

Natan S Kopeika

List of Publications by Year in descending order

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373
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373
times ranked

1183
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of Blur Parameters from Motion Blurred Images. Graphical Models, 1997, 59, 310-320.	1.3	138
2	Direct method for restoration of motion-blurred images. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 1512.	1.5	133
3	Propagation of electromagnetic waves in Kolmogorov and non-Kolmogorov atmospheric turbulence: three-layer altitude model. Applied Optics, 2008, 47, 6385.	2.1	122
4	Restoration of atmospherically blurred images according to weather-predicted atmospheric modulation transfer functions. Optical Engineering, 1997, 36, 3064.	1.0	102
5	Laser satellite communication network-vibration effect and possible solutions. Proceedings of the IEEE, 1997, 85, 1646-1661.	21.3	101
6	Lidar study of aerosol turbulence characteristics in the troposphere: Kolmogorov and non-Kolmogorov turbulence. Atmospheric Research, 2008, 88, 66-77.	4.1	98
7	Background noise in optical communication systems. Proceedings of the IEEE, 1970, 58, 1571-1577.	21.3	92
8	Image resolution limits resulting from mechanical vibrations. Part IV: real-time numerical calculation of optical transfer functions and experimental verification. Optical Engineering, 1994, 33, 566.	1.0	89
9	Forecasting optical turbulence strength on the basis of macroscale meteorology and aerosols: models and validation. Optical Engineering, 1992, 31, 200.	1.0	84
10	Inexpensive detector for terahertz imaging. Applied Optics, 2007, 46, 7207.	2.1	80
11	Atmospheric optical turbulence over land in middle east coastal environments: prediction modeling and measurements. Applied Optics, 2004, 43, 4070.	2.1	71
12	Glow Discharge Detection of Long Wavelength Electromagnetic Radiation: Cascade Ionization Process Internal Signal Gain and Temporal and Spectral Response Properties. IEEE Transactions on Plasma Science, 1978, 6, 139-157.	1.3	69
13	Video detection of millimeter waves with glow discharge tubes: Part I—Physical description; part II—Experimental results. IEEE Transactions on Electron Devices, 1975, 22, 534-548.	3.0	63
14	Image resolution limits resulting from mechanical vibrations. Part III: numerical calculation of modulation transfer function. Optical Engineering, 1992, 31, 581.	1.0	63
15	Behavior of structure function of refraction coefficients in different turbulent fields. Applied Optics, 2004, 43, 6151.	2.1	57
16	Beam width and transmitter power adaptive to tracking system performance for free-space optical communication. Applied Optics, 1997, 36, 6095.	2.1	55
17	On the mechanism of glow discharge detection of microwave and millimeter-wave radiation. Proceedings of the IEEE, 1975, 63, 981-982.	21.3	53
18	Image Resolution Limits Resulting From Mechanical Vibrations. Optical Engineering, 1987, 26, 2665-29.	1.0	51

#	ARTICLE	IF	CITATIONS
19	Imaging through the atmosphere: practical instrumentation-based theory and verification of aerosol modulation transfer function. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1993, 10, 172.	1.5	49
20	Terahertz detection mechanism of inexpensive sensitive glow discharge detectors. <i>Journal of Applied Physics</i> , 2008, 103, 093306.	2.5	49
21	Restoration of an image degraded by vibrations using only a single frame. <i>Optical Engineering</i> , 2000, 39, 2083.	1.0	46
22	Comparison of direct blind deconvolution methods for motion-blurred images. <i>Applied Optics</i> , 1999, 38, 4325.	2.1	44
23	Wavelength variation of visible and near-infrared resolution through the atmosphere: dependence on aerosol and meteorological conditions. <i>Journal of the Optical Society of America</i> , 1981, 71, 892.	1.2	43
24	Performance limitations of free-space optical communication satellite networks due to vibrations—analogue case. <i>Optical Engineering</i> , 1997, 36, 175.	1.0	43
25	Some limitations on optical communication reliability through Kolmogorov and non-Kolmogorov turbulence. <i>Optics Communications</i> , 2010, 283, 1229-1235.	2.1	43
26	Experimental investigation of the influence of the relative position of the scattering layer on image quality: the shower curtain effect. <i>Applied Optics</i> , 1998, 37, 6495.	2.1	42
27	THz Polarization Effects on Detection Responsivity of Glow Discharge Detectors (GDDs). <i>IEEE Sensors Journal</i> , 2009, 9, 1181-1184.	4.7	42
28	Analytical method to calculate optical transfer functions for image motion and vibrations using moments. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 388.	1.5	41
29	Design of inexpensive diffraction limited focal plane arrays for millimeter wavelength and terahertz radiation using glow discharge detector pixels. <i>Journal of Applied Physics</i> , 2008, 104, 033302.	2.5	41
30	Inexpensive THz Focal Plane Array Imaging Using Miniature Neon Indicator Lamps as Detectors. <i>IEEE Sensors Journal</i> , 2011, 11, 1962-1968.	4.7	41
31	Middle East measurements of concentration and size distribution of aerosol particles for coastal zones. <i>Optical Engineering</i> , 2005, 44, 106003.	1.0	40
32	Experimental comparison of turbulence modulation transfer function and aerosol modulation transfer function through the open atmosphere. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 970.	1.5	38
33	Restoration of thermal images distorted by the atmosphere, based on measured and theoretical atmospheric modulation transfer function. <i>Optical Engineering</i> , 1994, 33, 44.	1.0	37
34	Atmospheric turbulence modulation transfer function for infrared target acquisition modeling. <i>Optical Engineering</i> , 2001, 40, 1906.	1.0	37
35	Range gated active night vision system for automobiles. <i>Applied Optics</i> , 2006, 45, 7248.	2.1	37
36	A low-cost millimeter-wave glow-discharge detector. <i>Proceedings of the IEEE</i> , 1972, 60, 759-760.	21.3	36

#	ARTICLE	IF	CITATIONS
37	Subnormal Glow Discharge Detection of Optical and Microwave Radiation. IEEE Transactions on Plasma Science, 1976, 4, 51-61.	1.3	36
38	Abnormal glow discharge detection of visible radiation. Applied Optics, 1976, 15, 1610.	2.1	34
39	Photoionization of excited atoms in dc gas discharges by low-intensity light and its analogy to gas-breakdown with high-intensity lasers. Journal of Applied Physics, 1979, 50, 11-16.	2.5	33
40	Spatial-frequency- and wavelength-dependent effects of aerosols on the atmospheric modulation transfer function. Journal of the Optical Society of America, 1982, 72, 1092.	1.2	33
41	Causes of atmospheric blur: comment on Atmospheric scattering effect on spatial resolution of imaging systems. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 3097.	1.5	33
42	Image resolution limits resulting from mechanical vibrations. Optical Engineering, 1991, 30, 577.	1.0	31
43	Recognition of motion-blurred images by use of the method of moments. Applied Optics, 2002, 41, 2164.	2.1	31
44	Simple Mathematical Models for Temporal, Spatial, Angular, and Attenuation Characteristics of Light Propagating Through the Atmosphere for Space Optical Communication. Journal of Modern Optics, 1994, 41, 1955-1972.	1.3	30
45	Non-Kolmogorov atmospheric turbulence and optical signal propagation. Nonlinear Processes in Geophysics, 2006, 13, 297-301.	1.3	30
46	High-resolution restoration of images distorted by the atmosphere, based on an average atmospheric modulation transfer function. Optical Engineering, 1995, 34, 1799.	1.0	29
47	Improved detection of ultraviolet radiation with gas-filled phototubes through photoionization of excited atoms. Applied Optics, 1977, 16, 2470.	2.1	28
48	Analysis of Optical Pulse Distortion Through Clouds for Satellite to Earth Adaptive Optical Communication. Journal of Modern Optics, 1994, 41, 1591-1605.	1.3	28
49	Adaptive optical transmitter and receiver for space communication through thin clouds. Applied Optics, 1997, 36, 1987.	2.1	26
50	Restoration of images captured by a staggered time delay and integration camera in the presence of mechanical vibrations. Applied Optics, 2004, 43, 4345.	2.1	26
51	Commercial Glow Discharge Tubes As Detectors of X-Band Radiation (Short Papers). IEEE Transactions on Microwave Theory and Techniques, 1975, 23, 843-846.	4.6	25
52	Performance limitations of free-space optical communication satellite networks due to vibrations: direct detection digital mode. Optical Engineering, 1997, 36, 3148.	1.0	25
53	W-Band Chirp Radar Mock-Up Using a Glow Discharge Detector. IEEE Sensors Journal, 2013, 13, 139-145.	4.7	25
54	Deep Learning for Improving Performance of OOK Modulation Over FSO Turbulent Channels. IEEE Access, 2020, 8, 155275-155284.	4.2	25

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55	Aerosol and turbulence modulation transfer functions: comparison measurements in the open atmosphere. <i>Optics Letters</i> , 1992, 17, 1532.	3.3	24
56	Performance limitations of a free-space optical communication satellite network owing to vibrations: heterodyne detection. <i>Applied Optics</i> , 1998, 37, 6366.	2.1	24
57	Lidar studies of aerosols and non-Kolmogorov turbulence in the Mediterranean troposphere. , 2005, , .		24
58	Heterodyne Detection by Miniature Neon Indicator Lamp Glow Discharge Detectors. <i>IEEE Sensors Journal</i> , 2011, 11, 1879-1884.	4.7	24
59	Effect of particulates on performance of optical communication in space and an adaptive method to minimize such effects. <i>Applied Optics</i> , 1994, 33, 4930.	2.1	23
60	Prediction of overall atmospheric modulation transfer function with standard weather parameters: comparison with measurements with two imaging systems. <i>Optical Engineering</i> , 1995, 34, 3239.	1.0	23
61	Heterodyne detection at 300 GHz using neon indicator lamp glow discharge detector. <i>Applied Optics</i> , 2013, 52, 4077.	1.8	23
62	General wavelength dependence of imaging through the atmosphere. <i>Applied Optics</i> , 1981, 20, 1532.	2.1	22
63	Thermal imaging through the atmosphere: atmospheric modulation transfer function theory and verification. <i>Optical Engineering</i> , 1994, 33, 881.	1.0	22
64	Optimum transmitter optics aperture for satellite optical communication. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 1998, 34, 590-596.	4.7	22
65	Prediction of image propagation quality through the atmosphere: the dependence of atmospheric modulation transfer function on weather. <i>Optical Engineering</i> , 1990, 29, 1427.	1.0	21
66	Target acquisition modeling for contrast-limited imaging: effects of atmospheric blur and image restoration. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1995, 12, 2401.	1.5	21
67	Heterodyne detection through rain, snow, and turbid media: effective receiver size at optical through millimeter wavelengths. <i>Applied Optics</i> , 1983, 22, 706.	2.1	20
68	Detection and upconversion of three-dimensional MMW/THz images to the visible. <i>Photonics Research</i> , 2016, 4, 306.	7.0	19
69	Effects of aerosol forward scatter on the long- and short-exposure atmospheric coherence diameter. <i>Waves in Random and Complex Media</i> , 1994, 4, 487-498.	1.5	18
70	Spatial-frequency dependence of scattered background light: The atmospheric modulation transfer function resulting from aerosols. <i>Journal of the Optical Society of America</i> , 1982, 72, 548.	1.2	17
71	<title>Acquisition system for microsattelites laser communication in space</title> . , 2000, , .		17
72	Generalized atmospheric turbulence: implications regarding imaging and communications. <i>Proceedings of SPIE</i> , 2010, , .	0.8	17

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73	Imaging Through The Atmosphere For Airborne Reconnaissance. Optical Engineering, 1987, 26, 1146.	1.0	16
74	Enhanced-resolution image restoration from a sequence of low-frequency vibrated images by use of convex projections. Applied Optics, 2001, 40, 4706.	2.1	16
75	Performance limitation of laser satellite communication due to vibrations and atmospheric turbulence: down-link scenario. International Journal of Satellite Communications and Networking, 2003, 21, 561-573.	1.8	16
76	Performance quantification of a millimeter-wavelength imaging system based on inexpensive glow-discharge-detector focal-plane array. Applied Optics, 2013, 52, C43.	1.8	16
77	Gas discharge response to light: dependence of linearity on space charge for optogalvanic and excited-state photoionization signals. Applied Optics, 1979, 18, 3513.	2.1	15
78	Effects of absorption on image quality through a particulate medium. Applied Optics, 1994, 33, 7107.	2.1	15
79	Imaging through the atmosphere: practical instrumentation-based theory and verification of aerosol modulation transfer function: reply to comment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1995, 12, 1017.	1.5	15
80	Atmospheric modulation transfer function in the infrared. Applied Optics, 2004, 43, 471.	2.1	15
81	The role of excited atoms in UV photopreionization TEA lasers. IEEE Journal of Quantum Electronics, 1977, 13, 968-972.	1.9	14
82	Photo Ionization of Excited Atoms in Gas-Filled Photodiodes: Improved Detectivity with Microsecond-Order Risetime. IEEE Transactions on Plasma Science, 1978, 6, 1-16.	1.3	14
83	Laser-triggered dynamic breakdown of gases and laser-induced prebreakdown signals. IEEE Journal of Quantum Electronics, 1985, 21, 1964-1972.	1.9	14
84	Theoretical and experimental investigation of image quality through an inhomogeneous turbulent medium. Waves in Random and Complex Media, 1994, 4, 177-189.	1.5	14
85	Restoration of images degraded by extreme mechanical vibrations. Optics and Laser Technology, 1997, 29, 171-177.	4.6	14
86	Effects of image restoration on target acquisition. Optical Engineering, 2003, 42, 534.	1.0	14
87	Restoration and resolution enhancement of a single image from a vibration-distorted image sequence. Optical Engineering, 2000, 39, 2451.	1.0	13
88	<title>Acquisition time calculation and influence of vibrations for microsatellite laser communication in space</title>. , 2001, , .		13
89	Effects of attenuation of 1.064- μ m optical waves by humid aerosols and fog over horizontal atmospheric communication links. Optical Engineering, 2004, 43, 539.	1.0	13
90	Applied Aspects of Optical Communication and LIDAR. , 0, , .		13

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91	Low-cost glow discharge tube microwave frequency sensor. Proceedings of the IEEE, 1976, 64, 382-384.	21.3	12
92	Experimental comparison of three target acquisition models. Optical Engineering, 1998, 37, 1902.	1.0	12
93	<title>Vibration noise control in laser satellite communication</title>. , 2001, , .		12
94	<title>Laser beam widening as a function of elevation in the atmosphere for horizontal propagation</title>. , 2001, 4376, 177.		12
95	Image restoration from camera vibration and object motion blur in infrared staggered time-delay and integration systems. Optical Engineering, 2003, 42, 3253.	1.0	12
96	A sensitive ultraviolet radiation detector based on photoionization of excited atoms. Opto-electronics, 1977, 9, 354-356.	1.2	11
97	Wavelength tuning of GaAs LED's through surface effects. IEEE Transactions on Electron Devices, 1983, 30, 334-347.	3.0	11
98	Dynamic nonoptogalvanic signal polarity and magnitude in prebreakdown gas discharges. IEEE Journal of Quantum Electronics, 1985, 21, 1728-1735.	1.9	11
99	Comparison between high-resolution restoration techniques of atmospherically distorted images. Optical Engineering, 1995, 34, 144.	1.0	11
100	<title>Identification of blur parameters from motion-blurred images</title>. , 1996, 2847, 270.		11
101	Adaptive suboptimum detection of an optical pulse-position-modulation signal with a detection matrix and centroid tracking. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1998, 15, 443.	1.5	11
102	Turbulence strength parameter in laboratory and natural optical experiments in non-Kolmogorov cases. Optics Communications, 2004, 242, 333-338.	2.1	11
103	Effects of ionizing radiation on glow discharge detectors. Proceedings of the IEEE, 1976, 64, 369-370.	21.3	10
104	Optogalvanic response to light: photon energy vs photon number. Applied Optics, 1982, 21, 3989.	2.1	10
105	Observation of Cooper minima in excited-s-state photoionization cross sections in neon and argon. Physical Review A, 1983, 28, 1517-1526.	2.5	10
106	Measured profiles of aerosols and turbulence for elevations of 2 to 20 km and consequences of widening of laser beams. , 2001, 4271, 43.		10
107	Terahertz Frequency Modulated Continuous Wave Radar using Glow Discharge Detector. IEEE Sensors Journal, 2016, , 1-1.	4.7	10
108	Spectral characteristics of image quality for imaging horizontally through the atmosphere. Applied Optics, 1977, 16, 2422.	2.1	9

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109	Ultraviolet photoconductive detectors in Zn3P2. Electronics Letters, 1979, 15, 718.	1.0	9
110	Significant photodiode quantum efficiency improvement and spectral response alteration through surface effects in vacuum. IEEE Transactions on Electron Devices, 1984, 31, 1198-1206.	3.0	9
111	Theory of a fast, sensitive, submillimeter wave glow discharge detector. Journal of Infrared, Millimeter and Terahertz Waves, 1984, 5, 1333-1348.	0.6	9
112	Effects Of Aerosols On Imaging Through The Atmosphere: A Review Of Spatial Frequency And Wavelength Dependent Effects. Optical Engineering, 1985, 24, 707.	1.0	9
113	High-resolution restoration of images distorted by the atmosphere, based upon average atmospheric modulation transfer function. , 1994, 2222, 656.		9
114	Target acquisition modeling of forward-motion considerations for airborne reconnaissance over hostile territory. Optical Engineering, 1994, 33, 3106.	1.0	9
115	Incorporation of atmospheric blurring effects in target acquisition modeling of thermal images. Infrared Physics and Technology, 1995, 36, 551-564.	2.9	9
116	Accurate method for prediction of atmospheric transmission according to weather. Optical Engineering, 1996, 35, 2548.	1.0	9
117	General restoration filter for vibrated-image restoration. Applied Optics, 1998, 37, 7596.	2.1	9
118	Landsat TM Satellite Image Restoration Using Kalman Filters. Photogrammetric Engineering and Remote Sensing, 2004, 70, 91-100.	0.6	9
119	Switching and Fast Operation of Glow Discharge Detector for Millimeter Wave Focal Plane Array Imaging Systems. IEEE Sensors Journal, 2015, 15, 6659-6663.	4.7	9
120	Noise spectra of commercial indicator-lamp glow-discharge detectors. International Journal of Electronics, 1975, 39, 209-218.	1.4	8
121	Photoionization of excited atoms by low intensity light: experimental test of the effective cross section. Applied Optics, 1978, 17, 3933.	2.1	8
122	Restoration of thermal images distorted by the atmosphere, using predicted atmospheric modulation transfer function. Infrared Physics and Technology, 1995, 36, 565-576.	2.9	8
123	<title>Optimum transmitter optics aperture for free space satellite optical communication as a function of tracking system performance</title>. , 1996, , .		8
124	Adaptive bandwidth for satellite optical communication. IEE Proceedings: Optoelectronics, 1998, 145, 109-115.	0.8	8
125	LIDAR measurements of atmospheric turbulence vertical profiles. , 2004, , .		8
126	Oversampling advances in millimeter-wave scan imaging using inexpensive neon indicator lamp detectors. Optical Engineering, 2013, 52, 063202.	1.0	8

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127	Calibration Method for MMW Imaging Using Inexpensive Miniature Neon Indicator Lamp Detectors. IEEE Sensors Journal, 2014, 14, 1677-1681.	4.7	8
128	Spectral Dependence of Rise Time in Gas Filled Phototubes: Implications concerning Possible Miniaturization of Gas Discharge Detectors of Electromagnetic Radiation. IEEE Transactions on Plasma Science, 1978, 6, 261-265.	1.3	7
129	Gamma ray irradiated LED's: Surface emission and significant wavelength tuning via surface states. IEEE Journal of Quantum Electronics, 1984, 20, 63-71.	1.9	7
130	Thermal imaging through the atmosphere: atmospheric MTF theory and verification. , 1993, , .		7
131	Automatic target recognition during sensor motion and vibration. Optical Engineering, 1995, 34, 3062.	1.0	7
132	Probing and monitoring aerosol and atmospheric clouds with an electro-optic oscillator. Applied Optics, 1996, 35, 5427.	2.1	7
133	Bandwidth maximization for satellite laser communication. IEEE Transactions on Aerospace and Electronic Systems, 1999, 35, 675-682.	4.7	7
134	Motion-distorted composite-frame restoration. Applied Optics, 1999, 38, 757.	2.1	7
135	Prediction of data stream parameters in atmospheric turbulent wireless communication links. Applied Optics, 2007, 46, 190.	2.1	7
136	Optimizing the design of a silicon photomultiplier-based radiation detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 474-478.	1.6	7
137	Low-cost tuned filters using subnormal glow discharges. International Journal of Electronics, 1976, 40, 481-493.	1.4	6
138	Numerical calculation of image motion and vibration modulation transfer functions: a new method. , 1991, 1533, 61.		6
139	Prediction of overall atmospheric MTF with standard weather parameters: comparison with measurements with two imaging systems. , 1995, , .		6
140	<title>Identification of the blur extent from motion-blurred images</title>. , 1995, 2470, 2.		6
141	Performance limitations of free-space optical communication satellite networks due to vibrations: direct-detection digital mode. , 1997, , .		6
142	Relative effects of distortion and noise on target acquisition: the advisability of image restoration. Optical Engineering, 1998, 37, 1914.	1.0	6
143	<title>Imaging through the atmosphere: an overview</title>. , 1999, 3609, 78.		6
144	Influence of motion sensor error on image restoration from vibrations and motion. Optical Engineering, 2002, 41, 3276.	1.0	6

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145	Modeling and measurements of near-ground atmospheric optical turbulence according to weather for Middle East environments. , 2004, , .		6
146	Laser beam wander in the atmosphere: implications for optical turbulence vertical profile sensing with imaging LIDAR. Journal of Applied Remote Sensing, 2008, 2, 023540.	1.3	6
147	Optical imaging of hidden objects behind clothing. Applied Optics, 2010, 49, 3926.	2.1	6
148	Millimetre-wave holography recording with glow discharge detectors. International Journal of Electronics, 1975, 38, 609-613.	1.4	5
149	Correction to "Video detection of millimeter waves with glow discharge tubes". IEEE Transactions on Electron Devices, 1976, 23, 1113-1113.	3.0	5
150	Very High Sensitivity Heterodyne Detection of X-Band Radiation with Neon Indicator Lamps. IEEE Transactions on Microwave Theory and Techniques, 1978, 26, 38-43.	4.6	5
151	Antenna properties of glow-discharge detectors of microwave radiation. International Journal of Electronics, 1978, 44, 385-396.	1.4	5
152	How Weather Affects Seeing Through The Atmosphere. Optical Engineering, 1986, 25, 253505.	1.0	5
153	<title>Imaging through the atmosphere - Practical instrumentation-based theory and verification of aerosol MTF</title>. , 1992, , .		5
154	Prediction of airborne particle statistics according to weather forecasts: concentration and scattering area. Optical Engineering, 1995, 34, 1208.	1.0	5
155	Evaluation of the blur parameters from motion blurred images. , 0, , .		5
156	<title>Blur in imaging through the atmosphere: a system engineering approach to imaging</title>. , 1998, , .		5
157	Role of the atmosphere in target acquisition: models versus experiment. , 1998, , .		5
158	Motion-blurred image restoration using modified inverse all-pole filters. Journal of Electronic Imaging, 2004, 13, 257.	0.9	5
159	Middle East model of vertical turbulence profile. , 2005, , .		5
160	Registration of motion-distorted interlaced images captured by a scanning vector imaging sensor. Applied Optics, 2006, 45, 5950.	2.1	5
161	Spectral analysis of a one-dimensional scattering medium with the differential multiply subtractive Kramers-Kronig method. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 125.	2.1	5
162	Super resolution and optical properties of THz double row array based on inexpensive Glow Discharge Detector (GDD) pixels. Proceedings of SPIE, 2011, , .	0.8	5

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163	Atomic deexcitation effects of X-rays on gases. IEEE Journal of Quantum Electronics, 1978, 14, 709-711.	1.9	4
164	Spectral tuning and linewidth narrowing of shallow-junction surface emitting GaAs LEDs through β -ray irradiation. IEEE Journal of Quantum Electronics, 1983, 19, 29-33.	1.9	4
165	Prediction Of Image Quality Through The Atmosphere As A Function Of Weather Forecast. , 1989, 1115, 266.		4
166	A near UV envelope detector in the prebreakdown regime based on photoionization of excited gas atoms. Measurement Science and Technology, 1994, 5, 540-547.	2.6	4
167	Incorporating the entire modulation transfer function into an infrared target acquisition model. Infrared Physics and Technology, 1998, 39, 307-314.	2.9	4
168	Optical transfer function analysis of images blurred by nonharmonic vibrations characterized by their power spectrum density. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1999, 16, 2200.	1.5	4
169	Motion-blurred image restoration using modified inverse all-pole filters. , 2002, , .		4
170	Changes in modulation transfer function and optical resolution in helical turbulent media. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 1774.	1.5	4
171	Validity of the Kolmogorov turbulence at higher elevations. , 2004, , .		4
172	<title>Prediction and modeling of line-of-sight bending near ground level for long atmospheric paths</title>. , 2004, , .		4
173	Infrared image denoising by nonlocal means filtering. , 2012, , .		4
174	Effects of aerosol modulation transfer function on target identification. Optical Engineering, 2020, 59, 1.	1.0	4
175	Multiphoton ionization front excited states. IEEE Journal of Quantum Electronics, 1977, 13, 737-739.	1.9	3
176	The Effective Cross Section. IEEE Transactions on Plasma Science, 1978, 6, 314-316.	1.3	3
177	Spectral characteristics of image quality for imaging horizontally through the atmosphere: erratum. Applied Optics, 1978, 17, 1162.	2.1	3
178	IF Conversion Gain of Glow Discharge Lamps X-Band Mixers for High LO Power Levels. IEEE Transactions on Microwave Theory and Techniques, 1979, 27, 227-232.	4.6	3
179	Characteristics of active and passive 2-D holographic scanner imaging systems for the middle infrared. Applied Optics, 1980, 19, 2041.	2.1	3
180	Imaging Through The Atmosphere For Airborne Reconnaissance. , 1987, , .		3

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181	On the relationship of number of students to academic level. IEEE Transactions on Education, 1992, 35, 294-295.	2.4	3
182	Restoration of images degraded by mechanical vibrations. , 0, , .		3
183	Thermal image target acquisition probabilities in the presence of vibrations. Infrared Physics and Technology, 1995, 36, 691-702.	2.9	3
184	Search strategy for optimal infrared target acquisition performance. Infrared Physics and Technology, 1995, 36, 1025-1034.	2.9	3
185	Effects of practical aerosol forward scatter of infrared and visible light on atmospheric coherence diameter. Optical Engineering, 1995, 34, 261.	1.0	3
186	<title>Statistical models for the desert aerosol size distributions and comparison to MODTRAN models</title>. , 1995, , .		3
187	Restoration of atmospherically blurred images using weather-predicted atmospheric modulation transfer function (MFT). , 1996, 2828, 386.		3
188	Medical image restoration of dynamic lungs using optical transfer function of lung motion. Journal of Biomedical Optics, 2001, 6, 193.	2.6	3
189	Criteria for satellite image restoration success. Optical Engineering, 2003, 42, 2607.	1.0	3
190	Atmospheric turbulence at different elevations: consequences on laser beam wander and widening at target. , 2004, , .		3
191	Kolmogorov and non-Kolmogorov turbulence and its effects on optical communication links. Proceedings of SPIE, 2007, , .	0.8	3
192	Imaging and communications through non-Kolmogorov turbulence. Proceedings of SPIE, 2009, , .	0.8	3
193	mm wave and THz imaging using very inexpensive neon-indicator lamp detector focal-plane arrays. , 2011, , .		3
194	Capability of long distance 100â€™%â€™GHz FMCW using a single GDD lamp sensor. Applied Optics, 2014, 53, 8549.		3
195	Electromagnetic Wave Propagation in the Turbulent Atmosphere With an Anisotropic Exponent of the Spectrum. IEEE Transactions on Antennas and Propagation, 2017, 65, 5654-5657.	5.1	3
196	Robust, Sensitive, and Inexpensive 2D Focal Plane Array Upconverting MMW Imaging Into the Visible. IEEE Photonics Technology Letters, 2019, 31, 747-750.	2.5	3
197	Inexpensive Millimeter-Wave Communication Channel Using Glow Discharge Detector and Satellite Dish Antenna. Electronics (Switzerland), 2020, 9, 677.	3.1	3
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