

# Arvin Ebrahimkhanlou

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

908  
citations

566801

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h-index

476904

29  
g-index

42  
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42  
docs citations

42  
times ranked

599  
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic emission monitoring of corrosion in steel pipes using Lamb-type helical waves. <i>Structural Health Monitoring</i> , 2023, 22, 1225-1236.	4.3	8
2	A Video-Based Crack Detection in Concrete Surfaces. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2022, , 245-252.	0.3	1
3	High-dimensional data analytics in structural health monitoring and non-destructive evaluation: a review paper. <i>Smart Materials and Structures</i> , 2022, 31, 043001.	1.8	17
4	Spatial analysis of damage evolution in cyclic-loaded reinforced concrete shear walls. <i>Journal of Building Engineering</i> , 2022, 49, 104032.	1.6	11
5	A computer vision-based crack quantification of reinforced concrete shells using graph theory measures. , 2022, , .		1
6	High-dimensional data analytics applications in SHM and NDE: tensor analysis of thermal videos. , 2022, , .		0
7	Monitoring internal corrosion in steel pipelines: a two-step helical guided wave approach for localization and quantification. <i>Structural Health Monitoring</i> , 2021, 20, 2694-2707.	4.3	6
8	A Deep Learning Framework for Acoustic Emission Sources Localization and Characterization in Complex Aerospace Panels. <i>Materials Evaluation</i> , 2021, 79, 391-400.	0.1	3
9	Stress monitoring of prestressing strands in corrosive environments using modulated higher-order guided ultrasonic waves. <i>Structural Health Monitoring</i> , 2020, 19, 202-214.	4.3	22
10	A machine learning approach based on multifractal features for crack assessment of reinforced concrete shells. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 565-578.	6.3	41
11	Acoustic emission monitoring of containment structures during post-tensioning. <i>Engineering Structures</i> , 2020, 209, 109930.	2.6	23
12	Crack-induced guided wave motion and modal excitability in plates using elastodynamic reciprocity. <i>Journal of Sound and Vibration</i> , 2020, 476, 115287.	2.1	11
13	Inversion algorithm for Lamb-wave-based depth characterization of acoustic emission sources in plate-like structures. <i>Ultrasonics</i> , 2019, 99, 105975.	2.1	12
14	An algebraic reconstruction imaging approach for corrosion damage monitoring of pipelines. <i>Smart Materials and Structures</i> , 2019, 28, 055036.	1.8	12
15	A generalizable deep learning framework for localizing and characterizing acoustic emission sources in riveted metallic panels. <i>Mechanical Systems and Signal Processing</i> , 2019, 130, 248-272.	4.4	88
16	Fractal and Multifractal Analysis of Crack Patterns in Prestressed Concrete Girders. <i>Journal of Bridge Engineering</i> , 2019, 24, .	1.4	44
17	Corrosion monitoring of prestressed concrete structures by using topological analysis of acoustic emission data. <i>Smart Materials and Structures</i> , 2019, 28, 055001.	1.8	18
18	A deep learning-based framework for two-step localization and characterization of acoustic emission sources in metallic panels using only one sensor. , 2019, , .		3

#	ARTICLE	IF	CITATIONS
19	Acoustic emission monitoring of strengthened steel bridges: Inferring the mechanical behavior of post-installed shear connectors. , 2019, , .		4
20	A helical-based ultrasonic imaging algorithm for structural health monitoring of cylindrical structures. , 2019, , .		4
21	Data fusion approach for characterization of corrosion-induced stress change in prestressing strands using modulated higher-order guided ultrasonic waves. , 2019, , .		0
22	Localization of multiple acoustic emission events occurring closely in time in thin-walled pipes using sparse reconstruction. Journal of Intelligent Material Systems and Structures, 2018, 29, 2362-2373.	1.4	8
23	Higher order longitudinal guided wave modes in axially stressed seven-wire strands. Ultrasonics, 2018, 84, 382-391.	2.1	33
24	Single-Sensor Acoustic Emission Source Localization in Plate-Like Structures Using Deep Learning. Aerospace, 2018, 5, 50.	1.1	105
25	Stress Measurement in Seven-Wire Strands using Higher Order Guided Ultrasonic Wave Modes. Transportation Research Record, 2018, 2672, 123-131.	1.0	6
26	Computation of propagating and non-propagating guided modes in nonuniformly stressed plates using spectral methods. Journal of the Acoustical Society of America, 2018, 143, 3220-3230.	0.5	16
27	Detection of the onset of delamination in a post-tensioned curved concrete structure using hidden Markov modeling of acoustic emissions. , 2018, , .		3
28	A spectral method for computing the effect of stress on guided modes in plates and rods. , 2018, , .		2
29	Sparse reconstruction localization of multiple acoustic emissions in large diameter pipelines. , 2017, , .		4
30	Effect of pressurization on helical guided wave energy velocity in fluid-filled pipes. Ultrasonics, 2017, 75, 145-154.	2.1	14
31	Acoustic emission source localization in thin metallic plates: A single-sensor approach based on multimodal edge reflections. Ultrasonics, 2017, 78, 134-145.	2.1	99
32	A probabilistic framework for single-sensor acoustic emission source localization in thin metallic plates. Smart Materials and Structures, 2017, 26, 095026.	1.8	50
33	The effect of applied stress on the phase and group velocity of guided waves in anisotropic plates. Journal of the Acoustical Society of America, 2017, 142, 3553-3563.	0.5	24
34	A probabilistic model for visual inspection of concrete shear walls. , 2017, , .		9
35	A guided ultrasonic imaging approach in isotropic plate structures using edge reflections. Proceedings of SPIE, 2016, , .	0.8	6
36	Damage localization in metallic plate structures using edge-reflected lamb waves. Smart Materials and Structures, 2016, 25, 085035.	1.8	83

#	ARTICLE	IF	CITATIONS
37	Helical guided waves in liquid-filled cylindrical shells subjected to static pressurization stress. , 2016, , .		2
38	Multifractal analysis of crack patterns in reinforced concrete shear walls. Structural Health Monitoring, 2016, 15, 81-92.	4.3	87
39	Multifractal analysis of two-dimensional images for damage assessment of reinforced concrete structures. Proceedings of SPIE, 2015, , .	0.8	15
40	Corrosion damage estimation in multi-wire steel strands using guided ultrasonic waves. Proceedings of SPIE, 2015, , .	0.8	3
41	A vision-based technique for damage assessment of reinforced concrete structures. Proceedings of SPIE, 2014, , .	0.8	7
42	Damage Localization in Plate-like Structures Using Guided Ultrasonic Waves Edge Reflections. , 0, , .		3