

INFRARED TECHNOLOGY

INDEX TO VOLUME 35 (2013)

| Subject Matter | Author | No. | Page |
|---|---|-----|------|
| ▲SURVEY & REVIEW▲ | | | |
| Choice and Development of the Third-Generation Infrared Detectors | SHI Yan-li | 1 | 1 |
| A Review of the Development of Low-light Night Vision Technology | GUO Hui, XIANG Shi-ming, TIAN Min-qiang | 2 | 63 |
| Low-light-level CMOS Image Sensor Technique | YAO Li-bin | 3 | 125 |
| Development of Dynamic Infrared Scene Projection Technique | FAN Yong-jie, JIN Wei-qi, ZHU Li-hong | 3 | 133 |
| Review of THz Focal Plane Detector and the Development of Its Imaging Technology | JIN Wei-qi, TIAN Li, WANG Hong-chen, et al. | 4 | 187 |
| Toward Digitization in Infrared Focal Plane Array | WANG Yi-feng, LU Jian-ming | 4 | 195 |
| Fundamentals of p-on-n HgCdTe Infrared Detectors and Their Detectivity Calculations | ZENG Ge-hong | 5 | 249 |
| The Status and Development Trend of Infrared Image Processing Technology | CHEN Qian | 6 | 311 |
| Multi-band Antireflection Coatings for Television, Laser and Infrared Applications | XIE Qi-ming, PAN Shun-chen | 7 | 383 |
| Research on THz Imaging System and Related Technologies | WANG Hua-ze, WU Han-ping, LV Zhao-shun, et al. | 7 | 391 |
| Theory and Control Technology of Large Area MCP-PMT K ₂ CsSb Photocathode | CHANG Ben-kang | 8 | 455 |
| New Development of Low Light Level Imaging Sensor Technology | TIAN Jin-sheng | 9 | 527 |
| Cold Optics Technology to Achieve High-accuracy Infrared Detection | YIN Li-mei, LIU Ying-qi, LI Hong-wen | 9 | 535 |
| Progress of Infrared Light-Visible Light Converter Integrated Semiconducting Quantum Dots with OLED | YANG Yu, JIN Ying-xia, WANG Deng-ke, et al. | 10 | 599 |
| Nine Issues Associated with Infrared Imaging Technology | CAI Yi, WANG Ling-xue | 11 | 671 |
| Developments of Polarization Imaging Technology | ZHAO Jin-song | 12 | 743 |
| Development of Microscan Techniques in Infrared Focal Plane Array | WANG Yi-feng, HOU Hui, FENG Xue-yan | 12 | 751 |
| ▲MATERIALS & DEVICES▲ | | | |
| Parameter Extraction of Extrinsic Capacitance of MOSFET at 77 K Cryogenic Temperature | HU Yan-bo, LI Yu, BAI Pi-ji, LI Min, et al. | 1 | 9 |
| Preparation and Infrared Radiation Properties of Ca _{1-x} A _x MnO ₃ (A=La, Bi) | GUAN Hao, CHENG Jun-hua, JIAO Bao-xiang, et al. | 1 | 16 |
| Research on Preparation and Extinction Characteristic of Graphene-based Infrared Absorbing Nano-composites | WU Hui, MA Yong-jun, ZHU Dong-sheng, et al. | 4 | 242 |
| Visible-near Infrared Spectral Transmittance Properties for CdS Films | ZHANG Chuan-jun, CONG Jia-ming, WU Yan-hua, et al. | 5 | 259 |
| Calculation of the Exposure Sequence of Microscan Uncooled Infrared Focal Plane Array | HAO Dong-liang, YU Wei-xing, WANG Tai-sheng, et al. | 5 | 265 |
| Infrared Transparent Conductive Films Based on CuAl _x O _y | TAO Fei, SUN Wei-guo, ZHANG Liang, et al. | 5 | 270 |
| The Study of 288×4 TDI IRFPA's Photosensitive Pixel Size and Pitch | PAN Sheng-da, ZHAO Ming, LIN Chang-qing | 6 | 355 |
| Study on Uncooled Infrared Detection Technology Based on Helical Liquid Crystal | HAN Xiong, CAI CHANG-long | 6 | 360 |
| The Relations between Hall Voltage and Carrier Concentration of Two Kinds of Carrier Conduction System for HgCdTe | PENG Man-ze, LI Dong-sheng, LI Qiu-yan, et al. | 6 | 364 |

| | | | |
|---|--|----|-----|
| Study on Fabrication of Pyroelectric Detector PZT Wafer | HUANG Jiang-ping, WANG Yu, YUAN Jun, et al. | 6 | 368 |
| Reference Source for Non-uniformity Correction of the Infrared Focal Plane Arrays | JIN Ming-lei, JIN Wei-qi, LIU Chong-liang, et al. | 7 | 383 |
| Effects of Chip Location for Radiant Intensity Profiles of IREDs | WENG Jian-hua | 7 | 389 |
| Study on Electromagnetic Shielding of Infrared /Visible Optical Window | CHEN Yu | 7 | 393 |
| Study on the Quantum Well Infrared Photodetector Material | ZHOU Xu-chang , TAN Ying , YANG Chun-zhang, et al. | 8 | 463 |
| Back-thining on Reliability Influence for MW 320×256 MCT IRFPA | TIAN Li-ping, ZHU Ying-feng, LIU Xiang-yun, et al. | 10 | 629 |
| The Simulation and Verification of Spectral Response Characteristics for the Solar-blind AlGaIn Ultraviolet Photodiodes | SHEN Zhi-hui, LUO Mu-chang, ZHOU Xun, et al. | 11 | 683 |
| Study of Thermosphere Target on the Cruise Phase Detection Using Space-based Terahertz detecting Technology | ZHENG Xin-bo, XU Shi-xue, MA Chao | 11 | 687 |
| Research on Domestic 640×512 Uncooled VO _x Infrared Focal Plane Array | LEI Shu-yu, FANG Hui, LIU Jun, et al. | 12 | 759 |
| Quality Control of the PZT Wafer Bonding in Pyroelectric Infrared Detector | HUANG Jiang-ping, FENG Jiang-min, WANG Yu, et al. | 12 | 764 |
| ▲SYSTEMS & DESIGNS▲ | | | |
| An Analysis on the Influence of Radiance Attenuation from a Semi-transparent Slab | XU Hang, MENG Wei-hua, ZHOU Heng, et al. | 1 | 47 |
| Study on IR/Visible Image Registration for Lens Assembly | SUN Ai-ping, PI Dong-ming, AN Chang-liang, et al. | 1 | 50 |
| Study on Ice-water Mixed Cloud Radiation Properties | YAN Zhao-jun, HAN Fang-fang, YI Fan, et al. | 1 | 56 |
| A Real-Time Transmission System of Splicing Long Linear Dual-Band IR Image | WANG Yu, TANG Xin-Yi, LIU Peng, et al. | 2 | 69 |
| Design of Scanning Imaging System Based on 512×8 MW TDI IRFPA | PAN Sheng-da, LIN Chang-qing | 2 | 74 |
| Imaging Circuit Design of 4×128 Two-color Linear Array Infrared Detector | QIN Jin-ming, CHEN Bao-guo, LI Li-juan, et al. | 2 | 78 |
| The Design Approach of Hadamard Encoding Mask Based on MOMES | XU Jun, LIU Qiang, XIE Cheng-wang | 2 | 83 |
| A Multi-channel CCD Data Processing and Transmission System based on FPGA | CHEN Ming-jie, GU Guo-hua, CHEN Qian, et al. | 3 | 161 |
| Active Thermal Control Design for Small Size Space CMOS Camera | QIAN Jing, DONG De-ping, RAO Peng, et al. | 3 | 166 |
| Infrared Imaging System Design Based on Digital TDI Technology | XIE Bao-rong, FENG Shu-yi, FANG Cai-ting, et al. | 4 | 207 |
| Thermal Design of One Kind of Infrared Imaging System Using ICEPAK Software | ZHU Cheng-xi, SHI Jia-ming | 4 | 211 |
| Design of Off-axial TMA Infrared Optical System for Space Camera | LIANG Bao-wen, WU Han-ping, WANG Hua-ze | 4 | 217 |
| Optical Design of 8 Mega-pixel Hybrid Diffractive-refractive Mobile Phone Lens | HUI Bin, LIU Yan-Jie, LI Jing-Zhen, et al. | 4 | 223 |
| The Engineering Arithmetic of the Reflected Infrared Radiation Characteristic for Air-target | FAN Hong-jie, LIU Lian-wei, XU Zhen-ling, et al. | 5 | 289 |
| Information Acquisition System for Thermal Infrared Focal Plane Array with High Frame-rate and Low-noise | CHENG Gao-chao, CHEN Xiao-wen, WANG Xiang-bo, et al. | 7 | 414 |
| Optical Design of a Dual-channel Imaging Spectrometer Sharing the Off-axis TMA System | YAO Bo, YUAN Li-yin, QI Hong-xing, et al. | 7 | 419 |
| Experimental Study on the Relationship between Attenuation Coefficient of Blue-green Laser Transmission and the Water Turbidity | DING Kun, HUANG You-wei, JIN Wei-qi, et al. | 8 | 467 |
| Thermal Properties Analysis of Primary Mirror in Differential Optical Absorption Spectrometer for Atmospheric Trace Gases Monitoring on Satellite | XU Ming-ming, ZENG Yi, LIU Wen-qing, et al. | 8 | 472 |
| Design of 20× Long Wavelength Infrared Zoom Optical System | DU Yu-nan, MU Da, LIU Ying-ying, et al. | 10 | 607 |

| | | | |
|---|---|----|-----|
| Application of Active-athermal Compensation to Uncooled IR Imaging Sensor System | SHU Hui-qin, DOU Jian-yun, CAO Lin, et al. | 10 | 612 |
| Athermal Design of a Large-aperture, Wide-field Assisting Pilot Infrared Lens | SUN Ai-ping, GONG Yang-yun, CHEN Zhong, et al. | 10 | 617 |
| Numerical Simulation of Two-dimensional Ejector Nozzle with Short Shroud | LIU Fu-cheng, JI Hong-hu, SI Ren, et al. | 10 | 623 |
| Optical System Design of Low-light-level and Infrared Image Fusion Hand-held Viewer | SUN Ai-ping, GONG Yang-yun, ZHU You-pan, et al. | 11 | 712 |
| Design and Application of EMCCD Camera for Full-time Star Sensor | HE Jia-wei, HE Xin, WEI Zhong-hui, et al. | 11 | 718 |
| Research on Attenuation Coefficient of 1.54 μm Laser | ZHAO Shao-qing, ZHANG Chu | 11 | 723 |
| Warning Capability Analysis of Floating Infrared Detection System to High-Speed Vehicle | LIU Xu, LI Wei-min, BIE Xiao-feng | 12 | 788 |
| Research on the High Linearity and Large Swing Angle Scanner Technique | CHEN Jie, ZHU Jiang, PU En-chang, et al. | 12 | 793 |
| Dynamics Modeling and Wind Load Function Analysis of the Secondary Mirror Support | AN Qi-Chang, ZHANG Jing-Xu, ZHANG Li-Min | 12 | 798 |
| Analysis of Curvature Radius Departure in Active Optics with Segmented Mirror | MING Ming | 12 | 803 |
| Thermal Imaging Common System Technology | ZHANG Zhi-fu, ZHANG Hong-yu, YE Chao | 12 | 808 |
| ▲IMAGE PROCESSING AND SIMULATION▲ | | | |
| Improvement and Implementation of Background Updating Algorithm Based on TMS320C6678 | CHEN Hai-xin, GU Guo-hua, QIAN Wei-xian, et al. | 1 | 21 |
| A Fast Sub-pixel Image Registration Algorithm | LU Kai, LI Cheng-jin, ZHAO Xun-jie, et al. | 1 | 27 |
| Design and Realization of Ground Objects Infrared Scene Simulator | YU Hui-juan, LI Lan, LIU Xiang-xin, et al. | 1 | 31 |
| Infrared Image Contour Extraction Based on the Gene Expression Coding Algorithm | GUO Shui-wang, WANG Bao-hong, JI Gang, et al. | 1 | 38 |
| Sea-sky-line Detection Algorithm Based on Texture Analysis | WANG Bing-xue, YONG Yang, HUO Yi-hua, et al. | 1 | 42 |
| Survey of Image Complexity Metrics for Infrared Target Recognition | QIAO Li-yong, XU Li-xin, GAO Min | 2 | 88 |
| Optical Performance Analysis of Infrared Scene Simulation System Based on Digital Micro-mirror Device | HE Yong-qiang, TANG De-shuai, HU Wen-gang, et al. | 2 | 97 |
| An Adaptive Piecewise Linear Enhance Algorithm for Infrared Image Based on FPGA | LU Jian-fang, WANG Xin-sai, XIAO Zhi-yang, et al. | 2 | 102 |
| Infrared Simulation of Bridge by ANSYS | ZHOU Fang-fang, SI Bin, WANG Hui, Z et al. | 2 | 107 |
| Real-time Blind-pixel Detection and Compensation Technology based on Two-point Parameter and Self-adaptive Window | ZHANG Qiao-zhou, GU Guo-hua, CHEN Qian, et al. | 3 | 139 |
| A FCM Segmentation Method of Measurement of Image Based on Adaptive Coefficient of Fuzzy Weight | LI Xiao-bing | 3 | 146 |
| Satellite Image Clustering Research Based on Improved FCM Algorithm | LI Xiu-xin, WANG Jing-dong, XU Ye-ye, et al. | 3 | 150 |
| Image Compression Algorithm based on Wavelet Transform and Visual Sensitivity Characteristics | WAN Zhi-ping | 3 | 155 |
| The Study on Fusion Method of Dual-color MWIR Images Based on Adaptive Sliding Window | ZHOU Xiao, YANG Feng-bao, LIN Su-zhen, et al. | 4 | 227 |
| Improved Algorithm of Neural Network Used in IR Image Non-uniformity Correction | ZHANG Hong-hui, LUO Hai-bo, YU Xin-rong, et al. | 4 | 232 |
| Three-dimensional Image Denoising Algorithm Based on Non-local | WANG Min, WANG Hong-jian, SUN | 4 | 238 |

| | | | |
|---|--|----|-----|
| Means | Guang-ying, et al. | | |
| Research on Super-resolution Reconstruction of Sub-pixel Images | YING Li-li, AN Bo-wen, XUE Bing-bin | 5 | 274 |
| A Method for Infrared Small Target Detection with High-pass Filter and Image Enhancement Technology | HOU Jie, XIN Yun-hong | 5 | 279 |
| The Research on Real-time Pseudo-color of Infrared Image in FPGA Based on Gray Delaminating | LU Jian-fang, WANG Xin-sai, XIAO Zhi-yang, et al. | 5 | 285 |
| Non-uniformity Correction Based on Local Histogram Specification | TAN Dong-jie, ZHANG An | 6 | 325 |
| Real Time Infrared Scene Simulation System Based on Database Lookup Table Technology | HU Hai-he, GUO Chang-geng, HU Hai-yan | 6 | 329 |
| Research on the Algorithm of Dim and Small Targets Detection on the Ground | ZHOU Xia, CHEN Qian, QIAN Wei-xian, et al. | 6 | 334 |
| A RX Anomaly Detection Algorithm for Hyperspectral Image Based on Decision-level Fusion Method | XU Yu-ming, YU Ping, GUO Bao-feng, et al. | 6 | 339 |
| Resistor Array Nonuniformity Measurement and Correction | YANG Chun-wei, LIAO Shou-yi, SU De-lun, et al. | 6 | 345 |
| Infrared Object Matching Tracking Algorithm Based on Improved Mutual Information | YANG Yue, LIU Xing-miao, GUO Qi-wang, et al. | 6 | 350 |
| Design of Pseudo-color Coding and Display for Infrared Digital Images | FAN Xiao-qing, GU Guo-hua, LIU Ning, et al. | 7 | 398 |
| Design Research of High-speed Infrared Video Processing System | WANG Hou, GU Guo-hua, QIAN Wei-xian, et al. | 7 | 404 |
| Analysis on Nonuniformity Residual Fixed Pattern Noise of IRFPA Imaging Device | FAN Hong-jie, XU Zhen-ling, YANG Miao-miao, et al. | 7 | 409 |
| Enhancement Algorithm for High Dynamic Range Infrared ImageBased on Multi-scale Processing | ZHU Dao-guang, SUI Xiu-bao, ZHU Cai-gao, et al. | 8 | 476 |
| Space Dual-band Infrared Imaging Simulation and Target Analysis | HUANG Hao, TAO Hua-min, CHEN Shang-feng | 8 | 482 |
| Monitoring of Volcanic Ash Cloud Based on Thermal Infrared Satellite Remote Sensing | LI Cheng-fan, YIN Jing-yuan, DONG Jiang-shan, et al. | 8 | 487 |
| OTSU Applied in Image Segmentation Based on Small Targets Pre-detection | LI Xu, ZHAO Wen-jie, YANG Kai-da | 8 | 492 |
| The Texture Segmentation of Infrared Image Based on The Theory of Entropy Space and CWT | HU Qing-ping, ZHANG Xiao-hui | 8 | 497 |
| A New Adaptive Filtering Algorithm Based on Salt & Pepper Noise in Infrared Image | ZHANG Cai-tian | 8 | 502 |
| Hardware Implementation of an Image Fusion Method | YANG Feng, ZHANG Jun-ju, XU Hui, et al. | 9 | 541 |
| Region-based Image Fusion Algorithm Using Bidimensional Empirical Mode Decomposition | HAN Bo, ZHANG Peng-hui, XU Hui, et al. | 9 | 546 |
| Infrared Target Recognition Method Based on SURF in Ground Background | ZHU Chang-jun, WANG Min-gang, WANG Chao, et al. | 9 | 551 |
| Infrared Image Registration of Circuit Board Based on ROI Mutual information | LUO Yun-lin, HAO Jian-xin, ZENG Pei-peí | 9 | 555 |
| Comparison of Scene-based IRFPA Nonuniformity Correction Algorithms | ZHANG Xue-feng, CHEN Bao-guo, FAN Yang-yu, et al. | 9 | 560 |
| IR Image Denoising Algorithm Based on Principle of Thermal Imaging | LI Meng, LI Jun-shan, ZHANG Shi-jie, et al. | 9 | 567 |
| Daytime Infrared Star Target Detection Based on Maximum Energy | LIU Shuai, WANG Duo, SUN Teng-fei | 9 | 571 |
| Hardware Implementation of Infrared Image Registration Based on theHarris Corner of KLT Tracking | YANG Chen-chen, GU Guo-hua, QIAN Wei-xian, et al. | 10 | 632 |

| | | | |
|---|--|----|-----|
| Application of Gaussian Quadrics Fitting in the Infrared Point Targets Detection in Sky Background | LI Guo-qiang | 10 | 638 |
| Research on Multi-segment Linear Stretch Algorithm and Its FPGA Implementation | YANG Lei | 10 | 642 |
| Detection of Infrared Dim and Small Target Based on Two-dimensional Normal Cloud Model Algorithm | WANG Hong-tao, LI Dan | 10 | 646 |
| Simulation of Infrared Image Based on Electric Heating Film | CHEN Hong-ye | 10 | 650 |
| Comparison Between Applications of the Moment Matching and the Kalman Filter Methods in Infrared Non-uniformity Correction | ZHU Shan-you, GONG Cai-lan, HU Yong, et al. | 11 | 691 |
| Infrared and Low Light Level Image Fusion Based on Multi-scale Dictionary | XUE Mo-gen, LIU Cun-chao, XU Guo-ming, et al. | 11 | 696 |
| An Object Localization Algorithm Based on ROI for Ship IR Image | MA Xin-xing, SHEN Tong-sheng, XU Jian | 11 | 702 |
| On-site Identification of Zero Resistance Insulator Based on Infrared Thermal Image and One-step Weights-determination of Neural Network | LI Tang-bing, GONG Lei, YAO Jian-gang | 11 | 707 |
| SIFT Key-points Self-adaptive Extraction Algorithm for Video Images | YU Hong-sheng, JIN Wei-qi | 12 | 768 |
| Moving Target Detection Using Fusion of Visual and Thermal Video for Robust Surveillance | ZHANG Sheng, LI Yu-feng, YAN Yun-yang, et al. | 12 | 773 |
| Ship Target Tracking Based on Tracking-Learning-Detecting Tactics | QI Nan-nan, JIE Fei-ran, XIE Xi, et al. | 12 | 780 |
| ▲IR APPLICATIONS▲ | | | |
| Numerical Simulation of Lock-in Thermography for Infrared Nondestructive Testing | CHEN Lin, YANG Li, FAN Chun-li, et al. | 2 | 119 |
| The Characteristic Identification Method Based on Infrared Spectra of Tea | ZHANG Rong-xiang, ZHANG Wei, ZHANG Yan-wei, et al. | 5 | 304 |
| Varying Temperature Effect on FT-IR Spectrum of Stearic Acid Methylene Out-of-plane Wagging Vibration | YU Hong-wei, YUN Hai-li, YAO Qing-guo, et al. | 7 | 448 |
| Quantitative Analysis and Research on Coal Quality Based on Near Infrared Spectrum | ZHANG Lin, LU Hui-shan, YAN Hong-wei, et al. | 8 | 522 |
| The Oil Shale Reactor Temperature Field Numerical Simulation Based on Infrared Thermography | SUO Sheng-yu, WANG A-chuan, CAO Jun | 9 | 591 |
| Tobacco Leaf Selection Method of the Near-infrared Spectroscopy Effective Feature Based on the Cluster | ZHAO Hai-dong, SHEN Jin-yuan, LIU Run-jie, et al. | 10 | 659 |
| Study on Judging Ingot Defects of 21CrMo10 Steel by Infrared Thermal Imager | TANG Wen-dan, SONG Shu-ya, ZHAO Jun-xue, et al. | 10 | 665 |
| The Corn Content Measurement with Near Infrared Diffuse Transmission | LI Jin-hua, YANG Zhi-liang, WANG Zhao-ba, et al. | 11 | 732 |
| Qualitative and Quantitative Detection Research of Mature Vinegar's pH and SSC Based on Near Infrared Spectroscopy | JIANG Xue-song, LU Hui-shan, ZHANG Lin, et al. | 11 | 737 |
| ▲GUIDANCE & COUNTERMEASURE▲ | | | |
| Study on Countermeasure Performance of Anti-infrared Smoke Screen Based on the Meteorological Characteristics at the Boundary of Land and Sea | XIAO Kai-tao, SONG Wei-wei, HE You-jin, et al. | 2 | 113 |
| The Target Recognition Technology for Multi-Element Dual-Band IR Seeker | LI Xue, CHEN Yong, JIA Ming-yong | 6 | 373 |
| Research on Infrared Countermeasure and Hardware-in-the-loop Simulation | CHEN Min, LI Long | 6 | 377 |

| | | | |
|--|--|----|-----|
| Verification Method for Anti-jamming Performance of Infrared Air-to-air Missile | CHEN Xiao-juan | 7 | 425 |
| Numerical Computation and Analysis on the Temperature Field of Antitank Missile Skin | LIU Lian-wei , YANG Miao-miao , FAN Hong-jie, et al. | 7 | 430 |
| Design of Seeker Stabilized Platform Control ParametersBased on Particle Swarm Optimization | HUA Wen-tao, JIA Xiao-hong, DING Hai-shan | 8 | 507 |
| Review on Evaluating Methods of Thermal Infrared Camouflage Performance of Textiles | HAO Li-cai, XIAO Hong, LIU Wei | 8 | 512 |
| The Modeling and Simulation of Air-space Platform Infrared Detection Against Cruise Missile | ZHAO Chen-hao, SU Wei, ZHAO Yong, et al. | 9 | 575 |
| Study on the Design of Low-temperature Infrared Decoy and Its Combustion Properties | LIN Hong-Xue, ZHU Chen-Guang, JIANG Xiao-Nan, et al. | 10 | 654 |
| Research of Infrared Decoy Deception Technology of Land-based Maneuvering Targets | LI Shi-chuan, ZHANG Tong-lai, LI Li-hua, et al. | 11 | 727 |
| ▲LOW-LIGHT LEVEL▲ | | | |
| Study on the Difference between GaAs Cathode and Na ₂ KSb Cathode | LI Xiao-feng, LI Yan-hong, SHI Feng, et al. | 3 | 173 |
| Application of Gating Technique Based on the PLD Devices in Low-light-level Image Intensifier | ZHI Qiang, YAN Bo, YANG Ye, et al. | 3 | 180 |
| Study on Variation of Work Function and Electron Transition of Multi Alkali Cathode during Cs Activation and Cs-Sb Activation | LI Xiao-feng, ZHAO Xue-feng, QU Li-ping, et al. | 4 | 202 |
| Influence of Electron Scrubbing on Flicker Noise of Double-MCP Image Intensifiers | FENG Liu, LIU Hui, ZHANG Lian-dong, et al. | 5 | 295 |
| Study of Image Intensifier Dynamic Range Based on Auto-gating Power Source | YAN Bo, ZHI Qiang, LI Jun-guo, et al. | 5 | 300 |
| Study on Fluorescence of Transparent GaAs Cathode | LI Xiao-feng, SHI Feng, FENG Liu | 6 | 319 |
| Effectiveness Analysis and Characteristic Parameters Characterization of Night Vision System under the Twilight Aids | TAO Yong, WANG Yong, ZHOU Ming-shan | 7 | 443 |
| Study on Rb ₂ Te(Cs) Solar Blind Ultraviolet Cathode | LI Xiao-feng , ZHAO Xue-feng , ZHANG Kun-lin, et al. | 9 | 581 |
| ▲MEASUREMENTS▲ | | | |
| Exploratory Research on the Measurement of Centroid about Lightweight Infrared Imaging Platform | WANG Lei, LIN Yu, ZHANG Ruo-lan | 7 | 434 |
| Measurement and Preliminary Calculation of Typical Object Surface Temperature | GONG Lu, SHEN Guo-tu, CAI Ji-guang, et al. | 7 | 439 |
| An Improved Algorithm Research on VIS-IR Multi-spectral Thermometry | ZHANG Zhi-lin, SUN Wei-min, XING Jian, et al. | 8 | 518 |
| Experimental Study of Infrared Thermal Imagers about Influence of Distance for Temperature Measurement Accuracy and Method of Improving Accuracy | SU Jia-wei, SHI Jun-sheng, WANG Wei-se | 9 | 587 |
| Some Problems for Measurement of the IR Detector's Relative Spectral Response Curve by IR Fourier Spectroscopy | CHENG You-du, LI Li-hua, JI Yu-long, et al. | 12 | 813 |