

Daoliang Li

List of Publications by Year in descending order

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Version: 2024-02-01

126
papers

4,734
citations

70961

41
h-index

110170

64
g-index

128
all docs

128
docs citations

128
times ranked

3778
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Feature selection based on improved ant colony optimization for online detection of foreign fiber in cotton. <i>Applied Soft Computing Journal</i> , 2014, 24, 585-596. | 4.1 | 263 |
| 2 | A hybrid approach of support vector regression with genetic algorithm optimization for aquaculture water quality prediction. <i>Mathematical and Computer Modelling</i> , 2013, 58, 458-465. | 2.0 | 177 |
| 3 | A Review of the Artificial Neural Network Models for Water Quality Prediction. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5776. | 1.3 | 177 |
| 4 | Fish species classification by color, texture and multi-class support vector machine using computer vision. <i>Computers and Electronics in Agriculture</i> , 2012, 88, 133-140. | 3.7 | 174 |
| 5 | Model predictive control and its application in agriculture: A review. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 104-117. | 3.7 | 135 |
| 6 | Recent advances in sensor fault diagnosis: A review. <i>Sensors and Actuators A: Physical</i> , 2020, 309, 111990. | 2.0 | 131 |
| 7 | An improved K -means clustering algorithm for fish image segmentation. <i>Mathematical and Computer Modelling</i> , 2013, 58, 790-798. | 2.0 | 114 |
| 8 | Detection methods of ammonia nitrogen in water: A review. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 127, 115890. | 5.8 | 106 |
| 9 | A review on the research status and development trend of equipment in water treatment processes of recirculating aquaculture systems. <i>Reviews in Aquaculture</i> , 2019, 11, 863-895. | 4.6 | 105 |
| 10 | Review of Dissolved Oxygen Detection Technology: From Laboratory Analysis to Online Intelligent Detection. <i>Sensors</i> , 2019, 19, 3995. | 2.1 | 104 |
| 11 | Prediction of the temperature in a Chinese solar greenhouse based on LSSVM optimized by improved PSO. <i>Computers and Electronics in Agriculture</i> , 2016, 122, 94-102. | 3.7 | 100 |
| 12 | Path Planning Technologies for Autonomous Underwater Vehicles-A Review. <i>IEEE Access</i> , 2019, 7, 9745-9768. | 2.6 | 100 |
| 13 | A remote wireless system for water quality online monitoring in intensive fish culture. <i>Computers and Electronics in Agriculture</i> , 2010, 71, S3-S9. | 3.7 | 95 |
| 14 | Computer Vision Models in Intelligent Aquaculture with Emphasis on Fish Detection and Behavior Analysis: A Review. <i>Archives of Computational Methods in Engineering</i> , 2021, 28, 2785-2816. | 6.0 | 91 |
| 15 | Fish-Expert: a web-based expert system for fish disease diagnosis. <i>Expert Systems With Applications</i> , 2002, 23, 311-320. | 4.4 | 86 |
| 16 | Nonintrusive methods for biomass estimation in aquaculture with emphasis on fish: a review. <i>Reviews in Aquaculture</i> , 2020, 12, 1390-1411. | 4.6 | 86 |
| 17 | Application of machine learning in intelligent fish aquaculture: A review. <i>Aquaculture</i> , 2021, 540, 736724. | 1.7 | 86 |
| 18 | Prediction of dissolved oxygen content in river crab culture based on least squares support vector regression optimized by improved particle swarm optimization. <i>Computers and Electronics in Agriculture</i> , 2013, 95, 82-91. | 3.7 | 81 |

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|----|--|-----|-----------|
| 19 | A two-stage feature selection method with its application. <i>Computers and Electrical Engineering</i> , 2015, 47, 114-125. | 3.0 | 77 |
| 20 | Automatic recognition methods of fish feeding behavior in aquaculture: A review. <i>Aquaculture</i> , 2020, 528, 735508. | 1.7 | 74 |
| 21 | A hybrid WA-CPSO-LSSVR model for dissolved oxygen content prediction in crab culture. <i>Engineering Applications of Artificial Intelligence</i> , 2014, 29, 114-124. | 4.3 | 73 |
| 22 | Classification of foreign fibers in cotton lint using machine vision and multi-class support vector machine. <i>Computers and Electronics in Agriculture</i> , 2010, 74, 274-279. | 3.7 | 71 |
| 23 | Multi-scale prediction of water temperature using empirical mode decomposition with back-propagation neural networks. <i>Computers and Electrical Engineering</i> , 2016, 49, 1-8. | 3.0 | 69 |
| 24 | A study on e-learning take-up intention from an innovation adoption perspective: A case in China. <i>Computers and Education</i> , 2010, 55, 237-246. | 5.1 | 67 |
| 25 | EfficientNet-B4-Ranger: A novel method for greenhouse cucumber disease recognition under natural complex environment. <i>Computers and Electronics in Agriculture</i> , 2020, 176, 105652. | 3.7 | 66 |
| 26 | An Adaptive Thresholding algorithm of field leaf image. <i>Computers and Electronics in Agriculture</i> , 2013, 96, 23-39. | 3.7 | 64 |
| 27 | An improved genetic algorithm for optimal feature subset selection from multi-character feature set. <i>Expert Systems With Applications</i> , 2011, 38, 2733-2740. | 4.4 | 62 |
| 28 | Models for estimating feed intake in aquaculture: A review. <i>Computers and Electronics in Agriculture</i> , 2016, 127, 425-438. | 3.7 | 62 |
| 29 | Review of Methods for the Detection and Determination of Malachite Green and Leuco-Malachite Green in Aquaculture. <i>Critical Reviews in Analytical Chemistry</i> , 2019, 49, 1-20. | 1.8 | 62 |
| 30 | Intelligent fish farm—the future of aquaculture. <i>Aquaculture International</i> , 2021, 29, 2681-2711. | 1.1 | 60 |
| 31 | AUV Trajectory Tracking Models and Control Strategies: A Review. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1020. | 1.2 | 59 |
| 32 | Automatic carbon dioxide enrichment strategies in the greenhouse: A review. <i>Biosystems Engineering</i> , 2018, 171, 101-119. | 1.9 | 58 |
| 33 | High-Throughput Plant Phenotyping Platform (HT3P) as a Novel Tool for Estimating Agronomic Traits From the Lab to the Field. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 623705. | 2.0 | 58 |
| 34 | A new approach for image processing in foreign fiber detection. <i>Computers and Electronics in Agriculture</i> , 2009, 68, 68-77. | 3.7 | 56 |
| 35 | Classification and identification of foreign fibers in cotton on the basis of a support vector machine. <i>Mathematical and Computer Modelling</i> , 2010, 51, 1433-1437. | 2.0 | 51 |
| 36 | E-learning adoption intention and its key influence factors based on innovation adoption theory. <i>Mathematical and Computer Modelling</i> , 2010, 51, 1428-1432. | 2.0 | 50 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Application of Graphene-Based Materials for Detection of Nitrate and Nitrite in Water—A Review. <i>Sensors</i> , 2020, 20, 54. | 2.1 | 50 |
| 38 | An Innovation Adoption Study of Online E-Payment in Chinese Companies. <i>Journal of Electronic Commerce in Organizations</i> , 2006, 4, 48-69. | 0.6 | 49 |
| 39 | From Smart Farming towards Unmanned Farms: A New Mode of Agricultural Production. <i>Agriculture (Switzerland)</i> , 2021, 11, 145. | 1.4 | 49 |
| 40 | Fast recognition of foreign fibers in cotton lint using machine vision. <i>Mathematical and Computer Modelling</i> , 2011, 54, 877-882. | 2.0 | 47 |
| 41 | Applications of Raman spectroscopy in detection of water quality. <i>Applied Spectroscopy Reviews</i> , 2016, 51, 333-357. | 3.4 | 44 |
| 42 | A method for predicting dissolved oxygen in aquaculture water in an aquaponics system. <i>Computers and Electronics in Agriculture</i> , 2018, 151, 384-391. | 3.7 | 44 |
| 43 | Automatic counting methods in aquaculture: A review. <i>Journal of the World Aquaculture Society</i> , 2021, 52, 269-283. | 1.2 | 44 |
| 44 | An automatic method of fish length estimation using underwater stereo system based on LabVIEW. <i>Computers and Electronics in Agriculture</i> , 2020, 173, 105419. | 3.7 | 42 |
| 45 | An automatic active contour method for sea cucumber segmentation in natural underwater environments. <i>Computers and Electronics in Agriculture</i> , 2017, 135, 134-142. | 3.7 | 41 |
| 46 | Equipment and Intelligent Control System in Aquaponics: A Review. <i>IEEE Access</i> , 2019, 7, 169306-169326. | 2.6 | 40 |
| 47 | Applications of computer vision techniques to cotton foreign matter inspection: A review. <i>Computers and Electronics in Agriculture</i> , 2014, 109, 59-70. | 3.7 | 39 |
| 48 | Underwater image quality enhancement of sea cucumbers based on improved histogram equalization and wavelet transform. <i>Information Processing in Agriculture</i> , 2017, 4, 206-213. | 2.9 | 39 |
| 49 | Development of <i>In Situ</i> Sensors for Chlorophyll Concentration Measurement. <i>Journal of Sensors</i> , 2015, 2015, 1-16. | 0.6 | 38 |
| 50 | Recent advances of deep learning algorithms for aquacultural machine vision systems with emphasis on fish. <i>Artificial Intelligence Review</i> , 2022, 55, 4077-4116. | 9.7 | 34 |
| 51 | Review of optical fibre probes for enhanced Raman sensing. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 1040-1055. | 1.2 | 33 |
| 52 | Recent advances in intelligent recognition methods for fish stress behavior. <i>Aquacultural Engineering</i> , 2022, 96, 102222. | 1.4 | 33 |
| 53 | Fault Diagnosis of Water Quality Monitoring Devices Based on Multiclass Support Vector Machines and Rule-Based Decision Trees. <i>IEEE Access</i> , 2018, 6, 22184-22195. | 2.6 | 31 |
| 54 | Dissolved oxygen content prediction in crab culture using a hybrid intelligent method. <i>Scientific Reports</i> , 2016, 6, 27292. | 1.6 | 29 |

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|----|--|-----|-----------|
| 55 | Development and characterization of a highly sensitive fluorometric transducer for ultra low aqueous ammonia nitrogen measurements in aquaculture. <i>Computers and Electronics in Agriculture</i> , 2018, 150, 364-373. | 3.7 | 29 |
| 56 | Integrated navigation for autonomous underwater vehicles in aquaculture: A review. <i>Information Processing in Agriculture</i> , 2020, 7, 139-151. | 2.9 | 28 |
| 57 | Underwater sea cucumber identification based on Principal Component Analysis and Support Vector Machine. <i>Measurement: Journal of the International Measurement Confederation</i> , 2019, 133, 444-455. | 2.5 | 27 |
| 58 | An automatic counting system for transparent pelagic fish eggs based on computer vision. <i>Aquacultural Engineering</i> , 2015, 67, 8-13. | 1.4 | 26 |
| 59 | Highly sensitive and selective method for detection of trace amounts of nitrite in aquaculture water by SERRS coupled with diazo reaction. <i>Sensors and Actuators B: Chemical</i> , 2019, 297, 126757. | 4.0 | 26 |
| 60 | A fast segmentation method for high-resolution color images of foreign fibers in cotton. <i>Computers and Electronics in Agriculture</i> , 2011, 78, 71-79. | 3.7 | 24 |
| 61 | Fault diagnosis method for water quality monitoring and control equipment in aquaculture based on multiple SVM combined with D-S evidence theory. <i>Computers and Electronics in Agriculture</i> , 2017, 141, 96-108. | 3.7 | 22 |
| 62 | An Efficient and Effective Automatic Recognition System for Online Recognition of Foreign Fibers in Cotton. <i>IEEE Access</i> , 2016, 4, 8465-8475. | 2.6 | 20 |
| 63 | Multi-scale enhancement fusion for underwater sea cucumber images based on human visual system modelling. <i>Computers and Electronics in Agriculture</i> , 2020, 175, 105608. | 3.7 | 19 |
| 64 | Prediction of water temperature in prawn cultures based on a mechanism model optimized by an improved artificial bee colony. <i>Computers and Electronics in Agriculture</i> , 2017, 140, 397-408. | 3.7 | 18 |
| 65 | Automatic Recognition of Fish Behavior with a Fusion of RGB and Optical Flow Data Based on Deep Learning. <i>Animals</i> , 2021, 11, 2774. | 1.0 | 18 |
| 66 | A hybrid intelligent method for three-dimensional short-term prediction of dissolved oxygen content in aquaculture. <i>PLoS ONE</i> , 2018, 13, e0192456. | 1.1 | 17 |
| 67 | Application of an adaptive PID controller enhanced by a differential evolution algorithm for precise control of dissolved oxygen in recirculating aquaculture systems. <i>Biosystems Engineering</i> , 2021, 208, 186-198. | 1.9 | 17 |
| 68 | NIR Hyperspectral Imaging Technology Combined with Multivariate Methods to Identify Shrimp Freshness. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 5498. | 1.3 | 16 |
| 69 | Modelling and controlling dissolved oxygen in recirculating aquaculture systems based on mechanism analysis and an adaptive PID controller. <i>Computers and Electronics in Agriculture</i> , 2022, 192, 106583. | 3.7 | 16 |
| 70 | MW-MTM: A mobile wireless monitoring and traceability management system for water-free live transport of aquatic products. <i>Journal of Food Process Engineering</i> , 2017, 40, e12495. | 1.5 | 15 |
| 71 | An Intelligent Optical Dissolved Oxygen Measurement Method Based on a Fluorescent Quenching Mechanism. <i>Sensors</i> , 2015, 15, 30913-30926. | 2.1 | 14 |
| 72 | An H ₂ S Sensor Based on Electrochemistry for Chicken Coops. <i>Sensors</i> , 2016, 16, 1398. | 2.1 | 14 |

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|----|---|-----|-----------|
| 73 | Recent advances of machine vision technology in fish classification. ICES Journal of Marine Science, 2022, 79, 263-284. | 1.2 | 14 |
| 74 | An Electrochemical Enzyme Biosensor for Ammonium Detection in Aquaculture Using Screen-Printed Electrode Modified by Gold Nanoparticle/Polymethylene Blue. Biosensors, 2021, 11, 335. | 2.3 | 13 |
| 75 | Vegetation index analysis of multi-source remote sensing data in coal mine wasteland. New Zealand Journal of Agricultural Research, 2007, 50, 1243-1248. | 0.9 | 11 |
| 76 | Information fusion in aquaculture: a state-of-the art review. Frontiers of Agricultural Science and Engineering, 2016, 3, 206. | 0.9 | 11 |
| 77 | Correlation Between Herbaceous Species and Environmental Variables at the Abandoned Haizhou Coal Mining Site. Environmental Forensics, 2010, 11, 146-153. | 1.3 | 10 |
| 78 | Saliency-based color image segmentation in foreign fiber detection. Mathematical and Computer Modelling, 2013, 58, 852-858. | 2.0 | 10 |
| 79 | An On-Line Oxygen Forecasting System for Waterless Live Transportation of Flatfish Based on Feature Clustering. Applied Sciences (Switzerland), 2017, 7, 957. | 1.3 | 10 |
| 80 | Automatic segmentation method for live fish eggs microscopic image analysis. Aquacultural Engineering, 2019, 85, 49-55. | 1.4 | 10 |
| 81 | A hybrid intelligent soft computing method for ammonia nitrogen prediction in aquaculture. Information Processing in Agriculture, 2021, 8, 64-74. | 2.9 | 10 |
| 82 | Evaluation of learner adoption intention of e-learning in China: A methodology based on perceived innovative attributes. New Zealand Journal of Agricultural Research, 2007, 50, 609-615. | 0.9 | 9 |
| 83 | Underwater sea cucumber identification via deep residual networks. Information Processing in Agriculture, 2019, 6, 307-315. | 2.9 | 9 |
| 84 | Recent Development and Challenges in Spectroscopy and Machine Vision Technologies for Crop Nitrogen Diagnosis: A Review. Remote Sensing, 2020, 12, 2578. | 1.8 | 9 |
| 85 | One-Step Electrodeposition Synthesized Aunps/Mxene/ERGO for Selectivity Nitrite Sensing. Nanomaterials, 2021, 11, 1892. | 1.9 | 9 |
| 86 | Dissolved Oxygen Prediction in Apostichopus Japonicus Aquaculture Ponds by BP Neural Network and AR Model. Sensor Letters, 2010, 8, 95-101. | 0.4 | 9 |
| 87 | A novel method of fish tail fin removal for mass estimation using computer vision. Computers and Electronics in Agriculture, 2022, 193, 106601. | 3.7 | 8 |
| 88 | A decision support system for evaluation of the ecological benefits of rehabilitation of coal mine waste areas. New Zealand Journal of Agricultural Research, 2007, 50, 1205-1211. | 0.9 | 7 |
| 89 | A Fish Disease Diagnosis Expert System Using Short Message Service. , 2009, , . | | 7 |
| 90 | Adaptive filtering-based soft sensor method for estimating total nitrogen in aquaponic systems. Computers and Electronics in Agriculture, 2021, 186, 106175. | 3.7 | 7 |

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|-----|--|-----|-----------|
| 91 | A Novel Highly Sensitive Electrochemical Nitrite Sensor Based on a AuNPs/CS/Ti3C2 Nanocomposite. <i>Nanomaterials</i> , 2022, 12, 397. | 1.9 | 7 |
| 92 | Formation control of multiple underwater robots based on ADMM distributed model predictive control. <i>Ocean Engineering</i> , 2022, 257, 111585. | 1.9 | 7 |
| 93 | Assessment of ambient air quality in coal mine waste areas – a case study in Fuxin, China. <i>New Zealand Journal of Agricultural Research</i> , 2007, 50, 1187-1194. | 0.9 | 6 |
| 94 | A web-based GIS based support system for rural land consolidation in China. <i>New Zealand Journal of Agricultural Research</i> , 2007, 50, 1195-1203. | 0.9 | 6 |
| 95 | Automatic video tracking of Chinese mitten crabs based on the particle filter algorithm using a biologically constrained probe and resampling. <i>Computers and Electronics in Agriculture</i> , 2014, 106, 111-119. | 3.7 | 6 |
| 96 | A High-Performance Optoelectronic Sensor Device for Nitrate Nitrogen in Recirculating Aquaculture Systems. <i>Sensors</i> , 2018, 18, 3382. | 2.1 | 6 |
| 97 | Development of a Smart Dissolved Oxygen Sensor Based on IEEE1451.2. <i>Sensor Letters</i> , 2011, 9, 1049-1054. | 0.4 | 6 |
| 98 | Automatic tracking of swimming koi using a particle filter with a center-surrounding cue. <i>Mathematical and Computer Modelling</i> , 2013, 58, 859-867. | 2.0 | 5 |
| 99 | Fast processing of foreign fiber images by image blocking. <i>Information Processing in Agriculture</i> , 2014, 1, 2-13. | 2.9 | 5 |
| 100 | Image segmentation incorporating double-mask via graph cuts. <i>Computers and Electrical Engineering</i> , 2016, 54, 246-254. | 3.0 | 5 |
| 101 | A Review of Measurement Methods of Dissolved Oxygen in Water. <i>International Federation for Information Processing</i> , 2012, , 569-576. | 0.4 | 5 |
| 102 | A hybrid approach for efficient detection of plastic mulching films in cotton. <i>Mathematical and Computer Modelling</i> , 2013, 58, 834-841. | 2.0 | 4 |
| 103 | A novel coupling control with decision-maker and PID controller for minimizing heating energy consumption and ensuring indoor environmental quality. <i>Journal of Building Physics</i> , 2019, 43, 22-45. | 1.2 | 4 |
| 104 | Surface-enhanced Raman spectroscopy with partial least squares regression for rapid and accurate detection of malachite green in aquaculture water using large-size gold nanoparticles. <i>Spectroscopy Letters</i> , 2020, 53, 63-75. | 0.5 | 4 |
| 105 | An “on-off” fluorescent probe based on cucurbit[7]uril for highly sensitive determination of ammonia nitrogen in aquaculture water. <i>Analytical Methods</i> , 2021, 13, 4090-4098. | 1.3 | 4 |
| 106 | An Automated Visual Inspection System for Foreign Fiber Detection in Lint. , 2009, , . | | 3 |
| 107 | A case study of EM38 for characterizing topsoil thickness in a reclaimed field. <i>Journal of the Chinese Institute of Engineers, Transactions of the Chinese Institute of Engineers, Series A/Chung-kuo Kung Ch'eng Hsueh K'an</i> , 2011, 34, 843-847. | 0.6 | 3 |
| 108 | Meta-analysis in the production chain of aquaculture: A review. <i>Information Processing in Agriculture</i> , 2021, , . | 2.9 | 3 |

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|-----|---|-----|-----------|
| 109 | A Fast Processing Method of Foreign Fiber Images Based on HSV Color Space. IFIP Advances in Information and Communication Technology, 2013, , 390-397. | 0.5 | 3 |
| 110 | An Intelligent Ammonia Sensor Based on Multi-Parameter for Aquaculture. Sensor Letters, 2013, 11, 1022-1029. | 0.4 | 3 |
| 111 | Fish as a source of acoustic signal measurement in an aquaculture tank: Acoustic sensor based time frequency analysis. International Journal of Agricultural and Biological Engineering, 2019, 12, 110-117. | 0.3 | 3 |
| 112 | Mechanistic model based optimization of feeding practices in aquaculture. Aquacultural Engineering, 2022, 97, 102245. | 1.4 | 3 |
| 113 | Analysing levels of China's agricultural domestic support with an optimising model. New Zealand Journal of Agricultural Research, 2007, 50, 647-654. | 0.9 | 2 |
| 114 | CDMA-Based Remote Wireless Water Quality Monitoring System for Intensive Fish Culture. , 2009, , . | | 2 |
| 115 | Water temperature prediction in sea cucumber aquaculture ponds by RBF neural network model. , 2012, , . | | 2 |
| 116 | Automatic Monitoring of Relevant Behaviors for Crustacean Production in Aquaculture: A Review. Animals, 2021, 11, 2709. | 1.0 | 2 |
| 117 | Color Image Segmentation in RGB Color Space Based on Color Saliency. IFIP Advances in Information and Communication Technology, 2014, , 348-357. | 0.5 | 2 |
| 118 | YOLO-VOLO-LS: A Novel Method for Variety Identification of Early Lettuce Seedlings. Frontiers in Plant Science, 2022, 13, 806878. | 1.7 | 2 |
| 119 | An Integrated Indicator System for Minesite Rehabilitation and Sustainable Development. , 2009, , . | | 1 |
| 120 | Investigating Image Enhancement in Pseudo-Foreign Fiber Detection. International Federation for Information Processing, 2012, , 399-409. | 0.4 | 1 |
| 121 | Experimental Validation of a Low-Energy-Consumption Heating Model for Recirculating Aquaponic Systems. Energies, 2020, 13, 1958. | 1.6 | 1 |
| 122 | Development of an Optical Dissolved Oxygen Sensor for Aquaculture Based on Direct Measurement of Fluorescence Lifetime. Sensor Letters, 2014, 12, 581-586. | 0.4 | 1 |
| 123 | Comparative Study on Metaheuristic-Based Feature Selection for Cotton Foreign Fibers Recognition. IFIP Advances in Information and Communication Technology, 2016, , 8-18. | 0.5 | 1 |
| 124 | A WordNet-driven approach to vegetable supply chain domain concepts acquisition. New Zealand Journal of Agricultural Research, 2007, 50, 869-877. | 0.9 | 0 |
| 125 | Image Segmentation of Pseudo-foreign Fibers in Cotton on the Basis of Improved Genetic Algorithm. International Federation for Information Processing, 2012, , 538-548. | 0.4 | 0 |
| 126 | Design and Instrumentation of Portable Monitoring System for Acoustic Measurement Based on Aquatic Density. , 2017, , . | | 0 |