

### **About theory, measurements and simulations of short fiber reinforced concrete**

**Herrmann, Heiko** General Assembly of the Marie Curie Alumni Association : 4 to 5 March 2016, Venice, Italy : book of abstracts 2016 / p. 30 : ill [https://www.mariecuriealumni.eu/sites/default/files/mcaa\\_book\\_of\\_abstracts\\_april\\_2016.pdf](https://www.mariecuriealumni.eu/sites/default/files/mcaa_book_of_abstracts_april_2016.pdf)

### **An improved constitutive model for short fibre reinforced cementitious composites (SFRC) based on the orientation tensor**

**Herrmann, Heiko** Generalized continua as models for classical and advanced materials 2016 / p. 213-227 [https://doi.org/10.1007/978-3-319-31721-2\\_10](https://doi.org/10.1007/978-3-319-31721-2_10)

### **An Initial report on the effect of the fiber orientation on the fracture behavior of steel fiber reinforced self-compacting concrete**

**Herrmann, Heiko; Braunbrück, Andres; Tuisk, Tanel; Goidyk, Oksana; Naar, Hendrik** Short fibre reinforced cementitious composites and ceramics 2019 / p. 33-50 [https://doi.org/10.1007/978-3-030-00868-0\\_3](https://doi.org/10.1007/978-3-030-00868-0_3) [Article collection metrics at Scopus](#) [Article at Scopus](#)

### **An orthotropic material model for steel fibre reinforced concrete based on the orientation distribution of fibres**

**Eik, Marika; Puttonen, Jari; Herrmann, Heiko** Composite structures 2015 / p. 324-336 : ill <http://dx.doi.org/10.1016/j.compstruct.2014.11.018>

### **Analysis and 3D visualisation of microstructured materials on custom-built virtual reality environment = Virtuaalkeskonna arendamine mikrostruktuursete materjalide analüüsiks ja kolmemõõtmeliseks visualiseerimiseks**

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### **Analysis of short fibres orientation in steel fibre-reinforced concrete (SFRC) by X-ray tomography**

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**Kartofelev, Dmitri; Goidyk, Oksana; Herrmann, Heiko** Proceedings of the Estonian Academy of Sciences 2020 / p. 298-310 : ill <https://doi.org/10.3176/proc.2020.4.03> [Journal metrics at Scopus](#) [Article at Scopus](#) [Journal metrics at WOS](#) [Article at WOS](#)

### **CFD comparison of the influence of casting of samples on the fiber orientation distribution**

**Goidyk, Oksana; Heinštein, Mark; Herrmann, Heiko** Fibers 2023 / art. 6 <https://doi.org/10.3390/fib11010006>

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### **Comparison of measured fiber orientation in fiber concrete with predictions by CFD simulations**

**Herrmann, Heiko; Goidyk, Oksana; Braunbrück, Andres; Marjapuu, Rasmus-Richard; Tuisk, Tanel** M2D2017 : proceedings of the 7th International Conference on Mechanics and Materials in Design : (Albufeira/Portugal, 11-15 June 2017) 2017 / p. 1245-1246 : ill [https://paginas.fe.up.pt/~m2d/Proceedings\\_M2D2017/data/papers/Book.pdf](https://paginas.fe.up.pt/~m2d/Proceedings_M2D2017/data/papers/Book.pdf)

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**Variation of bending strength of fiber reinforced concrete beams due to fiber distribution and orientation and analysis of microstructure**

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