₄₀ Se₃₀Te₃₀</i> , Indian J. Physics 63A (1989) 457.	2.0
6.	A.S. Maan, D.R. Goyal, A. Kumar, <i>Steady-state photoconductivity and decay kinetics in thin films of a-In₂₀Se₈₀</i> , Journal of Non-Crystalline Solids , 110 (1989) 53-60.	3.5
5.	AS Maan, DR Goyal, A Kumar; <i>Photoconductivity in thin films of a-Ga₄₀Se_xTe_{60-x}</i> . Revue de physique appliquée (1989) (Publisher: Société française de physique).	-
4.	A.S. Maan, A.K. Sharma, D.R. Goyal, A. Kumar, <i>Steady state and transient photoconductivity in a-Sb₁₅Ge₁₀Se₇₅</i> , Journal of Non-Crystalline Solids , 104 (1988) 273-282.	3.5
3.	AS Maan, DR Goyal, A Kumar; <i>An analysis of anomalous rise of photocurrent in a-In₂₀Se₈₀</i> . Journal of materials science letters (1988) (Publisher: Kluwer Academic Publishers).	-
2.	A.S. Maan, D.R. Goyal, A. Kumar, <i>Photoconductivity in Thin Films of a-In₄₀Se₃₀Te₃₀</i> , Japanese Journal of Applied Physics , 27 (1988) 1881-1884.	1.5
1.	D. R. Goyal, A. K. Sharma and A. S. Maan, <i>FIR Absorption in Amorphous Sb₁₅Ge₁₀Se₇₅</i> , J. Material Science Letters 7 (1988) 783.	-

International/national conferences/seminars/symposia

1. Transient photoconductivity in a- thin films of In₄₀ Se₃₀ Te₃₀, *Solid state physics symp. BARC, Bombay 1987.*
2. Anomalous rise of photocurrent in thin films of a- In₂₀ Se₈₀., *Solid state physics symp. BARC, Bombay 1987.*
3. Non exponential decay of photocurrent in thin films of a- Sb₁₅ Ge₁₀ Se₇₅ , *19th national seminar on crystals. Gandhiji University, Changanacherry, 1987.*
4. Photocurrent decay in thin films of a- In₂₀ Se₈₀ , *19th national seminar on crystals. Gandhiji University, Changanacherry, 1987.*
5. Steady state photoconductivity and decay kinetics in amorphous thin films of Ga₄₀ Se₃₀ Te₃₀, *National seminar on Physics and applications, I.A.C.S. Calcutta 1988.*

6. Photoconduction in a-thin films of $\text{Ga}_{40}\text{Se}_x\text{Te}_{60-x}$, *Solid state physics symp. Bhopal University, Bhopal, 1988.*
7. Electrical properties of a- $\text{Sb}_{15}\text{Ge}_{10}\text{Se}_{75}$, *Solid state physics symp. Bhopal University, Bhopal, 1988.*
8. Photoconductivity in thin films of a- $\text{In}_{40}\text{Se}_{20}\text{Te}_{40}$, *Vth national seminar on ferroelectrics and dielectrics, S.V.University, Tirupati, 1989.*
9. Temperature dependence of a.c. conductivity in glassy $\text{Ga}_{40}\text{Se}_{40}\text{Te}_{20}$, *Vth national seminar on ferroelectrics and dielectrics, S.V.University, Tirupati, 1989.*
10. FIR absorption in amorphous $\text{Sb}_{15}\text{Ge}_x\text{Se}_{85-x}$ glasses, *Second national conference on disordered materials, H.B.T.I. Kanpur, 1991.*
11. Photoconductivity in a- $\text{Sb}_{15}\text{Ge}_x\text{Se}_{85-x}$ glasses, *Second national conference on disordered materials, H.B.T.I. Kanpur, 1991.*
12. Frequency dependent conductivity in a- In-Se-Te system, *Second national conference on disordered materials, H.B.T.I. Kanpur, 1991.*
13. Steady state and transient photoconductivity in a- $\text{In}_{10}\text{Se}_{90}$, *Solid state physics symp. S.V.University, Tirupati, 1992.*
14. Molecular structure of Sb-Ge-Se glasses, *Solid state physics symp. BARC, Bombay, 1993.*
15. Charge transport in thin films of a- In-Se alloys, *Solid state physics symp. BARC, Bombay, 1993.*
16. Optical absorption in thin films of a- Ga-Se-Te alloys, *Solid state physics symp. BARC, Bombay, 1993.*
17. Investigation of photoconduction and recombination kinetics in a- thin films of $\text{In}_x\text{Se}_{100-x}$ alloys using a laser, *International seminar on CDDM, K.U.Kurukshetra, 1996.*
18. Study of crystallization kinetics in glassy $\text{Te}_{\square}(\text{In}_x\text{Se}_{100-x})_{95}$, *DAE Solid state physics symp. Kochi, 1997.*
19. Study of recombination kinetics in amorphous Sb-Ge- Se alloys. *DAE Solid state physics symp. Kochi, 1997.*
20. Optical absorption properties of a- $\text{Sb}_{15}\text{Ge}_x\text{Se}_{100-x}$ alloys. *Ninth annual general meeting, MRSI, Madras, 1998.*
21. Study of crystallization kinetics in a- $\text{Sb}_x\text{Se}_{100-x}$, *Ninth annual general meeting, MRSI, Madras, 1998.*
22. Kinematics studies of glass transition in $\text{Te}_{\square\square}(\text{In}_x\text{Se}_{100-x})_{85}$ alloys. *Ninth annual general meeting, MRSI, Madras, 1998.*
23. Optical absorption properties of a- $\text{Te}_{\square}(\text{In}_x\text{Se}_{100-x})_{95}$. *National seminar on characterization of semiconductor materials for device applications, GNDU, Amritsar, 1998.*
24. Kinematics studies of glass transition in $\text{Sb}_x\text{Se}_{100-x}$ alloys. *National seminar on characterization of semiconductor materials for device applications, GNDU, Amritsar, 1998.*
25. Laser Induced Photoconductivity and Recombination Kinetics in $\text{Sb}_x\text{Se}_{100-x}$ Glassy Alloys. *44th Solid State Physics Symposium, BARC Mumbai (2001).*
26. Laser Induced Photoconductivity and Recombination Kinetics in $\text{Sb}_x\text{Se}_{100-x}$ Glassy Alloys. *44th Solid State Physics Symposium, BARC Mumbai (2001).*
27. Effect of annealing on the electronic properties of a- thin films of $\text{Ga}_{20}\text{Te}_{80-x}\text{Bi}_x$. *National conference on frontiers in material science and technology, I.I.T. Kharagpur, 2002.*

28. Study of surface morphology and atomic spectra of As_2S_3 thin films irradiated with 75 MeV Ge ions, National Seminar on Physics of Materials for Electronic and Optoelectronic Devices, J. N. V. University, Jodhpur 2002.
29. Dielectric properties of a- $\text{Ga}_{40}\text{Se}_x\text{Te}_{60-x}$ alloys. *National symposium on frontiers in condensed matter physics, G.J.U. Hissar, 2002.*
30. Temperature and frequency Dependence of Permittivity of Ga-Se-Te Glassy Alloys. *48th DAE Solid State Physics Symposium, Gwalior 2003.*
31. DC conductivity and study state photoconductivity in thin film of $\text{Sb}_x\text{Se}_{100-x}$ glasses. *48th DAE Solid State Physics Symposium, Gwalior 2003.*
32. Transient Photo Conductivity and recombination kinetics in $\text{Te}_5(\text{In}_x\text{Se}_{100-x})_{95}$ glasses, *49th DAE Solid State Physics Symposium, 2004 GNDU, Amritsar.*
33. Laser Induced steady state photconductivity and recombination mechanism in $\text{In}_x\text{Se}_{100-x}$ glassy alloys, *49th DAE Solid State Physics Symposium, 2004 GNDU, Amritsar.*
34. Kinetics of glass transition and crystallization in $\text{Te}_5(\text{In}_{10}\text{Se}_{90})_{95}$ glassy alloy, *15th National symposium on thermal analysis, 2006, University of Rajasthan, Jaipur.*
35. Dielectric properties of In-Se-Te glassy alloys. *XIVth National Seminar on Ferroelectrics and Dielectrics, IIT Kharagpur 2006.*
36. Investigation of Photoconductivity and Recombination Mechanism in Thin Films of $\text{Te}_x(\text{In}_{10}\text{Se}_{90})_{100-x}$ Glassy Alloys. *XIVth National Seminar on Ferroelectrics and Dielectrics, IIT Kharagpur 2006.*
37. Kinematic Studies of Glass Transition and Crystallization in $\text{Sb}_5\text{Se}_{95}$ Glassy Alloy by DSC Technique. *51st DAE Solid State Physics Symposium, Bhopal 2006.*
38. Electrical conductivity of $\text{V}_2\text{O}_5\text{-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses, *52nd DAE Solid State Physics Symposium, Mysore 2007.*
39. Effect of SrO on Physical and optical properties of vanadyl doped bismuth borate glasses, *52nd DAE Solid State Physics Symposium, Mysore 2007.*
40. Structural and optical properties of vanadyl doped $\text{SrO-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses Accepted for presentation at *XVth National Seminar on Ferroelectrics and Dielectrics, Thapar University, Patiala 2008.*
41. Optical properties of zinc doped bismuth borate glasses. *53rd DAE, Solid State Physics Symposium, 53(2008) 565.*
42. Cation distribution in aluminum substituted Mn-Zn ferrites from X-ray diffraction and magnetization measurements, *54th DAE, Solid State Physics Symposium, 54 (2009) 979.*
43. Optical properties of alkaline earth ions doped bismuth borate glasses, *DAE, Solid State Physics Symposium Dec.2010,*
44. Structural investigation of $\text{Li}_2\text{O-Bi}_2\text{O}_3\text{-B}_2\text{O}_3$ glasses, *DAE, Solid State Physics Symposium Dec.2010*