

## Dr. G. Murali - list of publications

**Publication - SCI/SCIE Journal (Cumulative Impact Factor = 55.202)**

- R. Rithanyaa, **G. Murali**, M.P. Salaimanimagudam, Roman Fediuk, Hakim S. Abdelgader, A. Siva. Impact response of novel layered two stage fibrous composite slabs with different support type. *Structures* 29 (2021) 1–13. (Impact Factor-1.839).
- Mugahed Amran, YeongHuei Lee, Nikolai Vatin, Roman Fediuk, Shek Poi-Ngian, Yee Yong Lee and **Gunasekaran Murali**. Design Efficiency, Characteristics, and Utilization of Reinforced Foamed Concrete: A Review. *Crystals* 2020, 10, 948. (Impact Factor-2.404).
- **G. Murali**, Sallal R. Abid, Y.H. MugahedAmran, Hakim S. Abdelgader, Roman Fediuk, ArikatlaSusrutha, K. Poonguzhali. Impact performance of novel multi-layered prepacked aggregate fibrous composites under compression and bending. *Structures* 28 (2020) 1502–1515. (Impact Factor-1.839).
- Meivazhisalai Parasuraman Salaimanimagudam, Covaty Ravi Suribabu, **Gunasekaran Murali**, Sallal R. Abid. Impact Response of Hammerhead Pier Fibrous Concrete Beams Designed with Topology Optimization. *Periodica Polytechnica Civil Engineering*, 64(4), (2020). 1244–1258, (Impact Factor – 1.140).
- M.K. Haridharan, S. Matheswaran, **G. Murali**, Sallal R. Abid, Roman Fediuk, Y.H. MugahedAmran, Hakim S. Abdelgader. Impact response of two-layered grouted aggregate fibrous concrete composite under falling mass impact. *Construction and Building Materials* 263 (2020) 120628. (Impact Factor-4.419).
- MugahedAmran, Roman Fediuk, Nikolai Vatin, YeongHuei Lee, **Gunasekaran Murali**, TogayOzbakkaloglu, Sergey Klyuev and HishamAlabduljabber. Fibre-Reinforced Foamed Concretes: A Review. *Materials* 2020, 13, 4323. (Impact Factor-3.057).
- Parthiban K, **Murali G**, Sreenath S, Arathi Krishna. Effect of Partial Replacement of Ground Granulated Blast Furnace Slag with Sugarcane Bagasse Ash as Source Material in the Production of Geopolymer Concrete. *Materials Science (Medziagotyra)*. Vol. 26, No. 4. 2020. (Impact Factor-0.625).
- Y.H. MugahedAmran, Mohamed El-Zeadani, YeongHuei Lee, Yee Yong Lee, **G. Murali**, Roman Fediuk. Design innovation, efficiency and applications of structural insulated panels: A review. *Structures* 27 (2020) 1358–1379. (Impact Factor-1.839).
- Titus Manohar, C.R. Suribabu, **G. Murali**, M.P. Salaimanimagudam. A novel steel-PAFRC composite fender for bridge pier protection under low velocity vessel impacts. *Structures* 26 (2020) 765–777. (Impact Factor-1.839).
- Valery Lesovik, VasilyVoronov, EvgenyGlagolev, Roman Fediuk, ArbiAlaskhanov, Y.H. MugahedAmran, **G. Murali**, Andrey Baranov. Improving the behaviors of foam concrete through the use of composite binder. *Journal of Building Engineering* 31 (2020) 101414. (Impact Factor-3.379).

- T. Abirami, **G. Murali**, K. Saravana Raja Mohan, M.P. Salaimanimagudam, ParshyamNagaveni,Pallem Bhargavi.Multi-layered two stage fibrous composites against low-velocity fallingmass and projectile impact. *Construction and Building Materials* 248 (2020) 118631. (Impact Factor-4.419).
- **G. Murali**, Roman Fediuk. A Taguchi approach for study on impact response ofultra-high-performance polypropylene fibrous cementitious composite. *Journal of Building Engineering* 30 (2020) 101301. (Impact Factor-3.379)
- Neha P. Asrani, **G. Murali**, Hakim S. Abdelgader, K. Parthiban, M. K. Haridharan, K. Karthikeyan. Investigation on Mode I Fracture Behavior of Hybrid Fiber-Reinforced Geopolymer Composites. *Arabian Journal for Science and Engineering*. (2019) 44:8545–8555 (Impact Factor-1.518).
- T. Abirami, M. Loganaganandan, **G. Murali**, Roman Fediuk, R. VickhramSreekrishna, T. Vignesh,G. Januppriya, K. Karthikeyan. Experimental research on impact response of novel steel fibrousconcretes under falling mass impact. *Construction and Building Materials* 222 (2019) 447–457. (Impact Factor-4.046).
- **G. Murali**, LaxminadhPoka, K. Parthiban, M. K. Haridharan and A. Siva. Impact Response of Novel Fibre-Reinforced Grouted Aggregate Rubberized Concrete. *Arabian Journal for Science and Engineering*, (2019) 44:8451–8463. (Impact Factor-1.518).
- V.R. Ramkumar, **G. Murali**, Neha P Asrani, K. Karthikeyan. Development of a novel low carbon cementitious two stage layered fibrousconcrete with superior impact strength. *Journal of Building Engineering* 25 (2019) 100841. (Impact Factor-2.378)
- Neha P Asrani, **G. Murali**, K. Parthiban, K. Surya, A. Prakash, K. Rathika, Uma Chandru. A feasibility of enhancing the impact resistance of hybrid fibrousgeopolymer composites: Experiments and modelling. *Construction and Building Materials* 203 (2019) 56–68.(Impact Factor-4.046).
- **G. Murali**· Neha P. Asrani· V. R. Ramkumar· A. Siva· M. K. Haridharan. Impact Resistance and Strength Reliability of Novel Two-Stage Fibre-Reinforced Concrete. *Arabian Journal for Science and Engineering*. (2019) 44:4477–4490 (Impact Factor-1.518).
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- **G. Murali**,E. Vinodha. Experimental and Analytical Study of Impact Failure Strength of Steel Hybrid Fibre Reinforced Concrete Subjected to Freezing and Thawing Cycles. *Arabian Journal for Science and Engineering*. (2018) 43:5487–5497. (Impact Factor-1.092).

- **G. Murali**, T. Indhumathi, K. Karthikeyan and V.R. Ramkumar. Analysis of flexural fatigue failure of concrete made with 100% coarse recycled and natural aggregates. *Computers and Concrete*, Vol. 21, No. 3 (2018) 291-298. (Impact Factor-1.637).
- Ramkumar V R, Chinnaraju K, **Murali G**. On Low-Energy Impact Response of Fibre Reinforced Concrete Made With Binary And Quaternary Cementitious Blends of Lime Sludge, Fly Ash And Metakaolin. *Romanian Journal of Materials* 2017, 47 (4), 491 – 499. (Impact Factor-0.56).
- **Murali, G.**, Ramkumar, V.R., and Karthikeyan, K. Effect of impact loading on the flexural strength of fibre reinforced concrete. *Journal of Scientific and Industrial Research JSIR* Vol.76(12) [December 2017], 790-794. (Impact Factor-0.557)
- **Murali G**, Venkatesh J, Lokesh N, Nava Teja Reddy, and Karthikeyan K. Comparative Experimental and Analytical Modeling of Impact Energy Dissipation of Ultra-High-Performance Fibre Reinforced Concrete. *KSCE Journal of Civil Engineering* 2018, 22(8):3112-3119. (Impact Factor-0.940).
- **Murali. G**, Muthulakshmi. T, Nycilin Karunya. N, Iswarya. R, Hannah Jennifer G and Karthikeyan. K, Impact Response and Strength Reliability of Green High-Performance Fibre Reinforced Concrete Subjected to Freeze-Thaw Cycles in NaCl Solution, *Materials Science Medziagotyra*, Vol. 23, No. 4. 2017, 384-388. (Impact Factor-0.393)
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- **G. Murali**, A.S. Santhi, G. Mohan ganesh, Loss of Mechanical Properties of Fiber-Reinforced Concrete Exposed to Impact Load. *Romanian journal of materials* 2016, 46 (4), 491–496. (Impact Factor-0.612).
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#### Scopus Indexed journal

- Parshyam Nagaveni, Pallem Bhargavi, Vineesha Reddy Gospati and **G. Murali**. A new energy pattern factor method to estimate Weibull shape parameter for impact resistance of concrete. *International Journal of Mechanical and Production Engineering Research and Development*. 10(3); 2020: 5261–5270.
- H.S. Abdelgader, R.S. Fediuk, M. Kurpinska, J. Khatib, **G. Murali**, A.V. Baranov, R.A. Timokhin. Mechanical properties of two-stage concrete modified by silica fume. *Magazine of Civil Engineering*. 2019. 89(5). 26–38.

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- Naveen Kumar N, ParthibanKathirvel, **Murali G**, Saravana Raja Mohan Kaliyaperumal. Strength Properties of Recycled Aggregate Concrete Treated with Low Concentration Acetic Acid. *International Journal of Engineering &Technology*, 7 (3.12) (2018) 403-406.
- Neha P Asrani, **Murali G**,Arthika J, Karthikeyan. K, Haridharan. M.K. Probabilistic Fracture Energy Assessment of Natural Fibre Reinforced Concrete by Two Parameter Weibull Distribution. *International Journal of Engineering &Technology*, 7 (3.12) (2018) 407-410.
- Ram Prasad. K, **Murali. G**, ParthibanKathirvel, Haridharan M K, Karthikeyan. K. Experimental Study on Functionally Graded Steel Fibre Reinforced Preplaced Aggregate Concrete. *International Journal of Engineering &Technology*, 7 (3.12) (2018) 456-458.
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- **Murali, G.**, Santhi, A.S. and Mohan Ganesh, G., “Effect of Crimped and Hooked End Steel Fibres on the Impact Resistance of Concrete” *Journal of Applied Science and Engineering*, ISSN 1560-6686, Vol. 17, No. 3, (2014), pp. 259-266.
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