

## IWB Veröffentlichungen 2019

### Aufsätze:

Agnoletti, A.; Consiglio, A.; Muciaccia, G.; Bosnjak, J.; Sharma, A.: Effects of elevated temperatures and of loading procedures on the bond performance of reinforcement in concrete. In: 9th International Conference on Concrete under Severe Conditions - Environment & Loading, Porto Allegre, Brazil, 2019

Arkhipkina, O.; Schuler, B.; Stipetic, M.: Impact of the pumping process on the properties of lightweight concrete. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Asmus, J.; Schmid, K.; Eligehausen, R.; Sharma, A.: Zum Einfluss einer Rückhängebewehrung bei randnahen Befestigungen mit Kopfbolzen unter Querlast senkrecht Bauteilkante. In: Erläuterungen zu Din EN 1992-4 Bemessung der Verankerung von Befestigungen in Beton. Berlin, Wien, Zürich : Beuth, 2019. (Deutscher Ausschuss für Stahlbeton ; 615), S. 171-188

Becker, R.; Hofmann, J.; Thiele, C.; Wendel, F.: Forschungsvorhaben zur Bewertung der Tragfähigkeit von Injektionsdübeln in Mauerwerk im Rahmen von Baustellenversuchen. In: Jäger, W. (Hrsg.) Mauerwerk-Kalender 2019. Berlin : Ernst & Sohn, 2019

Bede, N.; Ozbolt, J.: Effect of dynamic loading on concrete properties. In: Mini-Symposium on Numerical Methods within the project "Novel, Efficient Iterative Procedure for the Structural Analysis –Generalisation of Modern Methods", June 10, 2019, University of Zagreb Faculty of Civil Engineering, Zagreb, Croatia, pp. 105-115

Bokor, B.; Pregartner, T.; Sharma, A.; Hofmann, J.: Bemessung von zugbeanspruchten Befestigungen in Beton mit einem nicht-linearen Federmodell-Hintergrund und Softwarelösung für die Versagensart Betonausbruch. In: Bauingenieur 94 (2019), Nr. 9, S. 326-335

Bokor, B.; Sharma, A.; Hofmann, J.: Experimental and numerical investigations on the concrete edge failure of anchor groups in arbitrary configurations. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Bokor, B.; Sharma, A.; Hofmann, J.: Experimental investigations on concrete cone failure of rectangular and non-rectangular anchor groups. In: Engineering Structures 188 (2019), pp. 202-217

Bokor, B.; Sharma, A.; Hofmann, J.: A new spring model for concrete cone failure of anchorages under tension. In: Otto-Graf-Journal 18 (2019), S. 31-40

Bokor, B.; Sharma, A.; Hofmann, J.: Spring modelling approach for evaluation and design of tension loaded anchor groups in case of concrete cone failure. In: Engineering Structures 197 (2019), ID 109414

Bosnjak, J.; Gambarelli, S.; Sharma, A.; Meskovic, A.: Experimental and numerical studies on masonry after exposure to elevated temperatures. In: Otto-Graf-Journal 18 (2019), S. 41-52

Bosnjak, J.; Sharma, A.; Grauf, K.: Mechanical properties of concrete with steel and polypropylene fibres at elevated temperatures. In: Fibers 7 (2019), Nr. 2

Chellapandian, M.; Jain, S.; Prakash, S.; Sharma, A.: Effect of cyclic damage on the performance of RC square columns strengthened using hybrid FRP composites under axial compression. In: *Fibers* 7 (2019) Nr. 10

Chellapandian, M.; Suriya Prakash, S.; Sharma, A.: Axial compression-bending interaction behavior of severely damaged RC columns rapid repaired and strengthened using hybrid FRP composites. In: *Construction and Building Materials* 195 (2019), pp. 390-404

Chellapandian, M.; Suriya Prakash, S.; Sharma, A.: Experimental and finite element studies on the flexural behavior of reinforced concrete elements strengthened with hybrid FRP technique. In: *Composite Structures* 208 (2019), pp. 466-478

Chellapandian, M.; Suriya Prakash, S.; Mahadik, V.; Sharma, A.: Experimental and numerical studies on effectiveness of hybrid FRP strengthening on behavior of RC columns under high eccentric compression. In: *Journal of Bridge Engineering* 24 (2019), No. 6, ID 04019048-1-15

Chellapandian, M.; Suriya Prakash, S.; Sharma, A.: Experimental investigations on hybrid strengthening of short reinforced concrete column elements under eccentric compression. In: *Structural Concrete* 20 (2019), No. 6, pp. 1955-1973

Chellapandian, M.; Suriya Prakash, S.; Sharma, A.: Experimental investigation of the effectiveness of hybrid FRP-strengthened RC columns on axial compression -bending interaction behavior. In: *Journal of Composites for Construction* 23 (2019), No. 4, pp. 04019025-1-16

Das, A.; Bosnjak, J.; Sharma, A.: Numerical investigations on post-fire bond behavior of reinforcement in concrete. In: Baricevic, A.; Jelcic Rukavina, M.; Damjanovic, D.; Guadagnini, M. (Eds.): *International Conference on Sustainable Materials, Systems and Structures (SMSS 2019) - Durability, Monitoring and Repair of Structures; 20-22 March 2019, Rovinj, Croatia*. Paris : RILEM Publ., 2019, pp. 445-453

Egermann, R.; Griesemann, H.; Twelmeier, H.; Garrecht, H.: Begnadigung nach Abrissurteil: Rathausturm in Wilhelmshaven durch statisch-konstruktive Untersuchungen gerettet, Teil 1. In: *B +B Bauen im Bestand* (2019), Nr. 3, S. 14-18

Fuchs, W.: Bemessung der Verankerung von Transportankern zum Versetzen von Stahlbetonfertigteilen. In: *Erläuterungen zu Din EN 1992-4 Bemessung der Verankerung von Befestigungen in Beton*. Berlin, Wien, Zürich : Beuth, 2019. (Deutscher Ausschuss für Stahlbeton ; 615), S. 97-103

Fuchs, W.: Design of inserts for lifting and handling of precast concrete elements – state of the art. In: *Otto-Graf-Journal* 18 (2019), S. 89-100

Fuchs, W.: Verankerungen mit Mörtelankern. In: *Erläuterungen zu Din EN 1992-4 Bemessung der Verankerung von Befestigungen in Beton*. Berlin, Wien, Zürich : Beuth, 2019. (Deutscher Ausschuss für Stahlbeton ; 615), S. 135-140

Gambarelli, S.; Ozbolt, J.: Dynamic fracture of concrete in compression: 3D finite element analysis at meso- and macro-scale. In: Pijaudier-Cabot, G.; Grassl, P.; La Borderie, C.: *10<sup>th</sup> International Conference on Fracture Mechanics of Concrete and Concrete Structures, FraMCoS X*

Gambarelli, S.; Ozbolt, J.: Interaction between damage and time-dependent deformation of concrete: 3D FE parametric study at meso-scale. In: *Otto-Graf-Journal* 18 (2019), S.101-112

Gambarelli, S.; Ozbolt, J.: Interaction between damage and time-dependent deformation of mortar in concrete: 3D FE study at meso-scale. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Garrecht, H.; Arkhipkina, O.; Schuler, B.; Eichler, K.: Sprayable, structurally dense lightweight concrete In: Betonwerk + Fertigteiltechnik 85 (2019), No. 2, pp. 39-40

Garrecht, H.; Baumert, C.: Rheology-based mixing process to ensure uniform workability of demanding concrete mixes. In: Otto-Graf-Journal 18 (2019), S. 113-130

Garrecht, H.; Baumert, C.; Hampel, S.; Lisin, W.; Lazik, P.: Herausforderungen einer gleichförmigen Herstellung von Fahrbahnbetonen und Möglichkeiten einer rheologiegestützten Mischprozessführung. In: Beton- und Stahlbetonbau 114 (2019), Nr. 12, S. 888-898

Gegel, A.; Baumert, C.; Garrecht, H.: New method for testing the sedimentation stability of modern concretes at construction sites. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Hein, H.; Schwarte, J.: Feasability of forecasting ecological performances of products in early development phases. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Hein, H.; Schwarte, J.: Products in early development phases: ecological classification and evaluation using an interval arithmetic based calculation approach. In: World Academy of Science, Engineering and Technology, International Journal of Energy and Environmental Engineering 13 (2019), Nr. 5, pp. 368-374

Hejazi, B.; Sakiyama, N.; Frick, J.; Garrecht, H.: Hygrothermal Simulations Comparative Study: Assessment of Different Materials Using WUFI and DELPHIN Software, Proceedings of Building Simulation 2019: 16th Conference of IBPSA

Hennrich, C.C.; Luthardt, C.; Reeb, S.; Garrecht, H.; Diers, C.: Schloss Erleben - Innovative Sanierungsmethoden für die denkmalgerechte, ressourcenschonende Sanierung denkmalbedeutender Kulturgüter als Bildungs- und Informationsprogramm. In: Bausubstanz 10 (2019), Nr. 1, S. 24-31

Hofmann, J.: Lastverteilung bei Querlasten. In: Erläuterungen zu Din EN 1992-4 Bemessung der Verankerung von Befestigungen in Beton. Berlin, Wien, Zürich : Beuth, 2019. (Deutscher Ausschuss für Stahlbeton ; 615), S. 104-114

Hofmann, J.; Dambach, L.; Köse, C.: Corrosion of bonded anchors in concrete. In: Otto-Graf-Journal 18 (2019), S. 131-140

Hofmann, J.; Fuchs, W.; Schlüter, F.-H.: Bemessung von Befestigungen mit Hebelarm. In: Erläuterungen zu Din EN 1992-4 Bemessung der Verankerung von Befestigungen in Beton. Berlin, Wien, Zürich : Beuth, 2019. (Deutscher Ausschuss für Stahlbeton ; 615), S. 141-162

Hofmann, J.; Lakhani, H.; Aggarwal, J.: Post-installed rebars – pull-out capacity during fire. In: : Otto-Graf-Journal 18 (2019), S. 141-152

Hofmann, J.; Laumann, S.: Ultraschalluntersuchungen zur Identifikation von Schwerlastankern. In: CE-Papers 3 (2019), No. 2, Special Issue: Festschrift zum Jubiläum 25 Jahre Professur und 60. Geburtstag von o.Univ.-Prof. Konrad Bergmeister, pp. 200-204

Hofmann, J.; Periskic, G.: Zum Bemessungskonzept für das Verhalten von Befestigungen unter Brandbeanspruchung. In: Erläuterungen zu Din EN 1992-4 Bemessung der Verankerung von Befestigungen in Beton. Berlin, Wien, Zürich : Beuth, 2019. (Deutscher Ausschuss für Stahlbeton ; 615), S. 219-234

Kuster Maric, M.; Ozbolt, J.; Balabanic, G.: Application of the 3D chemo-hygro-thermo mechanical model on existing bridges exposed to chlorides and mechanical damages. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Kuster Maric, M.; Ozbolt, J.; Balabanic, G.: Benchmarking chloride ingress models on real-life case studies: KRK bridge and Maslenica bridge structures. In: Mandic, Ivankovic, A.; Kuster Maric, M.; Strauss, A.; Kisicek, T. (Eds.): International Conference on Sustainable Materials, Systems and Structures (SMSS 2019) - Challenges in Design and Management of Structures; 20-22 March 2019, Rovinj, Croatia. Paris : RILEM Publ., 2019, pp. 108-115

Kuster Maric, M.; Ozbolt, J.; Mandic Ivankovic, A.; Vlastic, A.; Bleiziffer, J.; Srbic, M.; Skokandic, D.; Bosnjak, J.; Lackovic, L.: Influence of concrete damage on reinforcement corrosion. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Lackovic, L.; Garrecht, H.: Experimental and numerical comparison of bio-based and conventional phase change materials for thermal storage applications. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Lakhani, H.; Hofmann, J.: Effect of loss in concrete cover during fire on the predicted temperature distribution. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Lakhani, H.; Hofmann, J.: Effect of loss of concrete cover on the fire resistance of Reinforced Concrete (RC) beams: numerical study using fiber beam-column element. In: Huang, S.S.; Burgess, I. (Eds.): Proceedings of the 6th International Workshop on Concrete Spalling due to Fire Exposure, University of Sheffield, Sheffield, United Kingdom, 19-20 September 2019. Sheffield, UK : University of Sheffield, 2019

Lakhani, H.; Hofmann, J.: Effect of spalling on predicted temperature gradients and flexural capacity: numerical model. In: Journal of Structural Fire Engineering, 11 (2019), No. 2, pp. 151-165

Lakhani, H.; Ozbolt, J.: Numerical investigations on the behaviour of reinforced concrete columns exposed to fire. In: Otto-Graf-Journal 18 (2019), S. 171-182

Lakhani, H.; Ozbolt, J.: Structural behaviour of reinforced concrete (RC) columns under fire. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Lakhani, H.; Ozbolt, J.; Boldbaatar, B.: Predicting the fire rating of reinforced concrete columns: effect of load induced thermal strains. In: Baricevic, A.; Jelcic Rukavina, M.; Damjanovic, D.; Guadagnini, M. (Eds.): International Conference on Sustainable Materials, Systems and Structures (SMSS 2019) - Durability, Monitoring and Repair of Structures; 20-22 March 2019, Rovinj, Croatia. Paris : RILEM Publ., 2019, pp. 462-469

Lakhani, H.; Vucko, H.; Ozbolt, J.; Harapin, A.: Behavior of concentrically loaded reinforced concrete columns under design fire. In: Derkowski, W., u.a. (Eds.): Concrete - Innovations in Materials, Design and Structures; Proceedings of the fib Symposium 2019, held in Krakow, Poland, 27-29 May 2019, pp. 598-604

Lin, H.; Zhao, Y.; Feng, P.; Ye, H.; Ozbolt, J.; Jiang, C.; Yang, J.-Q.: State-of-the-art review on the bond properties of corroded reinforcing steel bar. In: Construction and Building Materials 213 (2019), pp. 216-233

Lin, H.; Zhao, Y.; Ozbolt, J.; Feng, P.; Jiang, C.; Eligehausen, R.: Analytical model for the bond stress-slip relationship of deformed bars in normal strength concrete. In: Construction and Building Materials 198 (2019), pp. 570-586

Mack, A.; Lackovic, L.; Lisin, W.; Blatt, C.; Garrecht, H.: Thermoelectric district supply concept including e-mobility. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Mahadik, V.; Hofmann, J.: Creep behaviour of tension loaded adhesive anchors in non-cracked low strength concrete. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Mahrenholtz, C.; Eligehausen, R.: Groups of reinforcing bar anchorages - a comparison of the capacity calculated as end anchorage and as adhesive anchor. In: Derkowski, W., u.a. (Eds.): Concrete - Innovations in Materials, Design and Structures; Proceedings of the fib Symposium 2019, held in Krakow, Poland, 27-29 May 2019, pp. 568-575

Mahrenholtz, P.; Eligehausen, R.: Anchor displacement behaviour during simultaneous load and crack cycling. In: Derkowski, W., u.a. (Eds.): Concrete - Innovations in Materials, Design and Structures; Proceedings of the fib Symposium 2019, held in Krakow, Poland, 27-29 May 2019, pp. 1014-1020

Mallée, R.; Fuchs, W.; Eligehausen, R.: Bemessung von Verankerungen in Beton nach EN 1992-4. In: Bergmeister, K.; Fingerloos, F.; Wörner, J.-D. (Eds.): Beton-Kalender 2020. Berlin : Ernst & Sohn, 2019

Marchisella, A.; Muciaccia, G.; Sharma, A.; Eligehausen, R.: Experimental investigation on a beam-to-column joint with slab and transverse beam under cyclic loading. In: Bamonte, P. (Ed.): 5th Workshop on the new boundaries of structural concrete, September 19 - 20, 2019, Milan, Italy. Milano : Politecnico di Milano, 2019, pp. 283-292

Markert, M.; Birtel, V.; Garrecht, H.: Influence of concrete humidity on the temperature development under fatigue compressive loading. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Markert, M.; Birtel, V.; Garrecht, H.: Temperature and humidity induced damage processes in concrete due to pure compressive fatigue loading. In: Derkowski, W., u.a. (Eds.): Concrete - Innovations in Materials, Design and Structures; Proceedings of the fib Symposium 2019, held in Krakow, Poland, 27-29 May 2019, pp. 1928-1935

Mielich, O.; Reinhardt, H.-W.; Özkan, H.: Kriechen und mechanische Eigenschaften von Straßenbetonen nach AKR-provozierender Lagerung. In: Beton-und Stahlbetonbau 114 (2019), Nr. 6, S. 419-429

Nürnberg, U.; Köse, C.: Causes and mechanisms of corrosion in support structures of roof mounted photovoltaic systems. In: Otto-Graf-Journal 18 (2019), S. 221-228

Ozbolt, J.; Balabanic, G.; Orsanic, F.: Modeling corrosion of steel reinforcement in concrete. In: Mandic, Ivankovic, A.; Kuster Maric, M.; Strauss, A.; Kisicek, T. (Eds.): International Conference on Sustainable Materials, Systems and Structures (SMSS 2019) - Challenges in Design and Management of Structures; 20-22 March 2019, Rovinj, Croatia. Paris : RILEM Publ., 2019, pp. 116-123

Ozbolt, J.; Balabanic, G.; Orsanic, F.: Modelling corrosion of steel reinforcement in concrete. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Ozbolt, J.; Balabanic, G.; Orsanic, F.: Modelling corrosion of steel reinforcement in concrete (pozvano predavanje). In: Mini-Symposium on Numerical Methods within the project "Novel, Efficient Iterative Procedure for the Structural Analysis –Generalisation of Modern Methods", June 10, 2019, University of Zagreb Faculty of Civil Engineering, Zagreb, Croatia, pp. 55-67

Ozbolt, J.; Brajkovic, A.; Lin, H.: Modeling corrosion of steel reinforcement in concrete: natural vs. accelerated corrosion. In: Pijaudier-Cabot, G.; Grassl, P.; La Borderie, C.: 10<sup>th</sup> International Conference on Fracture Mechanics of Concrete and Concrete Structures, FraMCoS X

Ozbolt, J.; Ruta, D.; Irhan, B.: Impact analysis of thermally pre-damaged reinforced concrete slabs: verification of the 3D FE model. In: International Journal of Impact Engineering 133 (2019), ID 103343

Ozbolt, J.; Ruta, D.; Irhan, B.: Numerical study of reinforced concrete slabs under extreme loading conditions: Impact and fire. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Ramadan, Z.; Garrecht, H.: Thermal flow simulation for an energy garden building block. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Reinhardt, H.-W.; Mielich, O.; Müller, B.: Zum Kriechen von Beton mit Superabsorbierenden Polymeren unter Druckbeanspruchung. Beton- und Stahlbetonbau 114 (2019), Nr. 7, S. 448-453

Reinhardt, H.W.; Özkan, H.; Mielich, O.: Changes in mechanical properties of concrete due to ASR. In: Hormigón y Acero 69 (2019), pp. 15-19

Reinhardt, H.W.; Özkan, H.; Mielich, O.: Creep of concrete as influenced by the rate of expansion due to alkali-silica reaction. In: Structural Concrete 20 (2019), Nr. 5, pp. 1781-1791

Rex, J.; Sharma, A.; Hofmann, J.: A new test specimen to investigate the bond behavior of post-installed reinforcing bars. In: Structural Concrete 20 (2019), No. 2, pp. 583-596

Rohringer, W.; Sommerhuber, R.; Csaszar, L.; Panzer, N.; Wald, S.; Fischer, B.; Garrecht, H.; Grüner, F.; Frick, J.: Material characterization via contact-free detection of surface waves using an optical microphone. In: Ganjian, E.; Limbachiya, M.; Ghafoor, N.; Claisse, P.; Bagheri, M. (Eds.): 5<sup>th</sup> Int. Conf. on Sustainable Construction Materials and Technologies (SCMT5), 14-17 July 2019, Kingston University in Cooperation with Coventry University London, United Kingdom

Sadeghi, N.; Sharma, A.: Pull-out test for studying bond strength in corrosion affected reinforced concrete structures. In: Otto-Graf-Journal 18 (2019), S. 259-272

Sakiyama, N.R.M.; Frick, J.; Garrecht, H.: Determination of u-values of render systems supposed to weathering. In: Otto-Graf-Journal 18 (2019), S. 273-284

Sakiyama, N.R.M.; Hejazi, S.B.M.; Frick, J.; Lehmann, F.; Garrecht, H.: Humidity and Temperature Variation in Building Stones: Comparing Simulation Results and Impedance Measurements. In: Proceedings of Building Simulation 2019: 16th Conference of IBPSA

Sakiyama, N.R.M.; Hejazi, S.B.M.; Oliveira, C.C. de; Frick, J.; Garrecht, H.: Effect of traditional persian materials and parametric design of the thermal performance of a generic building in mediterranean climate. In: Central Europe towards Sustainable Building 2019 (CESB19), IOP Conf. Series, Earth and Environmental Science 290 (2019)

Sauer, J., Musialak, J., Steeb, H., Markert, M., Birtel, V., Garrecht, H. Experimental characterization of effective mechanical properties of (micro-) fractured high performance concrete. In: Zingoni, A. (Ed.): Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications: Proceedings of the 7th International Conference on Structural Engineering, Mechanics and Computations, pp. 1439-1443.

Schmieder, P.: Adhesive anchors on concrete surfaces. In: Otto-Graf-Journal 18 (2019), S. 285-290

Schwarte, J.; Hein, H.: „Certainty“, „Safety“ and „Security“ in civil engineering science with respect to LCA. In: Otto-Graf-Journal 18 (2019), S. 291-300

Schwarte, J.; Hein, H.L.: Treatment of uncertainties in green engineering. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Sharma, A.: Urgent need for a performance-based approach for seismic assessment and design of fastenings used in structural applications. In: Advancements in Civil Engineering and Technology 3 (2019), Nr. 1, pp. 285-287

Sharma, A.; Bosnjak, J.; Bessert, S.: Experimental investigations on residual and performance in concrete subjected to elevated temperature. In: Engineering Structures 187 (2019), pp. 384-395

Sharma, A.; Eligehausen, R.; Asmus, J.; Bujnak, J.: Anchorages with supplementary reinforcement under tension, shear and interaction loads - experimental database. In: Derkowski, W., u.a. (Eds.): Concrete - Innovations in Materials, Design and Structures; Proceedings of the fib Symposium 2019, held in Krakow, Poland, 27-29 May 2019, pp. 667-674

Sippel, T.; Hofmann, J.: Der Beam-End-Test zur Überprüfung des Verbundverhaltens von Bewehrungsstahl in Beton. In: KI Konstruktiver Ingenieurbau 4 (2019), Nr. 6, S. 11-21

Sola, E.; Ozbolt, J.; Balabanic, G.; Mir, Z.M.: Experimental and numerical study of accelerated corrosion of steel reinforcement in concrete: transport of corrosion products. In: Cement and Concrete Research 120 (2019), pp. 119-131

Stadlbauer, E.; Achhammer, C.; Berling, H.; Fiebiger, C.; Garrecht, H.; Goltz, M. von der; Meyer-Bothling, M.; Petersen, K.; Ramadan, Z.: Das Modellprojekt Celler Schlosskapelle oder: Wieviel Mensch verträgt das Denkmal. In: Birkenbeul, I.; Weyer, A. (Hrsg.): Klimazone Kirche: Präventive Konservierung der Ausstattung; Tagungsband der interdisziplinären Tagung der HAWK Hochschule für angewandte Wissenschaft und Kunst vom 16. Bis 18. Januar 2019 in Hildesheim Berlin: Bäßker Verlag, 2019 (Schriften des Hornemann-Instituts ; 20), S. 71-75

Stehle, E.; Sharma, A.: Assessment of Post-Installed Anchors for Seismic Strengthening of RC Structures Using Steel Bracing. In: Proceedings of the SECED 2019 Conference on Earthquake and Civil Engineering Dynamics; 9-10 September 2019, Greenwich, London.

Stehle, E.J.; Sharma, A.: A new assessment approach for post-installed anchors used in seismic applications. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Stehle, E.; Sharma, A.: Numerical investigations of anchor groups under seismic actions. In: Otto-Graf-Journal 18 (2019), S. 313-324

Stipetic, M., Hein, H.: Certification, Life-Cycle Aspects and AMANAC cluster. Wall-Ace Workshop, Advanced Aerogel Insulation materials for the Building Envelope, Glasgow, 2019

Stipetic, M.; Hein, H.: Mit mehr Luft effektiver dämmen - Aerogele als innovative Dämmung. In: Magazin Denkmalsanierung 2019 / 2020, S. 67-69

Stipetic, M.; Hein, H.; Frick, J.: Certification, Life Cycle Aspects and AMANAC Cluster. In: Wall-ACE Workshop – Advanced Aerogel Insulation materials for the Building Envelope – New Solutions, performance and market perspective, September 3th 2019, 16th IBPSA International Conference, 2-4 September 2019, Rome, Italy

Stipetic, M.; Hofmann, J.: Tragverhalten und Tragfähigkeit von Injektionsdübeln in Lochsteinen unter Berücksichtigung der Steingeometrie. In: Jäger, W. (Hrsg.) Mauerwerk-Kalender 2019. Berlin : Ernst & Sohn, 2019

Toth, M.; Bokor, B.; Sharma, A.: Anchorage in steel fiber reinforced concrete - concept, experimental evidence and design recommendations for concrete cone and concrete edge breakout failure modes. In: Engineering Structures 181 (2019), pp. 60-75

Toth, M.; Bokor, B.; Sharma, A.: Design recommendations for fasteners for use in steel fiber reinforced concrete. In: Derkowski, W., u.a. (Eds.): Concrete - Innovations in Materials, Design and Structures; Proceedings of the fib Symposium 2019, held in Krakow, Poland, 27-29 May 2019, pp. 137-145

Toth, M.; Hofmann, J.: Programme loading fatigue tests on cast-in headed studs. In: Otto-Graf-Journal 18 (2019), S. 345-356

Vita, N.; Sharma, A.; Hofmann, J.: Local strengthening of anchorages with post-installed (supplementary) reinforcement. In: 7th International Conference on Euro Asia Civil Engineering Forum - IOP Conference Series: Materials Science and Engineering 615 (2019)

Vita, N.; Sharma, A.; Hofmann, J.: Strengthening of anchorages with post-installed supplementary reinforcement under shear loading. In: Otto-Graf-Journal 18 (2019), S. 357-370

Weber, M.; Sharma, A.; Hofmann, J.: Monotonic tests on masonry elements with different angles of inclination of the bed joints under uniaxial compression. In: International Journal of Masonry Research and Innovation 4 (2019), Nr. 3, pp. 243-264