

List of papers (*published / presented in scientific meetings*)

(*Full texts / Abstracts of most of the papers listed below are available on Researchgate: https://www.researchgate.net/profile/Ran_Singh5/publications*)

Molecular Spectroscopy

Singh RB, Tewari SK. The new thirty-five-foot concave grating spectrograph. Proc. CSIR symposium on spectroscopy and allied problems; 1963:167-174, Banaras Hindu University, India.

Tewari SK, Rai DK, Singh RB. Electronic and infrared spectra of isomeric fluorophenols. Proc. seminar on Raman and Infrared spectroscopy; 1964: 150-158; Kerala University, India.

Singh RB, Rai DK. Valance force constants of MoF₆, TcF₆ and ReF₆. Canadian J Phys 1965; 43:167-169.

Singh RB, Rai DK. On the dissociation of PbF and BiF molecules. Canadian J Phys 1965; 43:829-835.

Singh RB, Rai DK. Potential energy curves for Na₂ molecule. Indian J Pure & Applied Phys 1965; 3:475-478.

Singh RB, Rai DK. Potential energy curves and bond strength of PO. J Phys Chem 1965; 69:3461-3462.

Singh RB, Rai DK. Internuclear potential curves for BO, IO, and ClO. J Quant Spectrosc Radiat Transfer 1965;5:723-727.

Nair KPR, Singh RB, Rai DK. Potential energy curves and dissociation energies of oxides and sulfides of group IV A elements. J chem Phys 1965;43(10):3570-3574.

Singh RB, Rai DK. On the potential energy curves of AgH, AgCl and AgI. Canadian J Phys 1965; 43:1685-1690.

Singh RB, Rai DK. Potential energy curves for O₂⁺, N₂⁺, and CO⁺. J Mol Spectroscopy 1966;19:424-434.

Singh RB, Rai DK. Potential energy curves of some diatomic molecules: P₂, PN, SiN, NBr, BaO, BeF, SiF, and SnF. Indian J Pure & Applied Phys 1966; 4:102-105.

Singh RB, Upadhyay KN. Visible bands of the BiCl molecule (abstract). Proc 53rd Indian Sci Cong: part III Abstracts Sec III;1966:58

Singh RB. Studies in spectra of diatomic molecules. Ph.D. thesis, 1966; Banaras Hindu University, India.

Singh RB, Upadhyay KN. Visible bands of the BiCl molecule. *Curr Sci* 1966;35:484

Mohanty BS, Upadhyay KN, Singh RB, Singh NL. On the β band system of PO molecule. *J Mol Spectroscopy* 1967; 24:19-37.

Singh RB, Upadhyay KN. The $B^2\Sigma - X^2\Pi$ system of SbO (abstract). *Proc 54th Indian Sci Cong: part III Abstracts Sec III*;1967:48.

Singh VB, Singh IS, Rai DK, Singh RB. Vibrational spectra of the three isomeric nitrotoluenes (abstract). *9th European Congress on Molecular Spectroscopy*; 1967: Madrid, Spain.

Thakur SN, Singh RB. U(r) Curves for some astral radicals (abstract). *Proc. 54th Indian. Sci. Cong. part III Abstracts Sec. III*; 1967: 61.

Thakur SN, Singh RB, Rai DK. Potential energy curves and nature of binding in group III A monohalides. *J Scietific and Industrial Research* 1968;27:339-347.

Rao DVRA, Nair KPR, Singh RB, Rai DK. On the potential energy curves of diatomic copper halides. *Indian J Phys* 1968;41(3):205-208.

Thakur SN, Singh RB. Potential curves and Bond Strength of CP, BeO and MgO. *J. Sci. Research (BHU)* 1967-68;18(I):253-264.

Thakur SN, Singh RB. Potential energy curves for some astral radicals. *J Sci Research (BHU)* 1969-70; 20(2):58-68.

Singh RB, Upadhyay KN. Rotational analysis of A - X band system of the BiCl molecule. *Indian J Phys*1971;45:121-138.

Tripathi R, Upadhyay KN, Singh RB, Rai SB. Rotational analysis of the B-X system of antimony monoxide molecule. *J Phys B: At Mol. Phys* 1982; 15:4393-4401.

Forensics

Singh RB. Laser and its possible application in forensic science (abstract). *Scientific meeting of the Indian Academy of Forensic Sciences*; 1970; Delhi, India.

Singh RB. Lasers, uses and applications. *J Indian Acad. Forens. Sci.* 1971;10(2):37-43.

Singh RB, Majumdar DK. Impressions help investigation. *J Indian Acad Forens Sci* 1973;12(1):23-25.

Singh RB, Ramakrishnan S, Das SK. Laboratory examination of telegraph wires. Scientific Meeting of the Indian Academy of Forensic Sciences; 1975; Chandigarh, India.

Baruah KC, Singh RB. Spot tests for comparison of paints (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1975, Ahmedabad, India.

Baruah KC, Singh RB. Evaluation of standard microchemical tests on locally available paints. J. Indian Acad. Forensic Sci 1976; 15(2): 35-37.

Singh RB, Mondal JK. Thickness variation in a sheet of glass (abstract). Scientific Meeting of the Indian Academy of Forensic Science; 1976; Trivendrum, India.

Singh RB, Ramkrishnan S. The Specification of 'Telegraph Wires', Proc. Symposium organised by the Indian Academy of Forensic Sciences, 1977; Calcutta, India.

Singh RB, Singh Tej, SankarDas M. Comparison of copper wire through their trace element profile by neutron activation analysis (abstract). Scientific Meeting of the Indian Academy of Forensic Sciences; 1977; Varanasi, India.

Singh RB. Forensic examination of telegraph wires (invited talk). Study Circle, CFSL, Calcutta, 1977.

Parasuramaiah P, Singh RB. Some recent developments in atomic absorption spectrophotometry and their forensic applications (abstract). Scientific Meeting of the Indian Academy of Forensic Sciences; 1978;Hyderabad, India.

Jauhari M, Bhattacharyya B, Singh RB, Chatterjee A. Crime Investigation-Training Series No. 5, Published by the Bureau of Police Research and Development, Govt. of India, 1978.

Singh Tej, Singh RB. Comparison of copper wires through their trace element profile by NAA. J Indian Acad Forens Sci 1978;17(1):25-30.

Singh RB. Application of lasers in criminalistics (abstract). National seminar on molecular spectroscopy and lasers; 1979, Banaras Hindu Univ., India.

Singh Tej, Singh RB. Trace elements analysis of aluminium conductors (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1979; Patiala, India.

Ramakrishnan S, Singh RB. Trace elements in glass and their evidential value- A Review (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1979, Patiala, India.

Singh RB. Forensic science information service in India (abstract). National colloquium on application of science to the investigation and trial of criminal cases; 1980, New Delhi, India.

Singh RB, Singh Tej. Trace element analysis of multi-standard copper cables. J Indian Acad. Forensic Sci 1980;19 (2): 34-39.

Bhattacharyya B, Singh RB, Majumdar M. Quantitative microscopical analysis of animal hair for assessment of intra-species variation of histo-morphological characteristics:I. Diameter of shaft and medulla in the body hair of domestic goat (*Capra HirCus* Linn). All India Forensic Science Conference; 1981; Jaipur, India.

Singh RB, Singh Tej. Activation analysis of multi-standard copper cables for forensic application (abstract).Proc 68th Indian Science Congress Part III, Abstract Sec. III; 1981.

Singh RB. Information system in forensic science: computerized bibliographic reference service-A project report submitted in partial fulfillment of the requirements of the National Training Program on Information Storage and Retrieval Systems; 1981; SIET Institute, Hyderabad, India.

Singh RB, Sethumadhavan A, Omanakutty G. Spectrographic analysis of aluminium wires for forensic applications (abstract). International symposium on trace analysis and technological development; 1981; BARC, Bombay, India.

Singh RB, Ramakrishnan S, Majumdar DK. Identification of a railway wagon seal - A case report (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1981; Madhuban, India.

Singh RB. Computerized bibliographic service (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1981; Madhuban, India.

Singh RB, Singh Tej. Identification of copper wires by activation analysis of trace element composition - a case report (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1981; Madhuban, India.

Singh RB, Sethumadhavan A, Omanakutty G. Spectrographic analysis of aluminium wires for forensic applications. J Indian Academy Forensic Science 1981;20(1): 29-33

B. Bhattacharyya, Singh RB, Majumdar Manik. Morphometric studies on animal hair: Diameters of shaft and medulla of goat hair. J Indian Academy of Forensic Sciences 1981; 20(1):39-42.

Singh RB , Forensic Science Information Service in India. Indian J Criminology and Criminalistics 1982;11(1):74-75.

Singh RB, Ramakrishnan S. Trace elements analysis of commercial grade aluminium (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1982; Delhi, India.

Singh RB, Ramakrishnan S., Majumdar DK. Identification of a Railway Wagon seal- A case Report. J Indian Academy of Forensic Sciences 1982;21 (1): 34-35.

Singh RB. NAA links exhibits of two cases of telegraph wire theft (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1983; Calcutta, India.

Singh RB. Instrumental methods in document examination (abstract). National seminar on forensic documents; 1986; Delhi, India.

Chattopadhyay N, Bakre SM, Singh RB. Trace element characterization of aluminum wires by neutron activation analysis (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1986; Calcutta; India.

Chattopadhyay N, Singh RB. Trace element characterization of aluminum wires by neutron activation analysis. J Indian Acad. Forens. Sci. 1987; 26(2):14-19.

Pant NC, Singh BB, Sethi JR, Singh RB. Determination of iron in aluminum conductors for forensic applications (abstract). National seminar on identification in forensic science; 1989; Calcutta, India.

Singh RB. Trace element characterization of electrical transmission wires (abstract). National seminar on identification in forensic sciences; 1989; Calcutta, India.

Singh RB. *Aparadh vanam Vigyan* (invited talk). *Vgyan kee nayee dishayen*; 3-4 March, 1989, BHU, Varanasi, India.

Singh RB. Application of Lasers in Crime Investigation (invited talk). Second IPA/DST Symposium on Lasers and Applications; 1989; Varanasi, India.

Singh RB. Spectroscopic methods in forensic science. Bulletin of laser and spectroscopy society of India; 1989-90; no.5-6 : 96.

Jain SK, Singh Omvir, Harpalani SP, Taneja OP, Singh RB. Application of I.C.P.- AES in identification and quantitation of arsenic in human poisoning (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1991; Lucknow, India.

Sharma MC, Taneja OP, Singh RB. Detection of the Origin of Explosions (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1991; Lucknow, India.

Singh RB, Sethi JR, Pathak PC, Khare S. The use of SEM for determining the sequence of thumb impression and ink writing (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1991; Lucknow, India.

Singh RB, Sethi JR, Rajeev Ranjan. Atomic absorption spectrophotometer for normal level of some metallic poisons in visceral tissues and levels of copper & zinc in poisoning cases (abstract). Scientific meeting of the Indian Academy of Forensic Sciences;1991;Lucknow, India.

Singh RB, Sethi JR, Trivedi Rajani, Khare S. Application of SEM in forensic science (abstract) Scientific meeting of the Indian Academy of Forensic Sciences;1991;Lucknow, India.

Singh RB, Sethi JR, Kamboj SC, Khare S. The use of anode spacer in SEM to study the sequence of handwritings (abstract). Scientific meeting of the Indian Academy of Forensic Sciences;1991;Lucknow, India.

Singh RB. Ethics in forensic science (abstract). Proc 79th Indian Science Congress Part IV; 1992:165.

Singh RB, Kamboj SC, Mukherjee A, Khare S. Special document mount for scanning electron microscope studies (abstract). Proc 80th Indian Science Congress Part IV; 1993:220.

Sethi JR, Khare Sanjay, Singh RB. Fingerprint development with scanning electron microscope (abstract). Proc 80th Indian Science Congress Part IV; 1993:222

Singh RB, Sethi JR, Khare Sanjay. Recording of fingerprints on laminated surfaces by SEM (abstract). All India Forensic Science Conference; 1993, Bangalore, India.

Harpalani SP, Singh RB. *Nyayalayik vish vigyan*. Uttar Pradesh Police Patrika 1993;24(April): 1-9.

Kamboj SC, Singh RB. *Prasnaspad pralekh evam unka pareekshan*. Uttar Pradesh Police Patrika 1993;24(Nov): 1-12.

Pant NC, Singh RB, Kamboj SC, Darshan B. Glass evidence - An evaluation (abstract). Proc 81st Indian Science Congress Part IV Discussion; 1994:219.

Singh RB. Quality assurance at forensic science laboratory - why and how (abstract). Proc 81st Indian Science Congress Part IV Discussion; 1994:228.

Tripathi A, Singh RB, Harpalani SP. Scope of Utilisation of DNA fingerprinting for forensic investigation in U.P (abstract). 3rd International Conference of DNA Fingerprinting; 1994; Hyderabad, India.

Singh RB. *Aparadh vigyan - kya, kyon, evam kaise*. Akashvanee, Lucknow, 6th August 1994

Singh RB. Forensic Physics. Proc 82nd Indian Science Congress Part II Presidential address; 1995:1-43.

Dixit Vinay, Singh RB. Tagging of aluminum conductors (abstract). Proc 82nd Indian Science Congress Part IV Discussion; 1995:202.

Harpalani SP, Singh RB. Inductively coupled plasma emission spectrometric method for detection and determination of copper in human tissues (abstract). Proc 82nd Indian Science Congress Part IV Discussion; 1995:203.

Singh RB. Criminal justice system and forensic scientist (abstract). Proc 82nd Indian Science Congress Part IV Discussion; 1995:225.

Tripathi A, Harpalani SP, Singh RB, Sharma D. A preliminary study of diatoms at the probable drowning sites of the river Gomti at Lucknow, India (abstract). 9th All India Forensic Science Conference; 1995; Shimla, India.

Ram Janam, Taneja OP, Singh RB. Identification of expired cement by X-ray diffraction technique. J Indian Acad Forens Sci 1995;34:1-8.

Singh RB. *Sadak durghatna men tire chhap tatha tire ke ghaseetane ke chinh ka pareekshan*. Police Vigyan 1995; 12 (no 50):13-16.

Singh RB, Harpalani SP, Sharma VK, Shukla RP. Poisoning by aluminum phosphide - A case report (abstract). Proc 83rd Indian Science Congress Part IV Discussion; 1996:216.

Yadav MM, Tripathi OPM, Singh RB. A co-axial double barreled improvised firearm (abstract). Proc 83rd Indian Science Congress Part IV Discussion; 1996:229.

Singh RB. Application of neutron activation analysis in forensic science (key note address). Workshop on Application of NAA in Forensic Science; 1996; BARC, Bombay, India.

Ram Janam, Taneja OP, Singh RB. Analysis of cement by X-Ray Diffraction. Forum on Forensic Sciences, 83rd Indian Science Congress; 1996; Patiala, India.

Singh RB, Quality Management in Forensic Laboratories (invited lecture). Forum on Forensic Sciences, 83rd Indian Science Congress; 1996; Patiala, India.

Singh Amar, Saimbi CS, Trivedi R, Khan FA, Singh RB. Human Age Determination in Lucknow area (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 3-4 Oct 1996; Delhi, India.

Tripathi A, Sharma D, Singh R, Harpalani SP, Singh RB. Comparative study of diatoms of different waterbodies of Lucknow for diagnosis of drowning (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1996; Delhi, India.

Tiwari NK, Singh RB. Proximity Determination within tattooing range (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1996; Delhi, India.

Ram Janam, Taneja OP, Singh RB. Identification of adulterated cement by XRD (abstract). Scientific meeting of the Indian Academy of Forensic Sciences; 1996; Delhi, India.

Srivastava Meena, Singh RB. *Nyayalayik Jeev Vigyan*. Uttar Pradesh Police Patrika 1996;27(May): 9-15.

Singh MP, Singh RB. *Pad chinh evem aparadh anweshan*. Uttar Pradesh Police Patrika 1996;27(Nov): 5-10.

Singh RB. Characterization of Metals by trace impurities (abstract). 14th Meeting of International Association of Forensic Sciences. 1996; Tokyo, Japan.

Singh RB. A report on the 11th Interpol forensic science symposium. CBI Bulletin 1996; 4(7):35-40.

Singh RB. Presidential Address – Scientific meeting of the Indian Academy of Forensic Sciences 1996 (summary). J Indian Acad Forens Sci 1997;36:75.

Ran Janam, Taneja OP, Singh RB. Analysis of substandard cement by XRD (abstract). Proc 84th Indian Science Congress Part IV Discussion; 1997:303.

Chattopadhyay N, Tripathi ABR, Nair KU, Bose DK, Rao MS, Singh RB. Trace element characterization of transmission copper and aluminum wires by NAA - Role of chemical tagging for source correspondence studies (abstract). Proc 84th Indian Science Congress Part IV Discussion; 1997:307

Tripathi A, Sharma D, Singh R, Harpalani SP, Singh RB. Effect on forensic serological analysis of blood stains exposed to different environmental conditions during the rainy season in UP (abstract). Proc 84th Indian Science Congress Part IV Discussion; 1997:321.

Tripathi A, Khan TH, Chandra S, Singh RB, Harpalani SP. Success pattern in serological analysis of blood stained exhibits received for forensic examination in state laboratory UP (abstract). Proc 84th Indian Science Congress Part IV Discussion; 1997:321.

Singh R, Sharma D, Tripathi A, Harpalani SP, Singh RB. A comparison of the diatoms of river Gomti at Lucknow with different rivers of UP for diagnosis of drowning (abstract). Proc 84th Indian Science Congress Part IV Discussion; 1997:327.

Singh RB. Laser against crime (invited talk). Physics Section, 84th Indian Science Congress; 1997; Delhi, India.

Singh RB. Recent advances in forensic science (invited talk) Forensic Science Forum, 84th Indian Science Congress.1997; Delhi, India.

Ram Janam, Taneja OP, Singh RB. Discrimination of paint samples in forensic examination by X- ray diffraction technique (abstract). All India Forensic Science Conference.1997; Bhubaneshwar, India.

Dikshit Vinay, Singh RB. Computer Forensics (abstract). 29th All Indian Police Science Congress, 1997; Lucknow, India.

Singh RB. *Swadheen bharat men nyayalayik vigyan ka vikas*. Uttar Pradesh Police Patrika 1997;28(Aug): 5-10

Singh RB. Past, Present and Future of Forensic Science (key note address).Dr. NK Sen (*Founder Director, FSL, WB*) birth centenary celebration; 1997; Calcutta, India.

Singh RB. Forensic science in 21st century (invited lecture). All India Forensic Science Conference; 1997; Bhubneswar, India.

Dixit Vinay, Singh RB. Computer Forensics (abstract). All India Forensic Science Conference; 1997; Bhubneswar, India.

Ran Janam, Taneja OP, Singh RB. Discrimination of paint samples by X-ray diffraction technique. J. Indian Acad Forens Sci 1998;37:15-24.

Sharma D, Singh R, Tripathi A, Harpalani SP, Singh RB. Impact of different environmental conditions in winter on the serology of blood stains as compared to rainy season in UP (abstract). Proc 85th Indian Science Congress Part IV Discussion; 1998:231.

Singh R, Sharma D, Tripathi A, Harpalani SP, Singh RB. A survey of diatom diversity in different canals of Lucknow in UP for the diagnosis of drowning (abstract). Proc 85th Indian Science Congress Part IV Discussion; 1998:234.

Shyam Sunder, Ram Janam, Taneja OP, Singh RB. Restoration of obliterated chasis number - An unusual case (abstract). Proc 85th Indian Science Congress Part IV Discussion; 1998:241.

Dixit Vinay, Singh RB. *RAKSHIT* - An application software for forensic science laboratories (abstract). Proc 85th Indian Science Congress Part IV Discussion; 1998:266. Hyderabad, India.

Kamboj SC, Singh RB. Handling and examination of charred document (abstract). International Conference on Forensic Documents; 1998; Bangalore, India.

Singh RB. Overview paper on evidence type: paint and glass. 12th Intrerpol Forensic Science Symposium; 1998; Lyon, France.

Singh R, Singh RB. *Doobane se huyi mritue ka gavah –Diatom*. Uttar Pradesh Police Patrika 1998;29(May): 9- 14.

Singh RB. Lasers in criminalistics. Bulletin of laser and spectroscopy society of India; 1998; no.9 :7-16.

Singh RB. Evidence type: paint and glass I. paint. CBI Bulletin 1998; 6(9): 19-27.

Singh RB. Evidence type: paint and glass II glass. CBI Bulletin 1998;6(10):24-30

Singh RB. Uttar Pradesh Forensic science laboratories. Uttar Pradesh Police Patrika 1998;29(Jan): 68-72

Ram Janam, Sunder S, Taneja OP, Singh RB. Decipherment of an obliterated chassis number of a vehicle – a case study. J. Indian Acad Forens Sci 1999; 38:33-37

Singh RB. Forensic science in the next century (invited lecture). Scientific meeting on forensic and food sciences in the next millennium; 13th Nov. 1999, Calcutta, India.

Singh RB. Scientific support to crime investigation. Uttar Pradesh Police Patrika 1999;29(Jan): 37-42.

Singh RB. *Vigyan kee nyayalayic bhoomika*. Vigyan 1999;85 (6):18-20.

Singh RB. Crime Scene Investigation. CBI Bulletin 2000;8(8):24-36

Singh RB, Recent Trends in Forensic Science, Conference on Crime Matters, 22-23 Feb 2000; New Delhi, India.

Ran Janam, Taneja OP, Singh RB. Identification of Adulterants used in Cement by X-ray Diffraction Technique. Scientific Meeting on Recent Advances in Forensic Science and Forensic Medicine, 25 Nov 2000, Calcutta, India.

Ran Janam, Taneja OP, Singh RB. Identification of bone ash by X-ray diffraction method. Forum on Forensic Science, 88th Indian Science Congress 2001; Delhi, India.

Branded – Police, Press and People (Chapter on **Scientific Support to Investigation pp 167-173**) Editor : Renu Ghosh, Bridge, New Delhi August 2001 ISBN 81-901249-0-0

Branded – Police, Press and People (Chapter on **Forensic Physics pp 178-188**) Editor : Renu Ghosh, Bridge, New Delhi August 2001 ISBN 81-901249-0-0

Singh RB. Spectroscopy in Forensics (*invited talk*). National Symposium on Atomic, Molecular structure, Interactions and Laser Spectroscopy; 22-24 Feb 2002; Varanasi, India.

Singh RB. Technological Inadequacies of Forensic Science in India with special reference to Global Advancements (*invited talk*). National Seminar on Forensic Science - Use and Applications in Investigation and Prosecution; 2002; Hyderabad, India.

Singh RB. Prevailing Directions in Forensics (*keynote address*). National Seminar on 'Role of Forensic Science in Criminal Investigation with special Emphasis on Scene of Crime'; 15-16 March 2003; Bhopal, India.

Singh RB. Crime Scene Management (*keynote address*). Training Program on Management of Scene of Crime involving Firearms'; 27-31 January 2004; Forensic Science Laboratory, Sagar, India.

Singh RB. Trace Element Characterization of Forensic Samples. International Conference on "Actual Problems of the Theory and Practice of Forensic Sciences" 6-10 September 2004; Nizhniy Novgorod, Russia.

Singh RB. Forensic Spectroscopy – an aid to Security (Invited Talk); 9-11 Jan 2006, Varanasi, India.

Madhuri Bisht Sajwan, Ran B. Singh, Saroj Aggarwal Characterization of Plastic Pipes by X-ray Diffraction in Forensic Analysis; Indian Journal of Criminology and Criminalistics Vol. 28 issue No. 3 Sep. to Dec. 2007 page 76-81

Madhuri Sajwan , Saroj Aggarwal , R.B. Singh Forensic characterization of HDPE pipes by DSC Forensic Science International 175 (2008) 130–133

Madhuri Bisht Sajwan, Saroj Aggarwal, Ran B. Singh Characterization of HDPE Pipes by Relative Crystallinity Determined from Infrared Spectrum; Indian Journal of Criminology and Criminalistics Vol. 29 issue No.1 Jan. to Apr. 2008 page 55-61

Saroj Aggarwal, Madhuri Sajwan, Ran B. Singh; Crystallinity of HDPE Pipes by DSC, XRD and FTIR Spectroscopy - A Forensic Comparison; Indian Journal of Criminology and Criminalistics Vol. 29 issue No. 2 May to Aug. 2008 page 141-148

Ran B Singh Lasers in Forensic and Investigative Sciences (invited talk) Physics Section, 100th Indian Science Congress; 2013; Kolkata, India.

Ran B Singh Trace Element Characterization of Forensic Samples (invited talk) Physics Section, 101st Indian Science Congress; 2014; Jammu, India.

Ran B Singh Physics in Forensics (invited talk) Physics Section, 102nd Indian Science Congress; 2015; Mumbai, India