

# Mikhail M Kugeiko

## List of Publications by Year in descending order

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Version: 2024-02-01

58  
papers

131  
citations

1683934

5  
h-index

1588896

8  
g-index

60  
all docs

60  
docs citations

60  
times ranked

67  
citing authors

#	ARTICLE	IF	CITATIONS
1	Analytical model of diffuse reflectance spectrum of skin tissue. Quantum Electronics, 2014, 44, 69-75.	0.3	13
2	Determination of the hematocrit of human blood from the spectral values of the coefficients of extinction and small-angle scattering. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 69	0.2	4
3	A method of online quantitative interpretation of diffuse reflection profiles of biological tissues. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 114, 251-259.	0.2	7
4	Determination of Structural and Morphological Parameters of Human Bulbar Conjunctiva from Optical Diffuse Reflectance Spectra. Journal of Applied Spectroscopy, 2016, 83, 617-626.	0.3	6
5	Analysis of the informativeness of polarization and nephelometric measurements in diagnostics of the microphysical parameters of erythrocytes. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq1 1 0.784314rgBT /Overlock 10 Tf 50 69	0.2	4
6	Rapid Analysis of Hemoglobins in Whole Blood by a Light Scattering Method. Journal of Applied Spectroscopy, 2013, 80, 419-428.	0.3	5
7	Method for determining skin pigment concentrations from multispectral images of the skin. Measurement Techniques, 2013, 56, 721-729.	0.2	5
8	Noninvasive Fast Analysis of Hemoglobin Levels in Blood Using a Fiber Optic Spectrophotometer. Journal of Applied Spectroscopy, 2014, 81, 118-126.	0.3	5
9	Method for estimating optimal spectral and energy parameters of laser irradiation in photodynamic therapy of biological tissue. Quantum Electronics, 2015, 45, 358-365.	0.3	5
10	Multifrequency lidar sensing of atmospheric aerosol under conditions of information uncertainty. Atmospheric and Oceanic Optics, 2016, 29, 516-525.	0.6	5
11	Multifrequency lidar sounding of air pollution by particulate matter with separation into respirable fractions. Atmospheric and Oceanic Optics, 2016, 29, 288-297.	0.6	5
12	Regression approach to analyzing the informativity and interpretation of aerosol optical measurements. Journal of Applied Spectroscopy, 2009, 76, 826-832.	0.3	4
13	Noninvasive diagnostics of skin microphysical parameters based on spatially resolved diffuse reflectance spectroscopy. Journal of Applied Spectroscopy, 2013, 79, 934-943.	0.3	4
14	A method for operative quantitative interpretation of multispectral images of biological tissues. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2013, 115, 610-618.	0.2	4
15	Method for Estimating Bilirubin Isomerization Efficiency in Phototherapy to Treat Neonatal Jaundice. Journal of Applied Spectroscopy, 2014, 81, 834-842.	0.3	4
16	Method for determining the asphericity and microphysical parameters of erythrocytes from the directional scattering coefficient. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 To	0.2	4
17	Contactless diagnostics of biophysical parameters of skin and blood on the basis of approximating functions for radiation fluxes scattered by skin. Quantum Electronics, 2014, 44, 252-258.	0.3	4
18	Determination of the spectral values of the real part of the relative refractive index of human blood erythrocytes from the measured directional scattering coefficients. Optics and Spectroscopy (English) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 137 To	0.2	4

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19	Determination of the concentration of aerosol particles in a vertical atmospheric column from satellite measurements of the spectral optical depth. Journal of Applied Spectroscopy, 2011, 78, 738-745.	0.3	3
20	Noninvasive determination of spectral depth of light penetration into skin. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2013, 115, 779-785.	0.2	3
21	Quantitative Multispectral Endoscopy. Measurement Techniques, 2014, 56, 1302-1310.	0.2	3
22	Method for Measuring the Smokiness of Exhaust Gases and a Device for Accomplishing It. Measurement Techniques, 2004, 47, 729-733.	0.2	2
23	Determination of integral microphysical parameters of multicomponent aerosols from data of atmospheric sensing by lidars based on an Nd:YAG laser. Optics and Spectroscopy (English Translation) Tj ETQq1 1 0.784314gBT /Overlock 10 T	0.2	2
24	A method for retrieving vertical distribution of aerosol mass concentration in atmosphere from results of lidar sensing at Nd:YAG laser wavelengths. Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0gBT /Overlock 10 T	0.2	2
25	Regression approach to non-invasive determination of bilirubin in neonatal blood. Journal of Applied Spectroscopy, 2012, 79, 382-389.	0.3	2
26	Spectronephelometric methods to determine microphysical characteristics of dust in aspiration air and off-gases in cement plants. Journal of Applied Spectroscopy, 2012, 79, 59-69.	0.3	2
27	Method for calculation of light field characteristics in optical diagnosis problems and personalized laser treatment of biological tissues. Journal of Applied Spectroscopy, 2013, 80, 271-279.	0.3	2
28	Multifrequency Lidar Probing of the Microstructure of Multicomponent Urban Aerosols. Journal of Applied Spectroscopy, 2015, 82, 111-119.	0.3	2
29	Systems approach to the analysis and synthesis of automated optophysical diagnostic systems for scattering media. Measurement Techniques, 1996, 39, 846-850.	0.2	1
30	Human erythrocyte refractive index determination from nephelometric optical characteristics. Measurement Techniques, 2007, 50, 1326-1332.	0.2	1
31	A method for retrieval of the profiles of atmospheric backscattering coefficients by three-wavelength lidar and nephelometric measurements. Optics and Spectroscopy (English) Tj ETQq1 1 0.784314gBT /Overlock 10 T	0.2	1
32	Method for noninvasive determination of hemoglobin content in biological tissues. Journal of Applied Spectroscopy, 2012, 79, 637-644.	0.3	1
33	Method of noninvasive determination of optical and microphysical parameters of human skin. Measurement Techniques, 2013, 56, 104-112.	0.2	1
34	Online determination of biophysical parameters of mucous membranes of a human body. Quantum Electronics, 2013, 43, 683-689.	0.3	1
35	Systems for real-time optical diagnostics of biological objects. , 2014, , .		1
36	An operative quantitative analysis of multispectral images of the eyeground. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2014, 117, 500-505.	0.2	1

#	ARTICLE	IF	CITATIONS
37	Effect of Model Type on the Accuracy of Polarization and Nephelometric Measurements of Red-Blood-Cell Volume. Journal of Applied Spectroscopy, 2016, 83, 204-211.	0.3	1
38	Method for Calculating the Optical Diffuse Reflection Coefficient for the Ocular Fundus. Journal of Applied Spectroscopy, 2016, 83, 412-421.	0.3	1
39	Method for Determining Erythrocyte Surface Area by Polarization and Nephelometric Measurements. Journal of Applied Spectroscopy, 2016, 82, 985-992.	0.3	1
40	Method of determining the surface area and volume of erythrocytes from nephelometric measurements. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2016, 83, 269.	0.2	1
41	Remote sensing of atmosphere and water media under conditions of a priori uncertainty. , 1997, 3110, 180.		0
42	Operative dynamical tomography of optically transparent biological tissues. , 1997, , .		0
43	Problems of laser spectronephelometry in medicine and some variants of their solution. , 1998, , .		0
44	<title>Principles of building calibration-free optical systems for biomedical diagnostics</title>. , 1998, , .		0
45	<title>Principles of development of calibration-free systems of optical biomedical diagnostics</title>. , 2001, , .		0
46	<title>Laser monitoring of the environment in conditions of a priori uncertainty</title>. , 2001, 4535, 45.		0
47	Laser diagnostics of aerosol and gas emissions from factory chimneys: concept of elimination of a priori data. , 2002, , .		0
48	<title>Bistatic tomographic sensing of the environment</title>. , 2002, , .		0
49	Principles of creation of calibration-free laser systems of environmental diagnostics. , 2003, , .		0
50	Laser monitoring of the environment in conditions of a priori uncertainty. , 2003, , .		0
51	<title>Method of measurement of exhaust opacity of diesel vehicles and devices for its realization</title>. , 2004, , .		0
52	A spectral correlation method of measuring the fraction composition of an aerodispersed medium: Measurement and computation algorithms. Measurement Techniques, 2008, 51, 320-325.	0.2	0
53	Procedure for retrieval of atmospheric aerosol backscatter coefficient profiles from results of multi-wavelength lidar sounding. Journal of Applied Spectroscopy, 2008, 75, 366-373.	0.3	0
54	Method for determining microphysical parameters of atmospheric aerosol from the results of satellite and ground-based multifrequency sounding. Izvestiya - Atmospheric and Oceanic Physics, 2012, 48, 887-899.	0.2	0

#	ARTICLE	IF	CITATIONS
55	Determination of Constituent Composition of Hemoglobin and Structural/Morphological Parameters of Skin Based on Approximating Functions for Radiation Fluxes Backscattered from Skin. Journal of Applied Spectroscopy, 2014, 81, 442-449.	0.3	0
56	Response from Authors of "Determination of Structural and Morphological Parameters of Human Bulbar Conjunctiva from Optical Diffuse Reflectance Spectra," J. Appl. Spectrosc., 83, No. 4, 617-626 (2016) to L. E. MacKenzie, T. R. Choudhary, A. I. McNaught, and A. R. Harvey "Comment on the Influence of Episcleral Blood Vessels in Diffuse Reflectance Spectroscopy Measurements of the Bulbar Conjunctiva" Journal of Applied Spectroscopy, 2017, 84, 204-205.	0.3	0
57	Informativeness of polarization measurements in determining microphysical parameters of native erythrocyte populations. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2017, 123, 501-508.	0.2	0
58	<title>Method for elimination of influence of methodical errors in the clinical laboratory</title>. , 1996, , .		0