

# Bin Lin

## List of Publications by Year in descending order

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39  
papers

499  
citations

759233

12  
h-index

713466

21  
g-index

39  
all docs

39  
docs citations

39  
times ranked

555  
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling and testing of PZT and PVDF piezoelectric wafer active sensors. Smart Materials and Structures, 2006, 15, 1085-1093.	3.5	112
2	Durability and Survivability of Piezoelectric Wafer Active Sensors on Metallic Structure. AIAA Journal, 2010, 48, 635-643.	2.6	48
3	Space Application of Piezoelectric Wafer Active Sensors for Structural Health Monitoring. Journal of Intelligent Material Systems and Structures, 2011, 22, 1359-1370.	2.5	38
4	Damage localization with fiber Bragg grating Lamb wave sensing through adaptive phased array imaging. Structural Health Monitoring, 2019, 18, 334-344.	7.5	31
5	Ferroelectric BaTiO <sub>3</sub> thin films on Ni metal tapes using NiO as buffer layer. Applied Physics Letters, 2007, 90, 202901.	3.3	26
6	Exact analytical modeling of power and energy for multimode lamb waves excited by piezoelectric wafer active sensors. Journal of Intelligent Material Systems and Structures, 2014, 25, 452-471.	2.5	24
7	Acoustic emission sensor effect and waveform evolution during fatigue crack growth in thin metallic plate. Journal of Intelligent Material Systems and Structures, 2018, 29, 1275-1284.	2.5	24
8	Predictive modeling of piezoelectric wafer active sensors interaction with high-frequency structural waves and vibration. Acta Mechanica, 2012, 223, 1681-1691.	2.1	22
9	Orientation Preferred Structures in BaTiO <sub>3</sub> Thin Films on Ni Substrates. Journal of Nano Research, 2008, 1, 59-63.	0.8	16
10	Power and energy transduction analysis of piezoelectric wafer-active sensors for structural health monitoring. Structural Health Monitoring, 2012, 11, 109-121.	7.5	16
11	Omnidirectional piezo-optical ring sensor for enhanced guided wave structural health monitoring. Smart Materials and Structures, 2015, 24, 015008.	3.5	15
12	Characterization of piezoelectric wafer active sensor for acoustic emission sensing. Ultrasonics, 2019, 92, 35-49.	3.9	15
13	Structural Health Monitoring With Piezoelectric Wafer Active Sensors Exposed to Irradiation Effects. , 2012, , .		12
14	Modeling of power and energy transduction of embedded piezoelectric wafer active sensors for structural health monitoring. Proceedings of SPIE, 2010, , .	0.8	10
15	Predictive Modeling of Space Structures for SHM With PWAS Transducers. , 2011, , .		10
16	E/M impedance modeling and experimentation for the piezoelectric wafer active sensor. Smart Materials and Structures, 2015, 24, 115040.	3.5	10
17	Analytical modeling of PWAS in-plane and out-of-plane electromechanical impedance spectroscopy (EMIS). , 2013, , .		8
18	Uncertainty Evaluation in the Design of Structural Health Monitoring Systems for Damage Detection. Aerospace, 2018, 5, 45.	2.2	7

#	ARTICLE	IF	CITATIONS
19	INTEGRATION OF FERROELECTRIC BaTiO <sub>3</sub> THIN FILMS DIRECTLY ON NI AND TI METALLIC TAPES FOR STRUCTURAL HEALTH MONITORING SYSTEMS AND ENERGY HARVEST APPLICATIONS. Integrated Ferroelectrics, 2008, 100, 61-71.	0.7	6
20	Predictive Modeling of Piezoelectric Wafer Active Sensors for Structural Health Monitoring. Ferroelectrics, 2014, 470, 168-182.	0.6	6
21	Active health monitoring of TN32 dry cask using a scaled down model. , 2018, , .		6
22	Simplified 2D modeling of power and energy transduction of piezoelectric wafer active sensors for structural health monitoring. , 2011, , .		5
23	Multimodal Lamb Waves Power and Transfer Function Analysis of Structurally-Bonded PWAS. , 2012, , .		5
24	Ferroelectric BaTiO <sub>3</sub> Thin Films on Ti Substrate Fabricated Using Pulsed-Laser Deposition. Journal of Nanoscience and Nanotechnology, 2010, 10, 6245-6250.	0.9	4
25	Characterization and optimization of an ultrasonic piezo-optical ring sensor. Smart Materials and Structures, 2016, 25, 045006.	3.5	4
26	The use of exact Lamb waves modes for modeling the power and energy transduction of structurally bonded piezoelectric wafer active sensors. , 2012, , .		3
27	Piezo-Optical Active Sensing With PWAS and FBG Sensors for Structural Health Monitoring. , 2014, , .		3
28	Guided wave damage detection with PZT-FBG sensing. , 2016, , .		3
29	Piezo-optical measurements for guided wave and acoustic emission structural health monitoring. Proceedings of SPIE, 2014, , .	0.8	2
30	Effects of Gamma Radiation on Resonant and Antiresonant Characteristics of Piezoelectric Wafer Active Sensors. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2019, 2, .	0.9	2
31	DIRECT INTEGRATION OF THIN FILM PIEZOELECTRIC SENSORS WITH STRUCTURAL MATERIALS FOR STRUCTURAL HEALTH MONITORING. Integrated Ferroelectrics, 2006, 83, 139-148.	0.7	1
32	Analytical Model of Nuclear Environmental Effects With Piezoelectric Wafer Active Sensors. , 2014, , .		1
33	Thickness mode EMIS of constrained proof-mass piezoelectric wafer active sensors. Smart Materials and Structures, 2015, 24, 115035.	3.5	1
34	Developing a structural health monitoring system for nuclear dry cask storage canister. , 2015, , .		1
35	Modeling, optimization, and experimental validation of a resonant piezo-optical ring sensor for enhanced active and passive structural health monitoring. Proceedings of SPIE, 2015, , .	0.8	1
36	Acoustic emission detection with fiber optical sensors for dry cask storage health monitoring. , 2016, , .		1

#	ARTICLE	IF	CITATIONS
37	Microstructure of Ferroelectric BaTiO <sub>3</sub> Thin Films on Ti Substrate. Microscopy and Microanalysis, 2008, 14, 346-347.	0.4	0
38	Temperature Effects on Piezoelectric Wafer Active Sensors. , 2015, , .		0
39	Develop an piezoelectric sensing based on SHM system for nuclear dry storage system. , 2016, , .		0