

# Hanno Gottschalk

## List of Publications by Year in descending order

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37  
papers

451  
citations

933447

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839539

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38  
all docs

38  
docs citations

38  
times ranked

129  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combined notch and size effect modeling in a local probabilistic approach for LCF. Computational Materials Science, 2018, 142, 377-388.	3.0	57
2	CONVOLUTED GENERALIZED WHITE NOISE, SCHWINGER FUNCTIONS AND THEIR ANALYTIC CONTINUATION TO WIGHTMAN FUNCTIONS. Reviews in Mathematical Physics, 1996, 08, 763-817.	1.7	51
3	A probabilistic model for LCF. Computational Materials Science, 2013, 79, 584-590.	3.0	45
4	Models of Local Relativistic Quantum Fields with Indefinite Metric (in All Dimensions). Communications in Mathematical Physics, 1997, 184, 509-531.	2.2	40
5	Prediction Error Meta Classification in Semantic Segmentation: Detection via Aggregated Dispersion Measures of Softmax Probabilities. , 2020, , .		28
6	DYNAMICAL BACKREACTION IN ROBERTSON-WALKER SPACETIME. Reviews in Mathematical Physics, 2011, 23, 531-551.	1.7	19
7	Probabilistic LCF Risk Evaluation of a Turbine Vane by Combined Size Effect and Notch Support Modeling. , 2017, , .		16
8	Scattering Theory for Quantum Fields with Indefinite Metric. Communications in Mathematical Physics, 2001, 216, 491-513.	2.2	14
9	Risk Estimation for LCF Crack Initiation. , 2013, , .		14
10	Minimal Failure Probability for Ceramic Design Via Shape Control. Journal of Optimization Theory and Applications, 2015, 166, 983-1001.	1.5	13
11	Effect of local anisotropy on fatigue crack initiation in a coarse grained nickel-base superalloy. MATEC Web of Conferences, 2018, 165, 04004.	0.2	13
12	Nontrivial scattering amplitudes for some local relativistic quantum field models with indefinite metric. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 405, 243-248.	4.1	12
13	Optimal Reliability in Design for Fatigue Life. SIAM Journal on Control and Optimization, 2014, 52, 2727-2752.	2.1	11
14	YOdar: Uncertainty-based Sensor Fusion for Vehicle Detection with Camera and Radar Sensors. , 2021, , .		11
15	MetaBox+: A New Region based Active Learning Method for Semantic Segmentation using Priority Maps. , 2021, , .		11
16	Generative modeling of turbulence. Physics of Fluids, 2022, 34, .	4.0	11
17	Scattering behaviour of quantum vector fields obtained from Euclidean covariant SPDEs. Reports on Mathematical Physics, 1999, 44, 21-28.	0.8	8
18	Probabilistic Schmid factors and scatter of low cycle fatigue (LCF) life. Materialwissenschaft Und Werkstofftechnik, 2015, 46, 156-164.	0.9	8

#	ARTICLE	IF	CITATIONS
19	Deep Bayesian Active Semi-Supervised Learning. , 2018, , .		8
20	The Cosmological Semiclassical Einstein Equation as an Infinite-Dimensional Dynamical System. Annales Henri Poincare, 0, , 1.	1.7	7
21	Adjoint Method to Calculate the Shape Gradients of Failure Probabilities for Turbomachinery Components. , 2018, , .		6
22	Numerical shape optimization to decrease failure probability of ceramic structures. Computing and Visualization in Science, 2019, 21, 1-10.	1.2	6
23	The Ethical Dilemma When (Not) Setting up Cost-Based Decision Rules in Semantic Segmentation. , 2019, , .		6
24	Shape gradients for the failure probability of a mechanic component under cyclic loading: a discrete adjoint approach. Computational Mechanics, 2019, 64, 895-915.	4.0	5
25	Gradient based biobjective shape optimization to improve reliability and cost of ceramic components. Optimization and Engineering, 2020, 21, 1359-1387.	2.4	5
26	Tracing Locally Pareto-Optimal Points by Numerical Integration. SIAM Journal on Control and Optimization, 2021, 59, 3302-3328.	2.1	4
27	An Analytical Study in Multi-physics and Multi-criteria Shape Optimization. Journal of Optimization Theory and Applications, 2021, 189, 486-512.	1.5	4
28	Special cosmological models derived from the semiclassical Einstein equation on $\bar{M}_4$ at FLRW space-times. Classical and Quantum Gravity, 0, , .	4.0	3
29	On the stability of one-particle states generated by quantum fields fulfilling Yang&#x2013;Feldman equations. Reports on Mathematical Physics, 2001, 47, 241-246.	0.8	2
30	Complex velocity transformations and the Bisognano&#x2013;Wichmann theorem for quantum fields acting on Krein spaces. Journal of Mathematical Physics, 2002, 43, 4753.	1.1	2
31	AdS/CFT Correspondence in the Euclidean Context. Communications in Mathematical Physics, 2007, 277, 83-100.	2.2	2
32	A Triviality Result in the AdS/CFT Correspondence for Euclidean Quantum Fields with Exponential Interaction. Communications in Mathematical Physics, 2013, 324, 63-75.	2.2	2
33	Numerical Shape Optimization to Decrease Failure Probability of Ceramic Structures. Proceedings in Applied Mathematics and Mechanics, 2018, 18, e201800229.	0.2	2
34	Gen&#x2013;Shape Optimization for Gas Turbines in Volatile Energy Networks. Mathematics in Industry, 2021, , 71-106.	0.3	2
35	SPDEs Leading to Local, Relativistic Quantum Vector Fields with Indefinite Metric and Nontrivial S-Matrix. Lecture Notes in Pure and Applied Mathematics, 2002, , .	0.1	2
36	Modeling, Minimizing and Managing the Risk of Fatigue for Mechanical Components. Springer Proceedings in Mathematics and Statistics, 2017, , 219-255.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Quantum Fields Obtained from Convolved Generalized White Noise Never Have Positive Metric. Letters in Mathematical Physics, 2016, 106, 575-581.	1.1	0