

Harrison H Barrett

List of Publications by Year in descending order

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153
papers

5,732
citations

125106

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104191

69
g-index

154
all docs

154
docs citations

154
times ranked

2797
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Multimodality, multiscale imaging systems for investigating physiological random processes. , 2022, , . | | 0 |
| 2 | Stochastic models for objects and images in oncology and virology: application to PI3K-Akt-mTOR signaling and COVID-19 disease. Journal of Medical Imaging, 2020, 8, S16001. | 0.8 | 3 |
| 3 | Objective assessment of the effects of tumor motion in radiation therapy. Medical Physics, 2019, 46, 3311-3323. | 1.6 | 3 |
| 4 | Is there a role for image science in the brave new world of artificial intelligence?. Journal of Medical Imaging, 2019, 7, 1. | 0.8 | 5 |
| 5 | Computational Methods for Photon-Counting and Photon- Processing Detectors. , 2018, , . | | 1 |
| 6 | Physiological random processes in precision cancer therapy. PLoS ONE, 2018, 13, e0199823. | 1.1 | 12 |
| 7 | Charged-particle emission tomography. Medical Physics, 2017, 44, 2478-2489. | 1.6 | 12 |
| 8 | Null functions in three-dimensional imaging of alpha and beta particles. Scientific Reports, 2017, 7, 15807. | 1.6 | 8 |
| 9 | Use of characteristic functionals to analyze molecular images in targeted cancer therapy. , 2017, , . | | 0 |
| 10 | Maximum-Likelihood Event Parameter Estimation from Digital Waveform Capture. , 2017, , . | | 0 |
| 11 | System Calibration for FastSPECT III: An Ultra-High Resolution CCD-Based Pinhole SPECT System. , 2017, , . | | 0 |
| 12 | Characteristic functionals in imaging and image-quality assessment: tutorial. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 1464. | 0.8 | 9 |
| 13 | Therapy operating characteristic curves: tools for precision chemotherapy. Journal of Medical Imaging, 2016, 3, 023502. | 0.8 | 5 |
| 14 | Radiance and photon noise: imaging in geometrical optics, physical optics, quantum optics and radiology. Optical Engineering, 2016, 55, 013102. | 0.5 | 5 |
| 15 | Estimation of Fano factor in inorganic scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 805, 72-86. | 0.7 | 9 |
| 16 | Estimation of Fano factor in inorganic scintillators from time correlations. , 2015, , . | | 1 |
| 17 | Singular value decomposition for photon-processing nuclear imaging systems and applications for reconstruction and computing null functions. Physics in Medicine and Biology, 2015, 60, 7359-7385. | 1.6 | 21 |
| 18 | Task-based measures of image quality and their relation to radiation dose and patient risk. Physics in Medicine and Biology, 2015, 60, R1-R75. | 1.6 | 136 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Impact of the Fano Factor on Position and Energy Estimation in Scintillation Detectors. IEEE Transactions on Nuclear Science, 2015, 62, 42-56. | 1.2 | 4 |
| 20 | Comparison of the scanning linear estimator (SLE) and ROI methods for quantitative SPECT imaging. Physics in Medicine and Biology, 2015, 60, 6479-6494. | 1.6 | 5 |
| 21 | Quantifying and reducing uncertainties in cancer therapy. , 2015, 9412, . | | 2 |
| 22 | Fabrication of the pinhole aperture for AdaptiSPECT. Proceedings of SPIE, 2014, 9214, 921408. | 0.8 | 2 |
| 23 | Radiance and photon noise: imaging in geometrical optics, physical optics, quantum optics, and radiology. , 2014, 9193, . | | 8 |
| 24 | The iQID camera: An ionizing-radiation quantum imaging detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 146-152. | 0.7 | 69 |
| 25 | High-Resolution Anamorphic SPECT Imaging. IEEE Transactions on Nuclear Science, 2014, 61, 1126-1135. | 1.2 | 6 |
| 26 | Fisher Information Analysis of Depth-of-Interaction Estimation in Double-Sided Strip Detectors. IEEE Transactions on Nuclear Science, 2014, 61, 1243-1251. | 1.2 | 8 |
| 27 | Comparison of the scanning linear estimator (SLE) and ROI uptake estimation for quantitative ¹¹¹ In-Octreotide SPECT imaging of signals embedded in random backgrounds. , 2014, , . | | 0 |
| 28 | Molecular imaging in the College of Optical Sciences: an overview of two decades of instrumentation development. , 2014, 9186, . | | 3 |
| 29 | Joint reconstruction of activity and attenuation map using LM SPECT emission data. Proceedings of SPIE, 2013, 8668, . | 0.8 | 17 |
| 30 | Multiple-Hit Parameter Estimation in Monolithic Detectors. IEEE Transactions on Medical Imaging, 2013, 32, 329-337. | 5.4 | 6 |
| 31 | Skeletal muscle satellite cell migration to injured tissue measured with ¹¹¹ In-oxine and high-resolution SPECT imaging. Journal of Muscle Research and Cell Motility, 2013, 34, 417-427. | 0.9 | 11 |
| 32 | SmartCAM: an adaptive clinical SPECT camera. , 2013, 8853, . | | 0 |
| 33 | A SPECT imager with synthetic collimation. Proceedings of SPIE, 2013, 8853, . | 0.8 | 2 |
| 34 | Synthetic phase-shifting for optical testing: Point-diffraction interferometry without null optics or phase shifters. Optics Express, 2013, 21, 26398. | 1.7 | 6 |
| 35 | SCOUT: a fast Monte-Carlo modeling tool of scintillation camera output. Physics in Medicine and Biology, 2013, 58, 3581-3598. | 1.6 | 6 |
| 36 | Scanning linear estimation: improvements over region of interest (ROI) methods. Physics in Medicine and Biology, 2013, 58, 1283-1301. | 1.6 | 9 |

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Objective assessment of image quality VI: imaging in radiation therapy. Physics in Medicine and Biology, 2013, 58, 8197-8213. | 1.6 | 12 |
| 38 | The effect of gain variation in micro-channel plates on gamma-ray energy resolution. , 2013, 8853, . | | 3 |
| 39 | Fisher information analysis of depth-of-interaction estimation in double-sided strip detectors. , 2013, , . | | 0 |
| 40 | Image science with photon-processing detectors. , 2013, 2013, . | | 6 |
| 41 | Integration of AdaptiSPECT: a small-animal adaptive SPECT imaging system. Proceedings of SPIE, 2013, 8853, . | 0.8 | 6 |
| 42 | Objective assessment of image quality V Photon-counting detectors and list-mode data. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2012, 29, 1003. | 0.8 | 24 |
| 43 | Maximum-likelihood estimation of parameterized wavefronts from multifocal data. Optics Express, 2012, 20, 15928. | 1.7 | 4 |
| 44 | A prototype detector for a novel high-resolution PET system: BazookaPET. , 2012, 2012, 2123-2127. | | 1 |
| 45 | A System Calibration and Fast Iterative Reconstruction Method for Next-Generation SPECT Imagers. IEEE Transactions on Nuclear Science, 2012, 59, 1990-1996. | 1.2 | 26 |
| 46 | High-resolution anamorphic SPECT imaging. , 2012, , . | | 0 |
| 47 | The AdaptiSPECT imaging aperture. , 2012, 2012, 3564-3567. | | 11 |
| 48 | Progress in BazookaSPECT: high-resolution dynamic scintigraphy with large-area imagers. , 2012, 8508, . | | 13 |
| 49 | 3D printing in X-ray and gamma-ray imaging: A novel method for fabricating high-density imaging apertures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 262-268. | 0.7 | 63 |
| 50 | Mesenchymal Stem Cell-Mediated Delivery of the Sodium Iodide Symporter Supports Radionuclide Imaging and Treatment of Breast Cancer. Stem Cells, 2011, 29, 1149-1157. | 1.4 | 76 |
| 51 | A system calibration and fast iterative reconstruction method for next-generation SPECT imagers. , 2011, 2011, 3548-3553. | | 4 |
| 52 | Multiple-hit parameter estimation in monolithic detectors. , 2011, , 2224-2229. | | 0 |
| 53 | High-resolution, anamorphic, adaptive small-animal SPECT imaging with silicon double-sided strip detectors. , 2011, 8143, . | | 5 |
| 54 | Inverse Optical Design and Its Applications. , 2011, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Kinetic characterization of a novel cationic $^{99m}\text{Tc}(\text{I})$ -tricarbonyl complex, ^{99m}Tc -15C5-PNP, for myocardial perfusion imaging. <i>Journal of Nuclear Cardiology</i> , 2010, 17, 858-867. | 1.4 | 18 |
| 56 | Photoelectron anticorrelations and sub-Poisson statistics in scintillation detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 620, 359-362. | 0.7 | 15 |
| 57 | Maximum-likelihood calibration of an x-ray computed tomography system. , 2010, 2010, 2614-2616. | | 0 |
| 58 | SCOUT: A fast Monte-Carlo modeling tool of scintillation camera output. , 2010, , 1203-1208. | | 7 |
| 59 | Design and validation of an adaptive SPECT system: AdaptiSPECT. , 2010, 2010, 2539-2544. | | 10 |
| 60 | List-mode MLEM image reconstruction from 3D ML position estimates. , 2010, 2010, 2643-2647. | | 7 |
| 61 | Singular-value decomposition of a tomosynthesis system. <i>Optics Express</i> , 2010, 18, 20699. | 1.7 | 4 |
| 62 | Therapy operating characteristic (TOC) curves and their application to the evaluation of segmentation algorithms. <i>Proceedings of SPIE</i> , 2010, 7627, 76270Z. | 0.8 | 11 |
| 63 | Maximum-Likelihood Estimation With a Contracting-Grid Search Algorithm. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1077-1084. | 1.2 | 98 |
| 64 | System integration of FastSPECT III, a dedicated SPECT rodent-brain imager based on BazookaSPECT detector technology. , 2009, Oct. 24 2009-Nov. 1 2009, 4004-4008. | | 28 |
| 65 | Adaptive CT for high-resolution, controlled-dose, region-of-interest imaging. , 2009, 2009, 4154-4157. | | 10 |
| 66 | Singular value decomposition of pinhole SPECT systems. <i>Proceedings of SPIE</i> , 2009, 7263, . | 0.8 | 3 |
| 67 | Progress of BazookaSPECT. <i>Proceedings of SPIE</i> , 2009, 7450, . | 0.8 | 17 |
| 68 | Maximum likelihood event estimation and list-mode image reconstruction on GPU hardware. , 2009, 2009, 4072. | | 13 |
| 69 | Spatio-temporal Hotelling observer for signal detection from image sequences. <i>Optics Express</i> , 2009, 17, 10946. | 1.7 | 10 |
| 70 | Direct Charged-Particle Imaging System Using an Ultra-Thin Phosphor: Physical Characterization and Dynamic Applications. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 2628-2635. | 1.2 | 15 |
| 71 | Maximum-Likelihood Methods for Processing Signals From Gamma-Ray Detectors. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 725-735. | 1.2 | 143 |
| 72 | Calibration Method for ML Estimation of 3D Interaction Position in a Thick Gamma-Ray Detector. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 189-196. | 1.2 | 61 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 73 | Recent advances in BazookaSPECT: Real-time data processing and the development of a gamma-ray microscope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 591, 272-275. | 0.7 | 35 |
| 74 | Adaptive SPECT. IEEE Transactions on Medical Imaging, 2008, 27, 775-788. | 5.4 | 84 |
| 75 | Inverse optical design of the human eye using likelihood methods and wavefront sensing. Optics Express, 2008, 16, 304. | 1.7 | 15 |
| 76 | Estimating random signal parameters from noisy images with nuisance parameters: linear and scanning-linear methods. Optics Express, 2008, 16, 8150. | 1.7 | 41 |
| 77 | A Task-Based Approach to Adaptive and Multimodality Imaging. Proceedings of the IEEE, 2008, 96, 500-511. | 16.4 | 30 |
| 78 | Instrumentation design for adaptive SPECT/CT. , 2008, 2008, 5585-5587. | | 7 |
| 79 | Data-processing strategies for crossed-strip gamma-ray detectors. , 2008, 2008, 4091-4094. | | 4 |
| 80 | New approaches to parameter estimation from noisy image data. , 2008, , . | | 0 |
| 81 | Direct Imaging of Radionuclide-Produced Electrons and Positrons with an Ultrathin Phosphor. Journal of Nuclear Medicine, 2008, 49, 1141-1145. | 2.8 | 20 |
| 82 | Bias in ROI estimators and an unbiased solution. , 2008, , . | | 0 |
| 83 | Adaptive SPECT for tumor necrosis detection. , 2008, 2008, 5548-5551. | | 6 |
| 84 | Evaluating the protective role of ischaemic preconditioning in rat hearts using a stationary small-animal SPECT imager and ^{99m} Tc-glucuronate. Nuclear Medicine Communications, 2008, 29, 120-128. | 0.5 | 7 |
| 85 | A prototype instrument for single pinhole small animal adaptive SPECT imaging. Medical Physics, 2008, 35, 1912-1925. | 1.6 | 47 |
| 86 | Adaptive Hotelling discriminant functions. , 2007, 8, 65150T.1-65150T.7. | | 0 |
| 87 | Evaluation of hardware in a small-animal SPECT system using reconstructed images. , 2007, 6515, 1-10. | | 8 |
| 88 | Hardware assessment using the multi- ϵ -module, multi- ϵ -resolution system : A signal- ϵ -detection study. Medical Physics, 2007, 34, 3034-3044. | 1.6 | 14 |
| 89 | The multi-module, multi-resolution system (M3R): A novel small-animal SPECT system. Medical Physics, 2007, 34, 987-993. | 1.6 | 45 |
| 90 | A prototype instrument for adaptive SPECT imaging. , 2007, 6510, . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 91 | In vivo dynamic imaging of myocardial cell death using ^{99m} Tc-labeled C2A domain of synaptotagmin I in a rat model of ischemia and reperfusion. <i>Nuclear Medicine and Biology</i> , 2007, 34, 907-915. | 0.3 | 21 |
| 92 | Maximum-likelihood methods in wavefront sensing: stochastic models and likelihood functions. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, 391. | 0.8 | 39 |
| 93 | Application of the Hotelling and ideal observers to detection and localization of exoplanets. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, B13. | 0.8 | 19 |
| 94 | Channelized-ideal observer using Laguerre-Gauss channels in detection tasks involving non-Gaussian distributed lumpy backgrounds and a Gaussian signal. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2007, 24, B136. | 0.8 | 49 |
| 95 | Method of calibrating response statistics for ML estimation of 3D interaction position in a thick-detector gamma camera. , 2007, 6, 4359-4363. | | 5 |
| 96 | A Low-Cost Approach to High-Resolution, Single-Photon Imaging Using Columnar Scintillators and Image Intensifiers. , 2006, , . | | 31 |
| 97 | A Probabilistic Model for the MRMC Method, Part 1: Theoretical Development. <i>Academic Radiology</i> , 2006, 13, 1410-1421. | 1.3 | 27 |
| 98 | A Probabilistic Model for the MRMC Method, Part 2: Validation and Applications. <i>Academic Radiology</i> , 2006, 13, 1422-1430. | 1.3 | 9 |
| 99 | Comparing Cardiac Ejection Fraction Estimation Algorithms Without a Gold Standard. <i>Academic Radiology</i> , 2006, 13, 329-337. | 1.3 | 28 |
| 100 | Singular-value decomposition for through-focus imaging systems. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 2440. | 0.8 | 6 |
| 101 | Objective assessment of image quality IV Application to adaptive optics. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2006, 23, 3080. | 0.8 | 44 |
| 102 | Task performance in astronomical adaptive optics. , 2006, 6272, 62721W. | | 2 |
| 103 | SemiSPECT: A small-animal single-photon emission computed tomography (SPECT) imager based on eight cadmium zinc telluride (CZT) detector arrays. <i>Medical Physics</i> , 2006, 33, 465-474. | 1.6 | 107 |
| 104 | Probabilistic foundations of the MRMC method. , 2005, 5749, 21. | | 15 |
| 105 | Calibration of Scintillation Cameras and Pinhole SPECT Imaging Systems. , 2005, , 195-201. | | 31 |
| 106 | Efficiency of the human observer detecting random signals in random backgrounds. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 3. | 0.8 | 62 |
| 107 | Imaging recognition of inhibition of multidrug resistance in human breast cancer xenografts using ^{99m} Tc-labeled sestamibi and tetrofosmin. <i>Nuclear Medicine and Biology</i> , 2005, 32, 573-583. | 0.3 | 19 |
| 108 | Figures of merit for detectors in digital radiography. I. Flat background and deterministic blurring. <i>Medical Physics</i> , 2004, 31, 348-358. | 1.6 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Figures of merit for detectors in digital radiography. II. Finite number of secondaries and structured backgrounds. <i>Medical Physics</i> , 2004, 31, 359-367. | 1.6 | 21 |
| 110 | A new pet system for small-animal imaging. , 2004, 6, 3389-3392. | | 3 |
| 111 | Compact CT/SPECT Small-Animal Imaging System. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 63-67. | 1.2 | 77 |
| 112 | Reply to "Comment on "Figures of merit for detectors in digital radiography" [Med. Phys.31, 2364-2365 (2004)]. <i>Medical Physics</i> , 2004, 31, 2366-2367. | 1.6 | 2 |
| 113 | FastSPECT II: a second-generation high-resolution dynamic SPECT imager. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 631-635. | 1.2 | 200 |
| 114 | Imaging recognition of multidrug resistance in human breast tumors using ^{99m} Tc-labeled monocationic agents and a high-resolution stationary SPECT system. <i>Nuclear Medicine and Biology</i> , 2004, 31, 53-65. | 0.3 | 24 |
| 115 | High-resolution imaging with (^{99m} Tc)-glucarate for assessing myocardial injury in rat heart models exposed to different durations of ischemia with reperfusion. <i>Journal of Nuclear Medicine</i> , 2004, 45, 1251-9. | 2.8 | 20 |
| 116 | Experimental determination of object statistics from noisy images. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 421. | 0.8 | 33 |
| 117 | Ideal-observer computation in medical imaging with use of Markov-chain Monte Carlo techniques. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 430. | 0.8 | 108 |
| 118 | Validating the use of channels to estimate the ideal linear observer. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2003, 20, 1725. | 0.8 | 132 |
| 119 | Evaluating estimation techniques in medical imaging without a gold standard: experimental validation. , 2003, 5034, 230. | | 7 |
| 120 | Optimizing lens-coupled digital radiographic imaging systems based on model observers' performance. , 2003, , . | | 4 |
| 121 | Objective comparison of quantitative imaging modalities without the use of a gold standard. <i>IEEE Transactions on Medical Imaging</i> , 2002, 21, 441-449. | 5.4 | 43 |
| 122 | Estimation in Medical Imaging without a Gold Standard. <i>Academic Radiology</i> , 2002, 9, 290-297. | 1.3 | 49 |
| 123 | SemiSPECT: a small-animal imaging system based on eight CdZnTe pixel detectors. , 2002, 3, 1844-1847. | | 16 |
| 124 | Quantitative analysis of acute myocardial infarct in rat hearts with ischemia-reperfusion using a high-resolution stationary SPECT system. <i>Journal of Nuclear Medicine</i> , 2002, 43, 933-9. | 2.8 | 84 |
| 125 | Human- and model-observer performance in ramp-spectrum noise: effects of regularization and object variability. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2001, 18, 473. | 0.8 | 292 |
| 126 | Megalopiniakophobia: its symptoms and cures. , 2001, , . | | 32 |

| # | ARTICLE | IF | CITATIONS |
|-----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Analytical approximations to the Hotelling trace for digital x-ray detectors. , 2001, , . | | 2 |
| 128 | What does DQE say about lesion detectability in digital radiography?. , 2001, , . | | 10 |
| 129 | Objective Comparison of Quantitative Imaging Modalities Without the Use of a Gold Standard. Lecture Notes in Computer Science, 2001, , 12-23. | 1.0 | 3 |
| 130 | A method for approximating the density of maximum-likelihood and maximum a posteriori estimates under a Gaussian noise model. Medical Image Analysis, 1998, 2, 395-403. | 7.0 | 19 |
| 131 | Objective assessment of image quality III ROC metrics, ideal observers, and likelihood-generating functions. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 1520. | 0.8 | 210 |
| 132 | <title>Stabilized estimates of Hotelling-observer detection performance in patient-structured noise</title>. , 1998, , . | | 68 |
| 133 | <title>Correlated point processes in radiological imaging</title>. , 1997, 3032, 110. | | 24 |
| 134 | List-mode likelihood. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 2914. | 0.8 | 194 |
| 135 | Objective assessment of image quality II Fisher information, Fourier crosstalk, and figures of merit for task performance. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 834. | 0.8 | 211 |
| 136 | <title>Predicting human performance by a channelized Hotelling observer model</title>. , 1992, 1768, 161. | | 103 |
| 137 | Objective assessment of image quality: effects of quantum noise and object variability. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1990, 7, 1266. | 0.8 | 340 |
| 138 | Addition of a channel mechanism to the ideal-observer model. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1987, 4, 2447. | 0.8 | 367 |
| 139 | Tomographic Transformations in Optical Signal Processing. , 1987, , 335-386. | | 5 |
| 140 | Hotelling trace criterion as a figure of merit for the optimization of imaging systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1986, 3, 717. | 0.8 | 61 |
| 141 | Two-Dimensional Radon-Fourier Transformer. Optical Engineering, 1985, 24, 82. | 0.5 | 4 |
| 142 | Image reconstruction from coded data: I Reconstruction algorithms and experimental results. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 491. | 0.8 | 36 |
| 143 | Image reconstruction from coded data: II Code design. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1985, 2, 501. | 0.8 | 28 |
| 144 | Reconstruction of an object from its coded image and object constraints. Applied Optics, 1984, 23, 851. | 2.1 | 9 |

| # | ARTICLE | IF | CITATIONS |
|-----|----------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 145 | III The Radon Transform and Its Applications. Progress in Optics, 1984, 21, 217-286. | 0.4 | 85 |
| 146 | Reconstruction of objects from coded images by simulated annealing. Optics Letters, 1983, 8, 199. | 1.7 | 62 |
| 147 | Radon transform and bandwidth compression. Optics Letters, 1983, 8, 395. | 1.7 | 7 |
| 148 | Attenuated Radon and Abel transforms. Journal of the Optical Society of America, 1983, 73, 1590. | 1.2 | 38 |
| 149 | Optical processing in Radon space. Optics Letters, 1982, 7, 248. | 1.7 | 26 |
| 150 | Dipole-sheet transform. Journal of the Optical Society of America, 1982, 72, 468. | 1.2 | 7 |
| 151 | Three-dimensional reconstruction from planar projections. Journal of the Optical Society of America, 1980, 70, 755. | 1.2 | 59 |
| 152 | Acoustic Properties of Materials of the Perovskite Structure. Physical Acoustics, 1970, 6, 65-108. | 0.1 | 8 |
| 153 | Ultrasonic Attenuation by Interaction with the Soft Optic Mode in KTaO ₃ . Physical Review, 1969, 178, 743-762. | 2.7 | 52 |