

Publikationen

SCHRIFTENVERZEICHNIS

Fachzeitschriftenartikel mit Peer-Review-Verfahren

- (1) **Z. Li***, H. Pasternak, Stabilitäts- und Zuverlässigkeitsanalyse von Kreiszyinderschalen unter Axialdruck bezogen auf zufällige geometrische Imperfektionen - Teil 1: Experimente, Simulationen und statistische Analysen, 2025, Bauingenieur
- (2) M. A. Dybizbański*, K. Rzeszut, S. Abdusattarkhuja, **Z. Li**, Determination of Strength Parameters of Composite Reinforcement Consisting of Steel Member, Adhesive and Carbon Fiber Textile, Materials, 2024; 17(23):6022.
- (3) **Z. Li**, H. Pasternak, F. Shi*, Shear buckling behavior of sinusoidal corrugated web girders with stiffened circular openings, Journal of Constructional Steel Research
- (4) **Z. Li***, B. Herzog, R. Erlemann, K. Geißler, Verstärkung ermüdungsgeschädigter Stahlbauteile mittels geschweißter eisenbasierten Formgedächtnislegierungen, Juni 2023, Bauingenieur
- (5) **Z. Li**, Q.L. Zhang, F. Shi*, J. Wang, H. Pasternak, Geometric Properties of Steel Components with stability and Fatigue Risks Using 3D-Laser-Scanning, January 2024, Buildings 2024(14) (168):1-21
- (6) **Z. Li***, Q.L. Zhang, R. Erlemann, K. Geißler, H. Pasternak, Von der Punktwolke zum numerischen Modell - Laserscanning von Stahlbauteilen, Dez. 2023, Bauingenieur
- (7) B. Kovesdi*, L. Dunai, H. Pasternak, **Z. Li**, R. Oly, P. Marai, Design of partial height web stiffeners in beam-to-column joints and influence of residual stresses induced by welding, Results in Engineering 18 (2023) 101042
- (8) H. Pasternak, **Z. Li**, A. Juozapaitis*, A. Daniūnas, Ring Stiffened Cylindrical Shell Structures: State-of-the-Art Review, Appl. Sci. 2022, 12, 11665.
- (9) B. Kövesdi*, **Z. Li**, L. Dunai, H. Pasternak, R. Oly, P. Marai, Teilsteifen an geschweißten Rahmenecken unter Berücksichtigung der Eigenspannungen, Bauingenieur Sep. 2022
- (10) F. Shi*, O. E. Ozbulut, **Z. Li**, Z. Wu*, F. Ren*, Y. Zhou, Effects of ambient temperature on mechanical and fatigue behavior of shape memory alloy cable, Journal of Building Engineering, Volume 52, 2022, 104340
- (11) **Z. Li***, H. Pasternak, A. Jäger-Cañás, Beulverhalten von ringversteiften Kreiszyinderschalen unter Axialdruck - Teil 1: Experimentelle Untersuchungen und geometrische Imperfektionsanalyse, Bauingenieur, Jan. 2022.
- (12) **Z. Li***, H. Pasternak, A. Jäger-Cañás, Beulverhalten von ringversteiften Kreiszyinderschalen unter Axialdruck - Teil 2: Numerische Simulation und Ableitung eines Ingenieurmodells, Bauingenieur, Apr. 2022.
- (13) Z.C. Fasoulakis*, H. Pasternak, I. Vayas, **Z. Li**, Stützen-Riegel-Knoten ohne und mit geklebter CFK-Verstärkung – Versuche und numerische Simulationen/Column-beam joints strengthened without and with bonded CFRP reinforcement – experiments and numerical simulations, June 2021, Bauingenieur 96(06). pp. 201-211.

- (14) **Z. Li***, A. Jäger-Cañás, H. Pasternak, Buckling of ring-stiffened cylindrical shell under axial compression: Experiment and numerical simulation, *Thin-walled structures*, 2021(164), 1077888.
- (15) **Z. Li***, H. Pasternak, Tragverhalten von Wellstegträgern mit einem kreisförmigen Öffnungskranz, *Bauingenieur* 96(2021), April, pp.114-120.
- (16) **Z. Li***, H. Pasternak, Statistischer Maßstabseffekt und seine Bedeutung für die Zuverlässigkeit im Stahlbau, Teil 1- Modell und Versuch, *Bautechnik*, Vol: 97, Iss: 11, 2020.
- (17) **Z. Li***, M. Loebjinski, H. Pasternak, Statistischer Maßstabseffekt und seine Bedeutung für die Zuverlässigkeit im Stahlbau, Teil 2- Zuverlässigkeitsanalyse, *Bautechnik*, Vol: 97, Iss: 11, 2020.
- (18) J. Dong*, **Z. Li**, H. Pasternak, Y. Ciupack, Reinforcement of Fatigue Damaged Steel Structures Using CFRP Lamellas - Part 3: Numerical Simulation, *Bauingenieur*, Oct. 2020, pp.362-368.
- (19) **Z. Li***, H. Pasternak, Experimental and numerical investigations of statistical size effect in S235JR steel structural elements, *Construction and Building Materials*, 206 (2019) 665–673.
- (20) **Z. Li***, H. Pasternak, Statistical size effect of flexural members in steel structures, *Journal of Constructional Steel Research*, 144 (2018) 176–185.
- (21) **Z. Li***, B. Launert, Application of the stochastic finite element method in welding simulation, *Welding in the World*, 62 (2018) 905–912.

Konferenzbeiträge mit Peer Review

- (22) **Z. Li***, Qiuyue Liu, Raphael Erlemann, Karsten Geißler, Fatigue analysis of cruciform welded joints based on E-N curves using numerical methods, *NORDIC STEEL 2024*, The 15th Nordic Steel Construction Conference, June 26–28, 2024, Luleå, Sweden.
- (23) J.Wang, **Z. Li**, M. Euler, Shear Force Resistance of Plate Girders with Trapezoidally Corrugated Webs and Reinforced Web Openings. *NORDIC STEEL 2024*, The 15th Nordic Steel Construction Conference, June 26–28, 2024, Luleå, Sweden.
- (24) **Z. Li***, H. Pasternak, K. Geißler, Experiment-based statistical distribution of buckling loads of cylindrical shells, *Proceedings in civil engineering: Eurosteel Amsterdam 2023*, September 2023, ce/papers 6(3-4):1816-1820.
- (25) **Z. Li***, S.Y. Xu, K. Geißler, J. Wang, H. Pasternak, Developed numerical Analysis of Residual Stress caused by Welding and Cutting in Steel Structures, *Proceedings in civil engineering: Eurosteel Amsterdam 2023*, September 2023, ce/papers 6(3-4):1507-1512.
- (26) J. Wang*, **Z. Li**, M. Euler, Investigation on shear buckling of steel welded I-section beams with reinforced web openings, *Proceedings in civil engineering: Eurosteel Amsterdam 2023*, September 2023, ce/papers 6(3-4):1754-1760.
- (27) J. Wang*, **Z. Li**, H. Pasternak, M. Euler, Shear Buckling Behavior of Tapered Steel Plate Girders with Sinusoidally Corrugated Webs, *Proceedings in civil engineering: Eurosteel Amsterdam 2023*, September 2023, ce/papers 6(3-4):1787-1792.
- (28) **Z. Li***, H. Pasternak, K. Geißler, Buckling Analysis of Cylindrical Shells using Stochastic Finite Element Method with Random Geometric Imperfections, in: *The*

- International Colloquium on Stability and Ductility of Steel Structures, 14.-16. Sep., University of Aveiro, Portugal.
- (29) J. Wang*, **Z. Li**, J. Robra, H. Pasternak, M. Euler, Investigation on Shear Buckling of Corrugated Web Beams with Reinforced Web Openings, in: The International Colloquium on Stability and Ductility of Steel Structures, 14.-16. Sep., University of Aveiro, Portugal.
 - (30) T. Krausche*, **Z. Li**, H. Pasternak, J. Wang, B. Launert, Simplified approach to calculate welding effect for multi-layer welds of I-girders. The Eighth International Conference on Structural Engineering, Mechanics and Computation, SEMC 2022.
 - (31) J. Wang*, M. Euler, H. Pasternak, **Z. Li**, Bending capacity of one- and two-sided welded I-section girders: part 1 - Experimental investigations. The Eighth International Conference on Structural Engineering, Mechanics and Computation, SEMC 2022.
 - (32) **Z. Li***, H. Pasternak, J. Wang, B. Launert, T. Krausche, Bending capacity of single and double sided welded I-sectional girders: part 2 - simplified welding simulation and buckling analysis. The Eighth International Conference on Structural Engineering, Mechanics and Computation, SEMC 2022.
 - (33) H. Pasternak, **Z. Li***, A. Jäger-Cañás, Investigation of the buckling behaviour of ring-stiffened cylindrical shells under axial pressure, in: Eurosteel 2021-The 9th Eur. Conf. Steel Compos. Struct., Sheffield, 2021.
 - (34) A. Jäger-Cañás*, **Z. Li**, H. Pasternak, A. Taras, On the resistance of arbitrarily ring-stiffened welded bins subject to axial compression, in: Eurosteel 2021-The 9th Eur. Conf. Steel Compos. Struct., Sheffield, 2021.
 - (35) **Z. Li***, B. Launert, Y. Ciupack, H. Pasternak: Artificial neural network prediction of bearing capacity of welded columns based on simplified welding simulations. In: Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications, Hrsg. Alphonse Zingoni, 2019, S. 1219-1223.
 - (36) B. Launert*, **Z. Li**, H. Pasternak, Development of a new method for the direct numerical consideration of welding effects in the component design of welded plate girders. In: Advances in Engineering Materials, Structures and Systems: Innovations, Mechanics and Applications, Hrsg. Alphonse Zingoni, 2019, S. 1143-1147.
 - (37) H. Pasternak, **Z. Li***, C. Stapelfeld, B. Launert, & A. Jäger-Cañás: Considering realistic weld imperfections in load bearing capacity calculations of ring-stiffened shells using the analytical numerical hybrid model, Stability and Ductility of Steel Structures 2019 – Wald & Jandera (Eds), 2019 Czech Technical University in Prague, Czech Republic, S. 882-889.
 - (38) A. Jäger-Cañás*, **Z. Li**, H. Pasternak, Axial buckling behavior of welded ring-stiffened shells. Stability and Ductility of Steel Structures 2019 – Wald & Jandera (Eds), 2019 Czech Technical University in Prague, Czech Republic, S. 556-563.
 - (39) **Z. Li***, H. Pasternak, D. Partov, Influence of Statistical Size Effect in Steel on Structural Safety. Proceeding of the 16th International Conference on New Trends in Statics and Dynamics of Buildings, October 18-19, 2018 Bratislava, 2018, pp. 185-190.
 - (40) **Z. Li***, H. Pasternak, Reliability analysis of size effect on flexural members with stochastic finite element method, in: Christian Bucher, B.R. Ellingwood, D.M.

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- (41) **Z. Li***, C. Stapelfeld, H. Pasternak, Untersuchung des Einflusses variierender Werkstoff-eigenschaften im drei Dimensionen auf die Tragfähigkeit von Bauteilen, 36. CADFEM ANSYS Simulation Conference 2018, Leipzig.
- (42) B. Launert*, **Z. Li**, H. Pasternak, Consideration of Welding Effects in the Design of Steel Structures on an Example of Welded I-girders. 70th IIW Annual Assembly and International Conference, June 25-30, 2017, Shanghai, China. Commission II – Arc Welding and Filler Metals, IIW-Document II-2026-17 and II-A-332-17.
- (43) **Z. Li***, Statistical size effect in steel structures. In: Proceedings of 4th Young Engineers Colloquium, Bochum, 2017, pp. 52-53.
- (44) **Z. Li***, H. Pasternak, Development of a stochastic material model at constant stress distribution in steel construction, XVI Int. Sci. Conf. VSU, Sofia, 2016, pp. 193-198.

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- (45) **Z. Li***, Statistical size effect in steel structure and corresponding influence on structural reliability, Brandenburg University of Technology Cottbus-Senftenberg, Dissertation, Schriftenreihe Stahlbau, Heft 13, 2018.

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