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Proposed Shear Design Equations for FRP-Reinforced Concrete Beams Based on Genetic Algorithms Approach

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#	Paper	IF	Citations
54	Genetic algorithm model for shear capacity of RC beams reinforced with externally bonded FRP. <i>Materials and Structures/Materiaux Et Constructions</i> , 2011 , 44, 1249-1258	3.4	12
53	Prediction of shear strength of FRP-reinforced concrete beams without stirrups based on genetic programming. <i>Advances in Engineering Software</i> , 2011 , 42, 295-304	3.6	68
52	Shear characteristics of GFRP-reinforced concrete deep beams without web reinforcement. <i>Journal of Reinforced Plastics and Composites</i> , 2012 , 31, 1063-1073	2.9	43
51	Revisiting the shear design equations for concrete beams reinforced with FRP rebar and stirrup. <i>Materials and Structures/Materiaux Et Constructions</i> , 2012 , 45, 1593-1612	3.4	19
50	Does the shear strength of reinforced concrete beams and slabs depend upon the flexural reinforcement ratio or the reinforcement strain?. <i>Canadian Journal of Civil Engineering</i> , 2013 , 40, 1068-1081	1.3	12
49	Análisis e Implementación de Algoritmos Evolutivos para la Optimización de Modelos en Ingeniería Civil (Implementation of Evolutionary Algorithms for Optimization of Models in Civil Engineering). <i>SSRN Electronic Journal</i> , 2014 ,	1	
48	Prediction of shear strength of FRP reinforced concrete beams using fuzzy inference system. <i>Expert Systems With Applications</i> , 2014 , 41, 1006-1020	7.8	36
47	Shear Strength of FRP RC Beams and One-Way Slabs without Stirrups. <i>Journal of Composites for Construction</i> , 2014 , 18, 04014007	3.3	28
46	Shear Strength Prediction of FRP-reinforced Concrete Beams: A State-of-the-Art Review of Available Models. <i>Journal of Civil & Environmental Engineering</i> , 2015 , 05,		3
45	Shear design of reinforced concrete beams with FRP longitudinal and transverse reinforcement. <i>Composites Part B: Engineering</i> , 2015 , 74, 104-122	10	32
44	Development of Shear Capacity Prediction Model for FRP-RC Beam without Web Reinforcement. <i>Advances in Materials Science and Engineering</i> , 2016 , 2016, 1-19	1.5	1
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42	Parametric Study of Shear Strength of Concrete Beams Reinforced with FRP Bars. <i>Journal of the Institution of Engineers (India): Series A</i> , 2016 , 97, 273-284	1	3
41	Optimized shear design equation for slender concrete beams reinforced with FRP bars and stirrups using Genetic Algorithm and reliability analysis. <i>Engineering Structures</i> , 2016 , 107, 151-165	4.7	37
40	Finite element parametric study of the shear behavior of GFRP-RC short beams. 2017 ,		4
39	Predicting Shear Capacity of FRP-Reinforced Concrete Beams without Stirrups by Artificial Neural Networks, Gene Expression Programming, and Regression Analysis. <i>Advances in Civil Engineering</i> , 2018 , 2018, 1-16	1.3	16
38	Reliability analysis of shear strength provisions for FRP-reinforced concrete beams. <i>Engineering Structures</i> , 2018 , 176, 785-800	4.7	22

37	A compression field based model to assess the shear strength of concrete beams reinforced with longitudinal FRP bars. <i>Construction and Building Materials</i> , 2018 , 191, 736-751	6.7	11
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35	Size Effect in Shear Failure of High Strength Concrete Beams without Stirrup reinforced with Basalt FRP Bars. <i>KSCE Journal of Civil Engineering</i> , 2019 , 23, 1636-1650	1.9	11
34	Size effect on the shear failure of high-strength concrete beams reinforced with basalt FRP bars and stirrups. <i>Construction and Building Materials</i> , 2019 , 209, 77-94	6.7	19
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32	Shear strength prediction of reinforced concrete beams by baseline, ensemble, and hybrid machine learning models. <i>Soft Computing</i> , 2020 , 24, 3393-3411	3.5	20
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16	Database Evaluation of Shear Strength of Slender Fiber-Reinforced Polymer-Reinforced Concrete Members. <i>ACI Structural Journal</i> , 2020 , 117,	1.7	1
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