

# Jos R Mart-Vargas

## List of Publications by Citations

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papers

778  
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90  
ext. papers

895  
ext. citations

3.1  
avg, IF

4.36  
L-index

| #  | Paper  | IF  | Citations |
|----|--|-----|-----------|
| 86 | Prestress losses evaluation in prestressed concrete prismatic specimens. <i>Engineering Structures</i> , <b>2013</b> , 48, 704-715   | 4.7 | 46        |
| 85 | Analysis of bond stress distribution for prestressing strand by Standard Test for Strand Bond. <i>Engineering Structures</i> , <b>2014</b> , 72, 152-159   | 4.7 | 40        |
| 84 | Effects of concrete composition on transmission length of prestressing strands. <i>Construction and Building Materials</i> , <b>2012</b> , 27, 350-356   | 6.7 | 40        |
| 83 | Flexural creep of steel fiber reinforced concrete in the cracked state. <i>Construction and Building Materials</i> , <b>2014</b> , 65, 321-329   | 6.7 | 38        |
| 82 | Bond of reinforcing bars to steel fiber reinforced concrete. <i>Construction and Building Materials</i> , <b>2016</b> , 105, 275-284   | 6.7 | 36        |
| 81 | Bond of 13 mm prestressing steel strands in pretensioned concrete members. <i>Engineering Structures</i> , <b>2012</b> , 41, 403-412   | 4.7 | 36        |
| 80 | A Test Method to Characterize Flexural Creep Behaviour of Pre-cracked FRC Specimens. <i>Experimental Mechanics</i> , <b>2012</b> , 52, 1067-1078   | 2.6 | 34        |
| 79 | Strand bond performance in prestressed concrete accounting for bond slip. <i>Engineering Structures</i> , <b>2013</b> , 51, 236-244  | 4.7 | 32        |
| 78 | Test method for determination of the transmission and anchorage lengths in prestressed reinforcement. <i>Magazine of Concrete Research</i> , <b>2006</b> , 58, 21-29                                 | 2   | 29        |
| 77 | Analytical model for transfer length prediction of 13 mm prestressing strand. <i>Structural Engineering and Mechanics</i> , <b>2007</b> , 26, 211-229  |     | 28        |
| 76 | Behaviour of steel-fibre-reinforced normal-strength concrete slender columns under cyclic loading. <i>Engineering Structures</i> , <b>2012</b> , 39, 162-175   | 4.7 | 26        |
| 75 | Time-dependent evolution of strand transfer length in pretensioned prestressed concrete members. <i>Mechanics of Time-Dependent Materials</i> , <b>2013</b> , 17, 501-527                            | 1.2 | 25        |
| 74 | Temperature Gradients in Bridge Concrete I-Girders under Heat Wave. <i>Journal of Bridge Engineering</i> , <b>2019</b> , 24, 04019077  | 2.7 | 24        |
| 73 | Bond Strength of Standard and High-Modulus GFRP Bars in High-Strength Concrete. <i>Journal of Materials in Civil Engineering</i> , <b>2014</b> , 26, 449-456   | 3   | 24        |
| 72 | Predicting Strand Transfer Length in Pretensioned Concrete: Eurocode versus North American Practice. <i>Journal of Bridge Engineering</i> , <b>2013</b> , 18, 1270-1280                              | 2.7 | 23        |
| 71 | Splitting of concrete cover in steel fiber reinforced concrete: Semi-empirical modeling and minimum confinement requirements. <i>Construction and Building Materials</i> , <b>2014</b> , 66, 743-751 | 6.7 | 21        |
| 70 | Experimental Technique for Measuring the Long-term Transfer Length in Prestressed Concrete. <i>Strain</i> , <b>2013</b> , 49, 125-134  | 1.7 | 20        |

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| 69 | Prediction of the transfer length of prestressing strands with neural networks. <i>Computers and Concrete</i> , <b>2013</b> , 12, 187-209   |     | 20 |
| 68 | Slip distribution model along the anchorage length of prestressing strands. <i>Engineering Structures</i> , <b>2014</b> , 59, 674-685   | 4.7 | 19 |
| 67 | Instantaneous Stiffness of Cracked Reinforced Concrete Including Steel-Concrete Interface Damage and Long-Term Effects. <i>Journal of Structural Engineering</i> , <b>2014</b> , 140, 04014021                | 3   | 18 |
| 66 | Transfer and Development Lengths of Concentrically Prestressed Concrete. <i>PCI Journal</i> , <b>2006</b> , 51, 74-85   | 2.1 | 18 |
| 65 | Mixture-proportioning of economical UHPC mixtures. <i>Journal of Building Engineering</i> , <b>2020</b> , 27, 100970  | 5.2 | 18 |
| 64 | Effect of concrete compressive strength on transfer length. <i>Structures</i> , <b>2016</b> , 5, 131-140  | 3.4 | 14 |
| 63 | Influence of concrete composition on anchorage bond behavior of prestressing reinforcement. <i>Construction and Building Materials</i> , <b>2013</b> , 48, 1156-1164  | 6.7 | 14 |
| 62 | Creep and residual properties of cracked macro-synthetic fibre reinforced concretes. <i>Magazine of Concrete Research</i> , <b>2016</b> , 68, 197-207   | 2   | 13 |
| 61 | Correlation of Strand Surface Quality to Transfer Length. <i>ACI Structural Journal</i> , <b>2014</b> , 111,  | 1.7 | 13 |
| 60 | Bond Stress-Slip Model for 0.6 in. (15.2 mm) Diameter Strand. <i>ACI Structural Journal</i> , <b>2015</b> , 112,  | 1.7 | 13 |
| 59 | Measuring specific parameters in pretensioned concrete members using a single testing technique. <i>Measurement: Journal of the International Measurement Confederation</i> , <b>2014</b> , 49, 421-432       | 4.6 | 12 |
| 58 | A higher-order equation for modeling strand bond in pretensioned concrete beams. <i>Engineering Structures</i> , <b>2017</b> , 131, 345-361   | 4.7 | 9  |
| 57 | Spacing requirements of 0.7 in. (18 mm) diameter prestressing strands. <i>PCI Journal</i> , <b>2016</b> , 61, 70-87   | 2.1 | 9  |
| 56 | Long-term behavior of cracked fiber reinforced concrete under service conditions. <i>Construction and Building Materials</i> , <b>2019</b> , 196, 649-658   | 6.7 | 9  |
| 55 | Assessment of transmission length of prestressing strands according to fib Model Code 2010. <i>Engineering Structures</i> , <b>2017</b> , 147, 425-433  | 4.7 | 6  |
| 54 | Discussion: Pull-out and push-in tests of bonded steel strands. <i>Magazine of Concrete Research</i> , <b>2013</b> , 65, 1128-1131  | 2   | 6  |
| 53 | Quantification of bond performance of 18-mm prestressing steel. <i>Construction and Building Materials</i> , <b>2018</b> , 159, 451-462   | 6.7 | 6  |
| 52 | Discussion: Size effect on compressive behaviours of normal-strength concrete cubes made from demolished concrete blocks and fresh concrete. <i>Magazine of Concrete Research</i> , <b>2015</b> , 67, 430-432 | 2   | 4  |

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| 51 | A theoretical model for including the effect of monotonic shear loading in the analysis of reinforced concrete beams. <i>Engineering Structures</i> , <b>2013</b> , 52, 257-272  | 4.7 | 4 |
| 50 | Measured Development Lengths of 0.7 in. (17.8 mm) Strands for Pretensioned Beams. <i>ACI Structural Journal</i> , <b>2016</b> , 113,   | 1.7 | 4 |
| 49 | Prediction of development length from free-end slip in pretensioned concrete members. <i>Magazine of Concrete Research</i> , <b>2018</b> , 70, 714-725   | 2   | 3 |
| 48 | Influence of concrete strength on development length of prestressed concrete members. <i>Journal of Building Engineering</i> , <b>2016</b> , 6, 173-183  | 5.2 | 3 |
| 47 | Discussion: Transmission length and shear capacity in prestressed concrete hollow core slabs. <i>Magazine of Concrete Research</i> , <b>2015</b> , 67, 798-799   | 2   | 2 |
| 46 | Bond of Reinforcement in Concrete Applied to Concrete Quality Control: The Bottle Bond Test. <i>Strain</i> , <b>2014</b> , 50, 57-67   | 1.7 | 2 |
| 45 | Discussion of Effect of Testing Method and Strain Rate on Stress-Strain Behavior of Concrete by Xudong Chen, Shengxing Wu, Jikai Zhou, Yuzhi Chen, and Aiping Qin. <i>Journal of Materials in Civil Engineering</i> , <b>2014</b> , 26, 07014001                   | 3   | 2 |
| 44 | Effect of Residual Strength Parameters on FRC Flexural Creep: Multivariate Analysis. <i>RILEM Bookseries</i> , <b>2017</b> , 141-153   | 0.5 | 2 |
| 43 | Discussion: Mechanical behaviour of different types of concrete under multiaxial compression. <i>Magazine of Concrete Research</i> , <b>2017</b> , 69, 320-321   | 2   | 1 |
| 42 | Discussion of Specimen Size Effects and Dynamic Fracture Toughness of Cement-Based Foams by Muhammad Mamun and Vivek Bindiganavile. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27, 07014007  | 3   | 1 |
| 41 | Discussion: Bond behaviour of deformed bars in self-compacting lightweight concrete subjected to lateral pressure. <i>Magazine of Concrete Research</i> , <b>2015</b> , 67, 104-106  | 2   | 1 |
| 40 | Discussion of Imaging-Based Rating for Corrosion States of Weathering Steel Using Wavelet Transform and PSO-SVM Techniques by Banfu Yan, Satoshi Goto, Ayaho Miyamoto, and Hua Zhao. <i>Journal of Computing in Civil Engineering</i> , <b>2015</b> , 29, 07014004 | 5   | 1 |
| 39 | Discussion of Finite-Element Parametric Study of Bond and Splitting Stresses in Reinforced Concrete Tie Members by Armin Ziari and M. Reza Kianoush. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 07015003  | 3   | 1 |
| 38 | Discussion of Concrete Damage Plasticity Model for Modeling FRP-to-Concrete Bond Behavior by Y. Tao and J. F. Chen. <i>Journal of Composites for Construction</i> , <b>2015</b> , 19, 07015002   | 3.3 | 1 |
| 37 | Database on the Long-Term Behaviour of FRC: A Useful Tool to Achieve Overall Conclusions <b>2015</b> ,   |     | 1 |
| 36 | Discussion: Torsional behaviour of prestressed concrete girder with precast box segments. <i>Magazine of Concrete Research</i> , <b>2016</b> , 68, 859-861   | 2   | 1 |
| 35 | Discussion of New Method for High-Speed Railway Bridge Dynamic Deflection Measurement by Xianlong He, Xueshan Yang, and Lizhen Zhao. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07015003   | 2.7 | 1 |
| 34 | Discussion of Effect of Reinforcement Ratio on Transverse Early-Age Cracking of GFRP-RC Bridge Deck Slabs by Amir Ghatifar, Ehab El-Salakawy, and M. T. Bassuoni. <i>Journal of Composites for Construction</i> , <b>2015</b> , 19, 07014001                       | 3.3 | 1 |

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| 33 | Influence of Fibre Reinforcement on the Long-Term Behaviour of Cracked Concrete. <i>RILEM Bookseries</i> , <b>2017</b> , 195-209   | 0.5 | 1    |
| 32 | Residual Flexural Strength of SFRC: A Multivariate Perspective. <i>RILEM Bookseries</i> , <b>2022</b> , 232-243  | 0.5 | 1    |
| 31 | Discussion: Effect of strain rate on splitting tensile strength of geopolymer concrete. <i>Magazine of Concrete Research</i> , <b>2015</b> , 67, 906-907   | 2   | 0    |
| 30 | Prediction of modulus of elasticity of UHPC using maximum likelihood estimation method. <i>Structures</i> , <b>2021</b> , 35, 1308-1308  | 3.4 | 0    |
| 29 | Analytical model for predicting prestress transfer bond-related parameters of 18 MM prestressing strands. <i>Journal of Building Engineering</i> , <b>2022</b> , 104709  | 5.2 | 0    |
| 28 | Discussion of Shear Strength Prediction in Reinforced Concrete Deep Beams Using Nature-Inspired Metaheuristic Support Vector Regression by Jui-Sheng Chou, Ngoc-Tri Ngo, and Anh-Duc Pham. <i>Journal of Computing in Civil Engineering</i> , <b>2016</b> , 30, 07015001 | 5   |      |
| 27 | Discussion of Experimental Study on the Fatigue Endurance of the CFRP-Concrete Interface by Ke Li, Shuang-Yin Cao, and Xin-Ling Wang. <i>Journal of Composites for Construction</i> , <b>2016</b> , 20, 07015006   | 3.3 |      |
| 26 | Discussion of Bond Strength of Standard and High-Modulus GFRP Bars in High-Strength Concrete by K. M. A. Hossain, D. Ametrano, and M. Lachemi. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27, 07014006   | 3   | 0.06 |
| 25 | Discussion of Flexural Behavior of Reinforced Concrete Beams with TRC Tension Zone Cover by Shiping Yin, Shilang Xu, and Henglin Lv. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27, 07014008   | 3   |      |
| 24 | Discussion of Geometric Design Optimization for Dynamic Response Problems of Continuous Reinforced Concrete Beams by P. Sharafi, M. N. S. Hadi, and Lip H. Teh. <i>Journal of Computing in Civil Engineering</i> , <b>2015</b> , 29, 07014002                            | 5   |      |
| 23 | Discussion: Shear behaviour of prestressed steel fibre concrete box-beams. <i>Magazine of Concrete Research</i> , <b>2015</b> , 67, 215-216  | 2   |      |
| 22 | Discussion of Experimental Investigation of Pullout Behavior of Fiber-Reinforced Polymer Reinforcements in Sand by Cheng-Cheng Zhang, Hong-Hu Zhu, Bin Shi, Fang-Dong Wu, and Jian-Hua Yin. <i>Journal of Composites for Construction</i> , <b>2015</b> , 19, 07015004   | 3.3 |      |
| 21 | Discussion of Effect of Uniaxial Strength and Fracture Parameters of Concrete on Its Biaxial Compressive Strength by E. Chen and Christopher K.Y. Leung. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27, 07015001                                   | 3   |      |
| 20 | Bond model of 15.2 mm strand with consideration of concrete creep and shrinkage. <i>Magazine of Concrete Research</i> , <b>2020</b> , 72, 799-810  | 2   |      |
| 19 | Discussion: Capillary absorption of concrete after mechanical loading. <i>Magazine of Concrete Research</i> , <b>2016</b> , 68, 750-751  | 2   |      |
| 18 | Discussion: Pure creep, maturity and MP-creep in concrete in terms of an exo-process. <i>Magazine of Concrete Research</i> , <b>2016</b> , 68, 752-753   | 2   |      |
| 17 | Discussion of Dynamic Bond Stress-Slip Relationship between Basalt FRP Sheet and Concrete under Initial Static Loading by Dejian Shen, Yong Ji, Fenfang Yin, and Jinyang Zhang. <i>Journal of Composites for Construction</i> , <b>2016</b> , 20, 07016001               | 3.3 |      |
| 16 | Discussion: Dynamic properties of large aggregate concrete under triaxial loading. <i>Magazine of Concrete Research</i> , <b>2017</b> , 69, 317-319  | 2   |      |

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| 15 | Discussion of Efficient Prestressed Concrete-Steel Composite Girder for Medium-Span Bridges. I: System Description and Design                           | By Yaohua Deng and George Morcouc. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07014007   | 2.7 |
| 14 | Discussion of Experimental Study on Bond Behavior of Deformed Bars Embedded in Concrete Subjected to Biaxial Lateral Tensile Compressive Stresses       | By Xue Zhang, Zhimin Wu, Jianjun Zheng, Yu Hu, and Qingbin Li. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27, 07015005 | 3   |
| 13 | Discussion of Development Length Tests of Full-Scale Prestressed Self-Consolidating Concrete Box and I-Girders  | By Bassem Andrawes, Andrew Pozolo, and Zhe Chen. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07014006                           | 2.7 |
| 12 | Discussion of Efficient Prestressed Concrete-Steel Composite Girder for Medium-Span Bridges. II: Finite-Element Analysis and Experimental Investigation | By Yaohua Deng and George Morcouc. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07014009   | 2.7 |
| 11 | Discussion of Prestress Loss of a New Vertical Prestressing Anchorage System on Concrete Box-Girder Webs  | By Xudong Shao, Rensheng Pan, Hua Zhao, and Zixuan Shao. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07014011                   | 2.7 |
| 10 | Discussion of Spatial Embedded Slip Model for Analyzing Time-Relative Coupling Effects of Creep and Prestress on PC Bridges                             | By Wei-zhen Chen and Cheng Ma. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07015004   | 2.7 |
| 9  | Discussion of Bridge Remaining Strength Prediction Integrated with Bayesian Network and In Situ Load Testing  | By Yafei Ma, Lei Wang, Jianren Zhang, Yibing Xiang, and Yongming Liu. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07015001      | 2.7 |
| 8  | Discussion of Sustainable Design of Reinforced Concrete Structures through CO2 Emission Optimization  | By DongHun Yeo and Florian A. Potra. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 07015001                                  | 3   |
| 7  | Discussion of Equivalent Unbonded Length for Modeling of Multistrand Tendons in Precast Segmental Construction  | By Marc J. Veletzos and Jos Restrepo. <i>Journal of Bridge Engineering</i> , <b>2015</b> , 20, 07014014                                     | 2.7 |
| 6  | Discussion of Electrochemical-Mechanistic Model for Concrete Cover Cracking due to Corrosion Initiated by Chloride Diffusion                            | By G. Nossioni and R. S. Harichandran. <i>Journal of Materials in Civil Engineering</i> , <b>2015</b> , 27, 07015003                         | 3   |
| 5  | Discussion of Instantaneous Stiffness of Cracked Reinforced Concrete Including Steel-Concrete Interface Damage and Long-Term Effects                    | By Arnaud Castel, Raymond Ian Gilbert, and Gianluca Ranzi. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 07015005            | 3   |
| 4  | Discussion of Bond of Reinforcement in Concrete Incorporating Recycled Concrete Aggregates  | By Liam J. Butler, Jeffrey S. West, and Susan L. Tighe. <i>Journal of Structural Engineering</i> , <b>2015</b> , 141, 07014003               | 3   |
| 3  | Discussion of Performance of an AASHTO Beam Bridge Prestressed with CFRP Tendons  | By Nabil Grace, Elin Jensen, Vasant Matsagar, and Prasadu Penjendra. <i>Journal of Bridge Engineering</i> , <b>2014</b> , 19, 07013001       | 2.7 |
| 2  | Effects of tension stiffening and shrinkage on the flexural behavior of reinforced UHPFRC beams.  | <i>Case Studies in Construction Materials</i> , <b>2021</b> , 15, e00746   | 2.7 |
| 1  | Discussion of Strain Rate Effect on Development Length of Steel Reinforcement   | By Lauren Toikka, Abass Braimah, Ghani Razaqpur, and Simon Foo. <i>Journal of Structural Engineering</i> , <b>2016</b> , 142, 07016005       | 3   |