

List of Publications

Patent

1. **“A Composition for the development of Paver Block utilizing cement-free concrete with waste aggregates and a process for the preparation thereof”** by **Prof. Satadru Das Adhikary** and Dipanshu Jain (PhD student); Indian Patent Application Number: 202531006117; Status: Published on 31.01.2025 (Indian Patent)
2. **“A cement-free mortar (CFM) composition”** by **Prof. Satadru Das Adhikary** and Dipanshu Jain (PhD student); Indian Patent Application Number: 202431006089; Status: Published on 16.02.2024 (Indian Patent)

Copyright

1. **TZTFM: “A GUI-based computer program for predicting the nominal and travelling fire inside concrete compartment”**; by Dr. Umang Pulkit and **Prof. Satadru Das Adhikary**, Copyright Diary Number: 33764/2024-CO/SW dated 25.10.2024
2. **STRUCT-FIRE: “A GUI-based computer program for analysis of reinforced concrete flexural members exposed to fire”**; by Dr. Umang Pulkit and **Prof. Satadru Das Adhikary**, Copyright Diary Number: 34108/2024-CO/L dated 29.10.2024

Development of Computer Program

1. **FRAG-BLAST: “A novel GUI based computer program developed to assist with the design and the analysis of reinforced concrete structures subjected to cased and uncased explosive charges”**; PhD Student: Dr. Abhiroop Goswami, Guide: **Prof. Satadru Das Adhikary**, 2022
2. **CALCI-BLAST: “A novel GUI based computer program for quantification of the blast loading parameters due to the detonation of uncased high explosive charges”**; PhD Student: Dr. Abhiroop Goswami, Guide: **Prof. Satadru Das Adhikary**, 2022

List of Publications: Total No. of Publications: 73; No. of citations: 1108; h-Index: 13; i10 Index: 15

Citations (Google Scholar): [Click here](#)

Total Number of Citations	1108
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i-10 index	15

International Journal Articles

1. Jain, D. and Adhikary, S.D. (2025) “Development of Fully Waste-Based One-Part Geopolymer Concrete Utilizing Basalt Waste Dust and Steel Slag Aggregate” *Construction and Building Materials Journal*, DOI: <https://doi.org/10.1016/j.conbuildmat.2025.143204>, **Impact Factor – 8.0 (Q1)**
2. Kumar, A., Pulkit, U., Goel, M.D and Adhikary, S.D., (2025) “Effect of Contact Explosions on Cratering, Spalling and Breaching Damage of Concrete Components: Critical Review, Recent Advancements and Future Perspectives.” *ASCE Journal of Structural Design and Construction Practice*, **Impact Factor – 2.1 (Q3)**
3. Jain, D. and Adhikary, S.D., Sarker, P.K. (2025) “Novel One-part Geopolymer Concrete Mix Design using Hybrid Taguchi GRA-PCA Optimization Approach” *Structures Journal*, DOI: <https://doi.org/10.1016/j.istruc.2025.108805>, **Impact Factor – 3.9 (Q1)**
4. Chaurasia, V., Pulkit, U., and Adhikary, S.D. (2025) “An analytical prediction of maximum deflection and concrete contribution in shear-critical RC beams subjected to low-velocity transverse impact,” *ASCE Journal of Structural Design and Construction Practice*, **Impact Factor – 2.1 (Q3)**
5. Jain, D. and Adhikary, S.D. (2024) “Sustainable Utilization of Basalt Waste Dust as Replacement of River Sand in One-Part Geopolymer Mortar” *Structural Concrete Journal*, DOI: <https://doi.org/10.1002/suco.202400979>, **Impact Factor – 3.2 (Q2)**
6. Pulkit, U., Adhikary, S.D. and V. Kodur (2024) “Influence of fire severity and concrete properties on the thermo-hygral behaviour of concrete during fire exposure,” *Structural*

Concrete Journal, DOI: <https://doi.org/10.1002/suco.202400067>, Impact Factor – 3.2 (Q2)

7. Pulkit, U., and Adhikary, S.D. (2024) “Development of Novel GUI-based computer program for predicting the temperature distribution in concrete compartment and member,” *ASCE Journal of Structural Design and Construction Practice*, DOI: <https://doi.org/10.1061/JSDCCC.SCENG-1617>, Impact Factor – 2.1 (Q3)
8. Goswami, A., Thiagarajan, G, Adhikary, S.D. (2022) “RC Structures Subjected to Combined Blast and Fragment Impact Loading: A State-Of-The-Art Review on the Present and the Future Outlook”, *International Journal of Impact Engineering*, DOI: <https://doi.org/10.1016/j.ijimpeng.2022.104355>, Impact Factor – 5.1 (Q1)
9. Goswami, A., Thiagarajan, G, Adhikary, S.D. (2022) “High Strength Materials for the Response Enhancement of Reinforced Concrete Structures Subjected to Cased Explosive Charges,” *ASCE Journal of Structural Engineering*, DOI: [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0003491](https://doi.org/10.1061/(ASCE)ST.1943-541X.0003491), Impact Factor – 3.7 (Q1)
10. Roy, D.M., Adhikary, S.D., and Sengupta, P. (2022) “Assessment of Mechanical and Micro-Structural Characterization of Novel Ambient Cured Cement-Free Composite Concrete”, *Ceramics International*, DOI: <https://doi.org/10.1016/j.ceramint.2022.05.348>, Impact Factor – 5.2 (Q1)
11. Goswami, A., Thiagarajan, G, Adhikary, S.D. (2021) “Dynamic Response Prediction of RC Structural Components Subjected to Combined Blast and Fragment Impact,” *ASCE Journal of Structural Engineering*, Vol. 148, Issue 2, DOI: [https://doi.org/10.1061/\(ASCE\)ST.1943-541X.0003242](https://doi.org/10.1061/(ASCE)ST.1943-541X.0003242), Impact Factor – 3.7 (Q1)
12. Pulkit, U., and Adhikary, S.D. (2021) “Effect of Micro-structural changes on concrete properties at elevated temperature: Current Knowledge and Outlook,” *Structural Concrete Journal*, DOI: <https://doi.org/10.1002/suco.202000365>, Impact Factor – 3.2 (Q2)
13. Patel, K., Goswami, A., Adhikary, S.D. (2020) “Response Characterization of Highway Bridge Piers Subjected to Blast Loading,” *Structural Concrete Journal*, Vol. 21, Issue 6, pp. 2377-2395, DOI: <https://doi.org/10.1002/suco.201900286>, Impact Factor – 3.2 (Q2)
14. Goswami, A., Adhikary, S.D. (2019) “Retrofitting materials for enhanced blast performance of Structures: Recent advancement and challenges ahead,” *Construction and*

- Building Materials Journal*, Vol. 204, pp. 224-243, DOI: <https://doi.org/10.1016/j.conbuildmat.2019.01.188>, Impact Factor – 8.0 (Q1)
15. Goswami, A., Adhikary, S.D. and Li Bing (2019) "Predicting Punching Shear Failure of Concrete Slabs under Low Velocity Impact Loading," *Engineering Structures Journal*, Vol. 184, pp. 37-51, DOI: <https://doi.org/10.1016/j.engstruct.2019.01.081>, Impact Factor – 5.5 (Q1)
16. Fukuda, T., Adhikary, S.D., Fujikake, K., Sasaki, K. and Tanaka, M. (2019) "Feasibility Study on Application of Controlled Electrical Discharge Impulse Crushing System to Lifesaving Operations in Earthquake Disasters," *ASCE Journal of Practice Periodical on Structural Design and Construction*, Vol. 24, Issue 1, pp. 1-7, DOI: [https://doi.org/10.1061/\(ASCE\)SC.1943-5576.0000401](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000401), Impact Factor – 1.9 (Q3)
17. Adhikary, S.D. and Dutta, S.C. (2019) "Blast Resistance and Mitigation Strategies of Structures: Present Status and Future Trends," *Proceedings of the ICE - Structures and Buildings Journal*, Vol. 172, Issue 4, pp. 249-266, DOI: <https://doi.org/10.1680/jstbu.17.00056>, Impact Factor – 1.6 (Q3)
18. Adhikary, S.D., Lado, R.C., Christian, A., and Ong, K.C.G. (2018) "SHCC-strengthened RC panels under near-field explosions," *Construction and Building Material Journal*, Vol. 183, pp. 675-692, DOI: <https://doi.org/10.1016/j.conbuildmat.2018.06.199>, Impact Factor – 8.0 (Q1)
19. Adhikary, S.D. and Li, B. (2018) "Simplified Analytical Models to predict low-velocity Impact Response of RC Beams," *ASCE Journal of Practice Periodical on Structural Design and Construction*, Vol. 23, Issue 2, pp. 1-10, DOI: [https://doi.org/10.1061/\(ASCE\)SC.1943-5576.0000357](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000357), Impact Factor – 1.9 (Q3)
20. Adhikary, S.D., Lado, R.C., Christian, A., and Ong, K.C.G. (2017) "Influence of Cylindrical Charge Orientation on the Blast Response of High Strength Concrete Panels," *Engineering Structures Journal*, Vol. 149, pp. 35-49, DOI: <https://doi.org/10.1016/j.engstruct.2016.04.035>, Impact Factor – 5.5 (Q1)
21. Adhikary, S.D., Li, B., and Fujikake, K. (2016) "State-of-the-Art Review on Low Velocity Impact Response of Reinforced Concrete Beams," *Magazine of Concrete Research Journal*, Vol. 68, Issue 14, pp. 701-723. DOI: <https://doi.org/10.1680/jmacr.15.00084>, Impact Factor – 2.7 (Q2)
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25. **Adhikary, S.D.**, Li, B., and Fujikake, K. (2015) "Parametric study of RC Beam under Wide range of Loading Rates," *Proceedings of the ICE - Structures and Buildings Journal*, Vol. 168, No. 10, pp. 729-746. DOI: <https://doi.org/10.1680/stbu.15.00024>, **Impact Factor - 1.6 (Q3)**
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31. Hashmee, I., **Adhikary, S.D.** (2025) “Strut-and-tie model to evaluate the ultimate shear strength of RC deep beam under varying loading rates” 14th International Symposium on Plasticity and Impact Mechanics (IMPLAST 2025); Volume 6: Mechanics of Impact, IIT Roorkee, India, October 12-16
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33. Jain, D. and **Adhikary, S.D.** (2025) “Eco-Friendly One-Part Geopolymer Composites: Influence of PVA and Glass Fibers on Mechanical and Durability Properties” *3rd International Conference on Construction Materials and Structures (ICCMS 2025)*, IIT Tirupati, India, July 03-05
34. Irfan, H., Pulkit, U., **Adhikary, S.D.** (2025) “Behavior of Shear-Critical Reinforced Concrete Beams Under Different Loading Rates” *International Conference on Sustainable and Resilient Infrastructure (ICSRI-2024)*, NIT Durgapur, India, December 5-6, DOI: https://doi.org/10.1007/978-3-031-91976-3_18
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36. Kumar, A., **Adhikary, S.D.**, Rana A. (2024) “Local Damage Prediction of Concrete Slab Under Contact Detonation Through FEM-SPH Modelling Techniques” *14th Structural*

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37. Jain, D. and **Adhikary, S.D.** (2024) "Investigation on Effect of Basalt Waste Fines as Replacement of River Sand in One-part Geopolymer Mortar" ***10th International Conference on Concrete under Severe Conditions (CONSEC-2024)***, IIT Madras, Chennai, India, September 25-27.
38. Pulkit, U. and **Adhikary, S.D.** (2023) "Variation of pore pressure in NSC slabs subjected to non-uniform heating: Analytical study" ***13th Structural Engineering Convention (SEC-2023)***, VNIT, Nagpur, India, December 07-09, DOI: https://doi.org/10.1007/978-981-97-6067-1_16
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41. Goswami, A. and **Adhikary, S.D.** (2018) "Synergistic Effects of Combined Blast and Fragment Loading on Structures: State-of-the-Art," ***3rd RN Raikar Memorial International Conference and Gettu- Kodur International Symposium***, Mumbai, India, December 14-15.
42. Goswami, A., Gunjan, A. and **Adhikary, S.D.** (2018) "Response Assessment of Steel Fibre-Reinforced Concrete Slabs under Impact Loading," ***International Conference on Advances in Construction Materials and Structures (ACMS 2018)***, IIT Roorkee, India, March 7-8.
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45. Thakur, M.S. and **Adhikary, S.D.** (2017) "Structural Steel silos: An alternative of RC silos," *ASCE India Conference*, IIT Delhi, India, December 12-14.
46. Kumar, S., Dutta, S.C., **Adhikary, S.D.**, Hussain, M.A., Kundu, S., and Chatterjee, S. (2017) "Non-Linear Dynamic Analysis of Structures on Opencast Backfilled Mine Due to Blast Vibration," *13th International Conference on Vibration Problems*, IIT Guwahati, India, November 29-December 2.
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52. Roy, D.M., **Adhikary, S.D.**, and Sengupta, P. (2021) "Experimental Optimization of GGBS Fly Ash-Based Geopolymer Concrete Paver Blocks", *Sustainable Cities and Resilience; Lecture Notes in Civil Engineering*, Vol. 180, Springer, https://doi.org/10.1007/978-981-16-5543-2_13.
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54. Kumar, S., Dutta, S.C., **Adhikary, S.D.**, and Hussain, M.A. (2020) "Non-Linear Dynamic Analysis of Structures on Opencast Backfilled Mine due to Blast Vibration" *Advances in Structural Vibration, Lecture Notes in Mechanical Engineering*, Springer, pp. 95-104, https://doi.org/10.1007/978-981-15-5862-7_9
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57. Kumar, A. and **Adhikary, S.D.** (2018) "Effect of Blast Loading on Reinforced Concrete Buildings", *Bloomsbury Publishing India Pvt. Ltd.*, pp. 354-360, ISBN:978-93-87471-69-6
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63. Ong, K.C.G, Lado, R.C. and **Adhikary, S.D.** (2015) “High Performance Concrete for Protective Structures: Part A: Design of Structures with HPC materials against Blast and Impact loadings,” *Design Guide*, submitted to Defense Science & Technology Agency (DSTA), Singapore by Centre for Protective Technology, National University of Singapore.
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70. **Adhikary, S.D.** (2018) “Utilization of Pulverized Fuel Ash,” ***EnergiTalk Magazine @ Maithon***, Maithon Power Limited, Jharkhand, India, January, Issue 5.
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