

Martin Spies

List of Publications by Year in descending order

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30
papers

411
citations

840776

11
h-index

752698

20
g-index

30
all docs

30
docs citations

30
times ranked

266
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthetic Aperture Focusing and Time-of-Flight Diffraction Ultrasonic Imaging – Past and Present. Journal of Nondestructive Evaluation, 2012, 31, 310-323.	2.4	57
2	Synthetic aperture focusing for defect reconstruction in anisotropic media. Ultrasonics, 2003, 41, 125-131.	3.9	56
3	Transducer field modeling in anisotropic media by superposition of Gaussian base functions. Journal of the Acoustical Society of America, 1999, 105, 633-638.	1.1	46
4	Analytical methods for modeling of ultrasonic nondestructive testing of anisotropic media. Ultrasonics, 2004, 42, 213-219.	3.9	40
5	Ultrasonic online monitoring of additive manufacturing processes based on selective laser melting. AIP Conference Proceedings, 2015, , .	0.4	36
6	Synthetic aperture focusing of ultrasonic inspection data to enhance the probability of detection of defects in strongly attenuating materials. NDT and E International, 2010, 43, 425-431.	3.7	34
7	On- and offline ultrasonic characterization of components built by SLM additive manufacturing. AIP Conference Proceedings, 2016, , .	0.4	32
8	Kirchhoff evaluation of scattered elastic wavefields in anisotropic media. Journal of the Acoustical Society of America, 2000, 107, 2755-2759.	1.1	21
9	Semi-analytical elastic wave-field modeling applied to arbitrarily oriented orthotropic media. Journal of the Acoustical Society of America, 2001, 110, 68-79.	1.1	19
10	Green's tensor function for Lamb's problem: The general anisotropic case. Journal of the Acoustical Society of America, 1997, 102, 2438-2441.	1.1	15
11	Ultrasonic field modeling for immersed components using Gaussian beam superposition. Ultrasonics, 2007, 46, 138-147.	3.9	12
12	Modeling transient radiation of ultrasonic transducers in anisotropic materials including wave attenuation. AIP Conference Proceedings, 2002, , .	0.4	10
13	Efficient optimization of single and multiple element transducers for the inspection of complex-shaped components. NDT and E International, 2004, 37, 455-459.	3.7	10
14	Space-time far-field representation of Green's functions for cross-plane shear waves in general transversely isotropic media. Journal of the Acoustical Society of America, 1997, 102, 733-740.	1.1	7
15	Computationally Efficient SH-Wave Modeling in Transversely Isotropic Media. Journal of Nondestructive Evaluation, 2000, 19, 43-54.	2.4	3
16	Boosting the application of ultrasonic arrays. AIP Conference Proceedings, 2002, , .	0.4	3
17	Ultrasonic evaluation of residual stresses in aero engine materials using bulk and Rayleigh surface waves. , 2014, , .		3
18	Simulation of Ultrasonic Materials Evaluation Experiments Including Scattering Phenomena due to Polycrystalline Microstructure. Physics Procedia, 2015, 70, 644-647.	1.2	3

#	ARTICLE	IF	CITATIONS
19	Prediction of Ultrasonic Flaw Signals and Model-to-Experiment Comparison. AIP Conference Proceedings, 2005, , .	0.4	1
20	Modeling the Beam Fields of Circular and Rectangular, Flat and Focused Transducers Using Gaussian Beam Superposition. AIP Conference Proceedings, 2006, , .	0.4	1
21	SAFT Applied to Anisotropic and Attenuative Materials Using Sparse Array Data and Signal Processing. AIP Conference Proceedings, 2007, , .	0.4	1
22	Ultrasonic Inspection and Analysis Using the Synthetic Aperture Focusing Technique (SAFT) on Dissimilar Metal Welds With Inter-Granular Stress Corrosion Cracks. , 2015, , .		1
23	Quantitative evaluation of defects in anisotropic media using the far-field radiation characteristics of vibrating sources. AIP Conference Proceedings, 2002, , .	0.4	0
24	Optimization of Mirrors for the Ultrasonic Inspection of Complex-Shaped Components Using Standard Transducers. AIP Conference Proceedings, 2006, , .	0.4	0
25	Evaluation of Ultrasonic Scattering at LCF Cracks Including Optically Measured, Real Roughness Profiles. AIP Conference Proceedings, 2007, , .	0.4	0
26	OPTIMAL PROBE ARRANGEMENT FOR ULTRASONIC INSPECTION OF SPIN TEST DISKS. AIP Conference Proceedings, 2008, , .	0.4	0
27	Efficient absorbing boundary conditions for Biot's equations in time-harmonic finite element applications. Journal of the Acoustical Society of America, 2008, 123, 1347-1351.	1.1	0
28	Recent progress in the NDE of cast ship propulsion components. , 2014, , .		0
29	Ultrasonic defect evaluation using DGS-diagrams modified for the inspection of anisotropic composite materials. , 2015, , .		0
30	Quantitative Fehlercharakterisierung aus Ultraschall-HF-Daten mittels simulationsgestützter Auswerteverfahren. Materialprüfung/Materials Testing, 2009, 51, 717-722.	2.2	0