

Ulrich RÄjmer

List of Publications by Year in descending order

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36
papers

225
citations

1163117

8
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1125743

13
g-index

41
all docs

41
docs citations

41
times ranked

180
citing authors

#	ARTICLE	IF	CITATIONS
1	Design of Fuel Cell Systems for Aviation: Representative Mission Profiles and Sensitivity Analyses. <i>Frontiers in Energy Research</i> , 2019, 7, .	2.3	28
2	Stochastic phase-field modeling of brittle fracture: Computing multiple crack patterns and their probabilities. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113353.	6.6	27
3	Approximation of Moments for the Nonlinear Magnetoquasistatic Problem With Material Uncertainties. <i>IEEE Transactions on Magnetics</i> , 2014, 50, 417-420.	2.1	19
4	Quantification of Uncertainty in the Field Quality of Magnets Originating from Material Measurements. <i>IEEE Transactions on Magnetics</i> , 2013, 49, 2367-2370.	2.1	18
5	Magnetic Field Simulation With Data-Driven Material Modeling. <i>IEEE Transactions on Magnetics</i> , 2020, 56, 1-6.	2.1	14
6	Optimization and uncertainty quantification of gradient index metasurfaces [Invited]. <i>Optical Materials Express</i> , 2019, 9, 892.	3.0	14
7	ASSESSING THE PERFORMANCE OF LEJA AND CLENSHAW-CURTIS COLLOCATION FOR COMPUTATIONAL ELECTROMAGNETICS WITH RANDOM INPUT DATA. , 2019, 9, 33-57.		14
8	Robust shape optimization of electric devices based on deterministic optimization methods and finite-element analysis with affine parametrization and design elements. <i>Electrical Engineering</i> , 2018, 100, 2635-2647.	2.0	10
9	Modeling of field singularities at dielectric edges using grid based methods. <i>Advances in Radio Science</i> , 2011, 9, 39-44.	0.7	8
10	Nanoelectronic COupled problems solutions - nanoCOPS: modelling, multirate, model order reduction, uncertainty quantification, fast fault simulation. <i>Journal of Mathematics in Industry</i> , 2016, 7, .	1.2	8
11	Stochastic Modeling and Regularity of the Nonlinear Elliptic curl-curl Equation. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2016, 4, 952-979.	2.0	7
12	Uncertainty Quantification for Aircraft Noise Emission Simulation: Methods and Limitations. <i>AIAA Journal</i> , 2022, 60, 3020-3034.	2.6	6
13	ENHANCED ADAPTIVE SURROGATE MODELS WITH APPLICATIONS IN UNCERTAINTY QUANTIFICATION FOR NANOPLASMONICS. , 2020, 10, 165-193.		5
14	STOCHASTIC MODELING OF MAGNETIC HYSTERETIC PROPERTIES BY USING MULTIVARIATE RANDOM FIELDS. , 2019, 9, 85-102.		5
15	A defect corrected finite element approach for the accurate evaluation of magnetic fields on unstructured grids. <i>Journal of Computational Physics</i> , 2017, 335, 688-699.	3.8	4
16	A Multilevel Monte Carlo Method for High-Dimensional Uncertainty Quantification of Low-Frequency Electromagnetic Devices. <i>IEEE Transactions on Magnetics</i> , 2019, 55, 1-12.	2.1	4
17	Conformally mapped polynomial chaos expansions for Maxwell's source problem with random input data. <i>International Journal of Numerical Modelling: Electronic Networks, Devices and Fields</i> , 2020, 33, e2776.	1.9	4
18	Surrogate-based Bayesian calibration of biomechanical models with isotropic material behavior. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2022, 38, e3575.	2.1	4

#	ARTICLE	IF	CITATIONS
19	Determination of bond wire failure probabilities in microelectronic packages. , 2016, , .		3
20	Modeling of spatial uncertainties in the magnetic reluctivity. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2017, 36, 1151-1167.	0.9	3
21	High-dimensional uncertainty quantification for an electrothermal field problem using stochastic collocation on sparse grids and tensor train decompositions. International Journal of Numerical Modelling: Electronic Networks, Devices and Fields, 2018, 31, e2222.	1.9	3
22	Solving parameter estimation problems with discrete adjoint exponential integrators. Optimization Methods and Software, 2018, 33, 750-770.	2.4	3
23	Uncertainty modeling and analysis of the European X-ray free electron laser cavities manufacturing process. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 971, 164135.	1.6	3
24	Low-Dimensional Stochastic Modeling of the Electrical Properties of Biological Tissues. IEEE Transactions on Magnetics, 2017, 53, 1-4.	2.1	2
25	Coupled simulation of transient heat flow and electric currents in thin wires: Application to bond wires in microelectronic chip packaging. Computers and Mathematics With Applications, 2020, 79, 1781-1801.	2.7	2
26	Adjoint Error Estimation for a Pseudo-Spectral Approach to Stochastic Field-Circuit Coupled Problems. Proceedings in Applied Mathematics and Mechanics, 2015, 15, 711-714.	0.2	1
27	Multilevel Monte Carlo simulation of the eddy current problem with random parameters. , 2017, , .		1
28	An adjoint approach for uncertainty quantification of magnetoquasistatic field problems. , 2015, , .		0
29	Balancing modeling and discretization errors in the numerical approximation of magnetostatic fields with uncertainties. , 2016, , .		0
30	Low-dimensional stochastic modeling of the electrical properties of biological tissues. , 2016, , .		0
31	An adaptive sparse grid rational Arnoldi method for uncertainty quantification of dynamical systems in the frequency domain. International Journal for Numerical Methods in Engineering, 2021, 122, 5487-5511.	2.8	0
32	Uncertainty Quantification for Magnets. Springer Theses, 2016, , 91-104.	0.1	0
33	Uncertainty Quantification. Springer Theses, 2016, , 65-90.	0.1	0
34	Parametric Model, Continuity and First Order Sensitivity Analysis. Springer Theses, 2016, , 39-63.	0.1	0
35	Bond Wire Models. Mathematics in Industry, 2019, , 43-68.	0.3	0
36	Estimating Failure Probabilities. Mathematics in Industry, 2019, , 349-379.	0.3	0