

Xin Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5198071/publications.pdf>

Version: 2024-02-01

59
papers

954
citations

687220

13
h-index

501076

28
g-index

59
all docs

59
docs citations

59
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Feature pyramid network with self-guided attention refinement module for crack segmentation. <i>Structural Health Monitoring</i> , 2023, 22, 672-688.	4.3	8
2	A laboratory prototype of automatic pavement crack sealing based on a modified 3D printer. <i>International Journal of Pavement Engineering</i> , 2022, 23, 2969-2980.	2.2	12
3	Stochastic integrated model-based protocol for volume-controlled ventilation setting. <i>BioMedical Engineering OnLine</i> , 2022, 21, 13.	1.3	0
4	Transparent Object Reconstruction Based on Compressive Sensing and Super-Resolution Convolutional Neural Network. <i>Photonic Sensors</i> , 2022, 12, 1.	2.5	5
5	A hybrid method for pavement crack width measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 197, 111260.	2.5	5
6	Investigation on universal tool wear measurement technique using image-based cross-correlation analysis. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 169, 108489.	2.5	33
7	Anomalously enhanced thermal performance of carbon-nanotubes coated micro heat pipes. <i>Energy</i> , 2021, 214, 118909.	4.5	20
8	Programmable spatially variant single-pixel imaging based on compressive sensing. <i>Journal of Electronic Imaging</i> , 2021, 30, .	0.5	5
9	Underwater Object Detection and Reconstruction Based on Active Single-Pixel Imaging and Super-Resolution Convolutional Neural Network. <i>Sensors</i> , 2021, 21, 313.	2.1	18
10	Broadband Nonlinear Photonics in Few-Layer Borophene. <i>Small</i> , 2021, 17, e2006891.	5.2	42
11	Non-line-of-sight transparent object detection and reconstruction based on passive single-pixel imaging. <i>Laser Physics Letters</i> , 2021, 18, 025204.	0.6	2
12	Theoretical analysis of thermal response in biological skin tissue subjected to multiple laser beams. <i>Case Studies in Thermal Engineering</i> , 2021, 24, 100853.	2.8	13
13	Anomalously enhanced thermal conductivity of graphite-oxide nanofluids synthesized via liquid-phase pulsed laser ablation. <i>Case Studies in Thermal Engineering</i> , 2021, 25, 100993.	2.8	7
14	Stochastic Modelling of Respiratory System Elastance for Mechanically Ventilated Respiratory Failure Patients. <i>Annals of Biomedical Engineering</i> , 2021, 49, 3280-3295.	1.3	15
15	Performance analysis of photo-electrochemical photodetector based on liquid-phase exfoliation few-layered graphdiyne nanosheets. <i>Nanophotonics</i> , 2021, 10, 2833-2845.	2.9	8
16	Efficient Spatially-Variant Single-Pixel Imaging Using Block-Based Compressed Sensing. <i>Journal of Signal Processing Systems</i> , 2021, 93, 1323-1337.	1.4	7
17	A spectral splitting planar solar concentrator with a linear compound parabolic lightguide for optical fiber daylighting. <i>Renewable Energy</i> , 2021, 179, 778-787.	4.3	6
18	Network Data Acquisition and Monitoring System for Intensive Care Mechanical Ventilation Treatment. <i>IEEE Access</i> , 2021, 9, 91859-91873.	2.6	18

#	ARTICLE	IF	CITATIONS
19	Safe Mechanical Ventilation Treatment Settings for Respiratory Failure Patients. IFAC-PapersOnLine, 2021, 54, 115-120.	0.5	1
20	Automated Pavement Crack Segmentation Using U-Net-Based Convolutional Neural Network. IEEE Access, 2020, 8, 114892-114899.	2.6	141
21	3D Transparent Object Detection and Reconstruction Based on Passive Mode Single-Pixel Imaging. Sensors, 2020, 20, 4211.	2.1	8
22	Automated pavement crack detection and segmentation based on two-step convolutional neural network. Computer-Aided Civil and Infrastructure Engineering, 2020, 35, 1291-1305.	6.3	195
23	Bandgap Engineering of Hydroxy-Functionalized Borophene for Superior Photo-Electrochemical Performance. Angewandte Chemie - International Edition, 2020, 59, 23559-23563.	7.2	41
24	Characterizing the performance impacts of target surface on underwater pulse laser ranging system. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 255, 107267.	1.1	5
25	A brief review on 2D and 3D image reconstruction using single-pixel imaging. Laser Physics, 2020, 30, 095204.	0.6	5
26	Active Mode Single Pixel Imaging in the Highly Turbid Water Environment Using Compressive Sensing. IEEE Access, 2019, 7, 159390-159401.	2.6	11
27	A Study into the Effects of Factors Influencing an Underwater, Single-Pixel Imaging System's Performance. Photonics, 2019, 6, 123.	0.9	13
28	Surface Measurement Using Compressed Wavefront Sensing. Photonic Sensors, 2019, 9, 115-125.	2.5	7
29	Imaging of hidden object using passive mode single pixel imaging with compressive sensing. Laser Physics Letters, 2018, 15, 126201.	0.6	11
30	Theoretical 3D Model of Thermoelastic Damping in Laminated Rectangular Plate Resonators. International Journal of Structural Stability and Dynamics, 2018, 18, 1850158.	1.5	5
31	Underwater Turbulence Detection Using Gated Wavefront Sensing Technique. Sensors, 2018, 18, 798.	2.1	2
32	Effects of graphite oxide and single-walled carbon nanotubes as diesel additives on the performance, combustion, and emission characteristics of a light-duty diesel engine. Energy, 2018, 161, 70-80.	4.5	73
33	Improving combustion characteristics of diesel and biodiesel droplets by graphite oxide addition for diesel engine applications. International Journal of Energy Research, 2017, 41, 2258-2267.	2.2	31
34	Performance of range gated reconstruction: a theoretical analysis. Proceedings of SPIE, 2017, , .	0.8	1
35	Effect of indirect irradiation on surface morphology of Au film by nanosecond laser. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	1.1	3
36	Improved Range Estimation Model for Three-Dimensional (3D) Range Gated Reconstruction. Sensors, 2017, 17, 2031.	2.1	11

#	ARTICLE	IF	CITATIONS
37	Computational model considerations of defect detection in pipes with bends using focused guided wave. Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an, 2016, 39, 785-793.	0.6	1
38	Theoretical and experimental investigation into the influence factors for range gated reconstruction. Photonic Sensors, 2016, 6, 359-365.	2.5	1
39	Parametric Study of Defect Detection in Pipes with Bend Using Guided Ultrasonic Waves. MATEC Web of Conferences, 2016, 71, 02003.	0.1	1
40	Influence of target reflection on three-dimensional range gated reconstruction. Applied Optics, 2016, 55, 6588.	2.1	10
41	Thermoelastic response of a one-dimensional semi-infinite rod heated by a moving laser pulse. Canadian Journal of Physics, 2016, 94, 953-959.	0.4	11
42	Range compensation for accurate 3D imaging system. Applied Optics, 2016, 55, 153.	2.1	12
43	Multi-layer surface profiling using gated wavefront sensing. , 2015, , .		0
44	Gated imaging for multi-layer wave-front sensing and surface reconstruction. , 2013, , .		0
45	Stable and tunable single frequency Nd:GSAG laser around 943Ånm. Applied Optics, 2013, 52, 7302.	2.1	11
46	Torsional Strength Analysis of Output Shaft in Portal Axle Using Finite Element Analysis. Applied Mechanics and Materials, 2013, 284-287, 996-1000.	0.2	0
47	Parametric Optimization of the Output Shaft of a Portal Axle using Finite Element Analysis. Strojnicki Vestnik/Journal of Mechanical Engineering, 2013, 10, 613-619.	0.6	3
48	Range reconstruction model for 3D gated imaging. , 2013, , .		0
49	Development CT-based three-dimensional complex skull model for Finite element analysis. , 2012, , .		12
50	Modal and stress analysis of gear train design in portal axle using finite element modeling and simulation. Journal of Mechanical Science and Technology, 2012, 26, 575-589.	0.7	26
51	Buck DC-DC converter for embedded control system. , 2011, , .		0
52	Using MTF for automated gated imaging system in turbid medium. , 2010, , .		0
53	Preliminary study on visual guidance for autonomous vehicle in rain forest terrain. , 2010, , .		1
54	Scattering noise estimation of range-gated imaging system in turbid condition. Optics Express, 2010, 18, 21147.	1.7	25

#	ARTICLE	IF	CITATIONS
55	3D finite element simulation of magnetic particle inspection. , 2010, , .		5
56	Generation of radiographic techniques for digital radiography applications. Insight: Non-Destructive Testing and Condition Monitoring, 2009, 51, 327-331.	0.3	2
57	<title>Image enhancement for radiography inspection</title>. , 2005, , .		12
58	Radiographic Image Segmentation for Weld Inspection Using a Robust Algorithm. Research in Nondestructive Evaluation, 2005, 16, 131-142.	0.5	10
59	Graphite Oxide Nanoparticle as a Diesel Fuel Additive for Cleaner Emissions and Lower Fuel Consumption. Energy & Fuels, 0, , .	2.5	23