

Vladimir P Budak

List of Publications by Year in descending order

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78
papers

429
citations

933447

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h-index

794594

19
g-index

80
all docs

80
docs citations

80
times ranked

210
citing authors

#	ARTICLE	IF	CITATIONS
1	The Light Field And The Scope Of Light Science. Light & Engineering, 2021, , 4-10.	0.3	2
2	Lightness And Luminance: Perceptual Qualities in Conditions Of Simultaneous Contrast. Light & Engineering, 2021, , 100-107.	0.3	1
3	Construction Of A Psychophysical Scale Of Visual Comfort of Lighting Based On A Neural Network: preparation Of The Experiment. Light & Engineering, 2021, , 114-122.	0.3	3
4	Lighting Quality Criteria Based on the Luminance Spatial-Angular Distribution. , 2021, , .		4
5	Computer Graphics in Lighting Engineering Education: Teaching Photometry and the Basics of the Light Field. , 2021, , .		1
6	Scaling of Discomfort Sensations in the Conditions of Performing Office Visual Tasks. , 2021, , .		0
7	Realistic Simulation of Synthetic Images on Computer Monitors Based on the Color Appearance Model CIECAM02. , 2021, , .		2
8	Modelling Reflection from Real Surfaces. , 2021, , .		0
9	Analysis of the Discrete Theory of Radiative Transfer in the Coupled "Ocean" Atmosphere System: Current Status, Problems and Development Prospects. Journal of Marine Science and Engineering, 2020, 8, 202.	2.6	10
10	A New Lighting Quality Criterion and its Approbation under Laboratory Conditions. Vestnik MEI, 2020, 1, 73-81.	0.1	5
11	Experimental Study of the New Criterion of Lighting Quality Based on Analysis of Luminance Distribution at Moscow Metro Stations. Light & Engineering, 2020, , 98-105.	0.3	8
12	Fraunhofer Diffraction Description In The Approximation Of The Light Field Theory. Light & Engineering, 2020, , 25-30.	0.3	2
13	LENS CLASSIFICATION ACCORDING TO THE TYPE OF LIGHT SPOT USING A NEURAL NETWORK. Automation and Modeling in Design and Management of, 2020, 2020, 4-14.	0.2	0
14	The Effect Of Scattered Radiation On Capabilities Of Laser Beam Guidance. Light & Engineering, 2020, , 110-117.	0.3	0
15	THE QUALITY OF LIGHTING IN THE MODELLING OF LIGHTING INSTALLATIONS IN COMPUTER GRAPHICS PROGRAMS. Automation and Modeling in Design and Management of, 2020, 2020, 15-24.	0.2	1
16	The Impact of Light Polarisation on Light Field of Scenes with Multiple Reflections. Light & Engineering, 2020, , 108-115.	0.3	1
17	LIGHT SCIENCE IS NOT ONLY SCIENCE OF LIGHTING: THEORETICAL BASES AND APPLICATION AREA. , 2019, , .		2
18	Application of the Photometric Theory of the Radiance Field in the Problems of Electron Scattering. Light & Engineering, 2019, , 88-96.	0.3	3

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19	Studies of Application of LED-Based Lighting Devices in a Car Assembly Shop. Light & Engineering, 2019, , 65-72.	0.3	1
20	The Model of Reflective Surface based on The Scattering Layer with Diffuse Substrate and Randomly Rough Fresnel Boundary. , 2019, , .		0
21	Mathematical Model of a Surface Radiance Factor. , 2019, , .		2
22	The Science of Light Engineering, Fields of Application and Theoretical Foundations. Light & Engineering, 2018, , 4-6.	0.3	7
23	Light & Engineering / Svetotekhnika Journal: A Review of 2017 and Looking Forward to 2018-2020. Light & Engineering, 2018, , 4-6.	0.3	0
24	A fast and accurate synthetic iteration-based algorithm for numerical simulation of radiative transfer in a turbid medium. Atmospheric and Oceanic Optics, 2017, 30, 70-78.	1.3	10
25	On the efficiency of algorithms of Monte Carlo methods. Proceedings of SPIE, 2015, , .	0.8	0
26	Numerical modeling of the radiative transfer in a turbid medium using the synthetic iteration. Optics Express, 2015, 23, A829.	3.4	12
27	Peculiarity of Terahertz Waves Scattering. International Journal of High Speed Electronics and Systems, 2015, 24, 1520002.	0.7	5
28	Numerical radiative transfer modeling in turbid medium slab. Proceedings of SPIE, 2014, , .	0.8	2
29	Comparative analysis of radiative transfer approaches for calculation of plane transmittance and diffuse attenuation coefficient of plane-parallel light scattering layers. Applied Optics, 2014, 53, 459.	1.8	15
30	Impact of structure geometry on scattering in partially-ordered media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 108-116.	2.3	9
31	Solution of the radiative transfer equation by eliminating the anisotropic part within the method of synthetic iteration. , 2013, , .		1
32	Efficiency of algorithm for solution of vector radiative transfer equation in turbid medium slab. Journal of Physics: Conference Series, 2012, 369, 012021.	0.4	9
33	Narrow-beam propagation in a two-dimensional scattering medium. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 76.	1.5	15
34	Narrow beams in scattering media: the advanced small-angle approximation. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2011, 28, 1358.	1.5	17
35	Calculation of light fields of concentrated sources in turbid media with strongly anisotropic scattering. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2011, 111, 853-858.	0.6	2
36	Isolating the singularities of a brightness field in a turbid medium on the basis of small-angle solutions of transfer theory. Atmospheric and Oceanic Optics, 2011, 24, 326-334.	1.3	1

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37	Analysis of the propagation of the femtosecond laser pulse in the scattering medium. Computer Physics Communications, 2011, 182, 940-945.	7.5	16
38	Complete matrix solution of radiative transfer equation for PILE of horizontally homogeneous slabs. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1141-1148.	2.3	16
39	Boson peak, flickering noise, backscattering processes and radiative transfer in random media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 864-875.	2.3	9
40	Development of the small angle approximation of the radiative transfer theory taking into account the photon path distribution function. Atmospheric and Oceanic Optics, 2010, 23, 181-185.	1.3	5
41	Angular distributions of electrons and light ions elastically reflected from a solid surface. Journal of Surface Investigation, 2010, 4, 488-493.	0.5	4
42	Benchmark results in vector atmospheric radiative transfer. Journal of Quantitative Spectroscopy and Radiative Transfer, 2010, 111, 1931-1946.	2.3	120
43	Convergence acceleration of radiative transfer equation solution at strongly anisotropic scattering. , 2010, , 147-203.		12
44	COMPLETE MATRIX SOLUTION OF RADIATIVE TRANSFER EQUATION FOR HORIZONTALY HOMOGENEOUS SLABS. , 2010, , .		0
45	Comparison of Efficiency of Algorithms for Polarization Computation in Turbid Media. , 2010, , .		0
46	The Influence of Atmosphere Parameters on the Signal for Remote Sensing Polarimetric Electro-Optical Systems. , 2009, , .		0
47	Calculation of Light Field Created by Point Unidirectional Source in 3-Dimensional Scattering Media. , 2009, , .		1
48	The Increase of Efficiency of Numerical Solution of the Vectorial Radiative Transfer Equation Based upon the Subtraction of the Anisotropic Part. , 2009, , .		0
49	A comparison of numerical and analytical radiative-transfer solutions for plane albedo of natural waters. Journal of Quantitative Spectroscopy and Radiative Transfer, 2009, 110, 1132-1146.	2.3	15
50	To define the form of particles on a polarization state of the scattering optical radiation. , 2009, , .		1
51	Calculation of light field in 3D cylinder cloud for greenhouse gases monitoring via GOSAT. Proceedings of SPIE, 2009, , .	0.8	0
52	On the solution of a vectorial radiative transfer equation in an arbitrary three-dimensional turbid medium with anisotropic scattering. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 220-234.	2.3	45
53	The spatial polarization distribution over the dome of the sky for abnormal irradiance of the atmosphere. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 1347-1362.	2.3	11
54	Space-angle distribution of the reflected charged particles adjusted for spin calculations. Radiation Effects and Defects in Solids, 2008, 163, 761-765.	1.2	2

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55	The aerosol influence upon the polarization state of the atmosphere solar radiation. International Journal of Remote Sensing, 2008, 29, 2469-2506.	2.9	7
56	<title>Detectable distance determination of light-signal complexes</title>. , 2007, , .		0
57	<title>The polarization state spatial distribution of atmosphere-scattered radiation obtained by complete analytical solution for the vectorial transport equation</title>. , 2007, , .		0
58	<title>The cloudiness parameters recovery from optical remote sensing data</title>. Proceedings of SPIE, 2007, , .	0.8	0
59	<title>About the mathematical model of three-dimensional radiative transfer problems in a turbid medium</title>. , 2006, 6522, 327.		1
60	<title>Green's function calculation of the radiative transfer equation in the media with anisotropic scattering</title>. , 2006, 6160, 291.		0
61	<title>The vectorial small angle modification of the spherical harmonics method for an arbitrary angle of irradiance of a slab</title>. , 2006, 6522, 319.		0
62	<title>Calculation of polarization parameters of light fields in turbid media with an anisotropic scattering</title>. , 2006, , .		0
63	Measuring color thresholds. Pattern Recognition and Image Analysis, 2006, 16, 37-38.	1.0	1
64	<title>Precision and application range of the quasi-single scattering approximation at the calculation of the backscattering signal</title>. , 2006, , .		0
65	<title>Effective computational method of the light fields in three-dimensional medium with an anisotropic scattering</title>. , 2006, , .		0
66	The vectorial radiative transfer equation problem in the small angle modification of the spherical harmonics method with the determination of the solution smooth part. , 2006, 6408, 304.		0
67	Precision and application range of quasi-single scattering approximation. , 2005, , .		0
68	Mathematical model of polarized light reflection by turbid medium slab with an anisotropic scattering. , 2005, , .		0
69	Effective computational method of the light fields in 3D medium with anisotropic scattering. , 2005, 5979, 125.		0
70	Adaptive Image Processing Techniques. , 1988, 0848, 255.		4
71	Modeling of UV Disinfection Irradiation Installations Using Computer Graphics Programs. , 0, , short36-1-short36-7.		1
72	THE MATHEMATICAL MODEL OF OPTICAL REMOTE SENSING SYSTEM SIGNAL CONSIDERING BROKEN CLOUDINESS EFFECTS. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 1145-1148.	0.2	0

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73	The Role of Polarization in The Multiple Reflections Modeling. , 0, , .		0
74	Modeling the Luminance Spatial-Angular Distribution in Lighting Scenes. , 0, , short35-1-short35-8.		1
75	Light Reflection from Real Surfaces: Probabilistic Model of the Layer Radiance Factor. , 0, , short37-1-short37-9.		2
76	Methods Calculating the Slab Radiance Factor. , 0, , paper16-1-paper16-13.		0
77	Computer Graphics: New Horizons in the Education of Lighting Designers and Engineers. , 0, , short43-1-short43-7.		2
78	Psychovisual Perception Scale Based on a Neural Network. , 0, , paper65-1-paper65-10.		0