## Kai Uwe Bletzinger

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Development of a high-fidelity partitioned Fluid–Structure Interaction model of an Omega-shaped<br>Coriolis Mass Meter and comparison with experimental data. Journal of Fluids and Structures, 2022,<br>110, 103510.   | 3.4 | 1         |
| 2  | Numerical investigations of a membrane morphing wind turbine blade under gust conditions. Journal of Wind Engineering and Industrial Aerodynamics, 2022, 224, 104921.   | 3.9 | 4         |
| 3  | Load step reduction for adjoint sensitivity analysis of finite strain elastoplasticity. Structural and<br>Multidisciplinary Optimization, 2022, 65, 1.  | 3.5 | 0         |
| 4  | Computational Sensitivity Analysis for Construction Stage Models. IABSE Symposium Report, 2022, , .   | 0.0 | 0         |
| 5  | Damage detection in concrete with coda wave interferometry using a 60 kHz ultrasonic signal. IABSE<br>Symposium Report, 2022, , .   | 0.0 | 0         |
| 6  | Towards a computational engineering tool for structural sensitivity analysis based on the method of influence functions. Engineering Structures, 2022, 265, 114402.   | 5.3 | 3         |
| 7  | Investigating the Vibration Mitigation Efficiency of Tuned Sloshing Dampers Using a Two-Fluid CFD<br>Approach. Applied Sciences (Switzerland), 2022, 12, 7033.  | 2.5 | 2         |
| 8  | SensitivitÃ <b>u</b> sanalyse mit verallgemeinerten Einflussfunktionen zur Tragwerksbewertung bei<br>Modellparametervariationen/Sensitivity analysis with generalized influence functions for the<br>treatment of model parameter variations in structural analysis. Bauingenieur, 2021, 96, 191-200. | 0.1 | 3         |
| 9  | Node-Based Shape Optimization and Mechanical Test Validation of Complex Metal Components and<br>Support Structures, Manufactured by Laser Powder Bed Fusion. Lecture Notes in Networks and<br>Systems, 2021, , 10-17.   | 0.7 | 2         |
| 10 | Relaxed gradient projection algorithm for constrained node-based shape optimization. Structural and<br>Multidisciplinary Optimization, 2021, 63, 1633-1651.   | 3.5 | 5         |
| 11 | Realization of a Framework for Simulation-Based Large-Scale Shape Optimization Using Vertex<br>Morphing. Journal of Optimization Theory and Applications, 2021, 189, 164-189.   | 1.5 | 4         |
| 12 | An isogeometric b-rep mortar-based mapping method for non-matching grids in fluid-structure interaction. Advanced Modeling and Simulation in Engineering Sciences, 2021, 8, .   | 1.7 | 1         |
| 13 | A priori penalty factor determination for (trimmed) NURBS-based shells with Dirichlet and coupling constraints in isogeometric analysis. Computer Methods in Applied Mechanics and Engineering, 2021, 377, 113688.  | 6.6 | 11        |
| 14 | Efficient computation of nonlinear isogeometric elements using the adjoint method and algorithmic differentiation. Computer Methods in Applied Mechanics and Engineering, 2021, 381, 113817.  | 6.6 | 5         |
| 15 | Damage Detection at a Reinforced Concrete Specimen with Coda Wave Interferometry. Materials, 2021, 14, 5013.  | 2.9 | 10        |
| 16 | Numerical analysis of an elasto-flexible membrane blade using steady-state fluid–structure interaction simulations. Journal of Fluids and Structures, 2021, 106, 103355.  | 3.4 | 3         |
| 17 | Weak coupling of nonlinear isogeometric spatial Bernoulli beams. Computer Methods in Applied Mechanics and Engineering, 2020, 361, 112747.  | 6.6 | 11        |
| 18 | A partitioned scheme for adjoint shape sensitivity analysis of fluid–structure interactions involving non-matching meshes. Optimization Methods and Software, 2020, , 1-31.   | 2.4 | 0         |

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|----|--|-----|-----------|
| 19 | CAD-Integrated Parametric Lightweight Design With Isogeometric B-Rep Analysis. Frontiers in Built<br>Environment, 2020, 6, .   | 2.3 | 11        |
| 20 | Partitioned Strong Coupling of Discrete Elements with Large Deformation Structural Finite Elements<br>to Model Impact on Highly Flexible Tension Structures. Advances in Civil Engineering, 2020, 2020, 1-28.  | 0.7 | 5         |
| 21 | Weak imposition of constraints for structural membranes in transient<br>geometricallyÂnonlinearÂisogeometricÂanalysisÂonÂmultipatchÂsurfaces. Computer Methods in Applied<br>Mechanics and Engineering, 2019, 350, 938-994.                            | 6.6 | 16        |
| 22 | A modified search direction method for inequality constrained optimization problems using the singular-value decomposition of normalized response gradients. Structural and Multidisciplinary Optimization, 2019, 60, 2305-2323.                       | 3.5 | 5         |
| 23 | Vertex assigned morphing for parameter free shape optimization of 3-dimensional solid structures.<br>Computer Methods in Applied Mechanics and Engineering, 2019, 353, 86-106.   | 6.6 | 5         |
| 24 | Explicit dynamic isogeometric B-Rep analysis of penalty-coupled trimmed NURBS shells. Computer<br>Methods in Applied Mechanics and Engineering, 2019, 351, 891-927.  | 6.6 | 46        |
| 25 | Systematic evaluation of the interface description for fluid–structure interaction simulations using the isogeometric mortar-based mapping. Journal of Fluids and Structures, 2019, 86, 368-399.   | 3.4 | 24        |
| 26 | lloT-based Fatigue Life Indication using Augmented Reality. , 2019, , .  |     | 6         |
| 27 | Remaining Useful Life Estimation for Unknown Motors Using a Hybrid Modeling Approach. , 2019, , .  |     | 1         |
| 28 | Health indication of electric motors using a hybrid modeling approach. TM Technisches Messen, 2019,<br>86, 640-650.  | 0.7 | 0         |
| 29 | Treating Non-conforming Sensitivity Fields by Mortar Mapping and Vertex Morphing for<br>Multi-disciplinary Shape Optimization. Notes on Numerical Fluid Mechanics and Multidisciplinary<br>Design, 2018, , 135-154.                                    | 0.3 | Ο         |
| 30 | A multiply-partitioned methodology for fully-coupled computational wind-structure interaction<br>simulation considering the inclusion of arbitrary added mass dampers. Journal of Wind Engineering<br>and Industrial Aerodynamics, 2018, 177, 117-135. | 3.9 | 7         |
| 31 | Nitsche's method for formâ€finding of multipatch isogeometric membrane analysis. Proceedings in<br>Applied Mathematics and Mechanics, 2018, 18, e201800106.  | 0.2 | 3         |
| 32 | Partitioned simulation strategies for fluid–structure–control interaction problems by Gauss–Seidel<br>formulations. Advanced Modeling and Simulation in Engineering Sciences, 2018, 5, .   | 1.7 | 8         |
| 33 | Coupled simulations involving lightâ€weight structures within turbulent flows: FSI strategy and<br>nonâ€matching interface treatment for isogeometric bâ€rep analysis. Proceedings in Applied Mathematics<br>and Mechanics, 2018, 18, e201800107.      | 0.2 | 1         |
| 34 | Stabilization of a Timeâ€Đependent Discrete Adjoint Solver for Chaotic Incompressible Flows.<br>Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800124.  | 0.2 | 0         |
| 35 | Innovative CAD-integrated Isogeometric Simulation of Sliding Edge Cables in Lightweight Structures.<br>Journal of the International Association for Shell and Spatial Structures, 2018, 59, 251-258.   | 0.3 | 5         |
| 36 | Multilevel Monte Carlo Method for Stochastic Analysis of Fluid‣tructure Interaction. Proceedings<br>in Applied Mathematics and Mechanics, 2018, 18, e201800148.  | 0.2 | 0         |

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|----|---|-----|-----------|
| 37 | Realization of CAD-integrated shell simulation based on isogeometric B-Rep analysis. Advanced<br>Modeling and Simulation in Engineering Sciences, 2018, 5, .                                      | 1.7 | 24        |
| 38 | Numerical studies on the instantaneous fluid–structure interaction of an air-inflated flexible membrane in turbulent flow. Journal of Fluids and Structures, 2018, 82, 577-609.                   | 3.4 | 27        |
| 39 | Investigation of Prestress-Dependent Aerodynamic Performance of a Double Membrane Sailwing.<br>Journal of Aircraft, 2017, 54, 980-994.  | 2.4 | 1         |
| 40 | Aeroelastic simulation of the wind-excited torsional vibration of a parabolic trough solar collector.<br>Journal of Wind Engineering and Industrial Aerodynamics, 2017, 165, 67-78.               | 3.9 | 10        |
| 41 | A consistent formulation for imposing packaging constraints in shape optimization using Vertex<br>Morphing parametrization. Structural and Multidisciplinary Optimization, 2017, 56, 1507-1519.   | 3.5 | 12        |
| 42 | Embedded structural entities in NURBS-based isogeometric analysis. Computer Methods in Applied<br>Mechanics and Engineering, 2017, 325, 198-218.  | 6.6 | 30        |
| 43 | Efficient adjoint sensitivity analysis of isotropic hardening elastoplasticity via load steps reduction approximation. Computer Methods in Applied Mechanics and Engineering, 2017, 325, 612-644. | 6.6 | 12        |
| 44 | Material model based on NURBS response surfaces. Applied Mathematical Modelling, 2017, 51, 574-586.   | 4.2 | 12        |
| 45 | Aerodynamic Shape Optimization Progress on ADODG Benchmark Problems Using the elsA Software. , 2017, , .  |     | 2         |
| 46 | High fidelity CFD-CSD aeroelastic analysis of slender bladed horizontal-axis wind turbine. Journal of<br>Physics: Conference Series, 2016, 753, 042009.   | 0.4 | 17        |
| 47 | Comparison and combination of experience-based parametrization with Vertex Morphing in aerodynamic shape optimization of a forward-swept wing aircraft. , 2016, , .                               |     | 3         |
| 48 | Fluid-Structure interaction analysis and performance evaluation of a membrane blade. Journal of<br>Physics: Conference Series, 2016, 753, 102009.   | 0.4 | 6         |
| 49 | Assessment and practical application of mapping algorithms for beam elements in computational FSI.<br>European Journal of Computational Mechanics, 2016, 25, 417-445.                             | 0.6 | 4         |
| 50 | Variation of Reference Strategy - A Novel Approach for Generating Optimized Cutting Patterns of Membrane Structures. Procedia Engineering, 2016, 155, 131-141.                                    | 1.2 | 3         |
| 51 | Computational Cutting Pattern Generation Using Isogeometric B-Rep Analysis. Procedia Engineering, 2016, 155, 249-255.   | 1.2 | 2         |
| 52 | Advances in the Form-finding of Structural Membranes. Procedia Engineering, 2016, 155, 332-341.   | 1.2 | 14        |
| 53 | Computational Closed‣oop Control of Fluidâ€structure Interaction (FSCI) for Lightweight Structures.<br>Proceedings in Applied Mathematics and Mechanics, 2016, 16, 15-18.                         | 0.2 | 3         |
| 54 | Material Model Based on Response Surfaces of NURBS Applied to Isotropic and Orthotropic Materials.<br>Advanced Structured Materials, 2016, , 353-373.   | 0.5 | 3         |

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|----|--|-----|-----------|
| 55 | Assessment and improvement of mapping algorithms for non-matching meshes and geometries in computational FSI. Computational Mechanics, 2016, 57, 793-816.  | 4.0 | 25        |
| 56 | Nonlinear isogeometric spatial Bernoulli beam. Computer Methods in Applied Mechanics and Engineering, 2016, 303, 101-127.  | 6.6 | 95        |
| 57 | Integrated design and analysis of structural membranes using the Isogeometric B-Rep Analysis.<br>Computer Methods in Applied Mechanics and Engineering, 2016, 303, 312-340.                        | 6.6 | 53        |
| 58 | Parameter free structural optimization applied to the shape optimization of smart structures. Finite Elements in Analysis and Design, 2016, 111, 33-45.  | 3.2 | 10        |
| 59 | Multi-fidelity fluid–structure interaction analysis of a membrane blade concept in non-rotating,<br>uniform flow condition. Wind Energy Science, 2016, 1, 255-269.                                 | 3.3 | 5         |
| 60 | Towards shape optimization of steady-state fluid-structure interaction problems using vertex morphing. , 2015, , .   |     | 2         |
| 61 | Isogeometric Kirchhoff–Love shell formulations for biological membranes. Computer Methods in<br>Applied Mechanics and Engineering, 2015, 293, 328-347.   | 6.6 | 89        |
| 62 | Complementary numerical–experimental benchmarking for shape optimization and validation of structures subjected to wave and current forces. Computers and Fluids, 2015, 118, 69-88.                | 2.5 | 6         |
| 63 | Fully coupled co-simulation of a wind turbine emergency brake maneuver. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 144, 134-145.   | 3.9 | 13        |
| 64 | A complementary study of analytical and computational fluid-structure interaction. Computational Mechanics, 2015, 55, 345-357.   | 4.0 | 6         |
| 65 | Damping of unwanted turbulence in wave–current experiments. Coastal Engineering, 2015, 96, 38-48.  | 4.0 | 4         |
| 66 | Analysis in computer aided design: Nonlinear isogeometric B-Rep analysis of shell structures.<br>Computer Methods in Applied Mechanics and Engineering, 2015, 284, 401-457.                        | 6.6 | 175       |
| 67 | Improved semi-analytical sensitivity analysis using a secant stiffness matrix for geometric nonlinear shape optimization. Computers and Structures, 2015, 146, 143-151.                            | 4.4 | 13        |
| 68 | Domain Decomposition Methods and Kirchhoff-Love Shell Multipatch Coupling in Isogeometric<br>Analysis. Lecture Notes in Computational Science and Engineering, 2015, , 73-101.                     | 0.3 | 10        |
| 69 | Form-Finding of Architectural Membranes in a CAD-Environment Using the AiCAD-Concept. , 2015, , 65-74.   |     | 2         |
| 70 | Aktuelle Entwicklungen und Herausforderungen der Bauinformatik/Advances and Challenges of<br>Computing in Civil Engineering. Bauingenieur, 2015, 90, 320-329.                                      | 0.1 | 0         |
| 71 | Lift Force Reduction by Means of a Diffuser for Gravity Base Foundations in Waves and Currents.<br>International Journal of Offshore and Polar Engineering, 2015, 25, 127-133.                     | 0.8 | 0         |
| 72 | A Nitsche-type formulation and comparison of the most common domain decomposition methods in isogeometric analysis. International Journal for Numerical Methods in Engineering, 2014, 97, 473-504. | 2.8 | 143       |

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|----|---|-----|-----------|
| 73 | A consistent frame for sensitivity filtering and the vertex assigned morphing of optimal shape.<br>Structural and Multidisciplinary Optimization, 2014, 49, 873-895.  | 3.5 | 60        |
| 74 | Interface Jacobianâ€based Co‣imulation. International Journal for Numerical Methods in Engineering,<br>2014, 98, 418-444.   | 2.8 | 61        |
| 75 | Numerical and analytical solutions with finite strains for circular inflated membranes considering pressure–volume coupling. International Journal of Mechanical Sciences, 2014, 82, 122-130.   | 6.7 | 19        |
| 76 | lsogeometric shape optimization of shells using semi-analytical sensitivity analysis and sensitivity weighting. Computer Methods in Applied Mechanics and Engineering, 2014, 274, 148-167.  | 6.6 | 123       |
| 77 | The Vertex Morphing method for node-based shape optimization. Computer Methods in Applied Mechanics and Engineering, 2014, 268, 494-513.  | 6.6 | 73        |
| 78 | A Virtual Free Surface (VFS) model for efficient wave–current CFD simulation of fully submerged structures. Coastal Engineering, 2014, 89, 85-98.   | 4.0 | 5         |
| 79 | In-plane mesh regularization for node-based shape optimization problems. Computer Methods in<br>Applied Mechanics and Engineering, 2014, 275, 39-54.  | 6.6 | 29        |
| 80 | Regularization of shape optimization problems using FE-based parametrization. Structural and Multidisciplinary Optimization, 2013, 47, 507-521.   | 3.5 | 50        |
| 81 | Entwurf und Berechnung von gekrümmten Betonfertigbauteilen mit CADâ€basierten Verfahren. Beton-<br>Und Stahlbetonbau, 2013, 108, 783-791.   | 0.4 | 9         |
| 82 | Partitioned solution of an unsteady adjoint for strongly coupled fluid-structure interactions and application to parameter identification of a one-dimensional problem. Structural and Multidisciplinary Optimization, 2013, 47, 77-94. | 3.5 | 24        |
| 83 | A numerical investigation of combined wave–current loads on tidal stream generators. Ocean<br>Engineering, 2013, 72, 416-428.   | 4.3 | 10        |
| 84 | Frame structural sizing and topological optimization via a parallel implementation of a modified particle Swarm algorithm. KSCE Journal of Civil Engineering, 2013, 17, 1359-1370.  | 1.9 | 4         |
| 85 | A Reduced Modeling Methodology for Efficient Ocean Wave CFD Simulation of Fully Submerged Structures. , 2013, , .   |     | 0         |
| 86 | Numerical Methods for the Design and Analysis of Hybrid Structures. International Journal of Space<br>Structures, 2013, 28, 149-160.  | 1.0 | 6         |
| 87 | Design of Lightweight Composite Structures: A Parameter Free Structural Optimization Approach. Key<br>Engineering Materials, 2012, 504-506, 1391-1396.  | 0.4 | 0         |
| 88 | Efficient Design of Large Lightweight Composite Structures: A Parameter Free Optimization Approach. ,<br>2012, , .  |     | 0         |
| 89 | Shape optimisation in the design of thin-walled shells as components of aerospace structures.<br>Aeronautical Journal, 2012, 116, 793-814.  | 1.6 | 4         |
| 90 | Innovative Shape Optimisation in Vehicle Design. ATZ Worldwide, 2012, 114, 20-23.   | 0.1 | 1         |

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|-----|---|-----|-----------|
| 91  | Bridge flutter derivatives based on computed, validated pressure fields. Journal of Wind Engineering<br>and Industrial Aerodynamics, 2012, 104-106, 141-151.  | 3.9 | 56        |
| 92  | Isogeometric analysis of trimmed NURBS geometries. Computer Methods in Applied Mechanics and Engineering, 2012, 241-244, 93-111.  | 6.6 | 123       |
| 93  | Parameter free shape and thickness optimisation considering stress response. Structural and Multidisciplinary Optimization, 2012, 45, 801-814.  | 3.5 | 29        |
| 94  | Shape optimization of thin walled structures governed by geometrically nonlinear mechanics.<br>Computer Methods in Applied Mechanics and Engineering, 2012, 237-240, 107-117.   | 6.6 | 32        |
| 95  | Rotation free isogeometric thin shell analysis using PHT-splines. Computer Methods in Applied Mechanics and Engineering, 2011, 200, 3410-3424.  | 6.6 | 335       |
| 96  | 3D simulation of wind turbine rotors at full scale. Part II: Fluid–structure interaction modeling with composite blades. International Journal for Numerical Methods in Fluids, 2011, 65, 236-253.                            | 1.6 | 379       |
| 97  | Validation of the computational fluid–structure interaction simulation at real-scale tests of a<br>flexible 29m umbrella in natural wind flow. Journal of Wind Engineering and Industrial<br>Aerodynamics, 2011, 99, 400-413. | 3.9 | 50        |
| 98  | Fluid-Structure Interaction in the Context of Shape Optimization and Computational Wind Engineering. Lecture Notes in Computational Science and Engineering, 2011, , 351-381.   | 0.3 | 10        |
| 99  | Free Shape Optimal Design of Structures. , 2011, , 25-37.   |     | 0         |
| 100 | "Tracing―the Equilibrium — Recent Advances in Numerical Form Finding. International Journal of<br>Space Structures, 2010, 25, 107-116.  | 1.0 | 15        |
| 101 | Realization of an integrated structural design process: analysis-suitable geometric modelling and isogeometric analysis. Computing and Visualization in Science, 2010, 13, 315-330.   | 1.2 | 41        |
| 102 | Optimal shapes of mechanically motivated surfaces. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 324-333.   | 6.6 | 97        |
| 103 | The bending strip method for isogeometric analysis of Kirchhoff–Love shell structures comprised of multiple patches. Computer Methods in Applied Mechanics and Engineering, 2010, 199, 2403-2416.                             | 6.6 | 419       |
| 104 | An integrated approach to determine parameters of a 3D volcano model by using InSAR data with metamodel technique. , 2010, , .  |     | 0         |
| 105 | Efficient sub-grid scale modeling of membrane wrinkling by a projection method. Computer Methods in Applied Mechanics and Engineering, 2009, 198, 1097-1116.  | 6.6 | 20        |
| 106 | Isogeometric shell analysis with Kirchhoff–Love elements. Computer Methods in Applied Mechanics<br>and Engineering, 2009, 198, 3902-3914.   | 6.6 | 766       |
| 107 | Virtual Design Methodology for Lightweight Structures — Aerodynamic Response of Membrane<br>Structures. International Journal of Space Structures, 2009, 24, 211-221.   | 1.0 | 9         |
| 108 | Plateau regularization method for structural shape optimization and geometric mesh control.<br>Proceedings in Applied Mathematics and Mechanics, 2008, 8, 10359-10360.  | 0.2 | 2         |

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|-----|---|-----|-----------|
| 109 | A wrinkling model based on material modification for isotropic and orthotropic membranes.<br>Computer Methods in Applied Mechanics and Engineering, 2008, 197, 773-788.                               | 6.6 | 53        |
| 110 | Approximation of derivatives in semi-analytical structural optimization. Computers and Structures, 2008, 86, 1404-1416.   | 4.4 | 33        |
| 111 | Introducing Cutting Patterns in Form Finding and Structural Analysis. Computational Methods in Applied Sciences (Springer), 2008, , 69-84.  | 0.3 | 12        |
| 112 | Analysis of Free Form Membranes Subject to Wind Using FSI. Computational Methods in Applied Sciences (Springer), 2008, , 141-161.   | 0.3 | 1         |
| 113 | A framework for stabilized partitioned analysis of thin membrane–wind interaction. International<br>Journal for Numerical Methods in Fluids, 2007, 54, 945-963.                                       | 1.6 | 38        |
| 114 | Update scheme for sequential spatial correlation approximations in robust design optimisation.<br>Computers and Structures, 2007, 85, 606-614.  | 4.4 | 17        |
| 115 | "Upgrading―membranes to shells—The CEG rotation free shell element and its application in<br>structural analysis. Finite Elements in Analysis and Design, 2007, 44, 63-74.                            | 3.2 | 27        |
| 116 | Algorithmic Treatment of Shells and Free Form-Membranes in FSI. , 2006, , 336-355.  |     | 27        |
| 117 | The discrete strain gap method and membrane locking. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 2444-2463.   | 6.6 | 64        |
| 118 | Computational methods for form finding and optimization of shells and membranes. Computer<br>Methods in Applied Mechanics and Engineering, 2005, 194, 3438-3452.                                      | 6.6 | 137       |
| 119 | Stress-adapted numerical form finding of pre-stressed surfaces by the updated reference strategy.<br>International Journal for Numerical Methods in Engineering, 2005, 64, 143-166.                   | 2.8 | 70        |
| 120 | Filtering and Regularization Shape Optimization Techniques for Preliminary Design. , 2005, , .  |     | 1         |
| 121 | Shape optimization of a bow. Structural and Multidisciplinary Optimization, 2004, 28, 73.   | 3.5 | 4         |
| 122 | Improving stability and accuracy of Reissner–Mindlin plate finite elements via algebraic subgrid scale<br>stabilization. Computer Methods in Applied Mechanics and Engineering, 2004, 193, 1517-1528. | 6.6 | 17        |
| 123 | Shape optimization of shells and locking. Computers and Structures, 2004, 82, 2551-2561.  | 4.4 | 7         |
| 124 | A Finite Element Model for the Analysis of Wrinkled Membrane Structures. International Journal of<br>Space Structures, 2003, 18, 1-14.  | 1.0 | 19        |
| 125 | On the significance of locking on shape optimization of shells. , 2003, , 2229-2232.  |     | 0         |
| 126 | Structural optimization and form finding of light weight structures. Computers and Structures, 2001, 79, 2053-2062.   | 4.4 | 130       |

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|-----|---|-----|-----------|
| 127 | A unified approach for shear-locking-free triangular and rectangular shell finite elements.<br>Computers and Structures, 2000, 75, 321-334.                                     | 4.4 | 348       |
| 128 | A General Finite Element Approach to the form Finding of Tensile Structures by the Updated Reference<br>Strategy. International Journal of Space Structures, 1999, 14, 131-145. | 0.3 | 107       |
| 129 | TOWARDS GENERALIZED SHAPE AND TOPOLOGY OPTIMIZATION. Engineering Optimization, 1997, 29, 201-216.   | 2.6 | 19        |
| 130 | Shape optimization of buckling sensitive structures. Computing Systems in Engineering: an International Journal, 1994, 5, 65-75.  | 0.5 | 30        |
| 131 | Form finding of shells by structural optimization. Engineering With Computers, 1993, 9, 27-35.  | 6.1 | 41        |
| 132 | Extended method of moving asymptotes based on second-order information. Structural Optimization, 1993, 5, 175-183.  | 0.6 | 26        |
| 133 | Supporting conceptual decisions in structural design. Computing Systems in Engineering: an<br>International Journal, 1993, 4, 223-234.  | 0.5 | 4         |
| 134 | Shape optimization of shell structures. Revue Europeenne Des Elements, 1993, 2, 377-398.  | 0.1 | 43        |
| 135 | Efficient modeling in shape optimal design. Computing Systems in Engineering: an International<br>Journal, 1991, 2, 483-495.  | 0.5 | 63        |
| 136 | Influence of DE-cluster refinement on numerical analysis of rockfall experiments. Computational Particle Mechanics, 0, , 1.   | 3.0 | 2         |
| 137 | Optimization of Nonlinear Structures based on Object-Oriented Parallel Programming. , 0, , .  |     | 1         |