

PUBLICATION LIST**KARI TÖRRÖNEN****26.11.2015**

Code	Year	Authors	Subject
Thesis publications			
T1	1969	TÖRRÖNEN Kari	Vedyn vaikutus Zircaloy-2:n lujuusominaisuuksiin. (Effect of hydrogen on strength properties of Zircaloy-2). Diploma Thesis for MSc. Espoo, Helsinki University of Technology, Department of Mining and Metallurgy. 87 p. (in Finnish)
T2	1976	TÖRRÖNEN Kari	The effect of quenching and tempering on microstructure and mechanical properties of a Cr-Mo-V pressure vessel steel. VTT-RMR B-7. Department for Mining and Metallurgy, Licentiate Thesis. Espoo, Helsinki University of Technology. 207 p.
T3	1979	TÖRRÖNEN Kari	Microstructural parameters and yielding in a quenched and tempered Cr-Mo-V pressure vessel steel. Doctor's Dissertation for Helsinki University of Technology, Espoo. Technical Research Centre of Finland, Materials and Processing Technology Division. Publication 22. 108p.
Articles (Peer reviewed in journals, books and conference proceedings)			
S1	1979	TÖRRÖNEN Kari, KOTILAINEN Heikki & NENONEN Pertti	Combination of elementary hardening mechanisms in a Cr-Mo-V steel. Strength of Metals and Alloys 2. Eds. P. Hansen, V. Gerold and G. Kostorz. Pergamon Press, Oxford. P. 1437 - 1442.
S2	1979	KOTILAINEN Heikki, TÖRRÖNEN Kari & NENONEN Pertti	Microstructural effects on the temperature dependence of the yield strength in a Cr-Mo-V steel. Strength of Metals and Alloys, 2. Eds. P. Hansen, V. Gerold and G. Kostorz. Pergamon Press, Oxford. P. 1431 - 1436.
S3	1979	SUNDSTRÖM Olavi & TÖRRÖNEN Kari	The use of Barkhausen noise analysis in non-destructive testing. Materials Evaluation 37, 3, p. 51 -56.
S4	1980	TÖRRÖNEN Kari	A method for measuring the planar interparticle distance between plate-like precipitates. Elsevier North Holland. Metallography 13, 4, p. 329 - 344.

- S5 1981 TÖRRÖNEN Kari, KOTILAINEN Heikki & NENONEN Pertti A microstructural analysis of cleavage crack propagation in a bainitic pressure vessel steel. Analytical and Experimental Fracture Mechanics. Eds G.C. Sih and M. Mirabile, Sijthoff & Noordhoff, The Netherlands. P. 489 - 496.
- S6 1981 TÖRRÖNEN Kari, KOTILAINEN Heikki & NENONEN Pertti A comparison of brittle fracture behaviour of variously tempered martensitic and bainitic structures of secondary hardening Cr-Mo-V pressure vessel steel. Advances in Fracture Research (ICF5). Ed. D. Francois, Pergamon Press, Oxford. P. 731 - 738.
- S7 1981 CULLEN William, WATSON Henry, TAYLOR Robert E. & TÖRRÖNEN Kari. Fatigue crack growth rates of irradiated pressure vessel steels in simulated nuclear coolant environment. Effects of Radiation on Materials, ASTM STP 725, eds D. Kramer, H.R. Brager and J.S. Perrin. American Society for Testing and Materials. Philadelphia, PA. P. 102 - 111.
- S8 1981 KOTILAINEN Heikki, TÖRRÖNEN Kari & NENONEN Pertti The effect of packet boundaries on the fracture toughness of a bainitic microstructure. Advances in Fracture Research (ICF5). Ed. D. Francois, Pergamon Press, Oxford. P. 723 - 730.
- S9 1981 KOTILAINEN Heikki, TÖRRÖNEN Kari & NENONEN Pertti The influence of the microstructure on the fracture toughness of a bainitic steel. Technical Research Centre of Finland, Espoo. Analytical and Experimental Fracture Mechanics. Eds G.C. Sih and M. Mirabile, Sijthoff & Noordhoff, The Netherlands. P. 465 - 475.
- S10 1981 NENONEN Pertti, TÖRRÖNEN Kari, KEMPPAINEN Markku & KOTILAINEN Heikki Application of SEM for correlating fracture topography and microstructure. Fractography and Materials Science, ASTM STP 733. Eds L.N. Gilbertson and R.D. Zipp, American Society for Testing and Materials. Philadelphia, PA. P. 387 - 393.
- S11 1981 PROVENZANO Virgil, TÖRRÖNEN Kari, CULLEN William & GABETTA Giovanna Fractography and mechanisms of environment-assisted crack growth in A508-2 pressure vessel steel in reactor grade water. Tenth Conf On Analytical and Experimental Fracture Mechanics, Rome, Italy, June 23-27, 1980. Eds G.C. Sih and M. Mirabile, Sijthoff & Noordhoff. The Netherlands. P. 211 - 222.
- S12 1981 PROVENZANO Virgil, TÖRRÖNEN Kari, STURM Dietmar & CULLEN William Fractographic and microstructural analyses of stress corrosion cracking of ASTM A533 grade B class 1 plate and ASTM A508 class 2 forging in pressurized reactor-grade water at 93 °C. Fractography and Materials Science, ASTM STP 733. Eds L.N. Gilbertson and R.D. Zipp. American Society for Testing and Materials. Philadelphia, PA. P. 70-85.

S13	1982	TÖRRÖNEN Kari & CULLEN William Jr.	The effect of light water reactor environments on the fatigue crack growth rate in reactor pressure vessel steels. Low-Cyclic Fatigue and Life Prediction. ASTM STP 770, eds C. Amzallag, B.N. Leis and P. Rabbe. American Society for Testing and Materials, Philadelphia, PA. P. 460-481.
S14	1982	TÖRRÖNEN Kari, SAARIO Timo, HÄNNINEN Hannu, KEMPPAINEN Markku & SALONEN Seppo	The effect of inclusions on the environmentally accelerated cyclic crack growth of reactor pressure vessel steels in simulated LWR environments. Fracture and the Role of Microstructure, Vol. II, Fatigue. Eds. K.L. Maurer and F.E. Matzer, Engineering Materials Advisory Services Ltd., UK. P. 539 - 544.
S15	1982	TÖRRÖNEN Kari, HÄNNINEN Hannu & KEMPPAINEN Markku	Corrosion fatigue of pressure vessel steels in nuclear reactor environments. Korrosionsproblem i reaktormaterial. Espoo. Technical Research Centre of Finland, VTT Symposium 21, p. 117 - 156.
S16	1983	TÖRRÖNEN Kari & KEMPPAINEN Markku	Fractography and mechanisms of environmentally enhanced fatigue crack propagation of a reactor pressure vessel steel. Corrosion Fatigue: Mechanics, Metallurgy, Electrochemistry and Engineering, ASTM STP 801. Eds. T.W. Crooker & B.N. Leis, American Society for Testing and Materials, Philadelphia, PA. P. 287-318.
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S18	1983	HÄNNINEN Hannu, TÖRRÖNEN Kari, KEMPPAINEN Markku & SALONEN Seppo	On the mechanisms of environment sensitive cyclic crack growth of nuclear reactor pressure vessel steels. Corrosion Science 23, 6, p. 663 - 679.
S19	1983	WALLIN Kim, SAARIO Timo, AUERKARI Pertti, SAARINEN Heikki & TÖRRÖNEN Kari	Comparison of potential drop unloading compliance methods in determining ductile crack extension. Elastic-Plastic Fracture Test Methods: The User's Experiments, ASTM STP 856. Eds E. T. Wessel and F. J. Loss, American Society for Testing and Materials, Philadelphia, PA. P. 363 - 374.
S20	1984	WALLIN Kim, SAARIO Timo & TÖRRÖNEN Kari.	A statistical model for carbide induced brittle fracture in steel. Metal Science Vol.18, 1, p. 13 — 16, January 1984
S21	1984	TÖRRÖNEN Kari	Environmentally assisted fatigue crack growth of pressure vessel and piping steels in nuclear power plants. Subcritical crack growth due to fatigue, stress corrosion and creep. Ed. L. H. Larsson, Elsevier Science Publishers B.V., Amsterdam. P. 331 - 363.

S22	1984	TÖRRÖNEN Kari, KEMPPAINEN Markku & HÄNNINEN Hannu	Fractographic evaluation of the ICCGR corrosion fatigue round robin test results on A533B pressure vessel steel. EPRI NP-3483, Research Project 1325-7, Final Report. Electric Power Research Institute, Palo Alto, CA. 84p. + app. 10 p.
S23	1984	TÖRRÖNEN Kari, SAARIO Timo, WALLIN Kim & FORSTEN Jarl	Evaluation of the effect of metallurgical variables on materials behaviour and reference curves. International Symposium on Reliability of reactor pressure components. Stuttgart, 21-25 March 1983. Journal of Pressure Vessels and Piping 15, 4, p. 251 - 269.
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S25	1984	SAARIO Timo, WALLIN Kim & TÖRRÖNEN Kari	On the microstructural basis of cleavage fracture initiation in ferritic and bainitic steels. Journal of Engineering Materials and Technology, 106, 2, p. 173 - 177.
S26	1984	WALLIN Kim, SAARIO Timo, TÖRRÖNEN Kari & FORSTEN Jarl	A micromechanism based statistical model for brittle fracture. Advances in Fracture Research (Fracture 84). Eds S.R. Valluri, D.M.R. Taplin, P. Rama Rao, J.F. Knott & R. Dubey, Pergamon Press, Oxford. P. 1465- 1471.
S27	1984	WALLIN Kim, SAARIO Timo, TÖRRÖNEN Kari & FORSTEN Jarl	Mechanism based statistical evaluation of the ASME reference fracture toughness curve. The 5th International Conference on Pressure Vessel Technology, Vol. II, Materials and Manufacturing. San Francisco, 9 – 14 September, 1984. American Society of Mechanical Engineers, New York, NY. P. 966-974.
S28	1984	WALLIN Kim, SAARIO Timo & TÖRRÖNEN Kari	Theoretical scatter in brittle fracture toughness results described by the Weibull distribution. Applications of Fracture Mechanics to Materials and Structures. Eds. G.C. Sih, E. Sommer & W. Dahl, Martinus Nijhoff Publishers, Haag. P. 511 -518.
S29	1985	TÖRRÖNEN Kari, WALLIN Kim, SAARIO Timo, HÄNNINEN Hannu, RINTAMAA Rauno & FORSTEN Jarl	Optimization of metallurgical variables in fracture prevention. Nuclear Engineering and Design 87, p. 225 - 237.
S30	1985	SAARIO Timo, WALLIN Kim, SAARELMA Heikki, VALKONEN Aki & TÖRRÖNEN Kari	A computer-interactive system for elastic-plastic fracture toughness testing. Automated test methods for fracture and fatigue crack growth. ASTM STP 877, eds W.H. Cullen, R.W. Landgraft, L.R. Kaisand & J.H. Underwood. American society for testing and materials, Philadelphia, PA. P. 260 - 268.

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- S32 1986 WALLIN Kim & TÖRRÖNEN Kari
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- S35 1987 WALLIN Kim, SAARIO Timo & TÖRRÖNEN Kari
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- S36 1988 HÄNNINEN Hannu, KEMPPAINEN Markku & TÖRRÖNEN Kari
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- S37 1988 RINTAMAA Rauno, KEINÄNEN Heikki, TÖRRÖNEN Kari, TALJA Heli, SAARENHEIMO Arja & IKONEN Kari
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- S43 1989 WALLIN Kim, VALO Matti, RINTAMAA Rauno, TÖRRÖNEN Kari & AHLSTRAND Ralf Characteristics of the IAEA correlation monitor material for surveillance programmes. In: Radiation Embrittlement of Nuclear Reactor Pressure Steels: An International Review 9(1989). ASTM STP 1011. Ed. by L. E. Steele. Philadelphia, USA. American Society for Testing and Materials (ASTM). P. 91 - 111.
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S49	1993	TÖRRÖNEN Kari, SILLANPÄÄ Juha & HÄYRYNEN Jukka	Integration of quality assurance into project and laboratory management. Espoo. NORDTEST Nt techn report 197. NORDTEST Project 1013-91-2. 31 p. VTT-MET B-216.
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S53	1994	PLANMAN Tapio, PELLI Reijo & TÖRRÖNEN Kari	Irradiation embrittlement mitigation, AMES Report No. 01, 90 p. (EUR 16072 EN).
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Conference presentations

- C1 1974 TÖRRÖNEN Kari
The effect of tempering on the microstructure and mechanical properties of a Cr-Mo-V steel. Annual Meeting of the Scandinavian Society for Electron Microscopy, SCANDEM 74. Helsinki, 11 June. 14 p.
- C2 1975 TÖRRÖNEN Kari
Correlations between microstructure and toughness. Scandinavian Symposium on Elastic-Plastic Fracture Mechanics. Espoo, February 5. 45 p.
- C3 1976 TÖRRÖNEN Kari
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- C4 1977 TÖRRÖNEN Kari & KOTILAINEN Heikki
Effect of tempering treatment on the fracture behaviour of a Cr-Mo-V pressure vessel steel. Fracture 1977, 2, ed. D.M.R. Taplin, Univ. of Waterloo Press, Waterloo. P. 141 - 147.
- C5 1977 TÖRRÖNEN Kari, PELLI Reijo & KEMPPAINEN Markku
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C6	1977	KOTILAINEN Heikki & TÖRRÖNEN Kari	Correlations between crack initiation, propagation and microstructure in a medium strength Cr-Mo-V steel. Fracture 1977, 2. Ed. D.M.R. Taplin, University of Waterloo Press, Waterloo. P. 57 -63.
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C8	1979	TÖRRÖNEN Kari, PROVENZANO Virgil, GABETTA Giovanna, CULLEN William, WATSON Henry & LOSS Frank	Hydrogen-assisted crack growth of A508-2 in high temperature pressurized reactor- grade water. Int. Cyclic Crack Growth Rate Group Meeting, Firminy, France, 9 August. 33 p.
C9	1979	NENONEN Pertti, TÖRRÖNEN Kari, KEMPPAINEN Markku & KOTILAINEN Heikki	Anwendung der Rasterelektronenmikroskopie zur Auswertung der Wechselbeziehung zwischen Bruchflächte und Mikrostruktur. DVM-Bruchtagung, Stuttgart, 8 - 11 October. 7 p.
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C11	1979	SUNDSTRÖM Olavi & TÖRRÖNEN Kari	Use of Barkhausen noise method. 2. Nordiske NDT-Symposium, Kopenhagen, 21 - 23 May. 16p.
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C13	1980	TÖRRÖNEN Kari	Environmentally enhanced fatigue crack propagation in nuclear reactor vessels. IAEA Specialists' Meeting on reliability engineering and lifetime assessment of primary circuits, Vienna, 1 - 3 December. 31 p.
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C19	1982	TÖRRÖNEN Kari	Environment sensitive crack growth in pressure vessels and piping materials in nuclear power plants. Autoclave Symposium, Moscow, 20 May. 5 p. + 11 p. app. (In Russian).
C20	1982	TÖRRÖNEN Kari, HÄNNINEN Hannu & KEMPPAINEN Markku	Environmentally assisted cyclic crack growth of pressure vessel and piping steels in simulated light water reactor environments. Autoclave Symposium, Moscow, 20 May. 41 p.
C21	1982	TÖRRÖNEN Kari, SALONEN Seppo, HÄNNINEN Hannu & RAHKA Klaus	Environmentally assisted fatigue crack growth of pressure vessel steels in simulated light water reactor environments. 8th Congress on Material Testing, Budapest, 20 September - 1 October. 4 p.
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C24	1982	HÄNNINEN Hannu, TÖRRÖNEN Kari, KEMPPAINEN Markku & SAARIO Timo	Influence of inclusions on environment sensitive cyclic crack growth of nuclear reactor pressure vessel steels. Proceedings of 3rd International Congress on "Hydrogen and Materials", Paris, 7 - 11 June, Ed. P. Azou. P. 779 - 784.

C25	1982	KEMPPAINEN Markku, HÄNNINEN Hannu, TÖRRÖNEN Kari & SALONEN Seppo	Fractography in evaluation of the mechanisms of environment sensitive cyclic crack growth of nuclear reactor pressure vessel steels. The Scandinavian Society of Electron Microscopy, Annual Meeting, Jyväskylä, Finland, 7 - 9 June. 1 p.
C26	1982	RAHKA Klaus, SALONEN Seppo, TÖRRÖNEN Kari, HÄNNINEN Hannu, AALTONEN Pertti, SELIN Lauri, SILEN Lars & CHANFREAU Eric	Fatigue crack growth testing in simulated light water reactor environments. Proc. Conf. Large Testing Machines and Model Testing, Karlovy Vary, 12 - 14 October, p. 144 - 156.
C27	1982	RINTAMAA Rauno, PELLI Reijo & TÖRRÖNEN Kari	Internal forces and specimen oscillations in instrumented impact test. 8th Congress on Material Testing, Budapest, 20 September - 1 October. 4 p.
C28	1982	SALONEN Seppo & TÖRRÖNEN Kari	Insert of crack growth in autoclave facilities. Autoclave Symposium, Moscow, 20 May. 7 p. + 6 p. app. (In Russian).
C29	1982	VALKONEN Aki, IKONEN Kari, TALJA Heli & TÖRRÖNEN Kari	Development of elastic-plastic fracture mechanics technology in Finland. 8th Congress on Material Testing, Budapest, 20 September – 1 October. 4 p.
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