

Publications:

International Journals:

1. **Shukla D. K.** and Parameswaran V., "Epoxy composites with 200nm thick alumina platelets as reinforcements", J of Mat. Sci. 42 (15); 5964-5972, 2007. ISSN: 1573-4803, SCI, SCOPUS, DOI 10.1007/s10853-006-1110-8; IF 3.9, C-48
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3. Parameswaran V. and **Shukla D. K.**, "Evaluation of elastic modulus of epoxy reinforced with 200 nm thick alumina platelets through finite element analysis", Mat. Sci Engg. A, 527; 3792-99, 2010. ISSN: 0921-5093, SCI, SCOPUS, DOI 10.1016/j.msea.2010.03.019 IF 7.0, C-8
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5. Verma V. and **Shukla D. K.**, "Effect on micro hardness of epoxy reinforced with rod shaped nano alumina", Int. J. of Mech. Engg. & Res., 3(5); 367-370, 2013. ISSN: 2249-0019
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7. Verma V., **Shukla D. K.** and Kumar V., "Estimation of fatigue life of epoxy-alumina polymer nanocomposites", Procedia Material Science, 5; 669-678, 2014. ISSN: 2211-8128, Scopus, C-13
8. Hiremath V, Singh M. and **Shukla D. K.**, "Effect of Post Curing Temperature on Viscoelastic and Flexural Properties of Epoxy/Alumina Polymer Nanocomposites", Pro. Engg., 97; 479-87; 2014. ISSN: 1877-7058, Scopus, C-29
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11. Mishra S. K., **Shukla D. K.** and Patel R. K., "Flexural Properties of Functionally Graded Epoxy-Alumina Polymer Nanocomposite" Materials Today: Proceedings, 5(2), 8431-35, 2018/1/1. ISSN: 2214-7853, Scopus IF 1.9 C-15
12. Sharma A. Pandey A., **Shukla D. K.** and Pandey K. N., "Effect of self-Healing by Dicyclopentadiene Microcapsules on Fatigue Life of Epoxy", Materials Today: Proceedings, 5, 21256-262, 2018. ISSN: 2214-7853, Scopus IF 1.9, C-26

13. Singh A. K, Shukla D. K., Prasad N. E., "Fracture Behavior of p-Aramid and ultra high molecular weight polyethylene based hybrid composites", *Procedia Structural Integrity*, 14, 720-728, 2019. ISSN: 2452-3216, Scopus, DOI: 10.1016/j.prostr.2019.05.090 IF-0.85 C-3
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20. Verma R., Shukla M. and Shukla D. K., "Effect of glass fibre hybridization on the water absorption and thickness of alkali treated kenaf-epoxy composites" *Materials Today: Proceedings*, 44(1), 2093–96, 2021. ISSN: 2214-7853, SCOPUS <https://doi.org/10.1016/j.matpr.2020.12.181>, IF 0.85, C-16
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25. Gupta S K, **Shukla D. K.** and Gupta S., "Determination of shear-strength of steel joint bonded with epoxy/nano-Al₂O₃ adhesive using Kolsky bar", *NanoWorld J*, 9(S1), S465-S469, 2023. SCOPUS doi: 10.17756/nwj.2023-s1-089 IF 0.56
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27. Pandey A., Sharma A., **Shukla D. K.** and Pandey K. N., " Effect of Self-Healing by Dicyclopentadiene Microcapsules on Tensile and Fatigue Properties of Epoxy Composites", *Materials*, 16, 5191, 2023, ISSN: 1996-1944, SCIE, SCOPUS, <https://doi.org/10.3390/ma16145191>, IF 3.2, C10,
28. Verma R., Shukla M. and **Shukla D. K.**, "A Treatise on Mechanical Properties of Natural and Synthetic Fibre Reinforced Hybrid Polymer Composites", *Materials Today: Proceedings*, 106, 177-183, 2024, ISSN: 2214-7853, SCOPUS <https://doi.org/10.1016/j.matpr.2024.04.058>, IF 1.9, C10
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31. Pandey A., Maurya N. K., **Shukla D. K.** and Pandey K. N., " Self-Healing Capabilities in Epoxy UF–DCPD Composites by Investigating Fracture and Scratch Properties", *Polymer Engineering & Science*, 65(11), 6226-37, 2025, ISSN: 1548-2634, SCI, SCOPUS, <https://doi.org/10.1002/pen.70127>, IF 3.2,
32. Mishra M., Mishra S. B., and **Shukla D. K.**, "Erosion Performance of Microwave Processed Nickel-Base Coatings at an Elevated Temperature," *Surface Engineering*. pp. 1-14, 2025; ISSN: 1743-2944; SCIE, SCOPUS, DOI: 10.1177/02670844251401386, IF 2.6,

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1. Sharma K. K., Duggal S. K. and **Shukla D. K.**, "Effect of addition of Nanoalumina on Properties of Cement Mortar" *Civil Engineering and Construction Review*, 28 (7); 50-52; 2015. ISSN: 0975-9034

International conferences/workshops

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2. **Shukla D. K.** and Parameswaran V., “Reinforcing epoxy with nanometer size platelets: Experiments and modeling”, Proceedings Indo-Russian Workshop on Problems in Nonlinear Mechanics of Solids with Large Deformation, Nov 22-24, 2006, IIT Delhi.
3. **Shukla D. K.** and Parameswaran V., “Improvement in mechanical properties of epoxy alumina platelet composites due to functionalization”, Poster presented in International Workshop on Nanoceramics and Nanocomposites, Sep 8-9, 2007, IIT Kanpur.
4. Parameswaran V., **Shukla D. K.** and Shukla A., “Tracking high speed crack propagation using ultra high speed imaging”, Second Joint MAE/NTU-IITK workshop, 5-6 April 2008, IIT Kanpur
5. Verma V., **Shukla D. K.** and Singh H., “A Study of fatigue and fatigue crack propagation of polymer composite”, International Conference on Recent Trends in Engineering Technology and Management, Feb 26- 27, 2011, BIET Jhansi, UP, India.
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7. **Shukla D. K.** and Hiremath V., “Micromechanical Modeling of Dynamic Mechanical properties of Alumina Platelet-Reinforced Polymer Composites”, IV International Conference on Recent Advances in Composite Materials, Feb 18-21, 2013, Goa, India.
8. **Shukla D. K.** and Verma V., “Effect of Nanoparticle inclusions on some Mechanical Properties of Epoxy-Alumina Polymer Nanocomposites”, IV International Conference on Advancements in Polymeric Materials, Mar 01-03, 2013, Lucknow, India.
9. Hasan S. A. M., **Shukla D. K.** and Verma V., “Effect of Morphology of particles on tensile and fracture properties of Epoxy/ Alumina Polymer Nanocomposites” Ist International Conference on Mechanical Engineering: Emerging Trends for sustainability, Jan 29-31, 2014, MANIT Bhopal, India.
10. Hiremath V. and **Shukla D. K.**, “Evaluation of Viscoelastic Properties of Epoxy/Alumina Polymer Nanocomposites”, 2nd International Conference on Advanced Functional Materials, Feb 19-21, 2014, Thiruvananthapuram, Kerala, India.
11. Hiremath V. and **Shukla D. K.**, “Viscoelastic and Flexural Properties of Epoxy/Alumina Polymer Nanocomposites”, Advances in Materials and Processing Technologies, Nov 16-20, 2014, Dubai, UAE.
12. Hiremath V., Singh M. and **Shukla D. K.**, “Effect of post curing temperature on tensile properties of epoxy/alumina polymer nanocomposites”, International Conference on Multifunctional Materials, Structures and Applications, Dec 22-24, 2014, MNNIT Allahabad, India.

13. Mishra S. K. and **Shukla D. K.**, "Hardness and Transparency of Epoxy-Alumina Polymer Nanocomposites", International Conference on Multifunctional Materials, Structures and Applications, Dec 22-24, 2014, MNNIT Allahabad, India.
14. Gupta S K, **Shukla D. K.** and Agrawal A., "Finite Element Modelling of Polymer Nanocomposites as an Adhesive", International Conference on Advances in Materials, Manufacturing and Applications (AMMA 2015), April 9-11, 2015, NIT Tiruchirappalli, India. (ISBN 978-93-84743-68-0 © 2015 Bonfring).
15. Gupta S K, **Shukla D. K.**, "Effect of surface roughness on shear strength of adhesively bonded metal joints", International Conference and Technology Meet on Military and Marine Applications, May 23-25, 2015, IWCEM Pune, India.
16. Singh M. K., **Shukla D. K.**, and Gupta S. K., "Fracture Strength in Cleavage of Epoxy/Alumina Nanocomposite Adhesives in Bonded Aluminium Joints", International Conference on Nanotechnology for better living, May 25-29, 2016, NIT Srinagar (IIT Kanpur), India.
17. Gupta S. K., **Shukla D. K.**, and Singh M. K., "Lap Shear Strength and Fracture Toughness of Epoxy/Alumina Nanocomposite Adhesive in Bonded Aluminium Joints", Eleventh European Adhesion Conference and Thirteenth International Triennial Conference on the Science and Technology of Adhesion and Adhesives (EURADH 2016 ADHESION '16), September 21-23, 2016. Glasgow, UK.
18. Sharma A. K., Pandey A., **Shukla D. K.** and Pandey K. N., "Effect of self-Healing Dicyclopentadiene Microcapsules on Fracture Toughness of Epoxy", International Conference on Smart Engineering Materials ICSEM-2016, October 20-22, 2016, RVCE, Bengaluru, India. (Materials Today: Proceedings, Vol. 5, pp.21256-262, 2018)
19. Singh A. and **Shukla D. K.**, "Influence of Ferrite Fraction on Tensile Properties and Fatigue Crack Growth Behaviour of Nodular Cast Iron" 6th International & 27th All India Manufacturing Technology, Design and Research Conference (AIMTDR 2016), December 16-18, 2016, COE Pune, India.
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27. Gupta S. K. and **Shukla D. K.**, "Effect of loading rate on lap shear strength of steel joints bonded with epoxy/alumina nanocomposite adhesive", International Conference on Advanced Materials and Process for Defence Application, DMRL Hyderabad September 23-25, 2019.
28. Manavendra Mishra, D. K. Shukla and S.B. Mishra, "An Overview on the Erosion Wear Behaviour of Microwave Cladding," Sixth Asian Conference on Heat Treatment and Surface Engineering, Organized by ASM International Chennai Chapter in association with International Federation of Heat Treatment and Surface Engineering (IFHTSE) held at Chennai Trade Centre, Chennai, India during March 5-7, 2020.
29. Verma R., Shukla M. and **Shukla D. K.**, "Effect of glass fibre hybridization on the water absorption and thickness of alkali treated kenaf-epoxy composites" 11th International Conference on Materials Processing and Characterization (ICMPC - 2020) 15-17 Dec 2020, IIT Indore. Materials Today: Proceedings, Vol. 44(1), 2093–96, 2020. <https://doi.org/10.1016/j.matpr.2020.12.181>
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31. Ram S. D., **Shukla D. K.** and Gupta A., "Fatigue strength of copper and mild steel single lap joints bonded with epoxy-alumina nanocomposite adhesive", 2nd International Conference on Materials Science & Engineering (ICMSE-2022), June 11-12, 2022, NIT Jalandhar. *IOP Conf. Ser.: Mater. Sci. Eng.* **1248** 012091
32. Verma R., Shukla M. and **Shukla D. K.**, "A Treatise on Mechanical Properties of Natural and Synthetic Fibre Reinforced Hybrid Polymer Composites", 1ST International Conference on Advances in Biopolymers and Composites: Health,

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33. Gupta S K, **Shukla D. K.** and Gupta S., "Determination of shear-strength of steel joint bonded with epoxy/nano-Al₂O₃ adhesive using Kolsky bar", International Conference on Innovations in Mechanical and Materials Engineering (IMME-2022), Nov 4-6, 2022, MNNIT Allahabad.
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 36. Roy S. and **Shukla D. K.**, "Load Carrying Capacity of Repaired Al7075-T6 Alloy through Carbon Fiber Reinforced Epoxy Patch", International Conference on Composites: Design, Processing, Manufacturing and Health Monitoring (CDPMHM 2024), June 20-21, 2024, IIT Mandi, HP.
 37. Srinidhi M., **Shukla D. K.** and Bhandari R, "Enhancing Corrosion Resistance of Aluminum 6082 in Aqueous Urea Solution: A Cost-Effective Polymeric Coating Approach", International Conference on Composites: Design, Processing, Manufacturing and Health Monitoring (CDPMHM 2024), June 20-21, 2024, IIT Mandi, HP.
 38. Sharma S., Tripathi V. and **Shukla D. K.**, "Nano-cellulose reinforced PLA films for Carry Bags", 16th International Conference, APM-2025, themed "Advancement in the Petrochemical Sector & Empowering Sustainable Development Leading to 'Viksit Bharat,' (APM-2025), March 8-10, 2025, CIPET:IPT, Lucknow, UP.
 39. Roy S. and **Shukla D. K.**, "Enhancing Al7075-T6 fracture toughness using CFRP patch repair: an effect of ply count and adhesive thickness", 8th International Conference on Recent Advances in Composites Materials (ICRACM 2025), December 02-04, 2025, IIT BHU, Varanasi.
 40. Tripathi V. Sharma S., and **Shukla D. K.**, "Enhancement of mechanical and thermal properties of PLA Bio-composites using cellulose nanoparticles for packaging application", 16th International Conference, 8th International Conference on Recent Advances in Composites Materials (ICRACM 2025), December 02-04, 2025, IIT BHU, Varanasi.

National conferences/workshop

1. Kumar A. and **Shukla D. K.**, "Stress-Strain Curve of Polymer Nanocomposites by Finite Element Modeling", Indian Conference on Applied Mechanics (INCAM) 2013, 4 – 6 July 2013, IIT Madras, India.
2. Sharma A. K., Pandey A., **Shukla D. K.** and Pandey K. N., "Self-healing in epoxy/microcapsules composites: Effect on Fracture Toughness", National

Workshop on Fatigue and Fracture of Engineering Materials and Structures, Dec. 17-18, 2014, MNNIT Allahabad, India.

3. Sharma K. K., Duggal S. K. and **Shukla D. K.**, "Effect of addition of Nanoalumina on Properties of Cement Mortar" Innovative Building Materials & Technology for sustainable Constructions (BMTSC-2015), IET Lucknow, 22-23 August, 2015, Pg. 55-58.
4. Mishra S. K. and **Shukla D. K** and Patel R. K., " Fracture toughness of functionally graded epoxy- alumina polymer nanocomposites", Indian Conference on Applied Mechanics (INCAM) 2017, July 05-07, 2017, MNNIT Allahabad, India.
5. Mishra S. K. and **Shukla D. K** and Patel R. K., "Functionally Graded Epoxy-Alumina polymer nanocomposite under low velocity impact", National Conference on Industrial Application of Nanoscience and Nanotechnology (IANN-2019), November 15-16, 2019, MNNIT Allahabad, India.