

Xin Wang

List of Publications by Year in descending order

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59
papers

954
citations

687220

13
h-index

501076

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59
all docs

59
docs citations

59
times ranked

689
citing authors

#	ARTICLE	IF	CITATIONS
1	Automated pavement crack detection and segmentation based on two-step convolutional neural network. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2020, 35, 1291-1305.	6.3	195
2	Automated Pavement Crack Segmentation Using U-Net-Based Convolutional Neural Network. <i>IEEE Access</i> , 2020, 8, 114892-114899.	2.6	141
3	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. <i>Energy</i> , 2018, 161, 70-80.	4.5	73
4	Broadband Nonlinear Photonics in Few-Layer Borophene. <i>Small</i> , 2021, 17, e2006891.	5.2	42
5	Bandgap Engineering of Hydroxy-Functionalized Borophene for Superior Photo-Electrochemical Performance. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23559-23563.	7.2	41
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	Improving combustion characteristics of diesel and biodiesel droplets by graphite oxide addition for diesel engine applications. <i>International Journal of Energy Research</i> , 2017, 41, 2258-2267.	2.2	31
8	Modal and stress analysis of gear train design in portal axle using finite element modeling and simulation. <i>Journal of Mechanical Science and Technology</i> , 2012, 26, 575-589.	0.7	26
9	Scattering noise estimation of range-gated imaging system in turbid condition. <i>Optics Express</i> , 2010, 18, 21147.	1.7	25
10	Graphite Oxide Nanoparticle as a Diesel Fuel Additive for Cleaner Emissions and Lower Fuel Consumption. <i>Energy & Fuels</i> , 0, , .	2.5	23
11	Anomalously enhanced thermal performance of carbon-nanotubes coated micro heat pipes. <i>Energy</i> , 2021, 214, 118909.	4.5	20
12	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
13	Network Data Acquisition and Monitoring System for Intensive Care Mechanical Ventilation Treatment. <i>IEEE Access</i> , 2021, 9, 91859-91873.	2.6	18
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	A Study into the Effects of Factors Influencing an Underwater, Single-Pixel Imaging System's Performance. <i>Photonics</i> , 2019, 6, 123.	0.9	13
16	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
17	<title>Image enhancement for radiography inspection</title>. , 2005, , .		12
18	Development CT-based three-dimensional complex skull model for Finite element analysis. , 2012, , .		12

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19	Range compensation for accurate 3D imaging system. <i>Applied Optics</i> , 2016, 55, 153.	2.1	12
20	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
21	Stable and tunable single frequency Nd:GSAG laser around 943Ånm. <i>Applied Optics</i> , 2013, 52, 7302.	2.1	11
22	Thermoelastic response of a one-dimensional semi-infinite rod heated by a moving laser pulse. <i>Canadian Journal of Physics</i> , 2016, 94, 953-959.	0.4	11
23	Improved Range Estimation Model for Three-Dimensional (3D) Range Gated Reconstruction. <i>Sensors</i> , 2017, 17, 2031.	2.1	11
24	Imaging of hidden object using passive mode single pixel imaging with compressive sensing. <i>Laser Physics Letters</i> , 2018, 15, 126201.	0.6	11
25	Active Mode Single Pixel Imaging in the Highly Turbid Water Environment Using Compressive Sensing. <i>IEEE Access</i> , 2019, 7, 159390-159401.	2.6	11
26	Radiographic Image Segmentation for Weld Inspection Using a Robust Algorithm. <i>Research in Nondestructive Evaluation</i> , 2005, 16, 131-142.	0.5	10
27	Influence of target reflection on three-dimensional range gated reconstruction. <i>Applied Optics</i> , 2016, 55, 6588.	2.1	10
28	3D Transparent Object Detection and Reconstruction Based on Passive Mode Single-Pixel Imaging. <i>Sensors</i> , 2020, 20, 4211.	2.1	8
29	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
30	Feature pyramid network with self-guided attention refinement module for crack segmentation. <i>Structural Health Monitoring</i> , 2023, 22, 672-688.	4.3	8
31	Surface Measurement Using Compressed Wavefront Sensing. <i>Photonic Sensors</i> , 2019, 9, 115-125.	2.5	7
32	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
33	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
34	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
35	3D finite element simulation of magnetic particle inspection. , 2010, , .		5
36	Theoretical 3D Model of Thermoelastic Damping in Laminated Rectangular Plate Resonators. <i>International Journal of Structural Stability and Dynamics</i> , 2018, 18, 1850158.	1.5	5

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37	Programmable spatially variant single-pixel imaging based on compressive sensing. Journal of Electronic Imaging, 2021, 30, .	0.5	5
38	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
39	A brief review on 2D and 3D image reconstruction using single-pixel imaging. Laser Physics, 2020, 30, 095204.	0.6	5
40	Transparent Object Reconstruction Based on Compressive Sensing and Super-Resolution Convolutional Neural Network. Photonic Sensors, 2022, 12, 1.	2.5	5
41	A hybrid method for pavement crack width measurement. Measurement: Journal of the International Measurement Confederation, 2022, 197, 111260.	2.5	5
42	Parametric Optimization of the Output Shaft of a Portal Axle using Finite Element Analysis. Strojniski Vestnik/Journal of Mechanical Engineering, 2013, 10, 613-619.	0.6	3
43	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
44	Generation of radiographic techniques for digital radiography applications. Insight: Non-Destructive Testing and Condition Monitoring, 2009, 51, 327-331.	0.3	2
45	Underwater Turbulence Detection Using Gated Wavefront Sensing Technique. Sensors, 2018, 18, 798.	2.1	2
46	Non-line-of-sight transparent object detection and reconstruction based on passive single-pixel imaging. Laser Physics Letters, 2021, 18, 025204.	0.6	2
47	Preliminary study on visual guidance for autonomous vehicle in rain forest terrain. , 2010, , .		1
48	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
49	Theoretical and experimental investigation into the influence factors for range gated reconstruction. Photonic Sensors, 2016, 6, 359-365.	2.5	1
50	Parametric Study of Defect Detection in Pipes with Bend Using Guided Ultrasonic Waves. MATEC Web of Conferences, 2016, 71, 02003.	0.1	1
51	Performance of range gated reconstruction: a theoretical analysis. Proceedings of SPIE, 2017, , .	0.8	1
52	Safe Mechanical Ventilation Treatment Settings for Respiratory Failure Patients. IFAC-PapersOnLine, 2021, 54, 115-120.	0.5	1
53	Using MTF for automated gated imaging system in turbid medium. , 2010, , .		0
54	Buck DC-DC converter for embedded control system. , 2011, , .		0

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55	Gated imaging for multi-layer wave-front sensing and surface reconstruction. , 2013, , .		0
56	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
57	Range reconstruction model for 3D gated imaging. , 2013, , .		0
58	Multi-layer surface profiling using gated wavefront sensing. , 2015, , .		0
59	Stochastic integrated model-based protocol for volume-controlled ventilation setting. BioMedical Engineering OnLine, 2022, 21, 13.	1.3	0