ZhenHong Jia

List of Publications by Year
in descending order

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117	1,331	430442	476904
papers	citations	18	29
		h-index	g-index

118	118	118	1152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection of Acetamiprid by Aptamer Based on a Porous Silicon Microcavity. IEEE Photonics Journal, 2022, 14, 1-6.	1.0	3
2	Multispectral Image Enhancement Based on Weighted Principal Component Analysis and Improved Fractional Differential Mask. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	1.4	0
3	Multispectral Image Enhancement Based on the Dark Channel Prior and Bilateral Fractional Differential Model. Remote Sensing, 2022, 14, 233.	1.8	4
4	Dual signal light detection of beta-lactoglobulin based on a porous silicon bragg mirror. Biosensors and Bioelectronics, 2022, 204, 114035.	5.3	3
5	Denoising of Fluorescence Image on the Surface of Quantum Dot/Nanoporous Silicon Biosensors. Sensors, 2022, 22, 1366.	2.1	3
6	Improved Fault-Tolerant Consensus Based on the PBFT Algorithm. IEEE Access, 2022, 10, 30274-30283.	2.6	20
7	Multiscale Geometric Analysis Fusion-Based Unsupervised Change Detection in Remote Sensing Images via FLICM Model. Entropy, 2022, 24, 291.	1.1	7
8	Color balance and sand-dust image enhancement in lab space. Multimedia Tools and Applications, 2022, 81, 15349-15365.	2.6	10
9	Detection of Î²-Lactoglobulin by a Porous Silicon Microcavity Biosensor Based on the Angle Spectrum. Sensors, 2022, 22, 1912.	2.1	4
10	Sand Dust Images Enhancement Based on Red and Blue Channels. Sensors, 2022, 22, 1918.	2.1	4
11	Multibranch Adaptive Fusion Network for RGBT Tracking. IEEE Sensors Journal, 2022, 22, 7084-7093.	2.4	8
12	Detail Preserving Low Illumination Image and Video Enhancement Algorithm Based on Dark Channel Prior. Sensors, 2022, 22, 85.	2.1	4
13	Resource Sharing for Cellular-Assisted D2D Communications With Imperfect CSI: A Many-to-Many Strategy. IEEE Systems Journal, 2022, 16, 4454-4465.	2.9	1
14	Image Reconstruction of Multibranch Feature Multiplexing Fusion Network with Mixed Multilayer Attention. Remote Sensing, 2022, 14, 2029.	1.8	4
15	Image Reconstruction Based on Progressive Multistage Distillation Convolution Neural Network. Computational Intelligence and Neuroscience, 2022, 2022, 1-12.	1.1	1
16	Energy efficiency resource allocation for D2D communication network based on relay selection. Wireless Networks, 2021, 27, 3689-3699.	2.0	7
17	Efficient Attention Fusion Network in Wavelet Domain for Demoireing. IEEE Access, 2021, 9, 53392-53400.	2.6	4
18	Multi-Feature Fusion Target Re-Location Tracking Based on Correlation Filters. IEEE Access, 2021, 9, 28954-28964.	2.6	9

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19	Specular Reflection Image Enhancement Based on a Dark Channel Prior. IEEE Photonics Journal, 2021, 13, 1-11.	1.0	11
20	Research on Biological Detection Based on Reflected Light Images of a Porous Silicon Bragg Mirror. IEEE Photonics Journal, 2021, 13, 1-13.	1.0	1
21	A Biosensor Based on an Assembled Porous Silicon Microcavity. IEEE Sensors Journal, 2021, 21, 10563-10570.	2.4	3
22	Digital image biological detection technology based on the porous silicon periodic crystals film. Optoelectronics Letters, 2021, 17, 552-557.	0.4	3
23	Multispectral Image Change Detection Based on Single-Band Slow Feature Analysis. Remote Sensing, 2021, 13, 2969.	1.8	5
24	Enhanced Biosensor Based on Assembled Porous Silicon Microcavities Using CdSe/ZnS Quantum Dots. IEEE Photonics Journal, 2021, 13, 1-6.	1.0	2
25	Change Detection from SAR Images Based on Convolutional Neural Networks Guided by Saliency Enhancement. Remote Sensing, 2021, 13, 3697.	1.8	7
26	A novel multiscale transform decomposition based multi-focus image fusion framework. Multimedia Tools and Applications, 2021, 80, 12389-12409.	2.6	20
27	Detection of Pesticide Residues Based on a Porous Silicon Optical Biosensor With a Quantum Dot Fluorescence Label. IEEE Sensors Journal, 2021, 21, 21441-21449.	2.4	3
28	An Effective Algorithm for Specular Reflection Image Enhancement. IEEE Access, 2021, 9, 154513-154523.	2.6	3
29	Traffic Speed Prediction Based on Heterogeneous Graph Attention Residual Time Series Convolutional Networks. AI, 2021, 2, 650-661.	2.1	1
30	Video Desnowing and Deraining via Saliency and Dual Adaptive Spatiotemporal Filtering. Sensors, 2021, 21, 7610.	2.1	3
31	High-Brightness Image Enhancement Algorithm. Applied Sciences (Switzerland), 2021, 11, 11497.	1.3	2
32	Cross-Attention Fusion Based Spatial-Temporal Multi-Graph Convolutional Network for Traffic Flow Prediction. Sensors, 2021, 21, 8468.	2.1	5
33	Low Illumination Video Image Enhancement. IEEE Photonics Journal, 2020, 12, 1-13.	1.0	7
34	Change Detection in Multitemporal Monitoring Images Under Low Illumination. IEEE Access, 2020, 8, 126700-126712.	2.6	6
35	A Fast Image Segmentation Algorithm Based on Saliency Map and Neutrosophic Set Theory. IEEE Photonics Journal, 2020, 12, 1-16.	1.0	9
36	A Multi-Information Fusion Correlation Filters Tracker. IEEE Access, 2020, 8, 162022-162040.	2.6	3

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37	A Novel Harris Feature Detection-Based Registration for Remote Sensing Image. Journal of the Indian Society of Remote Sensing, 2020, 48, 1245-1252.	1.2	3
38	Video Snow Removal Based on Self-Adaptation Snow Detection and Patch-Based Gaussian Mixture Model. IEEE Access, 2020, 8, 160188-160201.	2.6	5
39	Moving object detection in video sequence images based on an improved visual background extraction algorithm. Multimedia Tools and Applications, 2020, 79, 29663-29684.	2.6	12
40	NCAE and ELM Based Enhanced Ensemble Optimized Model for Traffic Flow Forecasting. IEEE Access, 2020, 8, 200486-200499.	2.6	0
41	Object Motion Deblurring in Single Image Under Static Background. IEEE Access, 2020, 8, 218069-218080.	2.6	2
42	A Fast Sand-Dust Image Enhancement Algorithm by Blue Channel Compensation and Guided Image Filtering. IEEE Access, 2020, 8, 196690-196699.	2.6	28
43	A novel approach for multi-focus image fusion based on SF-PAPCNN and ISML in NSST domain. Multimedia Tools and Applications, 2020, 79, 24303-24328.	2.6	22
44	An efficient and high quality medical CT image enhancement algorithm. International Journal of Imaging Systems and Technology, 2020, 30, 939-949.	2.7	13
45	A method to improve the accuracy of SAR image change detection by using an image enhancement method. ISPRS Journal of Photogrammetry and Remote Sensing, 2020, 163, 137-151.	4.9	13
46	Blue Channel and Fusion for Sandstorm Image Enhancement. IEEE Access, 2020, 8, 66931-66940.	2.6	17
47	Biological Detection Based on the Transmitted Light Image From a Porous Silicon Microcavity. IEEE Sensors Journal, 2020, 20, 12184-12189.	2.4	8
48	Irreversible accumulated SERS behavior of the molecule-linked silver and silver-doped titanium dioxide hybrid system. Nature Communications, 2020, 11, 1785.	5.8	107
49	Remote sensing image enhancement based on the combination of adaptive nonlinear gain and the PLIP model in the NSST domain. Multimedia Tools and Applications, 2020, 79, 13647-13665.	2.6	5
50	Detection using a quantum dots/porous silicon optical biosensor based on digital fluorescence images. Sensors and Actuators B: Chemical, 2020, 315, 128108.	4.0	15
51	Brain Image Enhancement Approach Based on Singular Value Decomposition in Nonsubsampled Shearlet Transform Domain. Journal of Medical Imaging and Health Informatics, 2020, 10, 1785-1794.	0.2	6
52	ELM-Based Improved Layered Ensemble Architecture for Time Series Forecasting. IEEE Access, 2019, 7, 97827-97837.	2.6	1
53	Applying Speckle Noise Suppression to Refractive Indices Change Detection in Porous Silicon Microarrays. Sensors, 2019, 19, 2975.	2.1	4
54	Speckle Noise Removal in Image-based Detection of Refractive Index Changes in Porous Silicon Microarrays. Scientific Reports, 2019, 9, 15001.	1.6	9

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55	Improvement of SERS by the Optical Modulation of Photonic Crystal. IEEE Sensors Journal, 2019, 19, 11221-11227.	2.4	11
56	Quasi-Noise-Free and Detail-Preserved Digital Holographic Reconstruction. IEEE Access, 2019, 7, 52155-52167.	2.6	5
57	Change Detection of Optical Remote Sensing Image Disturbed by Thin Cloud Using Wavelet Coefficient Substitution Algorithm. Sensors, 2019, 19, 1972.	2.1	4
58	Change Detection in SAR Images Based on the ROF Model Semi-Implicit Denoising Method. Sensors, 2019, 19, 1179.	2.1	12
59	The Enhanced Sensitivity of a Porous Silicon Microcavity Biosensor Based on an Angular Spectrum Using CdSe/ZnS Quantum Dots. Sensors, 2019, 19, 4872.	2.1	13
60	An Variable Selection Method of the Significance Multivariate Correlation Competitive Population Analysis for Near-Infrared Spectroscopy in Chemical Modeling. IEEE Access, 2019, 7, 167195-167209.	2.6	8
61	Speckle Reduction of Reconstructions of Digital Holograms Using Gamma-Correction and Filtering. IEEE Access, 2018, 6, 5227-5235.	2.6	17
62	Unsupervised Change Detection of SAR Images Based on an Improved NSST Algorithm. Journal of the Indian Society of Remote Sensing, 2018, 46, 801-808.	1.2	5
63	A novel brain image enhancement method based on nonsubsampled contourlet transform. International Journal of Imaging Systems and Technology, 2018, 28, 124-131.	2.7	9
64	Microscopy mineral image enhancement based on improved adaptive threshold in nonsubsampled shearlet transform domain. AIP Advances, 2018, 8, 035002.	0.6	8
65	Detection of Ammonia-Oxidizing Bacteria (AOB) Using a Porous Silicon Optical Biosensor Based on a Multilayered Double Bragg Mirror Structure. Sensors, 2018, 18, 105.	2.1	17
66	Metal Nanoparticles/Porous Silicon Microcavity Enhanced Surface Plasmon Resonance Fluorescence for the Detection of DNA. Sensors, 2018, 18, 661.	2.1	24
67	A remote sensing image enhancement method using mean filter and unsharp masking in non-subsampled contourlet transform domain. Transactions of the Institute of Measurement and Control, 2017, 39, 183-193.	1.1	18
68	Enhancement of the quantum dot fluorescence intensity by Au nanoparticle decoration of a porous silicon photonic crystal. Applied Physics B: Lasers and Optics, 2017, 123, 1.	1.1	8
69	Change detection in SAR images based on the logarithmic transformation and total variation denoising method. Remote Sensing Letters, 2017, 8, 214-223.	0.6	15
70	A Practical GrabCut Color Image Segmentation Based on Bayes Classification and Simple Linear Iterative Clustering. IEEE Access, 2017, 5, 18480-18487.	2.6	22
71	Hydatid detection using the near-infrared transmission angular spectra of porous silicon microcavity biosensors. Scientific Reports, 2017, 7, 44798.	1.6	18
72	Preparation of a Photoluminescent Film on a Silicon-On-Insulator Device for the Simple, Rapid, and Quantitative Detection of a Hydatid Disease Diagnostic Protein Marker. IEEE Photonics Journal, 2017, 9, 1-7.	1.0	2

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73	Base Station Locations Optimization in LTE Using Artificial Immune Algorithm. , 2017, , .		3
74	Method of Improved Fuzzy Contrast Combined Adaptive Threshold in NSCT for Medical Image Enhancement. BioMed Research International, 2017, 2017, 1-10.	0.9	17
75	Detection of Echinococcus granulosus antigen by a quantum dot/porous silicon optical biosensor. Biomedical Optics Express, 2017, 8, 3458.	1.5	26
76	High Sensitivity Detection of CdSe/ZnS Quantum Dot-Labeled DNA Based on N-type Porous Silicon Microcavities. Sensors, 2017, 17, 80.	2.1	16
77	Parallel Detection of Refractive Index Changes in a Porous Silicon Microarray Based on Digital Images. Sensors, 2017, 17, 750.	2.1	11
78	Efficient Fluorescence Resonance Energy Transfer between Quantum Dots and Gold Nanoparticles Based on Porous Silicon Photonic Crystal for DNA Detection. Sensors, 2017, 17, 1078.	2.1	39
79	Remote Sensing Image Change Detection Based on NSCT-HMT Model and Its Application. Sensors, 2017, 17, 1295.	2.1	14
80	Remote Sensing Image Enhancement Based on Non-Local Means Filter in NSCT Domain. Algorithms, 2017, 10, 116.	1.2	10
81	Image Processing of Porous Silicon Microarray in Refractive Index Change Detection. Sensors, 2017, 17, 1335.	2.1	7
82	Development of Fluorescent FRET Probes for â€œOff-Onâ€•Detection of L-Cysteine Based on Gold Nanoparticles and Porous Silicon Nanoparticles in Ethanol Solution. Sensors, 2017, 17, 520.	2.1	10
83	Noisy Remote Sensing Image Segmentation with Wavelet Shrinkage and Graph Cuts. Journal of the Indian Society of Remote Sensing, 2016, 44, 995-1002.	1.2	3
84	Refractive index change detection based on porous silicon microarray. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	7
85	Remote sensing image enhancement based on the combination of nonsubsampled shearlet transform and guided filtering. Optical Engineering, 2016, 55, 103104.	0.5	21
86	Polyhedron Cu₂O@Ag composite microstructures: synthesis, mechanism analysis and structure-dependent SERS properties. RSC Advances, 2016, 6, 99105-99113.	1.7	15
87	SAR Image Change Detection Method Based on Pulse-Coupled Neural Network. Journal of the Indian Society of Remote Sensing, 2016, 44, 443-450.	1.2	3
88	A medical image enhancement method using adaptive thresholding in NSCT domain combined unsharp masking. International Journal of Imaging Systems and Technology, 2015, 25, 199-205.	2.7	27
89	Study on the symmetrical metal-cladding waveguide-enhanced quality factor. Journal of Modern Optics, 2015, 62, 1347-1352.	0.6	1
90	Enhancement of the R6G fluorescence by gold nanoparticle depositions in porous silicon Bragg reflectors. Physica Status Solidi (A) Applications and Materials Science, 2015, 212, 662-665.	0.8	7

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91	Spectrometer-free biological detection method using porous silicon microcavity devices. Optics Express, 2015, 23, 24626.	1.7	31
92	Scene text detection method based on the hierarchical model. IET Computer Vision, 2015, 9, 500-510.	1.3	9
93	4MBA-labeled Ag-nanorod aggregates coated with SiO₂: synthesis, SERS activity, and biosensing applications. Analytical Methods, 2015, 7, 8832-8838.	1.3	9
94	Study on the Formation of Au Nanoparticles on Fresh and Oxided Porous Silicon Microcavity Substrate. Integrated Ferroelectrics, 2015, 160, 49-54.	0.3	0
95	Ag@Au hexagonal nanorings: synthesis, mechanistic analysis and structure-dependent optical characteristics. Journal of Materials Chemistry C, 2015, 3, 9726-9733.	2.7	26
96	The remote sensing image enhancement based on nonsubsampled contourlet transform and unsharp masking. Concurrency Computation Practice and Experience, 2014, 26, 742-747.	1.4	9
97	Highly sensitive immunoassay based on SERS using nano-Au immune probes and a nano-Ag immune substrate. Talanta, 2014, 123, 161-168.	2.9	40
98	Porous silicon based on multilayer dielectricâ€grating optical sensors with enhanced biosensing. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1651-1654.	0.8	7
99	NeuCube^(ST) for spatio-temporal data predictive modelling with a case study on ecological data. , 2014, , .		25
100	An enhanced multiphase Chanâ€“Vese model for the remote sensing image segmentation. Concurrency Computation Practice and Experience, 2014, 26, 2893-2906.	1.4	5
101	Face detection algorithm based on hybrid Monte Carlo method and Bayesian support vector machine. Concurrency Computation Practice and Experience, 2013, 25, 1064-1072.	1.4	3
102	High-Sensitivity Displacement Sensor Based on a Bent Fiber Machâ€“Zehnder Interferometer. IEEE Photonics Technology Letters, 2013, 25, 2354-2357.	1.3	68
103	Porous silicon optical microcavity biosensor on silicon-on-insulator wafer for sensitive DNA detection. Biosensors and Bioelectronics, 2013, 44, 89-94.	5.3	107
104	Hybridization assay of insect antifreezing protein gene by novel multilayered porous silicon nucleic acid biosensor. Biosensors and Bioelectronics, 2013, 39, 329-333.	5.3	32
105	Modeling Concern of Online Auction System with SA-CDL. , 2013, , .		0
106	Research on High Sensitivity Caused by Broken 1-D Multilayer Stack Sensor Based on the Slow Bloch Mode. IEEE Photonics Technology Letters, 2012, 24, 2163-2165.	1.3	1
107	An attribute-based ring signature scheme in lattice. Wuhan University Journal of Natural Sciences, 2012, 17, 297-301.	0.2	2
108	Multiâ€scale image segmentation algorithm based on support vector machine approximation criteria. Concurrency Computation Practice and Experience, 2012, 24, 1231-1238.	1.4	5

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109	The model of measuring melons' sugar based on resistance and capacitance. , 2011, , .		0
110	Research on Positioning Technology of Xinjiang Mobile GIS. , 2009, , .		2
111	Application of Support Vector Machine to Mobile Communications in Telephone Traffic Load of Monthly Busy Hour Prediction. , 2009, , .		7
112	A New OFDM Blind Synchronization Algorithm Suitable for PLC. , 2009, , .		0
113	An Efficient Fuzzy Kohonen Clustering Network Algorithm. , 2008, , .		9
114	Image Restoration Based on Robust Error Function and Particle Swarm Optimization-BP Neural Network. , 2008, , .		5
115	Improved Edge Detection Based on LS-SVM. , 2008, , .		0
116	Human Face Recognition Based on Principal Component Analysis and Particle Swarm Optimization-BP Neural Network . , 2007, , .		13
117	Target re-location kernel correlation filtered visual tracking with fused deep feature. Multimedia Tools and Applications, 0, , 1.	2.6	0