

**Department of Civil Engineering**  
**Faculty Publication Details**

**SRI KRISHNA COLLEGE OF ENGINEERING AND TECHNOLOGY**  
Kuniamuthur, Coimbatore-641008

**DEPARTMENT OF CIVIL ENGINEERING**

**FACULTY PUBLICATION DETAILS (2012 – 2017)**

<b>S. No</b>	<b>Faculty Name</b>	<b>Title of Publication</b>	<b>Journal Name</b>	<b>Year</b>	<b>Vol &amp; Page No.</b>	<b>SCI/SCI(E)</b>	<b>SCOPUS</b>
1.	D.Maruthachalam	Studies of durability aspects of fibre reinforced concrete	International Journal of Engineering Science and Technology	2012	4(2), pp. 620-628		
2.	D.Maruthachalam	Behaviour of concrete composite beam-columns under cyclic loading: A general review	International Journal of Emerging Trends in Engineering and Development	2012	4(2), pp. 185 to 191		
3.	D.Maruthachalam	Statistical modeling of fiber reinforced high performance concrete	International Journal of Scientific & Engineering Research	2012	3(6), pp. 1-5		
4.	D.Maruthachalam	Behaviour of reinforced concrete exterior beam column joint: A general review	International Journal of Advanced Scientific and Technical Research (IJAST)	2012	6(2), pp. 550-554		
5.	P.Saravanakumar	Effect of admixed recycled aggregate concrete on properties of fresh and hardened concrete	ASCE Journal of Materials in Civil Engineering	2012	24(4), pp. 494-498	Y	Y
6.	D.Maruthachalam	Experimental investigation on self-curing concrete	International Journal of Advanced Scientific and Technical Research	2013	2(3), pp. 300-306		

7.	D.Maruthachalam	Mechanical properties of hybrid fibre reinforced concrete with steel and synthetic fibre.	International Journal of Engineering Sciences and Research Technology (IJESRT)	2013	4(2), pp.899-902		
8.	D.Maruthachalam	Mechanical properties of hybrid fibre reinforced concrete with available of rural fibres	International Journal of Engineering Science & Research Technology	2013	4(2), pp.843-847		
9.	D.Maruthachalam	Mechanical performance of recycled PET fiber reinforced concrete with low volume fraction	International Journal of Structural and Civil Engineering Research	2013	2(4), pp. 100-108		
10.	D.Maruthachalam	Mechanical Properties of Metallic and Non-Metallic Fiber (Steel – Recycled Polyethylene Terephthalate Fiber) Reinforced concrete	International Journal of Sustainable Civil Engineering	2013	5(3), pp. 25-33.		
11.	D.Maruthachalam	Influence of Polyolefin Macro-Monofilament Fibre on Mechanical Properties of High Performance Concrete	KSCE Journal of Civil Engineering	2013	17(7), pp.1682-1689	Y	Y
12.	D.Maruthachalam	Shear Performance of Fibre Reinforced Concrete Beams: A General Review	Indian Journal of Engineering	2013	2(3), pp. 843-847		
13.	D.Maruthachalam	Flexural Behaviour of Hybrid Fibre Reinforced Concrete Beams: A General Review	Indian Journal of Engineering	2013	2(3), pp. 14-16		
14.	S.Boobalan	Study of High Performance Concrete with Silica Fume and Glass Fibre	The Asian review of Civil Engineering	2013	2(1), pp.20-24		

15.	S.Boobalan	Impact of Saw Dust and Crushed Waste Glass in the Properties in Sandcrete Blocks – A General Review	International Journal of Advanced Scientific and Technical Research	2013	1(3), pp.114-118		
16.	S.Boobalan	Behaviour of High Performance Concrete in Exterior Beam-Column Joint-A General Review	Indian Journal of Engineering	2013	3(6), pp. 18-20		
17.	S.Boobalan	Experimental Study on Fibre Reinforced High Performance Concrete with Silica Fume	Journal of Construction Engineering, Technology and Management	2013	3(1), pp. 26-30		
18.	P.Saravanakumar	Strength Characteristics of HVFA based Recycled Aggregate Concrete	ASCE Journal of Materials in Civil Engineering	2013	25(8), pp. 1127-1133	Y	Y
19.	P.Saravanakumar	Durability Characteristics of Recycled Aggregate Concrete	Structural Engineering and Mechanics	2013	47(5), pp. 701-711	Y	Y
20.	D.Maruthachalam	Influence of Fibres on Fresh and Hardened Properties of Self-Curing Concrete.	International Journal of Advanced Structures and Geotechnical Engineering	2014	03(1), pp 7-10		
21.	D.Maruthachalam	Experimental Investigation on Bagasse Ash As an Eco-Friendly Building Material	Journal of Industrial Pollution Control	2014	29(1), pp. 159-164		Y
22.	D.Maruthachalam	Experimental study on shear behaviour of hybrid Fibre Reinforced Concrete beams	KSCE Journal of Civil Engineering	2014	19(1), 259-264	Y	Y
23.	D.Maruthachalam	Effect of Compressive Strength on Abrasion Resistance for Fly Ash Concrete.	Ecology, Environment and Conservation	2014	20(3), pp. 923-928		Y

24.	J. Thaarrini	A Prospective Study on Alkali Activated Bottom Ash – GGBS Blend in Paver Blocks	Indian Journal of Engineering	2014	8(3)		
25.	S.Boobalan	Behaviour of fibre-reinforced high-performance concrete in exterior beam-column joint	International Journal of Advanced Structural Engineering	2014	6:57		Y
26.	P.Saravanakumar	Performance of Sustainable Concrete containing HVFA and RCA	Asian Journal of applied sciences	2014	7(4), pp. 194-204		Y
27.	P.Saravanakumar	Durability aspects of HVFA based Recycled Aggregate Concrete	Magazine of Concrete Research	2014	66(4), pp. 186 - 195	Y	Y
28.	P.Saravanakumar	Experimental Studies on RC beams strengthened with Epoxy and Polymer Grouting	Asian Journal of applied sciences	2014	7(2), pp. 88-95		Y
29.	P.Saravanakumar	Elemental Modal Strain Energy for Damage Identification of a Space Frame: A Numerical Approach	International Journal of Applied Engineering Research	2014	9(17), pp.3723-3731		Y
30.	P.Saravanakumar	Effect of Recycled Masonry Brick Aggregate on Concrete Properties	International Journal of Applied Engineering Research	2014	9(17), pp. 3701-3710		Y
31.	P.Saravanakumar	Mechanical and Durability Properties of Slag based Recycled Aggregate Concrete	Iranian Journal of Science & Technology, Transactions of Civil Engineering	2015	39-C2	Y	Y
32.	P.Saravanakumar	Effect of sulfuric acid treated recycled aggregates on properties of concrete	International Journal of ChemTech Research	2015	8(2) pp. 476 – 482		Y
33.	P.Saravanakumar	Properties of Recycled Aggregate Concrete	International Journal of ChemTech	2015	8(1) pp. 72 – 78		Y

		Containing Hydrochloric Acid Treated Recycled Aggregates	Research				
34.	D.Maruthachalam	Experimental Asymptotic Analysis of Fibrous self-curing Concrete exposed to Acid and Salt attack	Journal of Industrial Pollution Control	2015	31(1), pp. 61-67		Y
35.	D.Maruthachalam	Influence of fibres on Robustness Characteristics of self-curing concrete	Ecology, Environment and Conservation	2015	21(1), pp. 357-362		Y
36.	D.Maruthachalam	Behaviour of Polyolefin Macro-Monofilament Fibre Reinforced High Performance Concrete Beam-columns	International Journal of Earth Sciences and Engineering	2015	8(1), pp.266-274		Y
37.	D.Maruthachalam	Mechanical properties of high strength concrete with metallic and non-metallic fibres	Journal of Structural Engineering (India)	2015	41(6), pp. 649-654		Y
38.	V.Gayathri	Shear strength behaviour of clay reinforced with treated coir fibres	Periodica Polytechnica Civil Engineering	2015	60(2), 135-143	Y	Y
39.	J. Thaarrini	Strength studies on Geopolymer Concrete Using Steel and Polypropylene Fibres	International Journal of Applied Engineering Research	2015	10(9)		Y
40.	J. Thaarrini	Feasibility Studies on Compressive Strength of Ground Coal ash Geopolymer Mortar	Periodica Polytechnica Civil Engineering	2015	59(3) pp. 373-379	Y	Y
41.	J. Thaarrini	Properties of Foundry Sand ground granulated Blast Furnace Slag and Bottom Ash Based Geopolymers under	Periodica Polytechnica Civil Engineering	2015	10.3311/ppci.8014	Y	Y

		Ambient Conditions					
42.	J. Thaarrini	Feasibility Studies on the use of foundry sand in bottom ash geopolymer mortar	International Journal of Applied Engineering Research	2015	10 pp. 1925-1932		Y
43.	J. Thaarrini	Strength Studies on Geopolymer concrete Using Steel And glass fiber	International Journal of Applied Engineering Research	2015	10(19)		Y
44.	J. Thaarrini	Review on Strength and durability characteristics of geopolymer concrete with micro silica, nano silica	International Journal of Civil Engineering & Technology	2015	02(9)		Y
45.	J. Thaarrini	Application of Value Engineering in Construction Project to predict time and cost overrun- An overview	International journal of scientific engineering and applied sciences	2015	01(9)		
46.	A.Jesudass	Investigating strength properties of concrete incorporating Fly ash and silica fume in cement and replacing river sand by foundry sand and M sand	International Journal of Applied Engineering Research	2015	10(19)		Y
47.	R. Elangovan	Studies on High strength Self compacting concrete with copper slag	International Journal of Applied Engineering Research	2015	10(10)		Y
48.	P. Saravanakumar	Influence of vertical and inclined shear reinforcement on shear cracking behavior in reinforced concrete beams	International Journal of Civil Engineering & Technology	2016	7(6) pp. 602-610		Y
49.	P. Saravanakumar	Properties of treated recycled aggregates and its	Construction And Building Materials	2016	111, pp. 611-	Y	Y

		influence on concrete strength characteristics			617		
50.	J. Thaarrini	Development of a statistical model for strength prediction of BA-GGBFS- FS Geopolymer concrete paver block	Asian Research Consortium	2016	6(6).pp .1514-1526		
51.	J. Thaarrini	Comparative study on the production cost of geopolymer and conventional concrete	International Journal of Civil Engineering Research	2016	72 pp.117-124		
52.	J. Thaarrini	Effect of Alkaline solution on properties of geopolymer concrete -review	International Journal of Applied Engineering Research	2016	11(3)		Y
53.	R. Elangovan	Studies on High strength Self compacting concrete with Steel slag	International Journal research Studies in Science Engineering and Technology	2016	10(10)		
54.	R. Elangovan	Numerical and Experimental Study on Ductility Improvements in beam-Column Joint for Precast Structures	International journal of Emerging Engineering Research and Technology	2016	4(5)		
55.	R. Elangovan	Relationship between the mechanical properties of high strength self-compacting concrete	Asian Journal of Structural Engineering				
56.	R. Elangovan	Optimum Mix Proportional of High strength Self Compacting concrete	International Journal of Engineering trends and Technology	2016	37(6)		
57.	R. Elangovan	A numerical Experimental and Analytical Study on Confined Steel Concrete	International Journal of science engineering and technology	2016	5(5)		



		Composite Beam	research				
58.	D.Maruthachalam, P.Saravanakumar, K.Divya Dharshini	Experimental Investigation on The Flexural Behavior of Polyolefin Macro-Monofilament Fibre Reinforced High Performance Concrete Beams	International Journal of Civil Engineering and Technology	2017	8(6), pp. 436-449		Y
59.	S.Boobalan	Experimental Investigation of Fibre reinforced concrete using Hemp fibre and Silica fume	International Journal of Research in Engineering and Technology	2017	6(6), 112 - 115		
60.	V.Mithun	Application of Earned Schedule Method in Construction	International Journal of Emerging Trends in Engineering and Development	2017	4(7), pp 26 - 42		
61.	P.Saravanakumar and D.Maruthachalam	Studies on Structural Behaviour of Recycled Aggregate Concrete with Waste Clay Tiles and Fly Ash	International Journal of Civil Engineering and Technology	2017	8(7), pp. 544–555,		Y
62.	Dr.J.Thaarini	Improvements in the Microstructural and Mechanical properties of Geopolymer concrete containing NMF's of E-wastes as partial replacement of aggregates	European Journal of Environmental and Civil Engineering (TECE)	2017	Accepted. Will be available online on 01.09.17	Y	Y
63.	S.Vaishnavi Devi	Cost Estimation in Construction Projects	International Journal for Research in applied science and Engineering Technology	2017	5(1), pp. 271 - 277		
64.	D. Maruthachalam	Partial Replacement of Fine Aggregates Through Household waste ash in	International journal of chemtech research	2017	10(08) pp.127-133		

		concrete					
65.	D. Maruthachalam	Study on corrosion of reinforced concrete beams with fly ash and Glass fibre reinforced polymer	International journal of chem tech research	2017	10(14) pp.281-286		
66.	S. Prabhath Ranjan kumar	Influence of Ureolytic bacteria in improving performance characteristics of concrete	Ecology, Environmental and Conservation		23 pp. s57-s63		Y

**Indexed in SCI / SCI(E) / Scopus - 12 / 36**

**Indexed in others - 28**

**Total Number of Publications - 66**

**Department of Civil Engineering**  
**Funded Project Details**



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(An Autonomous Institution, affiliated to Anna University)



Department of Civil Engineering

DETAILS OF FUNDED PROJECT (2015 - 2016)

S.No.	Supervisor Name	Students Name	Title	Funding Agency	Amount
1	Dr.D.Maruthachalam	B. Sowmiya P. Sushmithaa S. Kayalvizhi P. Divya	Investigation of Corrosion Damage and Repair System to Extend the Service Life of Critical Infrastructures	DST	Rs. 1 Lakh