


Biodata

Name	Dr. D. S. Prasad	
Designation	Scientist E	
Educational qualification	M.Sc. (Physics) from Banaras Hindu University, Varanasi. Ph.D. (Physics) from JNTU, Hyderabad.	
Research area	Ultra purification of tellurium, cadmium, bismuth by physical methods for electronic applications, extraction of valuable materials from end-of life silicon solar cells	
Recognised Awards/Honors/Fellow	Member-materials research society of India	
Projects	<p>Ongoing</p> <p>Development of technology to recover valuable materials from end-of life silicon solar modules, Principal investigator, project sponsored by MeitY, Govt. of India, New Delhi</p> <p>Completed</p> <p>a) Development of ultra purification process for high scale production of 7N grade Te & Cd, Principal investigator, project sponsored by SSPL, Govt. of India, New Delhi</p> <p>b) Process technology development of 7N cadmium for opto electronic applications, Principal investigator, project sponsored by SSPL, Govt. of India, New Delhi.</p> <p>c) Process technology development of ultrapure tellurium for opto-electronic applications, Co-investigator, project sponsored by SSPL, Govt. of India, New Delhi.</p> <p>d) Novel Purification technique for electronic materials by distillation through oxide phase, Co-investigator, DST, Govt. of India, New Delhi</p> <p>e) Processing and Reproducibility aspects during preparation of ultrapure tellurium, Principal investigator, project sponsored by SSPL, Govt. of India, New Delhi</p> <p>f) Development of ultrapure tellurium powder, tellurium oxide powder and MoO₃ powder for nuclear applications, team member, project sponsored by BARC, Govt. of India, Mumbai</p> <p>g) Development of CdS/CdTe thin film solar cells by electrochemical technique using indigenously produced</p>	

	starting materials, Co-investigator, DST, Govt. of India, New Delhi
Publications/Patents (Past 5 years)	<p>a) Awarded a patent entitled “A filtration apparatus for the removal of oxides during the purification of cadmium” patent No. : 277702 (3191/DEL/2011)</p> <p>b) Awarded a patent entitled “Automatic Speed controller for Zone Refiner” patent No. : 311525</p> <p>Following papers presented in the conferences:</p> <p>a) Determination of effective distribution coefficient of impurities during zone refining of cadmium, 26th AGM, MRSI, Jaipur, February 11-13, 2015.</p> <p>b) Effect of multi pass, zone length and translation rate on impurity segregation during zone refining of cadmium’, International conference on Non-ferrous minerals and metals, 7-8, July 2017, Shangri-La’s-Eros Hotel, Delhi.</p>