

List of Publications

Granted 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); Patent Number: 594626; Indian Patent Application Number: 202531006117; Status: Granted on 07.07.2026 (Indian Patent)

Published Patent

2. **“Cementless pervious concrete using waste steel slag aggregates and a process for the preparation thereof”** by **Prof. Satadru Das Adhikary** and Dipanshu Jain (PhD student); Indian Patent Application Number: 202631007687; Status: Published on 06.02.2026 (Indian Patent)

3. **“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: 77; No. of Citations: 1240; h-Index: 14; i10 Index: 21

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

Total Number of Citations	1240
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i-10 index	21

International Journal Articles

1. Jain, D. and **Adhikary, S.D.** (2026) “Total waste-based one-part geopolymer pervious concrete using BOF steel slag aggregate: Development and performance evaluation” *Construction and Building Materials Journal*, DOI: <https://doi.org/10.1016/j.conbuildmat.2026.147421>, Impact Factor – 8.0 (Q1)
2. Jain, D., Galani, M.V., Hashmee, I., **Adhikary, S.D.**, Rai, A. K. (2026) “Synergy of Hybrid Glass–PVA Fibres in Sustainable One-Part Geopolymers: Mechanical, Durability, and Microstructural Performance,” *European Journal of Environmental and Civil Engineering*, DOI: <https://doi.org/10.1080/19648189.2026.2713169>, Impact Factor-2.4 (Q2)
3. Pulkit, U., and **Adhikary, S.D.** (2026) “Characterization, Modelling and Structural Response under Travelling Fires: Recent Trends and Challenges,” *Sadhana-Academy Proceedings in Engineering Sciences Journal*, Accepted, Impact Factor – 1.4 (Q3)
4. 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)

5. 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*, DOI: <https://doi.org/10.1061/JSDCCC.SCENG-2105>, **Impact Factor – 2.1 (Q3)**
6. 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)**
7. 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*, Vol. 31, Issue 2, DOI: <https://doi.org/10.1061/JSDCCC.SCENG-1959> **Impact Factor – 2.1 (Q3)**
8. 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)**
9. 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)**
10. 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)**
11. 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)**
12. 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)**
13. 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)**
14. 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)**
15. 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)**
16. 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)**
17. 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)**
18. 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)**
19. 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)**

20. **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)
21. **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)
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25. **Adhikary, S.D.** (2016) "Review of Glazing and Glazing Systems under Blast Loadings," *ASCE Journal of Practice Periodical on Structural Design and Construction*, Vol. 21, Issue 1, pp. 1-10, DOI: [https://doi.org/10.1061/\(ASCE\)SC.1943-5576.0000264](https://doi.org/10.1061/(ASCE)SC.1943-5576.0000264), Impact Factor – 1.9 (Q3)
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 30. Adhikary, S.D., Li, B., and Fujikake, K. (2014) “Residual Resistance of Impact-damaged Reinforced Concrete Beams,” *Magazine of Concrete Research Journal*, Vol. 67, Issue 7, pp. 364-378. DOI: <https://doi.org/10.1680/mac.14.00312>, Impact Factor – 2.7 (Q2)
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35. 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
36. Kumar, A., **Adhikary, S.D.** (2025) “Numerical Simulation on Damage Zone Assessment of Reinforced Concrete Beam under Contact Explosion “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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38. 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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42. 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-*

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50. 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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53. **Adhikary, S.D.**, Li, B., and Fujikake, K. (2013) “Numerical Investigation on Residual Resistance of RC Beams Subjected to Impact Loading,” *10th International Conference on Shock & Impact Loads on Structures*, pp. 287-294, Singapore, Nov. 25-26.
54. Fujikake, K., Li, B., **Adhikary, S.D.**, and Salem, H.M. (2012) “Dynamic Shear Resistance of Short RC Beams,” *4th International Conference on Design and Analysis of Protective Structures*, pp. 570-578, Jeju, Korea, June 19-22.
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56. 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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58. 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*

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