Curriculum Vitae

Prof. Sanjeev Kumar Sharma
designation: **Professor**
Department of Physics
Ch. Charan Singh University, Meerut Campus
Meerut, UP – 250004
INDIA

Email: sksharma18@ccsuniversity.ac.in
sanjeevlrs73@gmail.com
Ph.: +91-9599 410 630
https://orcid.org/0000-0002-5049-9503

Experience:

- **Research** experience: **22 years (12 in SOUTH KOREA)**
- **Teaching** experience: **15 years (8Y in SOUTH KOREA)**

https://scholar.google.co.in/citations?user=SAUjvgMAAAAJ&hl=en

Awards: 5.

1. **International Distinguished Research Excellence Award 2021: NANOMATERIALS** (Center for Professional Advancement, Reg. IMRF, Niti Aayog, Government of **INDIA**)
2. **Best Professor Award:** Research – Nanotechnology, 2012.03.31, **SOUTH KOREA**
3. **Best research paper:** $1,000 (March 2012) by Cheju Halla University, Jeju, **SOUTH KOREA**
4. **Best research performance:** $1,500 (July 2014) by Dongguk University-Seoul, **SOUTH KOREA**
5. **Best research performance:** $3,000 (October 2016) by Dongguk University-Seoul, **SOUTH KOREA**

Patents: 3.

- "***Method for Al-nanorods thin film anode of Li-ion batteries***", Korea Intellectual Property Rights Information Service (KIPRIS), Application No.: 1020120031730, 2012.03.28 and Patent No.: 1012863660000, **2013.07.09**.
- "***Method for manufacturing of biological silica (b-SiO_2) From Rice Husk Crude Biomass***", International Patent and Law Firm, Patent file Number-P201000, Patent No.: 10-2020-0056950, 2020.05.13.
- **"*YZO-CNTs nanocomposites with enhanced photocatalyst performance and their manufacturing methods*",** Korea Intellectual Property Rights Information Service (KIPRIS), Patent File Number: P20KWU30, Patent No.: 10-2020-0118746, **2020.09.16.**

Awarded Fellowships: 4.

- **PDF** (Post-Doctoral Fellowship), Brain Korea - 21, **Republic of Korea**
- **RA** (Research Associate), Department of Science and Technology, **India**
- **SRF** (Senior Research Fellowship), Defense Research & Development Organization, **India**

- **JRF** (Junior Research Fellowship), Defense Research & Development Organization, **India**

Work Experiences: 15 Years 7 Month (Post-Ph. D Experience)

S. No.	Position	University/Department	Joining Year
1.	Professor	Department of Physics, ***CCS University***, Meerut, **India**	2021
2.	Associate Professor	Department of Physics, ***CCS University***, Meerut, **India**	2018
3.	Senior Assistant professor	Department of Semiconductor Science, ***Dongguk University-Seoul***, Seoul, **South Korea**	2012
4.	Assistant professor	***Cheju Halla University***, Jeju, **South Korea**	2010
5.	Assistant professor	MINT, ***Dongguk University-Seoul***, Seoul, **South Korea**	2008
6.	Post-Doc Researcher	***Chonnam National University***, Gwangju, **South Korea**	2006
7.	Research Associate	NPL, New Delhi, **India**	2006

Total experience = 15Y 7M

Membership of professional/Academic Bodies, Societies: 3.

- American Nano Society, ID-115730:http://members.nanosociety.us/sanjeevlrs73, **USA**
- International Association of Engineers (**IAENG - 63001**), **UK**
- Semiconductor Society (India), Reg. No. - 397, **(Executive member), India** (http://www.ssi.org.in/)

Consulting Companies: 10.

- Backsan L&T Pvt. Ltd., Korea (http://bs-led.net/?ckattempt=1)
- Koindow Inc.pvt Ltd., Korea
- KOINA (Korea-India Association), Korea
- Koindow-Global, India
- VJS Pharmaceutical Pvt. Ltd., India (http://www.vjspharma.co.in/)
- World wide Cargo, Delhi, India
- SP Singh Cargo Agency Pvt. Ltd., New Delhi, India
- Natura Biotechnol Pvt. Ltd., Jaipur & Bangalore (https://www.naturabt.com/)
- Pranik Health Solutions Pvt. Ltd., India (https://pranikhealth.com/contact),
- Ambe Phytoextracts Pvt. Ltd., India (https://ambe-group.com/)

Country Visited: 5.

South Korea, Japan, China, Hong Kong, Singapore

Foreign Academic Visit: 3 (since joined at CCSU).

1. **May 2019,** Institute for Skeletal Ageing (ISA) & Orthopedic Surgery, **Hallym University**, 77 Sakjuro, Gyodong, Chuncheonsi, Chuncheon, 24253, Republic of Korea.
2. **July 2018,** Korea Center for Artificial Photosynthesis, Department of Chemistry, **Sogang University-Seoul**, Seoul 04107, Republic of Korea.

3. **May 2018,** Division of Physics and Semiconductor Science, **Dongguk University-Seoul**, Seoul 04620, South Korea

Additional Responsibility at CCS University, Meerut since joined: 09

1. **May 15-16, 2020**, Joint Organizing Secretary, International Webinar (e-conference) on "*Prospective of Interdisciplinary Research in Science and Technology in the Present Scenario"*, May 15-16, 2020, Department of Physics, Ch. Charan Singh University, Meerut, India.
2. **March 18-21, 2020**, Subject Expert of the Selection Committee for Higher Secondary Education, PryagRaj, Uttar Pradesh, India
3. **Feb. 28, 2020**, Coordinator, of Essay Writing Competition "*Role of Artificial Intelligence in Science and Technology*" on National Science Day organized by the Department of Physics, CCSU Meerut with the collaboration of American Physical Society (APS) and Balani Infotech Pvt. Ltd., India.
4. **Dec. 16-21, 2019**, Local advisory Committee and delivered a talk, "*One week workshop on Introduction, Synthesis and Characterization of Nanomaterials*", organized CCSU and CIS, Meerut, India.
5. **Sep. 30, 2019**, "Office management and distribution of Kit", for 31st Convocation of CCS University, Meerut, Meerut 250004, India.
6. **Sep. 25, 2019,** An Expert Evaluator, for *Senior Research Fellowship (SRF) from CSIR of Ph. D Students*, SSV (PG) College, Hapur, UP, India.
7. **Sep. 2019-Aug. 2020**, "Coordinator of Physics Association", Department of Physics, CCS University, Meerut, India.
8. **February 26-28, 2019**, Expert of Technical Assessment and Evaluation "***Physics & Materials Science and Technology***" 13th Uttarakhand State Science and Technology Congress, Vigyan Dham, Dehradun, UK, India.
9. **21-02 ~ 27.02, 2019,** Invited Speaker and Participation, in a one week of Advance Education Program for Indian Herbs in India organized by Koindow Global and KOINA at RAMADA Hotel, Sector - 44, Gurugram, HR, India.

Reviewer of International Journals, SCI/SCIE: 51.

1) Journal of Physics D: Applied Physics (*IOP*)
2) ACS Applied Materials & Interfaces (*ACS*)
3) Electrochimica Acta (*Elsevier*)
4) Talanta (*Elsevier*)
5) Journal of Alloys and Compounds (*Elsevier*)
6) Thin Solid Films (*Elsevier*)
7) Journal of Nuclear Materials (*Elsevier*)
8) ECS Journal of Solid State Science and Technology (*ECS*)
9) Journal of Analytical Methods in Chemistry (*Hindawi*)
10) Spectroscopy Letters (*Taylor & Francis*)
11) Solid State Electronics (*Elsevier*)
12) Journal of Non-crystalline Solids (*Elsevier*)
13) Optics & Laser Technology (*Elsevier*)
14) Measurement Science and Technology (*IOP*)
15) Advances in Materials Science and Engineering (*Hindawi*)
16) Future Generation Computer Systems (*Elsevier*)
17) NANO (*World Scientific*)
18) Journal of Environmental Science (*Elsevier*)

19) Applied Surface Science (*Elsevier*)
20) Journal of Advanced Research (*Elsevier*)
21) International Journal of Materials Research (*Hanser Publishers*)
22) Advanced Engineering Informatics (*Elsevier*)
23) Indian Journal of Pure & Applied Physics (*CSIR-NISCAIR*)
24) Journal of Physics and Chemistry of Solids (*Elsevier*)
25) Science and Engineering of Composite Materials (*DE Gruyter*)
26) Fusion Engineering and Design (*Elsevier*)
27) Composite Structures (*Elsevier*)
28) Research on Chemical Intermediates (*Springer*)
29) Journal of Materials Science: Materials in Electronics (*Springer*)
30) Journal of Inorganic & Organometallic Polymers and Materials (*Springer*)
31) Journal of Hazardous Materials (*Elsevier*)
32) Robotics and Autonomous Systems (*Elsevier*)
33) Chemical Physics Letters (*Elsevier*)
34) Ultrasonics - Sonochemistry (*Elsevier*)
35) Materials (*MDPI*)
36) Review of Scientific Instruments (*AIP*)
37) Applied Sciences (*MDPI*)
38) Journal of Cleaner Production (*Elsevier*)
39) Applied Sciences (*Springer-Nature*)
40) Crystals (*MDPI*)
41) Chemical Engineering Journal (*Elsevier*)
42) Solid State Science (*Elsevier*)
43) Crystal Research & Technology (*Wiley-VCH*)
44) Metals (*MDPI*)
45) Electronics (*MDPI*)
46) Science of the Total Environment (*Elsevier*)
47) Journal of Molecular Liquids (*Elsevier*)
48) Microbiology Research Journal International
49) Photonics (*MDPI*)
50) Bioresource Technology Reports (*Elsevier*)
51) Materials Today Chemistry (*Elsevier*)

Invited Talks/Lectures: 23.

1. **May 10, 2020**, "***Ancient Indian wisdom in the time of Complex Global Crisis & Green Solution of Agriculture waste***", National Webinar on "Covid-19: Impact on education, Economy and Society: Challenges and Solutions", DR. Ambedkar Govt. P.G. College, Unchahar-Raebareli, U.P., India.
2. **February 15-16, 2020**, "***Bio-inspired synthesis of smart nanomaterials for Sensors and Biosensors***" National conference on Science: Rural Development, GKV, Haridwar, UK, India
3. **January 31, 2020 (Keynote Speaker)**, "***Research Trends and Nanoscience/Nanotechnology for Sensors and Photocatalyst***" National Seminar on "Recent Trends in Interdisciplinary Research", 31 January, 2020 organized by IQAC, MMC, Modinagar, India.
4. **December 20, 2019**, "***Nanostructured Materials: Synthesis and Applications***", One week workshop on Introduction, Synthesis and Characterization of Nanomaterials, Dec. 16-21, 2019, organized by CCSU and CIS, Meerut, India.

5. **September 7, 2019**, "***Nanostructured CNT-TiO_2: Synthesis and Applications***", NCMTSEFT, Roorkee Institute of Technology (RIT), Roorkee, UK, **India**.
6. **August 19, 2019,** "***Relation of India-Korea culture and mutual interest for the Innovation***", 2nd Indo-Korea International Business Conference organized by Koindow-Global, at 4-Points by SHERATON Hotel, NH-8, New Delhi 110037, **India**.
7. **February 28, 2019**, "***Biogenic mesoporous silica (SiO_2) & Si nanoparticles, Graphene synthesized from Rice Husk Ash as a Renevable Source***", Invited talk and Chair the Session for Poster Presentation, Workshop on Applied Science & green environment, Roorkee Institute of Technology, Roorkee, UK, **India**.
8. **February 22, 2019**, "***India and Korea Business relations***", 1st Indo-Korea International Conference on Business Development, Ramada Hotel, Sector-44, Gurgaon, Haryana, India.
9. **January 19, 2018,** "***Role of Li ion Batteries in our Society: Smart Devices and Hybrid Vehicles***" Shaheed Mangal Pandey Government Girls Post Graduate College, Madhavpuram, Meerut, **India**.
10. **January 23, 2016**, "***Synthesis of Nanomaterials and Li ion Batteries***", Department of Physics, Chaudhary Charan Singh University (CCSU), (formerly - Meerut University) Meerut, **India**.
11. **January 22, 2016**, "***Scope of Nanotechnology and its impact on future prospective applications***", School of Vocational Studies and Applied Sciences, Gautam Buddha University (GBU), Yamuna Expressway, Greater Noida, Gautam Budh Nagar, **India**.
12. **January 14, 2016** "***Higher Education System and Scholarship Opportunities in South Korean Universities***," Corporate Relations, Corporate Relation Cell, Gautam Buddha University (GBU), Yamuna Expressway, Greater Noida, Gautam Budh Nagar, **India**.
13. **January 15, 2016**, "***Update Education System in South Korea and Nano materials for Electronic devices***", DAV Institute of Engineering & Technology Kabir Nagar (DAVIET), Jalandhar, Punjab Technical University, Punjab, **India**.
14. **February 06, 2015**, "***An Overview of Engineering Education System in South Korea and Nano Technology and Applications***" Guru Nanak Dev Engineering College (GNDEC), Ludhiana, Punjab Technical University, **India**.
15. **January 28, 2015**, "***Semiconductor Nanorod based devices***", 6th National Workshop on MEMS Technology and its Applications, 19-20 Feb 2014, National MEMS Design Center, Rajalakshmi Engineering College (REC), Anna University, Thandalam, Chennai, Tamilnadu, **India**.
16. **January 10, 2015,** "***Technical Education in South Korea and Nanotechnology of Li ion batteries***", Beant College of Engineering and Technology (BCET), Gusdaspur, Punjab Technical University, Punjab, **India**.
17. **January 11, 2015**, "***Education system in South Korea and role of Nanotechnology in modern electronic and optoelectronic devices***", Shaheed Bhagat Singh State Technical Campus (SBS STC), Ferozepur, Punjab Technical University, Punjab, **India**.
18. **February 19, 2014**, "***Nanotechnology and its applications***", 5th National Workshop on MEMS Technology and its Applications, 19-20 Feb 2014, National MEMS Design Center, Rajalakshmi Engineering College (REC), Anna University, Thandalam, Chennai 602105, Tamilnadu, **India**.
19. **February 16, 2014**, "***Replacement of C anode in Li-ion batteries: Al Nanorod thin films***", National symposium on innovations in science & technology for inclusive development, 16 Feb 2014, Gurukul Kangri University (GKU), Haridwar-249404, Uttarakhand, **India**
20. **February 15, 2014**, "***Nanostructured aluminum thin films as anode electrode for Li ion batteries: a substitute of carbon***", 17th Punjab Science Congress and Expo 2014, Punjab Technical University (PTU), February 14-16, 2014, Punjab, **India**.

21. **February 16, 2011**, "***Development of Metal Nanorods/Nanowire array for next Generation of Optical and Electronic Devices***", Department of Physics, Gurukul Kangri University (GKU), Haridwar, Uttrakhand, **India**.
22. **May 20, 2010,** "***Metal-Nanorod grown by Glancing Angle Deposition on conducting/non-conducting/Ceramic substrates and subsequent Oxidation for new Generation***", Nuclear and High Temperature Materials Laboratory, **KAIST,** Republic of **Korea.**
23. **August 22, 2008**, "***Si thin films and thermally grown oxides***", Millimeter Wave Innovation Technology Research Center (MINT), Department of Electronics Engineering, Dongguk University, Jung-gu, Seoul, Republic of **Korea**.

Additional Responsibilities:

1. **July 20, 2021 – till date,** Appointed as the consultant for ***Korea-India MSME Electronics Industry Developmen***t by the Allix Global on the behalf of Korean Government.
2. **July 2019 – Dec. 2021,** Coordinator, ***Physics Association***, Department of Physics, Ch. Charan Singh University, Meerut, UP, India
3. **April 2002 ~ January 2018**, Executive Member of Semiconductor Society of India, India.
4. **March 2013 ~ till date**, Secretary and International Consultant of ***American Society of Students Union***, Dongguk University-Seoul, Korea.
5. **Conference Session Chair**, The 17th International Symposium on the Physics of Semiconductors and Applications, 2014 (ISPSA-2014), December 7~11, 2014, Ramada Plaza Hotel Jeju Island, Jeju, South Korea.
6. **International Organizing Committee**, 1st International Conference on Innovative Advancements in Engineering & Technology (IAET), March 7~8, 2014, Jaipur National University, Rajasthan, India.
7. **International Advisory Committee**, International Conference on Innovative Trends in Electronics Engineering, January 29~30 2016, Punjabi University, Patiala, India.
8. **International Advisory Committee**, 2nd International Conference on Innovative Advancements in Engineering & Technology (IAET), April 1~2, 2016, Jaipur National University, Rajasthan, India.
9. **International Advisory Committee,** International Conference on Global initiative in Applied Sciences and Green Technology (GIAT 2016), September 9~11, 2016, SRM University, Ghaziabad, Uttar Pradesh, India.

Research interests:

- Synthesis, Characterization & Testing of Nano-materials/Nanorods/Nanowires
- Li-ion batteries
- Photocatalytic study of metal oxides
- Chemo-/Bio-sensors
- Solar Cells
- Semiconductor Devices (Diodes, LEDs)
- Thermally Grown Oxides (TGOs)
- Dielectric and piezoelectric materials (Nanogenerators)
- Fabrication of micro devices (Gunn diode, microstrip Patch Antenna)
- Cold spray of hard metal coatings

Educational Qualifications

- **Ph. D (2005)** : **University of Delhi (DU), Department of Electronic Science New Delhi, India**

Thesis title: Investigation of transport mechanism and thermal equilibration in a-Si:H films doped with chalcogens.

- **M. S. (1996)** : **C.C.S. University, Department of Physics, India**
  (Physics with specialization in Electronics)
- **B. S. (1994)** : **C.C.S. University, D.N.(PG) College, Gulaothi, India**
  (Physics, Mathematics and Chemistry)

Personal Details

Sex	:	Male
Marital Status	:	Married
Nationality	:	Indian

Social articles published:

- SUCCESS: Right Action at Right Time (http://www.dgupost.com/news/articleView.html?idxno=1696)
- Korea's Development and Global Impact on Education and Economy (http://www.dgupost.com/news/articleView.html?idxno=1578)
- Lighting the lamp, Solid Science behind of this Process: Hindustan Newspaper.
- Indian tradition (Namaste, Fasting, ringing bell/shankha) have solid science: Hindustan Newspaper.
- Tradition and Science both are one, Rastraydev, April 2020.

Students supervised M. Phil/Ph.D:12

1. **Ph. D,** Mr. Abhishek Sharma (Persuing 2019): CCSU, Meerut, **INDIA.**
2. **Ph. D,** Ms. Preeti Lambha (Persuing 2019): CCSU, Meerut, **INDIA.**
3. **Ph. D,** Mr. Vinod Pal Singh (Persuing 2019): CCSU, Meerut, **INDIA.**
4. **Ph. D,** Mr. Rinku Gupta (Persuing 2019): CCSU, Meerut, **INDIA.**
5. **Ph. D,** Mr. Anirudha Kumar (Persuing 2019): CCSU, Meerut, **INDIA.**

6. **Ph. D,** Mr. Hitesh Kumar Sharma, CCSU, Meerut, **INDIA**: Completed (**2021**).
7. **M. Phill,** Mr. Sumit Kumar, CCSU, Meerut, **INDIA**: Completed (**2020**).
8. **M. Phill,** Ms. Kirti Bhardwaj, CCSU, Meerut, **INDIA**: Completed (**2019**).
9. **Ph. D,** Mr. S. Sankar, DGU, South **KOREA**: Completed (**2019**).
10. **Ph. D,** Ms. Narinder Kaur, DGU, South **KOREA**: Completed (**2017**).
11. **M. Tech,** Mr. Sung-Eun Heo, DGU, South **KOREA**: Completed (**2016**).
12. **Ph. D,** Mr. DooSoo Kim, DGU, South **KOREA**: Completed (**2013**).

List of Publications: 113.

International Journals:

Published:

2021: 03

1. S. Kumar, **S. K. Sharma**, R. D. Kaushik, L. P. Purohit "*Chalcogen-doped zinc oxide nanoparticles for photocatalytic degradation of Rhodamine B under the irradiation of ultraviolet light*", ***Materials Today Chemistry*** 20 (**2021**) 100464 **(*Corresponding Author*)**.
2. **S. K. Sharma**, R. Gupta, G. Sharma, K. Vemula, A.R. Koirala, N.K. Kaushik, E.H. Choi, D.Y. Kim, L. P. Purohit, B.P. Singh, "*Photocatalytic performance of Yttrium doped CNT-ZnO nanoflowers synthesized from hydrothermal method*", ***Materials Today Chemistry*** 20 (**2021**) 100452 **(*Corresponding Author*)**.

3. H. K. Sharma, **S. K. Sharma**, K. Vemula, A. R. Koirala, H. M. Yadav, B. P. Singh, "*CNT facilitated interfacial charge transfer of TiO_2 nanospheres for controlling the electron-hole recombination*", ***Solid State Sciences*** 112 (**2021**) 106492 **(*Corresponding Author*)**.

2020: 03

4. H. K. Sharma, **S. K. Sharma**, Sanjeev Kumar, B. P. Singh, "*Effect of CNTs on the growth and agglomeration of TiO_2 nanoparticles*", ***Indian Journal of Pure & Applied Physics*** 58 (**2020**) 825-831 (***Corresponding Author***).
5. J. Gaur, H. K. Sharma, S. Tyagi, C. Tyagi, P. Vashishtha, **S.K. Sharma**, B. P. Singh "*Enhancement of photosensitivity of thermally evaporated crystalline PbS thin films by low energy oxygen ions implantation*", ***Nano Express*** 1 (**2020**) 20044 **(*Corresponding Author*)**.
6. S.P. Singh, **S.K. Sharma**, D.Y. Kim, "*Carrier mechanism of ZnO nanoparticles-embedded PMMA nanocomposite organic bistable memory device*" ***Solid State Sciences*** 99 (**2020**) 106046 **(*Corresponding Author*)**.

2019: 4

7. **S.K. Sharma**, A.R. Sharma, S.D.V.N. Pamidimarri, J. Gaur, B.P. Singh, S. Sekar, D.Y. Kim, S.S. Lee, "*Bacterial Compatibility/Toxicity of Biogenic Silica (b-SiO_2) Nanoparticles Synthesized from Biomass Rice Husk Ash*", ***Nanomaterials*** 9 (**2019**) 1440-1449 **(First *Author*)**.
8. J. Gaur, H.K. Sharma, **S.K. Sharma**, B. P. Singh, "*Effect of growth temperature and RF power on structural and optical properties of sputtered deposited PbS thin films*", ***Indian Journal of Pure & Applied Physics*** 57 (**2019**) 709-712 **(*Co-Author*)**.
9. Ravikant, J. Gaur, **S.K Sharma**, B.P. Singh, "*Template free synthesis of PbS nanoparticles by sol-gel facile method under IR radiation at room temperature*", ***Applied Innovative Research***, 1 (**2019**) 101-105 **(*Co-Author*)**.
10. H. K. Sharma, R. Archana R.S. Ganesh, B. P. Singh, S. Ponnusamy, Y. Hayakawa, C. Muthamizhchelv, P. Raji, D.Y. Kime, **S.K. Sharma**, "*Substitution of Al^{3+} to Zn^{2+} sites of ZnO enhanced the photocatalytic degradation of methylene blue under irradiation of visible light*", ***Solid State Sciences***, 94 (**2019**) 45-53 **(*Corresponding Author*)**.

2018: 4

11. H. Gupta, F. S. Gill, **S.K. Sharma**, R. Kumar, R.M. Mehra, "*Electronic Conduction in Annealed Sulfur-Doped a-Si:H Films*" ***Journal of Nano- and Electronic Physics***, 10 (**2018**) 3014-3017.
12. K. Karthikeyan, L. Sujatha, R. Sundar, **S.K. Sharma**, "*Dimension Tolerances in Fabrication of Polymer Microfluidic Devices*", ***Journal of Semiconductor Technology and Science***, 18 (**2018**) 262-269 (**Co-Author**).
13. **S.K. Sharma**, G.S. Ghodake, D.Y. Kim, Dae-Young Kim, O.P. Thakur, "*Synthesis and characterization of hybrid Ag-ZnO nanocomposite for the application of sensor selectivity*", ***Current Applied Physics***, 18 (**2018**) 377-383 (**First Author**).
14. **S.K. Sharma**, S.P. Singh, D.Y. Kim, "*Fabrication of the heterojunction diode from Y-doped ZnO thin films on p-Si substrates by sol-gel method*", ***Solid State Communications***, 270 (**2018**) 124-129 (***Corresponding Author***).

2017: 6

15. R.S. Ganesh, E. Durgadevi, M. Navaneethan, **S.K. Sharma**, H.S. Binitha, S. Ponnusamy, C. Muthamizhchelvan, Y. Hayakawa, "*Visible light induced photocatalytic degradation of Methylene blue and Rhodamine B from the catalyst of CdS nanowire*", ***Chemical Physics Letters***, 684 (**2017**) 126-134 **(*Corresponding Author*)**.

16. R.S. Ganesh, **S.K. Sharma**, E. Durgadevi, M. Navaneethan, S. Ponnusamy, C. Muthamizhchelvan, Y. Hayakawa, D.Y. Kim, "*Growth, microstructure, structural and optical properties of PVP-capped CdS nanoflowers for efficient photocatalytic activity of Rhodamine B*", ***Materials Research Bulletin***, 94 (**2017**) 190-198 **(*Corresponding Author*)**.
17. P. Thiruramanathan, S. Sankar, A. Marikani, D. Madhavan, **S.K. Sharma**, "*Thickness dependent structural and dielectric properties of calcium copper titanate thin films produced by spin-coating method for microelectronic devices*", ***Journal of Electronic Materials***, 46 (**2017**) 4468-4477 (**Co-Author**).
18. R.S. Ganesh, **S.K. Sharma**, E. Durgadevi, M. Navaneethan, H.S. Binitha, S. Ponnusamy, C. Muthamizhchelvan, Y. Hayakawa, D.Y. Kim, "*Surfactant free synthesis of CdS nanospheres, microstructural analysis, chemical bonding, optical properties and photocatalytic activities*", ***Superlattices and Microstructures***, 104 (**2017**) 247-257 **(*Corresponding Author*)**.
19. R.S. Ganesh, **S.K. Sharma**, N. Abinnas, E. Durgadevi, P. Raji, S. Ponnusamy, C. Muthamizhchelvan, Y. Hayakawa, D.Y. Kim, "*Fabrication of the flexible nanogenerator from BTO nanopowders on graphene coated PMMA substrates by sol-gel method*" ***Materials Chemistry and Physics***, 192 (**2017**) 274-281 **(*Corresponding Author*)**.
20. R.S. Ganesh, **S.K. Sharma**, S. Sankar, B. Divyapriya, E. Durgadevi, P. Raji, S. Ponnusamy, C. Muthamizhchelvan, Y. Hayakawa, D.Y. Kim "*Microstructure, structural, optical and piezoelectric properties of $BiFeO_3$ nanopowder synthesized from sol-gel*", ***Current Applied Physics***, 17 (**2017**) 409-416 **(*Corresponding Author*)**.

2016: 10

21. P. Thiruramanathan, **S.K. Sharma**, S. Sankar, R. Sankarganesh, A. Marikani, D.Y. Kim, "*Synthesis of bismuth titanate (BTO) nanopowder and fabrication of microstrip rectangular patch antenna*", ***Applied Physics A***, 122 **(2016)** 1006 **(*Corresponding Author*)**.
22. S. Sankar, **S.K. Sharma**, Namhyun An, Hwauk Lee, D.Y. Kim, Young Bin Im, Yung Duk Cho, R.S. Ganesh, S. Ponnusamy, P. Raji, L.P. Purohit, "*Photocatalytic properties of Mn-doped NiO spherical nanoparticles synthesized from sol-gel method*", ***Optik***, 127 **(2016)** 10727-10734 **(*Corresponding Author*)**.
23. N. Kaur, **S.K. Sharma**, D. Y. Kim, N. Singh, "*Highly transparent and lower resistivity of yttrium doped ZnO thin films grown on quartz glass by sol-gel method*" ***Physica B***, 500 (**2016**)179-185 **(*Corresponding Author*)**.
24. N. An, H. Lee, **S.K. Sharma**, Y. Lee, D.Y. Kim, S. Lee, "*Ferroelectric Polarization-induced Memristive Hysteresis Behaviors in Ti- and Mn-codoped ZnO*", ***Journal of the Korean Physical Society***, 68 (**2016**) 869-874 **(*Co-Author*)**.
25. **S.K. Sharma**, N. Kaur, J. Singh, A. Singh, P. Raj, S. Sankar, D. Y. Kim, N. Singh, Navneet Kaur, H. Singh, "*Salen decorated nanostructured ZnO chemosensor for the detection of mercuric ions (Hg^{2+})*" ***Sensors and Actuators B: Chemical***, 232 (**2016**) 712-721 **(*Corresponding Author*)**.
26. S. Sankar, **S.K. Sharma**, D.Y. Kim, "*Synthesis and characterization of mesoporous SiO2 nanoparticles synthesized from Biogenic Rice Husk Ash for optoelectronic applications*", ***An International Journal of Engineering Sciences***, 17 (**2016**) 353-358 **(*Corresponding Author*)**.
27. N. Kaur, J. Singh, P. Raj, N. Singh, H. Singh, **S.K. Sharma**, D. Y. Kim, Navneet Kaur, "*ZnO decorated with organic nanoparticles based sensor for ratiometric selective determination of mercury ions*", ***New Journal of Chemistry***, 40 (**2016**) 1529-1534 **(*Corresponding Author*)**.
28. N. Kaur, **S.K. Sharma**, D. Y. Kim, "*Stress relaxation and transitions in optical bandgap of yttrium doped zinc oxide (YZO) thin films*", ***Current Applied Physics***, 16 (**2016**) 231-239 **(*Corresponding Author*)**.

29. S. Sankar, **S.K. Sharma**, N. Kaur, B. Lee, Deuk Young Kim, Sejoon Lee, Hyun Jung, "*Bio-generated mesoporous SiO_2 nanoparticles synthesized from sticky, red and brown rice husk ash by chemical method*", ***Ceramics International***, 42 (**2016**) 4875-4885 **(*Corresponding Author*)**.
30. **S.K. Sharma**, D. Y. Kim, "*Microstructural and optical properties of yttrium-doped zinc oxide (YZO) nanobolts synthesized by hydrothermal*", ***Journal of Materials Science & Technology***, 32 (**2016**) 12-16 **(*Corresponding Author*)**.

2015: 8

31. **S.K. Sharma**, N. Kaur, J. Singh, S. Sankar, S. S. Gaur, S. Lee, D. Y. Kim, N. Singh, H. Singh, "*Electrochemical sensitive determination of nano molar Guanine from ZnO nanorods coated on platinum electrode*", ***Electroanalysis***, 27 (**2015**) 2537-2543 **(*Corresponding Author*)**.
32. H. Singh, N. Bala, N. Kaur, **S.K. Sharma**, D. Y. Kim, S. Prakash, "*Effect of additions of TiC and Re on high temperature corrosion performance of cold sprayed Ni–20Cr coatings*", ***Surface and Coatings Technology***, 280 (**2015**) 50-63 **(*Co-Author*)**.
33. **S.K. Sharma**, D. Y. Kim, "*Design, Simulation, Fabrication, Packaging and Testing of AlGaAs/GaAs Gunn Diode at 94 GHz*", ***Journal of the Korean Physical Society***, 67 (**2015**) 619-624 **(*Corresponding Author*)**.
34. N. An, C. Kim, B. Lee, Y. Lee, **S.K. Sharma**, D. Y. Kim, S. Lee, I. T. Yoon, Y. Shon, "*Dependence of the magnetic properties on the Cr content in ZnCrO thin films*", ***Journal of the Korean Physical Society***, 67 (**2015**) 1814-1818 **(*Co-Author*)**.
35. **S.K. Sharma**, N. Kaur, B. Lee, C. Kim, S. Lee, D. Y. Kim, "*Diameter and density controlled growth of yttrium functionalized zinc oxide (YZO) nanorod arrays by hydrothermal*", ***Current Applied Physics***, 15 (**2015**) S82-S88 **(*Corresponding Author*)**.
36. **S.K. Sharma**, D.V.N.S. Pamidimarri, D.Y. Kim, J. G. Na, "*Y-doped Zinc Oxide (YZO) Nanoflowers, Microstructural Analysis and Test their Antibacterial Activity*", ***Materials Science and Engineering C***, 53 (**2015**) 104-110 **(*Corresponding Author*)**.
37. N. Kaur, **S.K. Sharma**, D. Y. Kim, H. Sharma, N. Singh, "*Synthesis of Imine-Bearing ZnO Nanoparticle Thin Films and Characterization of Their Structural, Morphological and Optical Properties*", ***Journal of Nanoscience and Nanotechnology***, 15 (**2015**) 8114-8119 **(*Corresponding Author*)**.
38. N. Kaur, M. Kumar, **S.K. Sharma**, D. Y. Kim, S. Kumar, N. M. Chavan, S. V. Joshi, N. Singh, H. Singh, "*Study of mechanical properties and high temperature oxidation behavior of a novel cold-spray Ni-20Cr coating on boiler*", ***Applied Surface Science***, 328 (**2015**) 13-25 **(*Co-Author*)**.

2014: 5

39. **S.K. Sharma**, S. Heo, C. Kim, B. Lee, S. Lee, D.Y. Kim, "*Influence of growth temperature and post-annealing on an n-ZnO/p-GaN heterojunction diode*", ***Current Applied Physics***, 4 (**2014**) 1696-1702 **(*Corresponding Author*)**.
40. S. Heo, Y. Lee, **S.K. Sharma**, S. Lee, D.Y. Kim, "*Mole-controlled growth of Y-doped ZnO nanostructures by hydrothermal method*", ***Current Applied Physics***, 14 (**2014**) 1576-581 (***Co-Author***).
41. **S.K. Sharma**, Hyunsik Im, Deuk Young Kim, R.M. Mehra, "*A review on Se- and S-doped hydrogenated amorphous silicon thin films*", ***Indian Journal of Pure and Applied Physics***, 52 (**2014**) 293-313 **(*Corresponding Author*)**.
42. S. Heo, **S.K. Sharma**, S. Lee, Y. Lee, C. Kim, B. Lee, H. Lee, D.Y. Kim, "*Effects of Y Contents on Surface, Structural, Optical, and Electrical Properties for Y-doped ZnO Thin Films*", **Thin Solid Films**, 558 (**2014**) 27-30 **(*Second-Author*)**.

43. **S.K. Sharma**, D.Y. Kim, "*Microstructural, Optical, and Electrochemical Properties of Nanostructured Al Thin Films*", ***Journal of the Korean Physical Society***, 64 (**2014**) 684-689 **(*Corresponding Author*)**.

2013: 5

44. **S.K. Sharma**, D.Y. Kim, K.J. Kang, "Effect *of annealing on the growth and the microstructure of thermally-grown oxides on foils of alloy 617*", ***Journal of the Korean Physical Society***, 63 (**2013**) 1755-1759 **(*Corresponding Author*)**.
45. **S.K. Sharma**, D.Y. Kim, "*Abnormal residual stress in nanostructured Al thin films grown on Ti/glass substrates*" ***Current Applied Physics***, 13 (**2013**) 1874-1879 **(*First & Corresponding Author*)**.
46. D.S. Kim, S. Lee, D.Y. Kim, **S.K. Sharma**, S.-M. Hwang, Y.G. Seo, "*Highly stable blue-emission in semipolar (11-22) InGaN/GaN multi-quantum well light-emitting diode*", ***Applied Physics Letters***, 103 (**2013**) 021111 **(*Co-Author*)**.
47. **S.K. Sharma**, Deuk Young Kim, R.M. Mehra, "*Improvement in the electrical properties of Se- and S-doped hydrogenated amorphous silicon thin films by annealing*", ***Journal of the Korean Physical Society***, 62 (**2013**) 1269-1273 **(First & Corresponding Author)**.
48. **S.K. Sharma**, Min-Sik Kim, D. Y. Kim, Jong-Sung Yu, "Al nanorod thin films as anode electrode for Li ion rechargeable batteries", ***Electrochimica Acta*** 87 (**2013**) 872-879 **(Corresponding Author)**.

2012: 2

49. **S.K. Sharma**, L. P. Purohit, "*Free standing Al nanorod thin films for energy storage devices*", ***Journal of Natural & Physical Sciences***, 24 (**2012**) 1-5 **(Corresponding Author)**.
50. **S.K. Sharma**, B. Kim, C. Choi, A.I. Inamdar, H. Im, "*Morphology and structural properties of nanocrystalline and nanocolumnar aluminum thin films grown on glass and Ti/glass substrates*", ***Journal of the Korean Physical Society***, 60 (**2012**) 1491-1497 **(Corresponding Author)**.

2011: 2

51. **S.K. Sharma**, A.I. Inamdar, Hyunsik Im, B.G. Kim, P.S. Patil, "*Morphology dependent dye-sensitized solar cell properties of nanocrystalline zinc oxide thin films*", ***Journal of Alloys and Compounds***, 509 (**2011**) 2127-2131 **(Corresponding Author)**.
52. **S.K. Sharma**, H. Gupta, L.P. Purohit, K.-N.P. Kumar, R. Kumar, B.G. Kim, R.M. Mehra, "*Optical properties of Se or S-doped hydrogenated amorphous silicon thin films with annealing temperature and dopant concentration*", ***Journal of Alloys and Compounds***, 509 (**2011**) 3338-3342 **(Corresponding Author)**.

2010: 2

53. A.I. Inamdar, A.C. Sonavane, **S.K. Sharma**, H. Im, P.S. Patil, "*Zinc Oxide Nanocrystalline Thin Films by Novel Double Pulse Single Step Electrodeposition*", ***Journal of Alloys and Compounds***, 495 (**2010**) 76-81 **(Co-Author)**.
54. **S.K. Sharma**, F.X. Li, G.D. Ko, K.J. Kang, "*Strengthening effect of Cr_2O_3 thermally grown on Alloy 617 foils at high temperature*", ***Journal of Nuclear Materials***, 405 (**2010**) 165-170 **(*First Author*)**.

2009: 4

55. M.R. Kim, J.K. Rhee, S.D. Lee, Y.S. Chae, **S.K. Sharma**, A. Kathalingam, C.W. Lee, H.J. Lim, J.H. Choi, W.J. Kim, "InP Gunn diodes with shallow-barrier Schottky contacts", ***IEICE Technical Report Electron. Devices***, 109(97) (**10/2009**)113-116 **(*Co-Author*)**.
56. **S.K. Sharma**, K-N.P. Kumar, K.J. Kang, R.M. Mehra, "*Effect of illumination on hydrogenated amorphous silicon thin films doped with chalcogens*", ***Journal of Non-crystalline Solids***, 355 (**2009**) 1638-1643 **(*Corresponding Author*)**.
57. **S.K. Sharma**, C. Jang, K.J. Kang, "*Effects of thermo-mechanical processing on microstructure and creep properties of the foils of alloy 617*", ***Journal of Nuclear Materials***, 389 (**2009**) 420-426 **(*First Author*)**.
58. **S.K. Sharma**, G.D. Ko, K.J. Kang, "*High temperature creep and tensile properties of alumina formed on fecralloy foils doped with yttrium*", ***Journal of the European Ceramic Society***, 29 (**2009**) 355-362 **(*First Author*)**.

2008: 2

59. **S.K. Sharma**, G.D. Ko, F.X. Li, K.J. Kang, "*Oxidation and Creep failure of alloy 617 foil at high temperature*", ***Journal of Nuclear Materials***, 378 (**2008**) 144-152 **(*First Author*)**.
60. **S.K. Sharma**, Feng Xuin Li, Ki-Ju Kang, "*Annealing effect on microstructure, hardness and creep properties of the foils of alloy 617*", ***KSME***, 5 (**2008**) 111-116 **(*First Author*)**.

2007: 2

61. **S.K. Sharma**, P. Sagar, H. Gupta, R. Kumar, R.M. Mehra, "*Meyer-Neldel Rule in Se and S-doped hydrogenated amorphous silicon*", ***Solid State Electronics***, 51 **(2007)** 1124-1128 **(*Corresponding Author*)**.
62. **S.K. Sharma**, J.W. Choi, K.J. Kang, "*Creep deformation and microstructure of alloy 617 foils at high temperature*", ***Advanced Materials Research***, 26/28 (**2007**) 233-236 **(*First Author*)**.

Ph. D Dissertation: 4

63. **S.K. Sharma**, H. Gupta, R. Kumar, R.M. Mehra *"Photoconductivity of Selenium and Sulphur Doped a-Si:H thin Films"*, ***Turkish Journal of Physics***, 29 (**2005**) 243-248 **(*First Author*)**.
64. **S.K. Sharma**, J. Baveja, R.M. Mehra, "*The study of thermal equilibration of Selenium- and Sulfur-doped a-Si:H*", ***International Journal of Electronics***, 90 (**2003**) 423-431 **(*First Author*)**.
65. **S.K. Sharma**, J. Baveja, R.M. Mehra, "*Dependence of electrical conductivity on selenium and sulphur doping in a-Si:H*", ***Indian Journal of Pure and Applied Physics***, 41 (**2003**) 491-494 **(*First Author*)**.
66. **S.K. Sharma**, J. Baveja, R.M. Mehra, "*The dependence of optical constants on Selenium- and Sulfur-doping in a-Si:H*", ***physica status solidi (a)***, 194 (**2002**) 216-225 **(First Author)**.

International Proceedings/Conferences: 48

67. **S. K. Sharma**, A. Kumar, A. V. Singh, S. P. Singh, "Memory Synthesis and fabrication of nanostructured Ag-doped ZnO resistive memory device by sol-gel spin coating on FTO substrates", SPAST Abstracts: Vol. 1 No. 01 (2021) (https://spast.org/techrep/article/view/871).
68. R. Gupta, V. Jain, **S. K. Sharma**, "*Synthesis of Yttrium doped zinc oxide nanoparticles and nanospheres*", National Conference on 'Modern Trends in Science and Engineering for Future Technology', September 6-7, **2019**, RIT, Roorkee, UK, India.
69. J. Gaur, H. K. Sharma, B.P. Singh, **S. K. Sharma**, "*O-ion implantation on PbS thin films grown on Glass substrate by thermal resistant evaporation*", National Conference on 'Modern Trends

in Science and Engineering for Future Technology', September 6-7, **2019**, RIT, Roorkee, UK, India.

70. H.K. Sharma, Y.K. Gautam, B.P. Singh, **S. K. Sharma**, "*Synthesis and characterization of Titanium dioxide (TiO_2) nanospikes by hydrothermal method*", 24th International Conference of International Academy of Physical Sciences (CONIAPS XXIV) on Innovations in Physical Sciences August 09-11, **2019**, CCSU, Meerut, **India**.
71. J. Gaur, **S. K. Sharma**, B. P. Singh, "*Effect of RF power on the synthesis and growth of PbS thin films*", 24th International Conference of International Academy of Physical Sciences (CONIAPS XXIV) on Innovations in Physical Sciences August 09-11, **2019**, CCSU, Meerut, **India**.
72. S. Kaushish, Y. K. Gautam, **S. K. Sharma**, A. V. Singh, "*Synthesis of grapheme oxide from waste dry cell by chemical method*" Proceedings of International conference on Advanced Materials (ICAM-2019), 6-7 March, 2019, JMI, New Delhi, **India**.
73. H. K. Sharma, B. P. Singh, Y. K. Gautam, H. K. Yadav, **S. K. Sharma**, "*Residual stress of Carbon Nanotubes templated-TiO_2 nanospheres grown by hydrothermal*", Proceedings of International conference on Advanced Materials (ICAM-2019), 6-7 March, 2019, JMI, New Delhi, **India**.
74. K. Bharadwaj, H. K. Sharma, B. P. Singh, **S. K. Sharma**, A. V. Singh, "*Synthesis of graphene sheets from Biogenic waste Walnut Peel Ash (b-WPA) by chemical method*", Proceedings of International conference on Advanced Materials (ICAM-2019), 6-7 March, 2019, JMI, New Delhi, **India**.
75. J. Gaur, H. K. Sharma, B. P. Singh, **S. K. Sharma**, D. Y. Kim, "*Uniform and crystalline growth of PbS thin films from sputtering by controlling the RF power*", Proceedings of International conference on Advanced Materials (ICAM-2019), 6-7 March, 2019, JMI, New Delhi, **India**.
76. **S. K. Sharma**, S. P. Singh, N. Kaur, S. Sankar, S. Lee, D. Y. Kim, "*Yttrium-doped ZnO thin films grown on p-Si(100) substrates for heterojunction diode application*", 2nd International Conference on Innovative Advancements in Engineering & Technology (IAET), April 1-2, 2016, Jaipur National University, Jaipur, Rajasthan, **India**.
77. S. Sankar, **S. K. Sharma**, D. Y. Kim, "*Synthesis and characterization of mesoporous SiO_2 nanoparticles synthesized from Biogenic Rice Husk Ash for optoelectronic applications*", International Conference on Innovative Trends in Electronics Engineering (ICITEE 2016), January 29-30, 2016, Punjabi University, Patiala, Punjab, **India**.
78. **S. K. Sharma**, B. Lee, C. Kim, N. Kaur, S. Lee, D. Y. Kim, "*Diameter-controlled growth of yttrium functionalized ZnO nanorod arrays by hydrothermal technique*", The 17th international symposium on the physics of Semiconductors and Applications (ISPSA 2014), Dec. 7-11, 2014, Ramada Plaza Hotel, Jeju, **Korea**.
79. L. P. Purohit, T. K. Pathak, **S. K. Sharma**, "*High quality nitrogen-doped zinc oxide thin films grown on ITO by Sol-gel*", The 17th international symposium on the physics of Semiconductors and Applications (ISPSA 2014), Dec. 7-11, 2014, Ramada Plaza Hotel, Jeju, **Korea**.
80. **S. K. Sharma**, D. Y. Kim, "*Design, simulation, fabrication, packaging and testing of AlGaAs/GaAs Gunn diode at 94 GHz*", The 17th international symposium on the physics of Semiconductors and Applications (ISPSA 2014), Dec. 7-11, 2014, Ramada Plaza Hotel, Jeju, **Korea**.
81. **S. K. Sharma**, B. Lee, H. Lee, N. Kaur, D. Y. Kim, N. Singh, J. Singh, H. Singh, "*Microstructural properties of yttrium functionalized ZnO nanorods and test their Chemosensor activity*", NANO KOREA Symposium, Nanotechnology, the Engine of creative Economy, July 2-4, **2014**, Coex, Seoul, **Korea**.
82. N. Kaur, **S. K. Sharma**, D. Y. Kim, H. Sharma, N. Singh, "*Synthesis and growth of ZnO-Imine hybrid nanoparticle thin films and test their structural, optical and electrical properties*",

NANO KOREA Symposium, Nanotechnology, the Engine of creative Economy, July 2-4, **2014**, Coex, Seoul, **Korea**.

83. Jai Shanker, **S. K. Sharma**, L. P. Purohit, "*Grain mapping of nanocolumnar aluminum thin films grown on Ti/glass substrates by E-beam evaporator*", National symposium on innovations in science & technology for inclusive development, 16 Feb **2014**, Gurukul Kangri University, Haridwar-249404, Uttarakhand, **India**.
84. **S.K. Sharma**, "*Mocro-structural properties and residual stress of nanostructured Al thin films for the next generation of Li-ion batteries*", National symposium on innovations in science & technology for inclusive development, 16 Feb **2014**, Gurukul Kangri University, Haridwar-249404, Uttarakhand, **India**.
85. S. Heo, B. Lee, H. Lee, C. Kim, W. Kim, Y. Lee, **S.K. Sharma**, S. Lee, D.Y. Kim, "*Mole controlled nano arrays of Y-doped ZnO by hydrothermal*", 16th International Symposium on the Physics of Semiconductors and Applications (ISPSA 2013), July 2-5, **2013**, Ramada Plaza Jeju Hotel, Jeju, **South Korea**.
86. **S.K. Sharma**, D. Y. Kim, "*Enhancement of absorbance of Al nanorod thin films grown on Ti/glass substrates*", 7th International Conference on Materials for Advanced Technologies (ICMAT 2013), 30 June ~ 5 July **2013**, Suntec City, **Singapore**.
87. **S.K. Sharma**, Bo-Gyun Kim, Jong-Sung Yu, "*Novel anode for Li-ion rechargeable batteries: Al-nanorods thin films*", **SPIE** Nanoscience + Engineering, 12-16 Aug. **2012**, San Diego Convention Center, San Diego, California, **USA**.
88. Bo-Gyun Kim, **S.K. Sharma**, Chi Kyu Choi, "*Stress relaxation in nanostructured Al thin films grown on Ti/glass substrates*", **SPIE** Nanoscience + Engineering, 12-16 Aug. **2012**, San Diego Convention Center, San Diego, California, **USA**.
89. **S.K. Sharma**, Bogyun Kim, "*Microstructure, surface roughness and optical absorption of nanostructured Al thin films grown on Ti/glass for Li ion battery applications*", The 10th International Nanotech Symposium and Nano-convergence Expo in Korea (NANO KOREA 2012), August 16~18, 2012, Coex, Seoul, **South Korea**.
90. **S.K. Sharma**, Jong-Sung Yu, P. Sagar, Vinay Gupta, "*Al-nanorods thin films as an Anode for Li-ion rechargeable batteries*", Int. Conf. and Workshop on Nanostructured Ceramics and Nanotechnolgy (ICWNCN), March 13-16, **2012**, University of Delhi, Delhi, **INDIA**
91. **S.K. Sharma**, Bo-Gyun Kim, Jai Shanker, R.M. Mehra, "*Scaling of surface roughness in nanocolumnar aluminum thin films grown on Ti/glass substrates by E-beam evaporator*", Indo-Japan Conference on Frontier Nanomaterials for Energy, 9-11 January **2012**, Sharda University, Greater Noida, **INDIA**.
92. **S.K. Sharma**, B. Kim, NANO KOREA Exhibition, Korea International Exhibition Center (KINTEX), August 24-26, **2011**, Gyeonggi-do, **South Korea.**
93. **S.K. Sharma**, B. Kim, M. Kim, J. Yu, C. Choi, "Nanocrystalline/nanocolumnar aluminum thin film electrode for Li-ion rechargeable batteries", International Conference on Advanced Electrochemicals (ICAE), Nov. 7-10, **2011**, Ramada Plaza Jeju Hotel, **SOUTH KOREA**.
94. **S.K. Sharma**, B. Kim, C. Choi, "*Nanocolumnar aluminum thin films grown on Silicon substrates*", 2nd Nano Today Conference, December 11-15, **2011**, Marriott Waikoloa Beach, Hawai, **USA.**
95. **S.K. Sharma**, B. Kim, C. ***Choi***, "*Growth and Characterization of Nanocolumnar Aluminum Thin Films (Al-nanorods) Grown on Glass, Ti/glass and Silicon Substrates by Physical Vapor Deposition*", 3rd Int. Conf. on Microelectronics & Plasma Technology (ICMAP3), July 4-7, **2011**, Furama Hotel, Dalian, **CHINA**.
96. **S.K. Sharma**, A.I. Inamdar, B. Kim, H. Im, H. Jeon, C. Choi, "*Synthesis and characterization of nanocrystalline and nanocolumnar aluminum thin films for Li-ion storage battery*

application", 15th International Symposium on the Physics of Semiconductors and Applications (ISPSA-XV), July 5-8, **2011**, Ramada Plaza Jeju hotel, Jeju, **SOUTH KOREA**.

97. **S.K. Sharma**, H. Gupta, L.P. Purohit, R. Kumar, B. Kim, R.M. Mehra, "*Effect of Annealing on the Electrical Properties of Se and S-doped Hydrogenated Amorphous Silicon Thin Films*", 3rd Int. Conf. on Microelectronics & Plasma Technology (ICMAP3), July 4-7, **2011**, Furama Hotel, Dalian, **CHINA**
98. **S.K. Sharma**, B. Kim, *International conference RFID/USN (active components based on Li-ion batteries)* Korea **2010**, Dec. 2~3, Coex (COEX Convention & Exhibition Centre, which is a part of the South Korean World Trade Centre complex), Gangnam-gu, Seoul, **SOUTH KOREA.**
99. **S.K. Sharma**, K.-N.P. Kumar, R.M. Mehra, K.J. Kang, "*Effect of annealing on the growth and microstructures of thermally grown oxides formed on the foils of alloy 617*", National conference on Recent trends in Exotic materials, 26-28 august, **2010**, Sharda University, G. Noida, **INDIA**
100. **S.K. Sharma**, M. Kim, Y. Chae, J. Rhee, N. Lee, W. Kim, "*Effect of anode diameter on AlGaAs/GaAs vertical Gunn diodes at 94 GHz: Simulation and Fabrication*", Global Symposium on millimeter waves April 14-16, **2010**, Ramado Songdo Hotel, Incheon, **SOUTH KOREA**.
101. M. Kim, J. Rhee, S. Lee, Y. Chae, **S.K. Sharma**, A. Kathalingam, C. Lee, H. Lim, J. Choi, W. Kim, "*InP Gunn diodes with shallow-barrier Schottky contacts*", Asia-Pacific Workshop on Fundamentals and Applications of Advanced Semiconductor Devices (AWAD-2009), June 24 – 26, **2009**, **Busan**, **SOUTH KOREA**.
102. **S.K. Sharma**, K.J. Kang, "*Creep properties of the foils of Inconel 617 at high temperature in air prepared by thermo-mechanical processing*", In proceedings 5th International Conference on CREEP, FATIGUE and CREEP-FATIGUE interaction, **Sep. 24-26, 2008 Kalpakkam, INDIA**.
103. **S.K. Sharma**, F.X. Li, K.J. Kang, "*Effect of thermally grown Cr_2O_3 on tensile properties of the foils of alloy 617 at high temperature*", In proceedings The 7th ASINCO International Conference, KPVP, **Muju Resort**, **SOUTH KOREA, July 2-4, 2008, pp. 197-188**.
104. **S.K. Sharma**, F.X. Li, J.W. Choi, K.J. Kang, "*Annealing effect on microstructure, hardness and creep properties of the foils of alloy 617*", In proceedings KSME spring conference, **Chungbuk National University, SOUTH KOREA, May 29-30, 2008, pp. 111-116**.
105. **S.K. Sharma**, J.W. Choi, K.J. Kang, "*Creep deformation and microstructure of alloy 617 foil at high temperature*", In proceedings of the 6th Pacific Rim International Conference on Advanced Materials and Processing, **ICC Jeju, Jeju Island, SOUTH KOREA, Nov. 5~7, 2007, pp. 233-236**.
106. **S.K. Sharma**, G.D. Ko, F.X. Li, K.J. Kang, "*High temperature oxidation and mechanical properties of foil specimens of alloy 617*", In proceedings of the 2nd International Symposium on Mechanics, Aerospace and Informatics Engineering, **GyeongSang National University, Jinju, SOUTH KOREA, Sep 5- 8, 2007**, pp. 145-157.
107. S.**K. Sharma**, G.D. Ko, K.J. Kang, "*High temperature oxidation behavior of Ni-base Inconel 617 superalloy*", In proceedings International Workshop on Creep-Fatigue Design and Assessment, **Korea University, Seoul, SOUTH KOREA, Oct. 19-20, 2006, pp. 57-65.**
108. **S.K. Sharma**, J. Baveja, R.M. Mehra, "*Meyer-Neldel rule in Se and S-doped hydrogenated amorphous silicon*", Presented in National Conference on Advance Materials & Technology, **, DAV College, Amritsar, Punjab, INDIA, 24-26 Sep. 2004, pp. 67-71.**
109. R. Kaur, P. Sagar, M. Kumar, **S.K. Sharma**, R.S. Gupta, R.M. Mehra, "*Preparation and characterization of sol-gel derived rare earth doped zinc oxide films*", In proceedings IWPSD, **IIT Madras, Chennai, INDIA, 16-20 December 2003, pp-212-215**.
110. **S.K. Sharma**, J. Baveja, R.M. Mehra, "*Characteristic of the temperature dependence of the photoconductivity of selenium and sulphur-doped a-Si:H*", In proceedings IWPSD, **IIT Madras, Chennai, INDIA, 16-20 December 2003, pp-920-922**.

111. P.K. Shishodia, G. Shishodia, R. Kumar, N. Padha, **S.K. Sharma**, R.M. Mehra , "*Effect of Sb-doping on dark and photoconductivity of $CuInSe_2$ thin films*", In proceedings PV in Europe from PV Technology to Energy Solution, **Rome, ITALY, 7-11 October 2002, pp 52-54**.
112. **S.K. Sharma**, J. Baveja, R.M. Mehra, "*The dependence of bandgap and conductivity of selenium-doped hydrogenated amorphous silicon*", In proceedings in PV in Europe from PV Technology to Energy Solution, **Rome, ITALY, 7-11 October 2002, pp 161-163**.
113. **S.K. Sharma**, J. Baveja, R.M. Mehra, "*Dependence of electrical conductivity on selenium and sulphur doping in a-Si:H*", In proceedings 2nd National Conference on Thermophysical Properties, **Jaipur, INDIA,** 2002, p. 27-30.