

# Peipei Liu

## List of Publications by Year in descending order

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Version: 2024-02-01

31  
papers

642  
citations

516710

16  
h-index

580821

25  
g-index

31  
all docs

31  
docs citations

31  
times ranked

434  
citing authors

#	ARTICLE	IF	CITATIONS
1	Femtosecond laser ultrasonic inspection of a moving object and its application to estimation of silicon wafer coating thickness. Optics and Lasers in Engineering, 2022, 148, 106778.	3.8	12
2	Ultrafast nonlinear ultrasonic measurement using femtosecond laser and modified lock-in detection. Optics and Lasers in Engineering, 2022, 150, 106844.	3.8	6
3	Real-time porosity reduction during metal directed energy deposition using a pulse laser. Journal of Materials Science and Technology, 2022, 116, 214-223.	10.7	13
4	Automated visualization of steel structure coating thickness using line laser scanning thermography. Automation in Construction, 2022, 139, 104267.	9.8	4
5	Structural displacement estimation by fusing vision camera and accelerometer using hybrid computer vision algorithm and adaptive multi-rate Kalman filter. Automation in Construction, 2022, 140, 104338.	9.8	31
6	Bridge displacement estimation by fusing accelerometer and strain gauge measurements. Structural Control and Health Monitoring, 2021, 28, e2733.	4.0	34
7	Porosity inspection in directed energy deposition additive manufacturing based on transient thermoreflectance measurement. NDT and E International, 2021, 122, 102491.	3.7	15
8	Estimation of Silicon Wafer Coating Thickness Using Ultrasound Generated by Femtosecond Laser. Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems, 2021, 4, .	0.9	2
9	Silicon wafer crack detection using nonlinear ultrasonic modulation induced by high repetition rate pulse laser. Optics and Lasers in Engineering, 2020, 129, 106074.	3.8	20
10	Study on effect of laser-induced ablation for Lamb waves in a thin plate. Ultrasonics, 2019, 91, 121-128.	3.9	17
11	Development of a tunable low-frequency vibration energy harvester and its application to a self-contained wireless fatigue crack detection sensor. Structural Health Monitoring, 2019, 18, 920-933.	7.5	11
12	Fatigue crack detection in rotating steel shafts using noncontact ultrasonic modulation measurements. Engineering Structures, 2019, 196, 109293.	5.3	21
13	Noncontact Nonlinear Ultrasonic Wave Modulation for Fatigue Crack and Delamination Detection. , 2019, , 661-697.		1
14	Fundamentals of Nonlinear Acoustical Techniques and Sideband Peak Count. , 2019, , 1-88.		14
15	Fatigue crack detection using dual laser induced nonlinear ultrasonic modulation. Optics and Lasers in Engineering, 2018, 110, 420-430.	3.8	44
16	Accelerated noncontact laser ultrasonic scanning for damage detection using combined binary search and compressed sensing. Mechanical Systems and Signal Processing, 2017, 92, 315-333.	8.0	32
17	Fatigue crack detection by nonlinear spectral correlation with a wideband input. Proceedings of SPIE, 2017, , .	0.8	0
18	Nonlinear spectral correlation for fatigue crack detection under noisy environments. Journal of Sound and Vibration, 2017, 400, 305-316.	3.9	15

#	ARTICLE	IF	CITATIONS
19	Damage detection using sideband peak count in spectral correlation domain. Journal of Sound and Vibration, 2017, 411, 20-33.	3.9	15
20	Development of nonlinear spectral correlation between ultrasonic modulation components. NDT and E International, 2017, 91, 120-128.	3.7	7
21	Development of a "stick-and-detect" wireless sensor node for fatigue crack detection. Structural Health Monitoring, 2017, 16, 153-163.	7.5	24
22	A Reference-Free and Non-Contact Method for Detecting and Imaging Damage in Adhesive-Bonded Structures Using Air-Coupled Ultrasonic Transducers. Materials, 2017, 10, 1402.	2.9	21
23	Baseline-free fatigue crack detection based on spectral correlation and nonlinear wave modulation. Smart Materials and Structures, 2016, 25, 125034.	3.5	21
24	Numerical simulation of damage detection using laser-generated ultrasound. Ultrasonics, 2016, 69, 248-258.	3.9	54
25	Baseline-free damage visualization using noncontact laser nonlinear ultrasonics and state space geometrical changes. Smart Materials and Structures, 2015, 24, 065036.	3.5	35
26	Fatigue crack visualization using noncontact laser ultrasonics and state space geometrical changes. , 2015, , .		0
27	Fatigue crack localization using noncontact laser ultrasonics and state space attractors. Journal of the Acoustical Society of America, 2015, 138, 890-898.	1.1	13
28	Binding conditions for nonlinear ultrasonic generation unifying wave propagation and vibration. Applied Physics Letters, 2014, 104, .	3.3	28
29	Noncontact detection of fatigue cracks by laser nonlinear wave modulation spectroscopy (LNWMS). NDT and E International, 2014, 66, 106-116.	3.7	87
30	Fatigue Crack Localization Using Laser Nonlinear Wave Modulation Spectroscopy (LNWMS). Journal of the Korean Society for Nondestructive Testing, 2014, 34, 419-427.	0.2	16
31	Development of a PZT-based wireless digital monitor for composite impact monitoring. Smart Materials and Structures, 2012, 21, 035018.	3.5	29