

# Yadavindra College of Engineering, Talwandi Sabo

## Research Publications in SCI/SCIE indexed journals

(Updated: 31<sup>st</sup> March, 2021)

**Hazoor Singh Sidhu**, Buta Singh Sidhu, Satya Prakash; Wear characteristics of Cr<sub>3</sub>C<sub>2</sub>-NiCr and WC-Co coatings deposited by LPG fueled HVOF, *Tribology International*, Volume 43, Issues 5-6, May-June 2010, pp. 887-890, DOI: [10.1016/j.triboint.2009.12.016](https://doi.org/10.1016/j.triboint.2009.12.016)

**Hazoor Singh Sidhu**, Buta Singh Sidhu, Satya Prakash; Hot Corrosion Behavior of HVOF Sprayed Coatings on ASTM SA213-T11 Steel, *Journal of Thermal Spray Technology*, Volume 16, pp. 349-354 (September 2007), DOI: [10.1007/s11666-007-9029-4](https://doi.org/10.1007/s11666-007-9029-4)

**Hazoor Singh Sidhu**, Buta Singh Sidhu, Satya Prakash; Solid particle erosion of HVOF sprayed NiCr and Stellite-6 coatings, *Surface and Coatings Technology*, Volume 202, Issue 2, November 2007, pp. 232-238, DOI: [10.1016/j.surfcoat.2007.05.035](https://doi.org/10.1016/j.surfcoat.2007.05.035)

**Hazoor Singh Sidhu**, Buta Singh Sidhu, Satya Prakash; Mechanical and microstructural properties of HVOF sprayed WC-Co and Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings on the boiler tube steels using LPG as the fuel gas, *Journal of Materials Processing Technology*, Volume 171, Issue 1, January 2006, pp. 77-82, DOI: [10.1016/j.jmatprotec.2005.06.058](https://doi.org/10.1016/j.jmatprotec.2005.06.058)

**Hazoor Singh Sidhu**, Buta Singh Sidhu, Satya Prakash; The role of HVOF coatings in improving hot corrosion resistance of ASTM-SA210 GrA1 steel in the presence of Na<sub>2</sub>SO<sub>4</sub>-V<sub>2</sub>O<sub>5</sub> salt deposits, *Surface and Coatings Technology*, Volume 200, Issues 18-19, May 2006, pp. 5386-5394, DOI: [10.1016/j.surfcoat.2005.07.008](https://doi.org/10.1016/j.surfcoat.2005.07.008)

**Hazoor Singh Sidhu**, Buta Singh Sidhu, Satya Prakash; Evaluation of the Hot Corrosion Behavior of LPG Assisted HVOF NiCr Wire Sprayed Boiler Tube Steels in Molten Salt Environments, *ISIJ International*, August 2006, Volume 46, Issue 7, pp. 1067-1074, DOI: [10.2355/isijinternational.46.1067](https://doi.org/10.2355/isijinternational.46.1067)

**Hazoor Singh Sidhu**, Buta Singh Sidhu, Satya Prakash; Comparative characteristic and erosion behavior of NiCr coatings deposited by various high-velocity oxyfuel spray processes. *Journal of Materials Engineering and Performance*, **15**, pp. 699-704 (December 2006). DOI: [10.1361/105994906X150713](https://doi.org/10.1361/105994906X150713)

Tejinder Pal Singh Sarao, **Hazoor Singh Sidhu**, Harpreet Singh; Characterization of Thermal Sprayed Hydroxyapatite Coatings on Some Biomedical Implant Materials. *Journal of Applied Biomaterials & Functional Materials*. January 2014:48-56. DOI: [10.5301/JABFM.2012.9267](https://doi.org/10.5301/JABFM.2012.9267)

Tejinder Pal Singh Sarao, **Hazoor Singh Sidhu**, Harpreet Singh; Characterization and *In Vitro* Corrosion Investigations of Thermal Sprayed Hydroxyapatite and Hydroxyapatite-Titania Coatings on Ti Alloy, *Metallurgical and Materials Transactions A*, **43**, 4365–4376 (November 2012). DOI: [10.1007/s11661-012-1175-8](https://doi.org/10.1007/s11661-012-1175-8)

Tejinder Pal Singh Sarao, **Hazoor Singh Sidhu**, Harpreet Singh; Characterization, Corrosion Resistance, and Cell Response of High-Velocity Flame-Sprayed HA and HA/TiO<sub>2</sub> Coatings on 316L SS, *Journal of Thermal Spray Technology*, **21**, 917–927 (September 2012). DOI: [10.1007/s11666-012-9782-x](https://doi.org/10.1007/s11666-012-9782-x)

Puneet Bansal, Gurpreet Singh, **Hazoor Singh Sidhu**; Investigation of corrosion behavior and surface properties of plasma sprayed HA/Sr reinforced coatings on CoCr alloys, *Materials Chemistry and Physics*, Volume 253, 2020, Article 123330. DOI: [10.1016/j.matchemphys.2020.123330](https://doi.org/10.1016/j.matchemphys.2020.123330)

Puneet Bansal, Gurpreet Singh, **Hazoor Singh Sidhu**; Improvement of surface properties and corrosion resistance of Ti13Nb13Zr titanium alloy by plasma-sprayed HA/ZnO coatings for biomedical applications, *Materials Chemistry and Physics*, Volume 257, 2021, Article 123738, DOI: [10.1016/j.matchemphys.2020.123738](https://doi.org/10.1016/j.matchemphys.2020.123738)

Puneet Bansal, Gurpreet Singh, **Hazoor Singh Sidhu**; Plasma-Sprayed Hydroxyapatite-Strontium Coating for Improved Corrosion Resistance and Surface Properties of Biodegradable AZ31 Mg Alloy for Biomedical Applications, *Journal of Materials Engineering and Performance*, (February 2021). DOI: <https://doi.org/10.1007/s11665-021-05490-0>

Gurpreet Singh, **Hazoor Singh**, Buta Singh Sidhu; Characterization and corrosion resistance of plasma sprayed HA and HA–SiO<sub>2</sub> coatings on Ti–6Al–4V, *Surface and Coatings Technology*, Volume 228, August 2013, pp. 242–247, DOI: [10.1016/j.surfcoat.2013.04.036](https://doi.org/10.1016/j.surfcoat.2013.04.036)

Gurpreet Singh, **Hazoor Singh**, Buta Singh Sidhu; Corrosion behavior of plasma sprayed hydroxyapatite and hydroxyapatite-silicon oxide coatings on AISI 304 for biomedical application, *Applied Surface Science*, Volume 284, November 2013, pp. 811–818, DOI: [10.1016/j.apsusc.2013.08.013](https://doi.org/10.1016/j.apsusc.2013.08.013)

**Rakesh Bhatia**, **Hazoor Singh**, Buta Singh Sidhu; Hot Corrosion Studies of HVOF-Sprayed Coating on T-91 Boiler Tube Steel at Different Operating Temperatures. *Journal of Materials Engineering and Performance*, **23**, 493–505 (February 2014). DOI: [10.1007/s11665-013-0771-0](https://doi.org/10.1007/s11665-013-0771-0)

**Rakesh Bhatia**, **Hazoor Singh Sidhu**, Buta Singh Sidhu; High Temperature Behavior of Cr<sub>3</sub>C<sub>2</sub>-NiCr Coatings in the Actual Coal-Fired Boiler Environment, *Metallurgical and*

*Materials Transactions E*, volume 2, issue 1, pages70–86, (2015), DOI: [10.1007/s40553-015-0045-x](https://doi.org/10.1007/s40553-015-0045-x)

Khushdeep Goyal, **Rakesh Bhatia, Hazoor Singh**; Behaviour of carbon nanotubes-Cr<sub>2</sub>O<sub>3</sub> thermal barrier coatings in actual boiler. *Surface Engineering*, Volume 36, Issue 2, 2020, Pages 124-134, DOI: [10.1080/02670844.2019.1584966](https://doi.org/10.1080/02670844.2019.1584966)

Khushdeep Goyal, **Hazoor Singh, Rakesh Bhatia**; Hot-corrosion behavior of Cr<sub>2</sub>O<sub>3</sub>-CNT-coated ASTM-SA213-T22 steel in a molten salt environment at 700°C, *International Journal of Minerals, Metallurgy, and Materials*, volume 26, number 3, pages 337–344 (2019), DOI: [10.1007/s12613-019-1742-8](https://doi.org/10.1007/s12613-019-1742-8)

Khushdeep Goyal, **Hazoor Singh, Rakesh Bhatia**; Hot corrosion behaviour of carbon nanotubes reinforced chromium oxide composite coatings at elevated temperature, *Materials Research Express*, Volume 5, Number 11, 2018, Article 116408, DOI: [10.1088/2053-1591/aadc34](https://doi.org/10.1088/2053-1591/aadc34)

Khushdeep Goyal, **Hazoor Singh, Rakesh Bhatia**; Experimental investigations of carbon nanotubes reinforcement on properties of ceramic-based composite coating, *Journal of the Australian Ceramic Society*, Volume 55, issue 2, pages 315–322(2019), DOI: [10.1007/s41779-018-0237-9](https://doi.org/10.1007/s41779-018-0237-9)

Gurjot Singh, Khushdeep Goyal, **Rakesh Bhatia**; Hot Corrosion Studies of Plasma-Sprayed Chromium Oxide Coatings on Boiler Tube Steel at 850 °C in Simulated Boiler Environment, *Iranian Journal of Science and Technology*, Transactions of Mechanical Engineering, volume 42, pages 149–159(2018), DOI: [10.1007/s40997-017-0090-4](https://doi.org/10.1007/s40997-017-0090-4)

Sandeep Kumar, **Rakesh Bhatia, Hazoor Singh**; Hot corrosion behaviour of CNT-reinforced zirconium yttrium composite coating at elevated temperature, *Materials Today: Proceedings*, Volume 28, Part 3, 2020, Pages 1530-1539, DOI: [10.1016/j.matpr.2020.04.836](https://doi.org/10.1016/j.matpr.2020.04.836)

Roshan Lal Viridi, **Sukhpal Singh Chatha, Hazoor Singh**; Experimental investigations on the tribological and lubrication behaviour of minimum quantity lubrication technique in grinding of Inconel 718 alloy, *Tribology International*, Volume 153, 2021, Article 106581, <https://doi.org/10.1016/j.triboint.2020.106581>

Roshan Lal Viridi, **Sukhpal Singh Chatha, Hazoor Singh**; Machining performance of Inconel-718 alloy under the influence of nanoparticles based minimum quantity lubrication grinding, *Journal of Manufacturing Processes*, Volume 59, 2020, Pages 355-365, <https://doi.org/10.1016/j.jmapro.2020.09.056>

**Sukhpal Singh Chatha, Hazoor Singh Sidhu, Buta Singh Sidhu**; Characterisation and Corrosion-Erosion Behaviour of Carbide based Thermal Spray Coatings, *Journal of*

*Minerals and Materials Characterization and Engineering*, Vol. 11 No. 6, 2012, pp. 569-586. DOI: [10.4236/jmmce.2012.116041](https://doi.org/10.4236/jmmce.2012.116041)

**Sukhpal Singh Chatha, Hazoor Singh Sidhu, Buta Singh Sidhu**; High-Temperature Behavior of a NiCr-Coated T91 Boiler Steel in the Platen Superheater of Coal-Fired Boiler. *Journal of Thermal Spray Technology*, **22**, 838–847 (June 2013). DOI: [10.1007/s11666-013-9899-6](https://doi.org/10.1007/s11666-013-9899-6)

**Sukhpal Singh Chatha, Hazoor Singh Sidhu, Buta Singh Sidhu**; The effects of post-treatment on the hot corrosion behavior of the HVOF-sprayed Cr<sub>3</sub>C<sub>2</sub>-NiCr coating, *Surface and Coatings Technology*, Volume 206, Issues 19–20, May 2012, pp. 4212-4224, DOI: [10.1016/j.surfcoat.2012.04.026](https://doi.org/10.1016/j.surfcoat.2012.04.026)

**Sukhpal Singh Chatha, Hazoor Singh Sidhu, Buta Singh Sidhu**; High temperature hot corrosion behaviour of NiCr and Cr<sub>3</sub>C<sub>2</sub>-NiCr coatings on T91 boiler steel in an aggressive environment at 750°C, *Surface and Coatings Technology*, Volume 206, Issues 19–20, May 2012, pp. 3839-3850, DOI: [10.1016/j.surfcoat.2012.01.060](https://doi.org/10.1016/j.surfcoat.2012.01.060)

**Jarnail Singh, Sukhpal Singh Chatha, Hazoor Singh**; Synthesis and characterization of plasma sprayed functional gradient bioceramic coating for medical implant applications, *Ceramics International*, 2020, DOI: [10.1016/j.ceramint.2020.12.039](https://doi.org/10.1016/j.ceramint.2020.12.039)

**Jarnail Singh, Sukhpal Singh Chatha, Hazoor Singh**; Characterization and corrosion behavior of plasma sprayed calcium silicate reinforced hydroxyapatite composite coatings for medical implant applications, *Ceramics International*, Volume 47, Issue 1, 2021, Pages 782-792. DOI: [10.1016/j.ceramint.2020.08.189](https://doi.org/10.1016/j.ceramint.2020.08.189)

**Harkulvinder Singh, Sukhpal Singh Chatha, Hazoor Singh Sidhu**; Influence of Heat Treatment and Sealing on Hot Corrosion Behavior of 80Ni-20Cr Coatings, *Journal of Thermal Spray Technology*, Volume 28, issue 7, 1478–1491 (2019). DOI: [10.1007/s11666-019-00912-x](https://doi.org/10.1007/s11666-019-00912-x)

Amrit Pal, **Sukhpal Singh Chatha, Hazoor Singh Sidhu**; Tribological characteristics and drilling performance of nano-MoS<sub>2</sub>-enhanced vegetable oil-based cutting fluid using eco-friendly MQL technique in drilling of AISI 321 stainless steel, *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, **43**, Article number: 189 (2021), DOI: <https://doi.org/10.1007/s40430-021-02899-5>

Amrit Pal, **Sukhpal Singh Chatha, Hazoor Singh Sidhu**; Experimental investigation on the performance of MQL drilling of AISI 321 stainless steel using nano-graphene enhanced vegetable-oil-based cutting fluid, *Tribology International*, Volume 151, 2020, Article 106508, DOI: [10.1016/j.triboint.2020.106508](https://doi.org/10.1016/j.triboint.2020.106508)

Amrit Pal, **Sukhpal Singh Chatha**, Kamaldeep Singh; Performance evaluation of minimum quantity lubrication technique in grinding of AISI 202 stainless steel using nano-MoS<sub>2</sub> with vegetable-based cutting fluid, *The International Journal of Advanced Manufacturing Technology*, volume 110, issue 1-2, September 2020, 125–137. DOI: [10.1007/s00170-020-05840-7](https://doi.org/10.1007/s00170-020-05840-7)

**Jagseer Singh, Sukhpal Singh Chatha**, Buta Singh Sidhu; Abrasive wear behavior of newly developed weld overlaid tillage tools in laboratory and in actual field conditions, *Journal of Manufacturing Processes*, Volume 55, 2020, Pages 143-152, DOI: [10.1016/j.jmapro.2020.03.040](https://doi.org/10.1016/j.jmapro.2020.03.040)

**Jagseer Singh, Sukhpal Singh Chatha**, Buta Singh Sidhu; Performance Evaluation of Surface Overlaid EN-42 Steel for Tillage Applications, *Journal of Tribology*, Mar 2021, volume 143, issue 3, Article 031202, DOI: [10.1115/1.4048165](https://doi.org/10.1115/1.4048165)

**Jagseer Singh, Sukhpal Singh Chatha**, Buta Singh Sidhu; Tribological performance of hardfaced and heat treated EN-47 steel used for tillage applications, *Surface Topography: Metrology and Properties*, Volume 8, Number 4, September 2020, Article 045006. DOI: [10.1088/2051-672X/abbb7f](https://doi.org/10.1088/2051-672X/abbb7f)

**Jagseer Singh, Sukhpal Singh Chatha**, Buta Singh Sidhu; Abrasive wear characteristics and microstructure of Fe-based overlaid ploughshares in different field conditions, *Soil and Tillage Research*, Volume 205, 2021, Article 104771, DOI: [10.1016/j.still.2020.104771](https://doi.org/10.1016/j.still.2020.104771)

**Gagan Kaushal**, Niraj Bala, Narinder Kaur, Harpreet Singh, Satya Prakash; Comparative High-Temperature Corrosion Behavior of Ni-20Cr Coatings on T22 Boiler Steel Produced by HVOF, D-Gun, and Cold Spraying. *Metallurgical and Materials Transactions A*, **45**, 395–410 (January 2014). [10.1007/s11661-013-1984-4](https://doi.org/10.1007/s11661-013-1984-4)

**Gagan Kaushal**, Narinder Kaur, Harpreet Singh, Satya Prakash; Effect of zirconium addition in HVOF sprayed Ni–20Cr coating, *Surface Engineering*, 29:1, 46-54, (Nov 2013) DOI: [10.1179/1743294412Y.0000000051](https://doi.org/10.1179/1743294412Y.0000000051)

**Gagan Kaushal**, Harpreet Singh, Satya Prakash; Performance of Detonation Gun-Sprayed Ni-20Cr Coating on ASTM A213 TP347H Steel in a Boiler Environment. *Journal of Thermal Spray Technology*, 21, 975–986 (September 2012). DOI: [10.1007/s11666-012-9770-1](https://doi.org/10.1007/s11666-012-9770-1)

**Gagan Kaushal**, Harpreet Singh, Satya Prakash; High-Temperature Erosion-Corrosion Performance of High-Velocity Oxy-Fuel Sprayed Ni-20 Cr Coating in Actual Boiler Environment. *Metallurgical and Materials Transactions A*, **42**, 1836–1846 (July 2011). DOI: [10.1007/s11661-010-0587-6](https://doi.org/10.1007/s11661-010-0587-6)

**Gagan Kaushal**, Harpreet Singh, Satya Prakash; Comparative High Temperature Analysis of HVOF-Sprayed and Detonation Gun Sprayed Ni–20Cr Coating in Laboratory and Actual Boiler Environments. *Oxidation of Metals*, **76**, 169–191 (October 2011). DOI: [10.1007/s11085-011-9245-7](https://doi.org/10.1007/s11085-011-9245-7)

**Gagan Kaushal**, Harpreet Singh, Satya Prakash; (2011) Surface engineering, by detonation-gun spray coating, of 347H boiler steel to enhance its high temperature corrosion resistance, *Materials at High Temperatures*, 28:1, 1-11, DOI: [10.3184/096034011X12960473417949](https://doi.org/10.3184/096034011X12960473417949)

**Gagan Kaushal**, Harpreet Singh, Satya Prakash; High temperature corrosion behaviour of HVOF-sprayed Ni-20Cr coating on boiler steel in molten salt environment at 900°, *International Journal of Surface Science and Engineering*, 2011 Vol.5 No.5/6, pp.415 - 433 DOI: [10.1504/IJSURFSE.2011.044388](https://doi.org/10.1504/IJSURFSE.2011.044388)

Sachpreet Singh Aulakh, **Gagan Kaushal**; (March 2019) Laser texturing as an alternative to grit blasting for improved coating adhesion on AZ91D magnesium alloy, *Transactions of the IMF*, 97:2, 100-108, DOI: [10.1080/00202967.2019.1578562](https://doi.org/10.1080/00202967.2019.1578562)

Mithlesh Sharma, Deepak Kumar Goyal, **Gagandeep Kaushal**; Micro-structural and tribological assessment of HVOF sprayed coating by Co alterations for wear applications *Materials Research Express*, Volume 6, Number 8 (June 2019) DOI: [10.1088/2053-1591/ab2654](https://doi.org/10.1088/2053-1591/ab2654)

Lochan Sharma, Rahul Chhibber, **Deepak Bhandari**; Effect of SAW fluxes on electrochemical corrosion & microstructural behavior of API X70 weldments, *Journal of Process Mechanical Engineering*, 2021, DOI: <https://doi.org/10.1177/0954408921995699>

**Deepak Bhandari**, Rahul Chhibber, Navneet Arora, Rajeev Mehta; Investigation of TiO<sub>2</sub>–SiO<sub>2</sub>–CaO–CaF<sub>2</sub> based electrode coatings on weld metal chemistry and mechanical behaviour of bimetallic welds, *Journal of Manufacturing Processes*, Volume 23, August 2016, Pages 61-74, DOI: [10.1016/j.jmapro.2016.05.013](https://doi.org/10.1016/j.jmapro.2016.05.013)

**Deepak Bhandari**, Rahul Chhibber, Navneet Arora, Rajeev Mehta; Investigations on weld metal chemistry and mechanical behaviour of bimetallic welds using CaO–CaF<sub>2</sub>–SiO<sub>2</sub>–Ni based electrode coatings, *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, Volume 233, issue 4, April 2019, pp. 563–579, DOI: [10.1177/1464420716677316](https://doi.org/10.1177/1464420716677316)

**Avtar Singh**, Vinod Kumar and Neel Kanth Grover; Influence of tool pin profiles on friction stir welding with a gap for AA6082-T6 aluminium alloy, *Materials Research Express*, Volume 6, Number 8, 1-11. DOI: [10.1088/2053-1591/ab18cc](https://doi.org/10.1088/2053-1591/ab18cc)

**Avtar Singh**, Vinod Kumar and Neel Kanth Grover; A study of microstructure and mechanical properties of friction stir welding aluminium alloy AA6082 with Zn interlayer, *Materials Research Express*, Volume 6, Number 11, 1-10. DOI: [10.1088/2053-1591/ab4b1f](https://doi.org/10.1088/2053-1591/ab4b1f)

**Balraj Singh Brar**, Ravinderjit Singh Walia, V. P. Singh, Electrochemical-aided abrasive flow machining (ECA2FM) process: a hybrid machining process. *International Journal of Advanced Manufacturing Technology*, volume 79, issue 1-4, 329–342 (2015). DOI: [10.1007/s00170-015-6806-y](https://doi.org/10.1007/s00170-015-6806-y)

**Pardeep Kumar**, Buta Singh Sidhu; Characterization and High-Temperature Erosion Behaviour of HVOF Thermal Spray Cermet Coatings. *Journal of Materials Engineering and Performance*, **25**, 250–258 (January 2016). DOI: [10.1007/s11665-015-1818-1](https://doi.org/10.1007/s11665-015-1818-1)

**Jagtar Singh**, Amarpartap Singh, Tara Singh Kamal; Neurocomputational Approach for Design and Analysis of Triangular Micro-strip Antenna, *Wulfenia*, Volume 20, Issue 6, 32-42, 2013.

Swati Bansal, **Jagtar Singh Sivia**, Harminder Singh Bindra; Design, implementation and analysis of routing based attack model for delay tolerant networks for prophet routing protocol, *International Journal of Sensor Networks*, Oct. 2019 Vol.31 No.4, pp.238 – 252, DOI: [10.1504/IJSNET.2019.103492](https://doi.org/10.1504/IJSNET.2019.103492)

Swati Bansal, **Jagtar Singh Sivia**, Harminder Singh Bindra; Hybrid Fractal Antenna Using Meander and Minkowski Curves for Wireless Applications. *Wireless Personal Communications*, 109, 1471–1490 (2019), DOI: [10.1007/s11277-019-06622-5](https://doi.org/10.1007/s11277-019-06622-5)

Swati Bansal, **Jagtar Singh Sivia**, Harminder Singh Bindra; Defected Ground Based Fractal Antenna for S and C Band Applications. *Wireless Personal Communications*, 110, 109–124 (2020). DOI: [10.1007/s11277-019-06714-2](https://doi.org/10.1007/s11277-019-06714-2)

Swati Bansal, **Jagtar Singh Sivia**, Harminder Singh Bindra; SPRP: a secured routing protocol for delay tolerant networks, *International Journal of Sensor Networks*, Volume31, Issue3, pp. 156–171, 2019, DOI: [10.1504/IJSNET.2019.103043](https://doi.org/10.1504/IJSNET.2019.103043)

Balwinder Singh Brar, **Jagtar Singh Sivia**; Extended Length and Error-Correcting-Capacity of First-Order Reed–Muller Code in Extended Length Range. *Wireless Personal Communications*, (2021). DOI: [10.1007/s11277-021-08141-8](https://doi.org/10.1007/s11277-021-08141-8)

**Manpreet Kaur**, **Jagtar Singh Sivia**; Giuseppe Peano and Cantor set fractals based miniaturized hybrid fractal antenna for biomedical applications using artificial neural network and firefly algorithm, *International Journal of RF and Microwave Computer-Aided Engineering*, Volume30, Issue1, January 2020, 1-11, DOI: [10.1002/mmce.22000](https://doi.org/10.1002/mmce.22000)

**Manpreet Kaur, Jagtar Singh Sivia;** Minkowski, Giuseppe Peano and Koch curves based design of compact hybrid fractal antenna for biomedical applications using ANN and PSO, *AEÜ - International Journal of Electronics and Communications*, Volume 99, February 2019, Pages 14-24, DOI: [10.1016/j.aeue.2018.11.005](https://doi.org/10.1016/j.aeue.2018.11.005)

**Manpreet Kaur, Jagtar Singh Sivia;** ANN-based design of hybrid fractal antenna for biomedical applications, *International Journal of Electronics*, Volume 106, Issue 8, Pages 1184-1199, (2019), DOI: [10.1080/00207217.2019.1582712](https://doi.org/10.1080/00207217.2019.1582712)

Sumeet Singh Bhatia, **Jagtar Singh Sivia**, Narinder Sharma; An Optimal Design of Fractal Antenna with Modified Ground Structure for Wideband Applications. *Wireless Personal Communications*, 103, 1977–1991 (2018). DOI: [10.1007/s11277-018-5891-2](https://doi.org/10.1007/s11277-018-5891-2)

Sumeet Singh Bhatia, **Jagtar Singh Sivia;** A Novel Design of Circular Monopole Antenna for Wireless Applications. *Wireless Personal Communications*, 91, 1153–1161 (2016). DOI: [10.1007/s11277-016-3518-z](https://doi.org/10.1007/s11277-016-3518-z)

Narinder Sharma, Sumeet Singh Bhatia, Vipul Sharma, **Jagtar Singh Sivia;** An Octagonal Shaped Monopole Antenna for UWB Applications with Band Notch Characteristics. *Wireless Personal Communications*, Vol. 111, 1977–1997 (2020). DOI: [10.1007/s11277-019-06968-w](https://doi.org/10.1007/s11277-019-06968-w)

Inkwinder Singh Bangi, **Jagtar Singh Sivia;** Minkowski and Koch Curves Based Hybrid Fractal Antenna for Multiband Applications. *Wireless Personal Communications*, **108**, 2435–2448 (2019). DOI: [10.1007/s11277-019-06531-7](https://doi.org/10.1007/s11277-019-06531-7)

Inkwinder Singh Bangi, **Jagtar Singh Sivia;** Minkowski and Hilbert curves based hybrid fractal antenna for wireless applications, *AEÜ - International Journal of Electronics and Communications*, Volume 85, 2018, Pages 159-168, DOI: [10.1016/j.aeue.2018.01.005](https://doi.org/10.1016/j.aeue.2018.01.005)

**Jagtar Singh Sivia**, Gurpreet Kaur, **Amandeep Kaur Sarao;** A.K. A Modified Sierpinski Carpet Fractal Antenna for Multiband Applications. *Wireless Personal Communications* **95**, 4269–4279 (2017). DOI: [10.1007/s11277-017-4079-5](https://doi.org/10.1007/s11277-017-4079-5)

**Sunita Rani, Jagtar Singh Sivia;** Design and development of virtual instrument for fault diagnosis in fractal antenna array, *International Journal of RF and Microwave Computer-Aided Engineering*, Volume30, Issue1, January 2020, 1-10, DOI: [10.1002/mmce.22026](https://doi.org/10.1002/mmce.22026)

Karmjeet Kaur, **Jagtar Singh Sivia;** A Compact Hybrid Multiband Antenna for Wireless Applications. *Wireless Personal Communications*, 97, 5917–5927 (2017). DOI: [10.1007/s11277-017-4818-7](https://doi.org/10.1007/s11277-017-4818-7)

Navjot Kaur, **Jagtar Singh**, Mahendra Kumar; Hexagonal Ring Shaped Dual Band Antenna Using Staircase Fractal Geometry For Wireless Applications, *Wireless Personal Communications*, 113, pages 2067–2078(2020). DOI: [10.1007/s11277-019-06968-w](https://doi.org/10.1007/s11277-019-06968-w)

Sandeep Singh Sran, **Jagtar Singh Sivia**; ANN and IFS based wearable hybrid fractal antenna with DGS for S, C and X band application, *AEÜ - International Journal of Electronics and Communications*, Volume 127, 2020, 153425, DOI: [10.1016/j.aeue.2020.153425](https://doi.org/10.1016/j.aeue.2020.153425)

Sandeep Singh Sran, **Jagtar Singh Sivia**; PSO and IFS techniques for the design of wearable Hybrid Fractal Antenna, *International Journal of Electronics*, 2021, DOI: [10.1080/00207217.2021.1885067](https://doi.org/10.1080/00207217.2021.1885067)

**Jasbir Singh**, Charanjeet Singh, Dalveer Kaur, Sukhleen Bindra Narang, Rajshree B. Jotania, Amrin Kagdi, Rajat Joshi, Sergio Sombra, Di Zhou, Sergei Trukhanov, Larrisa Panina, Alex Trukhanov; Optimization of Performance Parameters of Doped Ferrite Based Microwave Absorbers; Their Structural, Tunable Reflection loss, Bandwidth and Input Impedance Characteristics, *IEEE Transactions on Magnetics*, 2021, DOI: [10.1109/TMAG.2021.3063175](https://doi.org/10.1109/TMAG.2021.3063175).

**Jasbir Singh**, Charanjeet Singh, Dalveer Kaur, Sukhleen Bindra Narang, Rajshree B. Jotania, Ebtessam Ateia, Amrin Kagdi, Rajat Joshi, A.S.B. Sombra, Di Zhou, Sergei Trukhanov, Larrisa Panina; Development of doped Ba–Sr hexagonal ferrites for microwave absorber applications: Structural characterization, tunable thickness, absorption peaks and electromagnetic parameters, *Journal of Alloys and Compounds*, Volume 855, Part 1, 2021, 157242, DOI: [10.1016/j.jallcom.2020.157242](https://doi.org/10.1016/j.jallcom.2020.157242)

Charanjeet Singh, Maria Vesna Nikolic, Sukhleen Bindra Narang, A. S. B. Sombra, Di Zhou, Sergei Trukhanov, Larrisa Panina, **Jasbir Singh**, Alex Trukhanov; Complex permittivity and complex permeability characteristics of Co–Ti doped barium strontium hexaferrite/paraffin wax composites for application in microwave devices. *Applied Physics A* 126, 850 (2020), DOI: [10.1007/s00339-020-04016-0](https://doi.org/10.1007/s00339-020-04016-0)

**Jasbir Singh**, Charanjeet Singh, Dalveer Kaur, S. Bindra Narang, Rajat Joshi, Sanjay R. Mishra, Rajshree Jotania, Madhav Ghimire, Chetna C. Chauhan; Tunable microwave absorption in CoAl substituted M-type BaSr hexagonal ferrite, *Materials & Design*, Volume 110, 2016, Pages 749-761, DOI: [10.1016/j.matdes.2016.08.049](https://doi.org/10.1016/j.matdes.2016.08.049)

**Jasbir Singh**, Charanjeet Singh, Dalveer Kaur, Hesham Zaki, I.A. Abdel-Latif, S. Bindra Narang, Rajshree Jotania, Sanjay R. Mishra, Rajat Joshi, Preksha Dhruv, Madhav Ghimire, Sagar E. Shirsath', S.S. Meena; Elucidation of phase evolution, microstructural, Mössbauer and magnetic properties of Co<sup>2+</sup>+Al<sup>3+</sup> doped M-type BaSr hexaferrites synthesized by a ceramic method, *Journal of Alloys and Compounds*, Volume 695, 2017, Pages 1112-1121, DOI: [10.1016/j.jallcom.2016.10.237](https://doi.org/10.1016/j.jallcom.2016.10.237)

**Jasbir Singh**, Charanjeet Singh, Dalveer Kaur, Sukhleen Bindra Narang, Rajshree Jotania, Rajat Joshi; Investigation on structural and microwave absorption property of Co<sup>2+</sup> and

Y<sup>3+</sup> substituted M-type Ba-Sr hexagonal ferrites prepared by a ceramic method, *Journal of Alloys and Compounds*, Volume 695, 2017, Pages 792-798, DOI: [10.1016/j.jallcom.2016.09.251](https://doi.org/10.1016/j.jallcom.2016.09.251)

**Jasbir Singh**, Charanjeet Singh, Dalveer Kaur, Sukhleen Bindra Narang, Rajshree Jotania & Rajat Joshi; Microwave absorbing characteristics in Co<sup>2+</sup> and Al<sup>3+</sup> substituted Ba<sub>0.5</sub>Sr<sub>0.5</sub>Co<sub>x</sub>Al<sub>x</sub>Fe<sub>12-2x</sub>O<sub>19</sub> hexagonal ferrite. *Journal of Materials Science: Materials in Electronics*, Volume 28, pages 2377–2384, (2017). DOI: [10.1007/s10854-016-5807-4](https://doi.org/10.1007/s10854-016-5807-4)

Rajat Joshi, Charanjeet Singh, Dalveer Kaur, Hesham Zaki, Sukhleen Bindra Narang, Rajshree Jotania, Sanjay R. Mishra, **Jasbir Singh**, Preksha Dhruv, Madhav Ghimire; Structural and magnetic properties of Co<sup>2+</sup>-W<sup>4+</sup> ions doped M-type Ba-Sr hexaferrites synthesized by a ceramic method, *Journal of Alloys and Compounds*, Volume 695, 2017, Pages 909-914, DOI: [10.1016/j.jallcom.2016.10.192](https://doi.org/10.1016/j.jallcom.2016.10.192)

Rajat Joshi, Charanjeet Singh, **Jasbir Singh**, Dalveer Kaur, S. Bindra Narang, Rajshree B. Jotania; A study of microwave absorbing properties in Co–Gd doped M-type Ba–Sr hexaferrites prepared using ceramic method. *Journal of Materials Science: Materials in Electronics* 28, 11969–11978 (August 2017). DOI: [10.1007/s10854-017-7006-3](https://doi.org/10.1007/s10854-017-7006-3)

Rajat Joshi, Charanjeet Singh, Dalveer Kaur, Sukhleen Bindra Narang, Rajshree Jotania, **Jasbir Singh**; Microwave absorption characteristics of Co<sup>2+</sup> and W<sup>4+</sup> substituted M-type Ba<sub>0.5</sub>Sr<sub>0.5</sub>Co<sub>x</sub>W<sub>x</sub>Fe<sub>12-2x</sub>O<sub>19</sub> hexagonal ferrites. *Journal of Materials Science: Materials in Electronics* 28, 228–235 (January 2017). DOI: [10.1007/s10854-016-5515-0](https://doi.org/10.1007/s10854-016-5515-0)

Preksha N. Dhruv, Robert C. Pullar, Charanjeet Singh, Francisco E. Carvalho, Rajshree B. Jotania, Sher Singh Meena, **Jasbir Singh**; Design and development of Ga-substituted Z-type hexaferrites for microwave absorber applications: Mössbauer, static and dynamic properties, *Ceramics International*, Volume 47, Issue 1, 2021, Pages 1145-1162, DOI: [10.1016/j.ceramint.2020.08.231](https://doi.org/10.1016/j.ceramint.2020.08.231)

Luís P. Castro, **Navdeep Goel**, Anabela S. Silva; A new convolution operator for the linear canonical transform with applications, *Computational & Applied Mathematics*, 40, 95, 2021. DOI: [10.1007/s40314-021-01484-9](https://doi.org/10.1007/s40314-021-01484-9)

**Navdeep Goel**, Kulbir Singh; Analysis of Dirichlet, Generalized Hamming and Triangular window functions in the linear canonical transform domain. *Signal, Image and Video Processing* 7, 911–923 (September 2013). DOI: [10.1007/s11760-011-0280-2](https://doi.org/10.1007/s11760-011-0280-2)

**Navdeep Goel**, Kulbir Singh; A modified convolution and product theorem for the linear canonical transform derived by representation transformation in quantum mechanics. *International Journal of Applied Mathematics and Computer Science* Volume 23 Number 3 - September 2013 685–695, DOI: [10.2478/amcs-2013-0051](https://doi.org/10.2478/amcs-2013-0051)

**Navdeep Goel**, Kulbir Singh; Modified correlation theorem for the linear canonical transform with representation transformation in quantum mechanics. *Signal, Image and Video Processing* 8, 595–601 (March 2014). DOI: [10.1007/s11760-013-0564-9](https://doi.org/10.1007/s11760-013-0564-9)

**Navdeep Goel**, Kulbir Singh; Convolution and correlation theorems for the offset fractional Fourier transform and its application, *AEU - International Journal of Electronics and Communications*, Volume 70, Issue 2, 2016, pp.138-150, DOI: [10.1016/j.aeue.2015.10.009](https://doi.org/10.1016/j.aeue.2015.10.009)

**Navdeep Goel**, Kulbir Singh, Rajiv Saxena, Ashutosh Kumar Singh; Multiplicative filtering in the linear canonical transform domain *IET Signal Processing* Volume 10, Issue 2, April 2016, p. 173 – 181 DOI: [10.1049/iet-spr.2015.0035](https://doi.org/10.1049/iet-spr.2015.0035)

Yong Guo, Bing-Zhao Li, **Navdeep Goel**; Optimised blind image watermarking method based on firefly algorithm in DWT-QR transform domain *IET Image Processing*, vol. 11, no. 6, pp. 406-415, June 2017 DOI: [10.1049/iet-ipr.2016.0515](https://doi.org/10.1049/iet-ipr.2016.0515)

**Navdeep Goel**, Jatinder Singh; Analysis of Kaiser and Gaussian Window Functions in the Fractional Fourier Transform Domain and Its Application. *Iranian Journal of Science and Technology, Transactions of Electrical Engineering* 43, 181–188 (June 2019). DOI: [10.1007/s40998-018-0100-6](https://doi.org/10.1007/s40998-018-0100-6)

**Navdeep Goel**, Harpreet Kaur, Jyoti Saxena; Modified decision based unsymmetric adaptive neighborhood trimmed mean filter for removal of very high density salt and pepper noise, *Multimedia Tools and Applications* volume 79, pages 19739–19768 (2020) DOI: [10.1007/s11042-020-08687-y](https://doi.org/10.1007/s11042-020-08687-y)

**Navdeep Goel**, Salvador Gabarda, Kulbir Singh; Chirp multiplexing and filtering in the offset linear canonical transform domain, *Optik*, 2020, Article 165482, DOI: [10.1016/j.ijleo.2020.165482](https://doi.org/10.1016/j.ijleo.2020.165482)

**Yadvinder Kumar**, Surinder Singh Sodhi; A Compact Multiband Hybrid Fractal Antenna for Multistandard Mobile Wireless Applications. *Wireless Personal Communications* 84, 57–67 (September 2015). DOI: [10.1007/s11277-015-2593-x](https://doi.org/10.1007/s11277-015-2593-x)

**Yadvinder Kumar**, Surinder Singh Sodhi; Microstrip Fed Multiband Hybrid Fractal Antenna for Wireless Applications, *Applied Computational Electromagnetics Society Journal*. vol. 31, no. 3, pp. 327-132, 2016

**Yadvinder Kumar**, Surinder Singh Sodhi; Performance Analysis of Coaxial Probe Fed Modified Sierpinski–Meander Hybrid Fractal Heptaband Antenna for Future Wireless Communication Networks. *Wireless Personal Communications* 94, 3251–3263 (June 2017). DOI: [10.1007/s11277-016-3775-x](https://doi.org/10.1007/s11277-016-3775-x)

**Candy Goyal**, Jagpal Singh Ubhi, Balwinder Raj; A low leakage TG-CNTFET-based inexact full adder for low power image processing applications, *International Journal of Circuit Theory and Applications*, Volume 47, Issue 9, September 2019, Pages 1446-1458. DOI: [10.1002/cta.2672](https://doi.org/10.1002/cta.2672)

**Candy Goyal**, Jagpal Singh Ubhi, Balwinder Raj; Low Leakage Zero Ground Bounce Noise Nanoscale Full Adder Using Source Biasing Technique, *Journal of Nanoelectronics and Optoelectronics*, Volume 14, Number 3, March 2019, pp. 360-370(11), DOI: [10.1166/jno.2019.2504](https://doi.org/10.1166/jno.2019.2504)

**Candy Goyal**, Jagpal Singh Ubhi, Balwinder Raj; A Reliable Leakage Reduction Technique for Approximate Full Adder with Reduced Ground Bounce Noise, *Mathematical Problems in Engineering*, Volume 2018, Article ID 3501041, 16 pages. DOI: [10.1155/2018/3501041](https://doi.org/10.1155/2018/3501041)

**Ashwani Kumar**, Amar Partap Singh; Fuzzy classifier for fault diagnosis in analog electronic circuits, *ISA Transactions*, Volume 52, Issue 6, 2013, pp. 816-824, DOI: [10.1016/j.isatra.2013.06.006](https://doi.org/10.1016/j.isatra.2013.06.006)

**Ashwani Kumar**, Amar Partap Singh; Transistor level fault diagnosis in digital circuits using artificial neural network, *Measurement*, Volume 82, 2016, pp.384-390, DOI: [10.1016/j.measurement.2015.12.045](https://doi.org/10.1016/j.measurement.2015.12.045)

Munish Kumar, **Simpel Rani Jindal**; A Study on Recognition of Pre-segmented Handwritten Multi-lingual Characters. *Archives of Computational Methods in Engineering* **27**, 577–589 (2020). DOI: [10.1007/s11831-019-09332-0](https://doi.org/10.1007/s11831-019-09332-0)

Munish Kumar, M. K. Jindal, R. K. Sharma, **Simpel Rani Jindal**; Character and numeral recognition for non-Indic and Indic scripts: a survey. *Artificial Intelligence Review*, Volume 52, issue 4, 2235–2261, (December 2019). DOI: [10.1007/s10462-017-9607-x](https://doi.org/10.1007/s10462-017-9607-x)

Munish Kumar, M. K. Jindal, R. K. Sharma, **Simpel Rani Jindal**; Performance evaluation of classifiers for the recognition of offline handwritten Gurmukhi characters and numerals: a study. *Artificial Intelligence Review*, Volume 53, issue 3, 2075-2097, (March 2020), DOI: [10.1007/s10462-019-09727-2](https://doi.org/10.1007/s10462-019-09727-2)

Munish Kumar, M. K. Jindal, R. K. Sharma, **Simpel Rani Jindal**; Offline Handwritten Numeral Recognition using Combination of Different Feature Extraction Techniques. *National Academy Science Letters*, Volume 41, issue 1, 29–33 (February 2018). DOI: [10.1007/s40009-017-0606-x](https://doi.org/10.1007/s40009-017-0606-x)

Munish Kumar, M. K. Jindal, R. K. Sharma, **Simpel Rani Jindal**; A novel framework for writer identification based on pre-segmented Gurmukhi characters. *Sādhanā* Volume 43, issue 12, 197 (December 2018). DOI: [10.1007/s12046-018-0966-z](https://doi.org/10.1007/s12046-018-0966-z)

Munish Kumar, **Simpel Rani Jindal**; Fusion of RGB and HSV colour space for foggy image quality enhancement. *Multimedia Tools and Applications*, Volume 78, issue 8, 9791–9799 (April 2019). DOI: [10.1007/s11042-018-6599-8](https://doi.org/10.1007/s11042-018-6599-8)

Munish Kumar, **Simpel Rani Jindal**, M. K. Jindal, Gurpreet Singh Lehal; Improved Recognition Results of Medieval Handwritten Gurmukhi Manuscripts Using Boosting and Bagging Methodologies, *Neural Processing Letters*, Volume 50, issue 1, 43–56 (August 2019). DOI: [10.1007/s11063-018-9913-6](https://doi.org/10.1007/s11063-018-9913-6)

Munish Kumar, **Simpel Rani Jindal**; Devanagari Handwriting Grading System Based on Curvature Features, *Computer Modeling in Engineering & Sciences*, vol.113, no. 2, April 2017, pp. 195-202, DOI:10.3970/cm.es.2017.113.201

Shelly Garg, **Balkrishan Jindal**; Skin lesion segmentation using k-mean and optimized fire fly algorithm. *Multimedia Tools and Applications* (2020). DOI: [10.1007/s11042-020-10064-8](https://doi.org/10.1007/s11042-020-10064-8)

Mandeep Kaur Ghumman, Satvir Singh, Navtej Singh, **Balkrishan Jindal**; Optimization of parameters for improving the performance of EEG-based BCI system. *Journal of Reliable Intelligent Environments* (2020). DOI: [10.1007/s40860-020-00117-y](https://doi.org/10.1007/s40860-020-00117-y)

**Balkrishan** and Amar Partap Singh; Hiding Data in Digital Image with Multi Layer Security, *Wulfenia*, 21(5): 47-63. 2014

**Balkrishan** and Amar Partap Singh; Concealing data in a digital image with multilayer security. *Multimedia Tools and Applications*, 75, 7045–7063 (June 2016). DOI: [10.1007/s11042-015-2631-4](https://doi.org/10.1007/s11042-015-2631-4)

**Sukhwinder Singh Sran**, Jagpreet Singh, Lakhwinder Kaur; Aggregation Aware Early Event Notification Technique for Delay Sensitive Applications in Wireless Sensor Networks *International Journal of Sensor Networks*, 2018 Vol.28 No.1, pp.11 - 21 DOI: [10.1504/IJSNET.2018.094698](https://doi.org/10.1504/IJSNET.2018.094698)

Raj Pal Sharma, **Anju Saini**, Jitendra Kumar, Santosh Kumar, Paloth Venugopalan, Valeria Ferretti; Coordination complexes of copper(II) with herbicide-trichlorophenoxyacetate: Syntheses, characterization, single crystal X-ray structure and packing analyses of monomeric  $[\text{Cu}(\gamma\text{-pic})_3(2,4,5\text{-trichlorophenoxyacetate})]\cdot\text{H}_2\text{O}$ ,  $[\text{trans-Cu}(\text{en})_2(2,4,5\text{-trichlorophenoxyacetate})_2]\cdot 2\text{H}_2\text{O}$  and dimeric  $[\text{Cu}_2(\text{H}_2\text{tea})_2(2,4,5\text{-trichlorophenoxyacetate})_2]\cdot 2(\text{H}_2\text{O})$ , *Inorganica Chimica Acta*, Volume 457, 2017, Pages 59-68, DOI: [10.1016/j.ica.2016.12.008](https://doi.org/10.1016/j.ica.2016.12.008)

Raj Pal Sharma, **Anju Saini**, Santosh Kumar, Jitendra Kumar, Ranganathan Sathishkumar, Paloth Venugopalan; Non-covalent interactions in 2-methylimidazolium copper(II) complex  $(\text{MeImH})_2[\text{Cu}(\text{pfbz})_4]$ : Synthesis, characterization, single crystal X-ray structure

and packing analysis, *Journal of Molecular Structure*, Volume 1128, 2017, Pages 135-141, DOI: [10.1016/j.molstruc.2016.08.053](https://doi.org/10.1016/j.molstruc.2016.08.053)

Raj Pal Sharma, **Anju Saini**, Santosh Kumar, Jitendra Kumar, Paloth Venugopalan, Vijay Singh Gondil, Sanjay Chhibber, Thammarat Aree; Diaquabis(ethylenediamine)copper(II) vs. monoquabis(ethylenediamine)copper(II): Synthesis, characterization, single crystal X-ray structure determination, theoretical calculations and antimicrobial activities of  $[\text{Cu}(\text{en})_2(\text{H}_2\text{O})_2](2\text{-phenoxybenzoate})_2 \cdot 2\text{H}_2\text{O}$  and  $[\text{Cu}(\text{en})_2(\text{H}_2\text{O})](\text{diphenylacetate})_2 \cdot 3\text{H}_2\text{O}$ , *Polyhedron*, Volume 123, 2017, Pages 430-440, DOI: [10.1016/j.poly.2016.11.042](https://doi.org/10.1016/j.poly.2016.11.042)

Raj Pal Sharma, **Anju Saini**, Santosh Kumar, Paloth Venugopalan, Guo Yanan, Jihong Yu, Valeria Ferretti; 2-Chloro-4-fluorobenzoate vs. 2,4-dichlorobenzoate: A comparative study of non-covalent interactions in copper(II) 2-chloro-4-fluorobenzoate and copper(II) 2,4-dichlorobenzoate complexes with nitrogen-donor ligands, *Inorganica Chimica Acta*, Volume 442, 2016, Pages 37-45, DOI: [10.1016/j.ica.2015.11.020](https://doi.org/10.1016/j.ica.2015.11.020)

**Anju Saini**, Raj Pal Sharma, Santosh Kumar, Paloth Venugopalan, Alexander I. Gubanov, Anton I. Smolentsev; Two new isomeric copper(II) complexes: Syntheses, spectroscopic characterization, single crystal X-ray structure determination and packing analyses of  $[\text{Cu}(\text{L}_1/\text{L}_2)_2(\text{TEMED})]$ , where  $\text{L}_1=4\text{-chloro-2-nitrobenzoate}$ ,  $\text{L}_2=5\text{-chloro-2-nitrobenzoate}$  and  $\text{TEMED}=\text{N,N,N',N'}$ -tetramethylethylenediamine, *Polyhedron*, Volume 100, 2015, Pages 155-163, DOI: [10.1016/j.poly.2015.06.034](https://doi.org/10.1016/j.poly.2015.06.034)

**Anju Saini**, Raj Pal Sharma, Santosh Kumar, Paloth Venugopalan, Przemysław Starynowicz, Julia Jezierska; Role of non-covalent interactions in three copper(II) 5-chloro-2-nitrobenzoate complexes with N-donor ligands: Syntheses, characterization and packing analyses of  $\text{trans-}[\text{Cu}(\beta\text{-pic})_2(\text{H}_2\text{O})_2(5\text{-chloro-2-nitrobenzoate})_2]$ ,  $\text{trans-}[\text{Cu}(\gamma\text{-pic})_2(5\text{-chloro-2-nitrobenzoate})_2]$  and  $[\text{trans-Cu}(\text{en})_2(\text{H}_2\text{O})_2](5\text{-chloro-2-nitrobenzoate})_2 \cdot 2\text{H}_2\text{O}$ , *Inorganica Chimica Acta*, Volume 436, 2015, Pages 169-178, DOI: [10.1016/j.ica.2015.07.034](https://doi.org/10.1016/j.ica.2015.07.034)

Santosh Kumar, Raj Pal Sharma, **Anju Saini**, Paloth Venugopalan, Przemysław Starynowicz; Synthesis, characterization, single crystal X-ray structure determination and packing analysis of thallium(I) anthracene-9-carboxylate,  $[\text{Tl}_4(\text{H}_2\text{O})_2(\text{anthracene-9-carboxylate})_4]$ , *Journal of Molecular Structure*, Volume 1079, 2015, Pages 291-297, DOI: [10.1016/j.molstruc.2014.09.027](https://doi.org/10.1016/j.molstruc.2014.09.027)

Santosh Kumar, Raj Pal Sharma, **Anju Saini**, Paloth Venugopalan, Valeria Ferretti; Design and construction of two rare aqua bridged copper (II) coordination polymers through mixed ligand strategy: Synthesis, characterization and single crystal X-ray structure determination of  $[\text{Cu}(2\text{-iodobenzoate})_2(\beta/\gamma\text{-picoline})_2(\mu\text{-H}_2\text{O})]_n$ , *Journal of Molecular Structure*, Volume 1083, 2015, Pages 398-404, DOI: [10.1016/j.molstruc.2014.11.017](https://doi.org/10.1016/j.molstruc.2014.11.017)

Raj Pal Sharma, Santosh Kumar, **Anju Saini**, Paloth Venugopalan, A. Rodríguez-Diéguez, J.M. Salas; Cation–anion interactions via hydrogen bonding; synthesis, characterization and single crystal X-ray structure of [Cu(phen)<sub>3</sub>](1,3-benzenedisulphonate)·7H<sub>2</sub>O, *Journal of Molecular Structure*, Volume 1071, 2014, Pages 11-17, DOI: [10.1016/j.molstruc.2014.04.046](https://doi.org/10.1016/j.molstruc.2014.04.046)

Raj Pal Sharma, **Anju Saini**, Santosh Kumar, Paloth Venugopalan, Valeria Ferretti; Isolation of two rare aqua-bridged zigzag copper(II) coordination polymers: Syntheses, characterization and X-ray structures of [Cu(2-bromobenzoate)<sub>2</sub>(β/γ-picoline)<sub>2</sub>(μ-H<sub>2</sub>O)]<sub>n</sub>, *Journal of Molecular Structure*, Volume 1060, 2014, Pages 256-263, DOI: [10.1016/j.molstruc.2013.12.033](https://doi.org/10.1016/j.molstruc.2013.12.033)

Raj Pal Sharma, **Anju Saini**, Santosh Kumar, Paloth Venugopalan, Valeria Ferretti; Synthesis, characterization, single crystal structure and DFT calculations of [Cu(temed)(H<sub>2</sub>O)<sub>4</sub>](1,5-naphthalenedisulphonate)·2H<sub>2</sub>O, *Journal of Molecular Structure*, Volume 1067, 2014, Pages 210-215, DOI: [10.1016/j.molstruc.2014.03.034](https://doi.org/10.1016/j.molstruc.2014.03.034)

Raj Pal Sharma, **Anju Saini**, D. Monga, Paloth Venugopalan, J. Jezierska, A. Ozarowski, Valeria Ferretti; Influence of nitrogen donor ligands on the coordination modes of copper(II) 2-nitrobenzoate complexes: structures, DFT calculations and magnetic properties, *New Journal of Chemistry* 38 (1), 437-447, (2014), DOI: [10.1039/c3nj00736g](https://doi.org/10.1039/c3nj00736g)

Raj Pal Sharma, **Anju Saini**, Paloth Venugopalan, Valeria Ferretti, Federico Spizzo, Celestino Angeli, Carmen J. Calzado; Magnetic behaviour vs. structural changes in an isomeric series of binuclear copper(ii) complexes: an experimental and theoretical study", *New Journal of Chemistry* 38 (2), 574-583, 2014, DOI: [10.1039/C3NJ01080E](https://doi.org/10.1039/C3NJ01080E)

Raj Pal Sharma, **Anju Saini**, Paloth Venugopalan, Sadhika Khullar, Sanjay Mandal; Synthesis, characterization, crystal structure and BSA binding studies of two novel copper(II) complexes: [trans-Cu(en)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>](p-methoxycinnamate)<sub>2</sub> and [trans-Cu(en)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>](p-nitrocinnamate)<sub>2</sub>·2H<sub>2</sub>O, *Polyhedron*, Volume 56, 2013, Pages 34-43, DOI: [10.1016/j.poly.2013.03.040](https://doi.org/10.1016/j.poly.2013.03.040)

Raj Pal Sharma, **Anju Saini**, Paloth Venugopalan, Julia Jezierska, Valeria Ferretti; Rare monomeric–dimeric copper(II) cinnamate complexes in one single crystal: Syntheses, characterization, structure determination and DFT studies of two copper(II) complexes, *Inorganic Chemistry Communications*, Volume 20, 2012, Pages 209-213, DOI: [10.1016/j.inoche.2012.03.010](https://doi.org/10.1016/j.inoche.2012.03.010)

Raj Pal Sharma, **Anju Saini**, Paloth Venugopalan, Valeria Ferretti, Concomitant formation of differently coordinated copper(II) complexes in the same reaction: Structural studies of [trans-Cu(γ-picoline)<sub>2</sub>(H<sub>2</sub>O)<sub>4</sub>](p-toluene sulfonate)<sub>2</sub>·2H<sub>2</sub>O and [trans-Cu(γ-

picoline)4](p-toluenesulfonate)2·2H2O, *Journal of Molecular Structure*, Volume 1015, 2012, Pages 166-172, DOI: [10.1016/j.molstruc.2011.09.042](https://doi.org/10.1016/j.molstruc.2011.09.042)

Raj Pal Sharma, **Anju Saini**, Sukhjinder Singh, Ajnesh Singh, Paloth Venugoplan, Przemysław Starynowicz, Julia Jezierska; Synthesis, characterization, single crystal X-ray structural studies and packing analyses of two novel copper(II) complexes: [Cu(2-Cl-5-FC7H3O2)2(β-picoline)2(H2O)2] and [Cu(en)2(H2O)2](2-Cl-5-FC7H3O2)2, *Journal of Molecular Structure*, Volume 988, Issues 1–3, 2011, Pages 9-16, DOI: [10.1016/j.molstruc.2010.11.052](https://doi.org/10.1016/j.molstruc.2010.11.052)

Raj Pal Sharma, **Anju Saini**, Sukhjinder Singh, Ajnesh Singh, Paloth Venugopalan, Przemysław Starynowicz, Julia Jezierska; Spectra–structure relationship: Syntheses, characterization, single crystal X-ray structural studies and packing analyses of two novel copper(II) complexes: [Cu(pyridine)2(H2O)4](p-toluenesulfonate)2 and [Cu(β-picoline)2(H2O)4](p-toluenesulfonate)2, *Journal of Molecular Structure*, Volume 994, Issues 1–3, 2011, Pages 21-28, DOI: [10.1016/j.molstruc.2011.02.043](https://doi.org/10.1016/j.molstruc.2011.02.043)

Raj Pal Sharma, Ajnesh Singh, **Anju Saini**, Paloth Venugopalan, Valeria Ferretti; A rational synthesis of new anion [HgBr4Cl]3–: Synthesis, characterization and single crystal X-ray structure determination of [Co(NH3)6][HgBr4Cl], *Inorganic Chemistry Communications*, Volume 14, Issue 1, 2011, Pages 1-4, DOI: [10.1016/j.inoche.2010.08.002](https://doi.org/10.1016/j.inoche.2010.08.002)

Raj Pal Sharma, Rajni Sharma, Ajnesh Singh, **Anju Saini**, Alexander I. Gubanov, Anton I. Smolentsev, Paloth Venugopalan; Isolation of a new bromocadmate(II) anion stabilized by second sphere coordination: [Co(NH3)6]2[Cd3Br10(H2O)2]Br2·2H2O, *Journal of Molecular Structure*, Volume 980, Issues 1–3, 2010, Pages 261-266, DOI: [10.1016/j.molstruc.2010.07.029](https://doi.org/10.1016/j.molstruc.2010.07.029)

Raj Pal Sharma, **Anju Saini**, Sukhjinder Singh, Paloth Venugopalan, Valeria Ferretti; Two new second sphere coordination complexes of copper(II): Syntheses, characterization, single crystal structure and packing analyses of [trans-Cu(en)2(H2O)2](L1/L2)2 where L1=3-methoxybenzoate, L2=3,4,5-trimethoxybenzoate, *Journal of Molecular Structure*, Volume 979, Issues 1–3, 2010, Pages 128-135, DOI: [10.1016/j.molstruc.2010.06.015](https://doi.org/10.1016/j.molstruc.2010.06.015)

Raj Pal Sharma, **Anju Saini**, Sukhjinder Singh, Ajnesh Singh, Paloth Venugopalan, Valeria Ferretti; Second sphere coordination complexes: Synthesis, characterization, single crystal structure and packing analyses of [trans-Cu(en)2(H2O)2](L1/L2)2 where L1=p-toluenesulphonate, L2=5-bromo-2-methoxybenzenesulphonate, *Journal of Molecular Structure*, Volume 969, Issues 1–3, 2010, Pages 155-162, DOI: [10.1016/j.molstruc.2010.01.063](https://doi.org/10.1016/j.molstruc.2010.01.063)

Raj Pal Sharma, **Anju Saini**, Sukhjinder Singh, Paloth Venugopalan, William T.A. Harrison; Segregated aromatic  $\pi$ - $\pi$  stacking interactions involving fluorinated and non-fluorinated benzene rings: Cu(py)<sub>2</sub>(pfb)<sub>2</sub> and Cu(py)<sub>2</sub>(pfb)<sub>2</sub>(H<sub>2</sub>O) (py=pyridine and pfb=pentafluorobenzoate), *Journal of Fluorine Chemistry*, Volume 131, Issue 4, 2010, Pages 456-460, DOI: [10.1016/j.jfluchem.2009.12.020](https://doi.org/10.1016/j.jfluchem.2009.12.020)

Raj Pal Sharma, Ajnesh Singh, **Anju Saini**, Paloth Venugopalan, Alessandra Molinari, Valeria Ferretti; Controlling the ligating behaviour of biologically important p-hydroxybenzoate towards copper(II) by the use of nitrogen bases: Synthesis, characterization and single crystal X-ray structure determination of [trans-Cu(en)<sub>2</sub>(H<sub>2</sub>O)<sub>2</sub>](L1)<sub>2</sub>·2H<sub>2</sub>O and [cis-Cu(L1)<sub>2</sub>(L2)<sub>2</sub>] where en=ethylenediamine, L1=p-hydroxybenzoate, L2=3-picoline, *Journal of Molecular Structure*, Volume 923, Issues 1–3, 2009, Pages 78-84, DOI: [10.1016/j.molstruc.2009.02.002](https://doi.org/10.1016/j.molstruc.2009.02.002)

Neelam Seedher, **Anju Saini**; Spectrophotometric studies on the interaction of bovine serum albumin with triphenylmethane dyes, *Indian Journal of Pharmaceutical Sciences*, Volume 60, Issue 5, pp. 297-301, Sept.-Oct. 1998.

Neelam Seedher, **Anju Saini**; Spectral Study of Dye-Surfactant Complexation, *Journal of Surface Science and Technology*, Volume 13, Issue 2/4, pp. 212-219, 1997.

Debyani Neogi, S. Singh, **Anju Saini**, R.D. Verma; Reactions of Fluorinated Acid Anhydrides with Metal Alkoxides, *Journal of Chemical Sciences*, Formerly: Proceedings Indian Academy of Sciences (Chemical Sciences), Volume 106, Issue 3, (1994), pp 807-807. DOI: [jcsc/106/03/0807-0807](https://doi.org/jcsc/106/03/0807-0807)

Gurpreet Kaur, Seema Sharma, Kirandeep Kaur, **Priti Bansal**; (2020), Synthesis, characterization, and visible-light-induced photocatalytic activity of powdered semiconductor oxides of bismuth and zinc toward degradation of Alizarin Red S. *Water Environment Research*, 92: 1376-1387. DOI: [10.1002/wer.1333](https://doi.org/10.1002/wer.1333)

Paramjeet Kaur, **Priti Bansal**, Dhiraj Sud; Photocatalytic degradation of monocrotophos using TiO<sub>2</sub> photocatalyst: identification of intermediates by chromatographic techniques and reaction pathway, *Desalination and Water Treatment*, 148 (2019), 329-337, DOI: [10.5004/dwt.2019.23830](https://doi.org/10.5004/dwt.2019.23830)

Gurpreet Kaur, Seema Sharma, **Priti Bansal**; Visible light responsive heterostructured  $\alpha$ -Bi<sub>2</sub>O<sub>3</sub>/ZnO doped  $\beta$ -Bi<sub>2</sub>O<sub>3</sub> photocatalyst for remediation of organic pollutants, *Desalination and Water Treatment*, 201 (2020) 349–355, DOI: [10.5004/dwt.2020.26062](https://doi.org/10.5004/dwt.2020.26062)

**Priti Bansal**, Navneet Bhullar, Dhiraj Sud; Studies on photodegradation of malachite green using TiO<sub>2</sub>/ZnO photocatalyst, *Desalination and Water Treatment*, vol. 12:1-3, 2009, 108-113, DOI: [10.5004/dwt.2009.944](https://doi.org/10.5004/dwt.2009.944)

**Priti Bansal**, Damanjit Singh, Dhiraj Sud; Photocatalytic degradation of azo dye in aqueous TiO<sub>2</sub> suspension: Reaction pathway and identification of intermediates products by LC/MS, *Separation and Purification Technology*, Volume 72, Issue 3, 2010, Pages 357-365, DOI: [10.1016/j.seppur.2010.03.005](https://doi.org/10.1016/j.seppur.2010.03.005)

**Priti Bansal**, Dhiraj Sud; Photodegradation of commercial dye, Procion Blue HERD from real textile wastewater using nanocatalysts, *Desalination*, Volume 267, Issues 2–3, 2011, Pages 244-249, DOI: [10.1016/j.desal.2010.09.034](https://doi.org/10.1016/j.desal.2010.09.034)

**Priti Bansal**, Amit Dhir, N. Tejo Parkash, Dhiraj Sud; Environmental remediation of wastewater containing azo dyes with a heterostructured nanophotocatalyst, *Indian Journal of Chemistry-A*, Vol. 50A:07, July 2011, pp.991-995. DOI: [handle/123456789/12173](https://doi.org/handle/123456789/12173)

**Priti Bansal**, Dhiraj Sud; Photodegradation of commercial dye, CI Reactive Blue 160 using ZnO nanopowder: Degradation pathway and identification of intermediates by GC/MS, *Separation and Purification Technology*, Volume 85, 2012, Pages 112-119, DOI: [10.1016/j.seppur.2011.09.055](https://doi.org/10.1016/j.seppur.2011.09.055)

**Priti Bansal**, Dhiraj Sud; Photocatalytic degradation of commercial dye, CI Reactive Red 35 in aqueous suspension: Degradation pathway and identification of intermediates by LC/MS, *Journal of Molecular Catalysis A: Chemical*, Volumes 374–375, 2013, Pages 66-72, DOI: [10.1016/j.molcata.2013.03.018](https://doi.org/10.1016/j.molcata.2013.03.018)

**Priti Bansal**, Paramjeet Kaur, Dhiraj Sud (2014) Heterostructured TiO<sub>2</sub>/ZnO–excellent nanophotocatalysts for degradation of organic contaminants in aqueous solution, *Desalination and Water Treatment*, vol. 52:37-39, 7004-7014, DOI: [10.1080/19443994.2013.822330](https://doi.org/10.1080/19443994.2013.822330)

**Manjit Singh**, Rajesh Kumar Gupta; A note on optimal systems of certain low-dimensional Lie algebras, *International Journal of Nonlinear Sciences and Numerical Simulation*, DOI: [10.1515/ijnsns-2017-0181](https://doi.org/10.1515/ijnsns-2017-0181)

**Manjit Singh**, Rajesh Kumar Gupta; On invariant analysis and conservation laws for degenerate coupled multi-KdV equations for multiplicity l=3, *Pramana - Journal of Physics*, Volume 92, issue 5, May 2019, 70. DOI: [10.1007/s12043-019-1730-6](https://doi.org/10.1007/s12043-019-1730-6)

**Manjit Singh**, Rajesh Kumar Gupta; Group classification, conservation laws and Painlevé analysis for Klein–Gordon–Zakharov equations in (3+1)-dimension, *Pramana - Journal of Physics*, Volume 92, issue 1, Jan 2019, 1. DOI: [10.1007/s12043-018-1665-3](https://doi.org/10.1007/s12043-018-1665-3)

**Manjit Singh**, Rajesh Kumar Gupta; Bäcklund transformations, Lax system, conservation laws and multisoliton solutions for Jimbo–Miwa equation with Bell-polynomials, *Communications in Nonlinear Science and Numerical Simulation*, Volume 37, 2016, pp. 362-373, DOI: [10.1016/j.cnsns.2016.01.023](https://doi.org/10.1016/j.cnsns.2016.01.023)

**Manjit Singh**; New exact solutions for (3+1)-dimensional Jimbo–Miwa equation. *Nonlinear Dynamics* **84**, 875–880 (April 2016), DOI: [10.1007/s11071-015-2533-z](https://doi.org/10.1007/s11071-015-2533-z)

**Manjit Singh**, Rajesh Kumar Gupta; Exact solutions for nonlinear evolution equations using novel test function. *Nonlinear Dynamics* **86**, 1171–1182 (October 2016). DOI: [10.1007/s11071-016-2955-2](https://doi.org/10.1007/s11071-016-2955-2)

Rajesh Kumar Gupta, **Manjit Singh**; Nonclassical symmetries and similarity solutions of variable coefficient coupled KdV system using compatibility method. *Nonlinear Dynamics* **87**, 1543–1552 (February 2017). DOI: [10.1007/s11071-016-3132-3](https://doi.org/10.1007/s11071-016-3132-3)

**Manjit Singh**, Rajesh Kumar Gupta; Soliton and quasi-periodic wave solutions for b-type Kadomtsev–Petviashvili equation. *Indian Journal of Physics* **91**, 1345–1354 (November 2017). DOI: [10.1007/s12648-017-1035-x](https://doi.org/10.1007/s12648-017-1035-x)

Vishal Gupta, Meenakshi Rana, **Shruti Sharma**; On weighted signed color partitions. *Proceedings - Mathematical Sciences*, 130, 10 (2020). DOI: [10.1007/s12044-019-0545-1](https://doi.org/10.1007/s12044-019-0545-1)

Meenakshi Rana, **Shruti Sharma**; Combinatorics of some fifth and sixth order mock theta functions, *Electronic Research Archive*, Vol. 29, Issue 1, March 2021, pp. 1803-1818. DOI: [10.3934/era.2020092](https://doi.org/10.3934/era.2020092)

**Shruti Sharma**, Meenakshi Rana; On mock theta functions and weight-attached Frobenius partitions, *The Ramanujan Journal*, Vol. 50, 289–303 (2019). DOI: [10.1007/s11139-018-0054-3](https://doi.org/10.1007/s11139-018-0054-3)

**Shruti Sharma**, Meenakshi Rana; A new approach in interpreting some mock theta functions, *International Journal of Number Theory*, Vol. 15, No. 7, pp. 1369-1383 (2019), DOI: [10.1142/S1793042119500763](https://doi.org/10.1142/S1793042119500763)

**Shruti Sharma**, Meenakshi Rana; Combinatorial interpretations of mock theta functions by attaching weights, *Discrete Mathematics*, Vol. 341, Issue 7, 2018, Pages 1903-1914, DOI: [10.1016/j.disc.2018.03.017](https://doi.org/10.1016/j.disc.2018.03.017)

**Shruti Sharma**, Meenakshi Rana; Interpreting some fifth and sixth order mock theta functions by attaching weights, *Journal of the Ramanujan Mathematical Society*, Vol. 34, No.4, (2019) 401–410, DOI:

**Divya Taneja**, Manish Gupta, Rajesh Narula, Jaskaran Bhullar; Construction of new quantum MDS codes derived from constacyclic codes, *International Journal of Quantum Information*, Vol. 15, No. 01, Article 1750008, (2017) DOI: [10.1142/S0219749917500083](https://doi.org/10.1142/S0219749917500083)

**K.C. Gupta**, Vinay Kanwar; Multipoint iterative method with cubic convergence, *Applied Mathematics and Computation*, Volume 179, Issue 2, 2006, Pages 606-611, DOI: [10.1016/j.amc.2005.12.002](https://doi.org/10.1016/j.amc.2005.12.002)

Balvir Singh, Paramjit Singh Tarsikka, **Lakhbir Singh**; Dielectric relaxation and ac conductivity of sodium tungsten phosphate glasses. *Pramana Journal of Physics* Vol. **59**, No. **4**, pp. 653–661 (October 2002). DOI: [10.1007/s12043-002-0075-7](https://doi.org/10.1007/s12043-002-0075-7)

Laxman Singh Dev; Upendra Verma; Venkateswarlu Annapureddy, **Lakhbir Singh**, Navneet Dabra, Jasbir Singh Hundal, R.Nath; *Journal of Nanoelectronics and Optoelectronics*, 9(3), June 2014, pp. 397-400(4) DOI: [10.1166/jno.2014.1611](https://doi.org/10.1166/jno.2014.1611)

**Lakhbir Singh, Baljinder Kaur**, Tarun Garg, Arvind Nautiyal, Navneet Dabra, Jasbir S. Hundal; Switching related activation field for polarization-reversal and for polarization-saturation in PVA based NaNO<sub>2</sub>–CsNO<sub>3</sub> mixed system composite films fabricated at moderate elevated temperature, *Ferroelectrics Letters Section*, Volume 46, Issue 4-6 (2019), Pages: 73-81, DOI: [10.1080/07315171.2019.1668681](https://doi.org/10.1080/07315171.2019.1668681)

**Lakhbir Singh, Baljinder Kaur**, Tarun Garg, Navneet Dabra, Jasbir S. Hundal; Switching related activation field for polarization-reversal and for polarization-saturation in NaNO<sub>2</sub>-PVA thin composite films, *Ferroelectrics Letters Section*, Volume 45, Issue 4-6 (2018), Pages: 84-93. DOI: [10.1080/07315171.2018.1564874](https://doi.org/10.1080/07315171.2018.1564874)

**Lakhbir Singh, Baljinder Kaur**, Tarun Garg, Navneet Dabra, Jasbir S. Hundal; Revisiting KAI theory and its application to mixed composite system “Na<sub>(1-x)</sub>Cs<sub>x</sub>NO<sub>2</sub>–PVA” fabricated at moderate elevated temperature, *Ferroelectrics*, Volume 540, Issue 1 (2019), Pages: 88-102. DOI: [10.1080/00150193.2019.1611106](https://doi.org/10.1080/00150193.2019.1611106)

**Lakhbir Singh, Baljinder Kaur**, Neeraj Kumar, Dae-Yong Jeong, Navneet Dabra, Jasbir S.Hundal; Structural Analysis of Enhanced Ferroelectricity in Nano-Composite Films of Sodium Nitrite in poly-Vinyl Alcohol Matrix Fabricated at Moderate Elevated Temperature, *International Journal of Electrochemical Science* **11**, 4037-4049 (2016). DOI: [10.20964/110353](https://doi.org/10.20964/110353)

**Baljinder Kaur, Lakhbir Singh**, Tarun Garg, Dae-Yong Jeong, Navneet Dabra, Jasbir S. Hundal; A comparative investigation of structural and optical properties of annealing modified mullite bismuth ferrite, *Ferroelectrics Letters Section*, Volume 46, Issue 1-3 (2019), Pages: 52-63, DOI: [10.1080/07315171.2019.1647722](https://doi.org/10.1080/07315171.2019.1647722)

**Baljinder Kaur, Lakhbir Singh, V. Annapu Reddy, Dae-Yong Jeong, Navneet Dabra, Jasbir Singh Hundal; AC Impedance Spectroscopy, Conductivity and Optical Studies of Sr doped Bismuth Ferrite Nanocomposites, *International Journal of Electrochemical Science* 11, 4120-4135 (2016). DOI: [10.20964/110354](https://doi.org/10.20964/110354)**