

PUBLICATIONS

a) PATENTS

UNITED STATES PATENT NO: US 9,127,457 B2, Sep. 8, 2015, Machine for deforming and cutting plastic strips for enhancing concrete, Mohammad J. M. Al-Shannag, and Abdulrahman M. Alhozaimy, King Saud University.

b) SELECTED JOURNAL PUBLICATIONS:

- [1] **Shannag, M. J.,** "High Strength Concrete Containing Natural Pozzolan and Silica Fume", *Journal of Cement and Concrete Composites*, 22, 2000, pp. 399-406.
- [2] **Shannag, M. J.,** High Performance Cementitious Grouts for Structural Repair, *Journal of Cement and Concrete Research*, 32, 2, 2002, pp. 803-808.
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- [6] **Shannag, M. J., Shaia, H. A.,** "Sulfate resistance of high performance concrete," *Cement and Concrete Composites*, 25 (2003) 363-369.
- [7] **Shannag, M. Jamal, Bin Ziyad, Tareq,** Flexural response of ferrocement with fibrous cementitious matrices, *Construction and Building Materials*, 21, 2007, pp. 1198-1205.
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- [11] **Shannag, M.J.**, Shehab, S.M., "Flowable High Strength Cementitious Matrices for Ferrocement Applications, *Construction and Building Materials Journal*, 36, 2012, pp 933-939.
- [12] **Shannag, M. Jamal**, Al-Ateek, Suzan A., "Flexural behavior of strengthened concrete beams with corroding reinforcement", *Construction and Building Materials*, 20, 2006, pp. 834-840.
- [13] **Shannag, M.**, and Hansen, W., "Tensile Properties of Fiber-Reinforced Very High Strength DSP Mortar" *Magazine of Concrete Research*, 52, 2, 2000, pp. 101-108.
- [14] **Shannag, M.**, Al-Rousan, R., "Shear strengthening of high strength reinforced concrete beams using fibrous composites, *Magazine of Concrete Research*, 56, 7, 2004, pp. 419-428.
- [15] **Al-Shannag, M.J.**, Charif, A., Bond behavior of steel bars embedded in concretes made with natural lightweight aggregates, *Journal of King Saud University - Engineering Sciences* 29 (2017) 365-372.
- [16] **Shannag, M.**, Barakat, S., Abdul-Kareem, M., "Cyclic Behavior of HPFRC-Repaired Reinforced Interior Beam-Column Joints" *Journal of Materials and Structures, RILEM*, 35, 2002, pp 348-356.
- [17] **Shannag, M.**, Barakat, S., Jaber, F., "Structural Repair of Shear-Deficient Reinforced Concrete Beams Using SIFCON", *Magazine of Concrete Research*, 53, No. 6, 2001, pp. 391-403.
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- [19] **Shannag, M.**, Hansen, W., and Tjiptobroto, P.: "Interface Debonding in Fiber-Reinforced Cement-Matrix Composites", *Journal of Composite Materials*, 33, 2, 1999, pp. 158-175.

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- [21] **Shannag**, Brincker, and Hansen: "Interfacial (Fiber-Matrix) Properties of High Strength Mortar (150 MPa) From Fiber Pullout." *ACI Materials Journal*, 93, 5 1996. pp. 480-486.
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- [23] **M. Jamal Shannag**, Abdelhamid Charif, Saleh Dghaither, Developing structural lightweight concrete using volcanic scoria available in Saudi Arabia, *Arabian Journal for Science and Engineering*, 2014, 39: pp 3525-3534.
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- [33] Abdelhamid Charif, **M. Jamal Shannag** Saleh Dghaither, Ductility of reinforced lightweight concrete beams and columns, *Latin American Journal of Solids and Structures*, 11, 2014, pp 1251-1274.
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c) SELECTED INTERNATIONAL CONFERENCES PUBLICATIONS

- [1] **M. Jamal Shannag**, Saleh Aldghaither, Abdelhamid Charif, Flexural Response of Concretes Containing Natural Lightweight Aggregates, *International Conference on Civil Engineering and Applied Mechanics*, Turkey, June 2013.
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- [4] **M. Shannag,** S. Barakat, M. Kareem, "Repair of Concrete Beam-Column Joints using Fibrous Composites", *International Congress on Challenges of Concrete Construction*, 5-9 September, 2002 Dundee, Scotland.
- [5] **Shannag, M.,** Jaber, F., Barakat, S., "Strengthening of Reinforced Concrete Beams using High Performance Cementitious Composites", *7th International Conference on Inspection Appraisal , Repairs, & Maintenance of Buildings & Structures*, 11-13 september, 2001, Nottingham, U.K.
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- [9] **M. Shannag,** A. Charif, S. Naser, F. Faisal, A. Karim, Structural Behavior of Lightweight Concrete Made With Scoria Aggregates and Mineral Admixtures, *International Conference on Civil, Structural and Environmental Engineering*, Issue 85, pp 334-338, London, January 2014.
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- [11] **Shannag, M. J.:** "Pullout Characteristics of Steel Fibers from very High Strength Cementitious Matrices", *Fourth International Conference on Concrete Technology in Developing Countries*, Gazimagusa, Turkey, November, 1996.
- [12] Salman AlNasser, **M. Jamal Shannag,** Abdelhamid Charif, Proceedings of the Second *International Conference on Advances in Civil, Structural,*

and Environmental Engineering,-ACSEE 2014, Institute of research Engineers and Doctors, USA.

- [13] Aldossari, K., Elsaigh, W., **Shannag, M.**, 'Effect of Steel Fibers on Flexural Behavior of Normal and High Strength Concrete', *International Conference on Civil, Architectural Science and Engineering*, 8(1), 21 - 26, Zurich, January 2014.