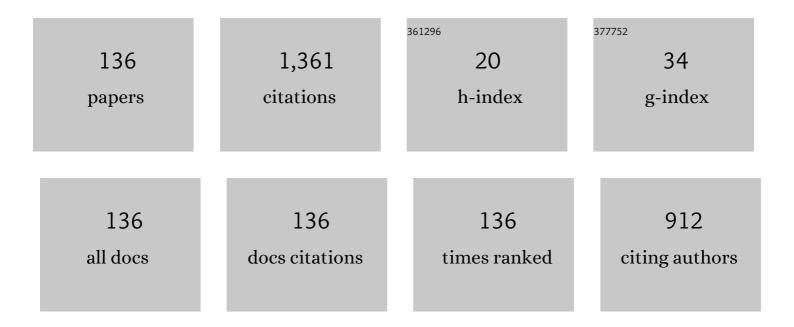
Valeriy E Karasik

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Properties of Scalable Chirped-Pulse Optical Comb in Erbium-Doped Ultrafast All-Fiber Ring Laser. Fibers, 2021, 9, 36.	1.8	3
2	Theoretical analysis of injection driven thermal light emitters based on graphene encapsulated by hexagonal boron nitride. Optical Materials Express, 2021, 11, 468.	1.6	8
3	A Distributed Acoustic Sensor Based on Dual-Sagnac Interferometer with Counter Loops. , 2021, , .		1
4	The progress and perspectives of terahertz technology for diagnosis of neoplasms: a review. Journal of Optics (United Kingdom), 2020, 22, 013001.	1.0	135
5	Multibound Soliton Formation in an Erbium-Doped Ring Laser With a Highly Nonlinear Resonator. IEEE Photonics Technology Letters, 2020, 32, 43-46.	1.3	7
6	Multiple graphene-layer-based heterostructures with van der Waals barrier layers for terahertz superluminescent and laser diodes with lateral/vertical current injection. Semiconductor Science and Technology, 2020, 35, 085023.	1.0	3
7	Propagation Features of Multibound Solitons in Optical Fiber With Anomalous Dispersion in the Telecom Range. , 2020, , .		1
8	Simulation of ultrashort pulse generation in an all-fiber erbium-doped ring laser with a highly nonlinear cavity. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2020, 87, 175.	0.2	0
9	Optical Comb Peculiarities of High-energy Chirped-pulse Erbium-doped All-fiber Ring Laser. , 2020, , .		0
10	All-fiber 1.9 Âμm ultrafast amplifier based on normal dispersion thulium-doped fiber and large mode area silica fiber compressor. , 2020, , .		1
11	High-spatial-resolution Distributed Temperature Sensing System Based on a Mode-locked Fiber Laser. , 2020, , .		4
12	Concepts of infrared and terahertz photodetectors based on vertical graphene van der Waals and HgTe-CdHgTe heterostructures. Opto-electronics Review, 2019, 27, 219-223.	2.4	2
13	An Experimentally Trained Noise Filtration Method of Optical Coherence Tomography Signals. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 587-594.	0.2	2
14	Controllable Generation of Ultrashort Multi-Bound Solitons in a Mode-Locked Erbium-Doped Ring Laser with a Highly-Nonlinear Resonator. , 2019, , .		1
15	Octave-Spanning High-Repetition-Rate Mid-IR Supercontinuum for Frequency Comb Synthesis. , 2019, , .		0
16	Negative terahertz conductivity and amplification of surface plasmons in graphene–black phosphorus injection laser heterostructures. Physical Review B, 2019, 100, .	1.1	21
17	Terahertz Microscope Based on Solid Immersion Effect for Imaging of Biological Tissues. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 126, 560-567.	0.2	16
18	Characteristics of vertically stacked graphene-layer infrared photodetectors. Solid-State Electronics, 2019, 155, 123-128.	0.8	1

#	Article	IF	CITATIONS
19	Dynamics of High Peak Power Pulses near \$1.9 mu mathrm{m}\$ in a Standard Single-mode Telecom Fiber. , 2019, , .		0
20	Φ-OTDR based on tunable Yb-Er:phosphate-glass laser. Journal of Physics: Conference Series, 2019, 1410, 012108.	0.3	8
21	High Power Multi-soliton and Noise-like Pulse Generation Regimes in a Passively Mode-locked Thulium-doped All-fiber Ring Oscillator. , 2019, , .		1
22	Influence of the Laser Frequency Drift in Phase-Sensitive Optical Time Domain Reflectometry. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 127, 656-663.	0.2	10
23	Fiber Optic Raman Distributed Temperature Sensor Based on an Ultrashort Pulse Mode-Locked Fiber Laser. Optics and Spectroscopy (English Translation of Optika I Spektroskopiya), 2019, 127, 664-668.	0.2	16
24	Negative Terahertz Conductivity at Vertical Carrier Injection in a Black-Arsenic-Phosphorus–Graphene Heterostructure Integrated With a Light-Emitting Diode. IEEE Journal of Selected Topics in Quantum Electronics, 2019, 25, 1-9.	1.9	4
25	Terahertz spectroscopy of gelatin-embedded human brain gliomas of different grades: a road toward intraoperative THz diagnosis. Journal of Biomedical Optics, 2019, 24, 1.	1.4	75
26	Numerical analysis and experimental study of terahertz solid immersion microscopy. Optical Engineering, 2019, 59, 1.	0.5	28
27	Optical pumping in graphene-based terahertz/far-infrared superluminescent and laser heterostructures with graded-gap black-PxAs1â°'x absorbing-cooling layers. Optical Engineering, 2019, 59, 1.	0.5	8
28	Multibound solitons generation with a controllable number of bound states in a passive mode-locked all-fiber erbium-doped ring laser. , 2019, , .		2
29	High-efficiency continuous-wave single-mode room-temperature operation of Cr:CdSe single-crystal laser with output power of 23 W. Optics Express, 2019, 27, 12090.	1.7	16
30	Fabrication of anti-reflective microstructures on chalcogenide crystals by femtosecond laser ablation. Optical Materials Express, 2019, 9, 1689.	1.6	23
31	Differentiation of basal cell carcinoma and healthy skin using multispectral modulation autofluorescence imaging: A pilot study. Journal of Biomedical Photonics and Engineering, 2019, 5, 010302.	0.4	4
32	Low-saturation-energy Ultrafast Saturable Absorption of High-density Well-aligned Single-walled Carbon Nanotubes. , 2019, , .		1
33	Anti-reflection microstructures for 2-6 $\hat{A}\mu$ m range fabricated with direct fs laser ablation. , 2019, , .		0
34	Fiber optic Raman distributed temperature sensor based on an ultrashort pulse mode-locked fiber laser. , 2019, , .		1
35	Chirped-pulse erbium-doped all-fiber ultrashort pulse laser for a fiber optic Raman distributed temperature sensor. , 2019, , .		0
36	Operating speed measurement of photodetector based on GaSb/GaInAsSb/GaAlAsSb heterostructure with frontal bridge contact for detecting ultrashort pulses at wavelengths of 1.55 and 1.9 um. , 2019, ,		0

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37	Comparison of Intersubband Quantum-Well and Interband Graphene-Layer Infrared Photodetectors. IEEE Journal of Quantum Electronics, 2018, 54, 1-8.	1.0	9
38	Device model for pixelless infrared image up-converters based on polycrystalline graphene heterostructures. Journal of Applied Physics, 2018, 123, 014503.	1,1	3
39	Intraoperative diagnosis of malignant brain gliomas using terahertz pulsed spectroscopy and optical coherence tomography. EPJ Web of Conferences, 2018, 195, 10018.	0.1	Ο
40	High-power passively mode-locked thulium-doped all-fiber ring laser with nonlinearity and dispersion management. , 2018, , .		4
41	Tunable Discrete-Cavity Solid-State Laser For Phase-Sensitive OTDR. , 2018, , .		0
42	Low-noise Multi-bound Solitons Generation in a Highly-nonlinear All-fiber Resonator. , 2018, , .		0
43	Biomedical applications of terahertz solid immersion microscopy. EPJ Web of Conferences, 2018, 195, 10017.	0.1	1
44	Ultrashort Multi-Bound Solitons Generation in the Passively Mode-Locked All-Fiber Laser at the Telecom Window. , 2018, , .		2
45	Pump-Induced Frequency Jitter Study in Hybridly Mode-locked All-fiber Similariton-like Erbium Fiber Laser. , 2018, , .		0
46	Electrical modulation of terahertz radiation using graphene-phosphorene heterostructures. Semiconductor Science and Technology, 2018, 33, 124010.	1.0	19
47	Sapphire Photonic Crystal Waveguides for Terahertz Sensing in Aggressive Environments. Advanced Optical Materials, 2018, 6, 1800573.	3.6	48
48	In vitro terahertz spectroscopy of malignant brain gliomas embedded in gelatin slab. , 2018, , .		0
49	High-energy ultrashort-pulse all-fiber erbium-doped ring laser with improved free-running performance. Journal of the Optical Society of America B: Optical Physics, 2018, 35, 2010.	0.9	10
50	High-density Well-aligned Single-walled Carbon Nanotubes Saturable Absorber: Novel Approach of Robust Mode-locking Launching. , 2018, , .		0
51	Sub-wavelength-resolution imaging of biological tissues using THz solid immersion microscopy. , 2018, , .		1
52	The Role of Scattering in Quasi-Ordered Structures for Terahertz Imaging: Local Order Can Increase an Image Quality. IEEE Transactions on Terahertz Science and Technology, 2018, 8, 403-409.	2.0	21
53	A potential of terahertz solid immersion microscopy for visualizing sub-wavelength-scale tissue spheroids. , 2018, , .		16
54	In vitro terahertz spectroscopy of gelatin-embedded human brain tumors: a pilot study. , 2018, , .		6

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55	Demonstration of Two Generation Regimes in High Power Passively Mode-locked Thulium-doped All-fiber Ring Laser at Fully Negative Intracavity Dispersion. , 2018, , .		3
56	Fabrication of broadband antireflection microstructures on ZnSe single crystal for mid-IR applications. , 2018, , .		1
57	Highly efficient continuous wave single mode Cr:CdSe laser with output power more than 2 W. , 2018, , .		0
58	Impact of Scattering in Quasi-Ordered Structures on THz Imaging. EPJ Web of Conferences, 2018, 195, 08001.	0.1	0
59	Cr:ZnSe laser generation in two longitudinal modes regime with intracavity monoblock Fabry-Perot interferometer for methane saturation spectroscopy. , 2018, , .		0
60	Broadband tunable mid-IR Cr2+:CdSe lasers for medical applications. , 2018, , .		0
61	All-fiber mode-locked erbium-doped ring laser based on a highly-nonlinear resonator with a low-noise ultrashort pulse generation. , 2018, , .		0
62	Precision method of monitoring the parameters of the local nanometer-level deviations of an optical component's surface. Journal of Optical Technology (A Translation of Opticheskii Zhurnal), 2018, 85, 166.	0.2	1
63	Wide-aperture aspherical lens for high-resolution terahertz imaging. Review of Scientific Instruments, 2017, 88, 014703.	0.6	63
64	Infrared detection and photon energy up-conversion in graphene layer infrared photodetectors integrated with LEDs based on van der Waals heterostructures: Concept, device model, and characteristics. Infrared Physics and Technology, 2017, 85, 307-314.	1.3	3
65	Comb Peculiarities of Dispersion-Managed Solitons in a Hybrid Mode-Locked All-Fiber Ring Laser. IEEE Photonics Technology Letters, 2017, 29, 1588-1591.	1.3	9
66	Er:Yb phosphate glass laser with nonlinear absorber for phase-sensitive optical time domain reflectometry. Journal of Physics: Conference Series, 2017, 917, 052032.	0.3	2
67	Method for Certification Monitoring of Surface Inhomogeneities of Optics Based on Frequency Analysis of the Surface Profile. Measurement Techniques, 2017, 60, 121-127.	0.2	2
68	Fiber Bragg gratings strain measuring system and a sensor calibration setup based on mechanical nanomotion transducer. Proceedings of SPIE, 2017, , .	0.8	1
69	Laser performance of Cr2+:CdSe crystal with anti-reflection coating. , 2017, , .		1
70	Phase-sensitive optical time-domain reflectometry with pulse mode EDFA: Probe pulse preparation. , 2017, , .		2
71	Optical comb characterization of an all-fiber mode-locked erbium-doped ring laser with a highly-nonlinear resonator. , 2017, , .		0
72	Hybrid mode-locked erbium-doped all-fiber ring laser with high-density well-aligned single-walled carbon nanotubes. , 2017, , .		1

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73	Theoretical aspects of a pulse repetition rate stabilization in the Er-doped all-fiber hybridly mode-locked similariton-like ring laser. , 2017, , .		2
74	Thermo-optical and lasing characteristics of Cr^2+-doped CdSe single crystal as tunable coherent source in the mid-infrared. Optical Materials Express, 2017, 7, 3815.	1.6	29
75	Ultrafast all-fiber erbium-doped ring laser mode-locked by high-density well-aligned single-walled carbon nanotubes. , 2017, , .		1
76	Fabrication of Anti-reflection Microstructures on ZnSe Single Crystal by Using Femtosecond Laser Pulses. , 2017, , .		1
77	Enhanced high-harmonic generation in photonics crystal: theoretical and experimental studies. , 2017, , .		Ο
78	Mode-locking peculiarities in an all-fiber erbium-doped ring ultrashort pulse laser with a highly-nonlinear resonator. , 2017, , .		1
79	Numerical simulations of radiation transfer in partially-ordered stratified media using Monte Carlo methods. Journal of Physics: Conference Series, 2016, 672, 012001.	0.3	Ο
80	Note: Gaussian mixture model for event recognition in optical time-domain reflectometry based sensing systems. Review of Scientific Instruments, 2016, 87, 036107.	0.6	25
81	Generation of ultrashort pulses with minimum duration of 90 fs in a hybrid mode-locked erbium-doped all-fibre ring laser. Quantum Electronics, 2016, 46, 979-981.	0.3	6
82	Combined terahertz imaging system for enhanced imaging quality. Optical and Quantum Electronics, 2016, 48, 1.	1.5	8
83	Terahertz Photonic Crystal Waveguides Based on Sapphire Shaped Crystals. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 576-582.	2.0	49
84	Adaptation of the Er-Yb microchip laser for use in phase-sensitive optical time domain reflectometry. , 2016, , .		0
85	Dispersion-managed soliton generation in the hybrid mode-locked erbium-doped all-fiber ring laser. , 2016, , .		1
86	All-fiber hybridly mode-locked similariton ring laser for frequency metrology. , 2016, , .		0
87	Stability peculiarities in the stretch pulse hybrid mode-locked erbium-doped all-fiber ring laser. , 2016, ,		Ο
88	All-fiber ultra-short pulse hybrid mode-locked laser with high power amplifier. , 2016, , .		0
89	Terahertz waveguides based on multichannel sapphire shaped crystals. , 2016, , .		2
90	Multipurpose monitoring system for icebreakers: Development, implementation, and testing. MATEC Web of Conferences, 2016, 75, 04005.	0.1	2

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91	Radiation scattering on growing ordered structures. Journal of Physics: Conference Series, 2016, 673, 012011.	0.3	0
92	Diode array-pumped mid-infrared cw Cr2+:CdSe laser. Journal of Physics: Conference Series, 2016, 673, 012015.	0.3	1
93	Numerical simulation of terahertz-wave propagation in photonic crystal waveguide based on sapphire shaped crystal. Journal of Physics: Conference Series, 2016, 673, 012001.	0.3	3
94	A device based on the Shack-Hartmann wave front sensor for testing wide aperture optics. Proceedings of SPIE, 2016, , .	0.8	10
95	rfIns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0007.gif" overflow="scroll"> <mml:mn>2.36</mml:mn> <mml:mspace width="0.25em"></mml:mspace> <mml:mi mathvariant="normal">î¼<mml:mi mathvariant="normal"></mml:mi> temperature range of 77–300 K for optical frequency standards. Journal of Ouantitative Spectroscopy</mml:mi 	1.1	10
96	and Radiative Transfer, 2016, 177, 241-247. Stable Similariton Generation in an All-Fiber Hybrid Mode-Locked Ring Laser for Frequency Metrology. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2016, 63, 1028-1033.	1.7	20
97	High-order modes supercontinuum generation in a large-core photonic crystal fiber. , 2015, , .		0
98	A hybrid continuous-wave terahertz imaging system. Review of Scientific Instruments, 2015, 86, 113704.	0.6	33
99	Note: Improved technique for ultrashort lasers pulse width stabilization. Review of Scientific Instruments, 2015, 86, 076108.	0.6	0
100	The absolute calibration of high-precision optical flats across a wide range of spatial frequencies. Journal of Physics: Conference Series, 2015, 584, 012020.	0.3	3
101	Scattering in structured two-layered medium. Journal of Physics: Conference Series, 2015, 584, 012019.	0.3	4
102	Improved technique for picosecond pulse duration measurement based on second harmonic generation. Journal of Physics: Conference Series, 2015, 584, 012007.	0.3	0
103	Thin film thickness measurement error reduction by wavelength selection in spectrophotometry. Journal of Physics: Conference Series, 2015, 584, 012011.	0.3	3
104	A method of studying spectral optical characteristics of a homogeneous medium by means of terahertz time-domain spectroscopy. Optics and Spectroscopy (English Translation of Optika I) Tj ETQq0 0 0 rgBT	/ 0. 22erlock	10 Tf 50 21
105	High-energy, sub-100 fs, all-fiber stretched-pulse mode-locked Er-doped ring laser with a highly-nonlinear resonator. Optics Express, 2015, 23, 33295.	1.7	26
106	Experimental study of influence of nonlinear effects on phase- sensitive optical time-domain reflectometer operating range. Journal of Physics: Conference Series, 2015, 584, 012028.	0.3	17
107	Mathematical analysis of marine pipeline leakage monitoring system based on coherent OTDR with improved sensor length and sampling frequency. Journal of Physics: Conference Series, 2015, 584, 012016.	0.3	15
108	Structural monitoring system with fiber Bragg grating sensors: implementation and software solution. Journal of Physics: Conference Series, 2015, 594, 012049.	0.3	8

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109	Experimental Analysis of Instrumental Uncertainty in the Measurement Channel of an Optoelectronic System for Monitoring Surfaces of Complex Shape. Measurement Techniques, 2015, 57, 1371-1377.	0.2	Ο
110	<i>In vivo</i> spectroscopy of healthy skin and pathology in terahertz frequency range. Journal of Physics: Conference Series, 2015, 584, 012023.	0.3	12
111	Hartmannometer versus Fizeau Interferometer: advantages and drawbacks. , 2015, , .		8
112	Ultra-short pulse generation in the hybridly mode-locked erbium-doped all-fiber ring laser with a distributed polarizer. Laser Physics Letters, 2015, 12, 065001.	0.6	34
113	Stable similariton generation in hybrid mode-locked erbium-doped all-fiber ring laser for application in optical frequency standard. , 2015, , .		Ο
114	<i>In vivo</i> terahertz spectroscopy of pigmentary skin nevi: Pilot study of non-invasive early diagnosis of dysplasia. Applied Physics Letters, 2015, 106, .	1.5	112
115	Peculiarity of Terahertz Waves Scattering. International Journal of High Speed Electronics and Systems, 2015, 24, 1520002.	0.3	5
116	Continuous-wave broadly tunable diode laser array-pumped mid-infrared Cr2+:CdSe laser. Laser Physics Letters, 2015, 12, 125003.	0.6	14
117	Tunable CW Solid-State Mid-IR Cr2+:CdSe Single Crystal Laser with Diode Laser Array Pumping. , 2015, , .		7
118	Study of Methane Saturated Dispersion Resonances Amplitude near 2.36 μm over the Temperature Range 77-300 K. , 2015, , .		2
119	Stretched-pulse Kerr Mode-locked Generation in Erbium-doped Ring Laser with Highly Nonlinear All-fiber Resonator. , 2015, , .		1
120	Improved Method of Pulse Width Stabilization for Picosecond Mode-locked Yb-doped Fiber Laser. , 2015, , .		0
121	An approach for automatic construction of the wavelet-domain de-noising procedure for THz pulsed spectroscopy signal processing. Journal of Physics: Conference Series, 2014, 486, 012034.	0.3	7
122	Wavelet-domain de-noising technique for THz pulsed spectroscopy. , 2014, , .		6
123	Summer school in Kabardino-Balkaria by BMSTU SPIE Student Chapter. Proceedings of SPIE, 2014, , .	0.8	0
124	Accuracy of sample material parameters reconstruction using terahertz pulsed spectroscopy. Journal of Applied Physics, 2014, 115, .	1.1	50
125	Impact of structure geometry on scattering in partially-ordered media. Journal of Quantitative Spectroscopy and Radiative Transfer, 2014, 149, 108-116.	1.1	9
126	BWO based THz imaging system. Journal of Physics: Conference Series, 2014, 486, 012027.	0.3	12

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127	Nondestructive testing of polymer composite materials using THz radiation. Journal of Physics: Conference Series, 2014, 486, 012008.	0.3	19
128	2nd Russia–Japan–USA Symposium on the Fundamental and Applied Problems of Terahertz Devices and Technologies (RJUS TeraTech – 2013). Journal of Physics: Conference Series, 2014, 486, 011001.	0.3	0
129	Medical diagnostics using terahertz pulsed spectroscopy. Journal of Physics: Conference Series, 2014, 486, 012014.	0.3	24
130	A Comparison of Terahertz Pulsed Spectroscopy and Backward-Wave Oscillator Spectroscopy. Journal of Physics: Conference Series, 2014, 536, 012009.	0.3	3
131	Scattering of terahertz radiation in thin layers of dielectric materials. Proceedings of SPIE, 2013, , .	0.8	4
132	Concept of infrared photodetector based on graphene–graphene nanoribbon structure. Infrared Physics and Technology, 2013, 59, 137-141.	1.3	7
133	Invariant embedding technique for medium permittivity profile reconstruction using terahertz time-domain spectroscopy. Optical Engineering, 2013, 52, 068203.	0.5	43
134	Terahertz and infrared photodetectors based on multiple graphene layer and nanoribbon structures. Opto-electronics Review, 2012, 20, .	2.4	53
135	An unequal-arm Twyman-Green IR interferometer for monitoring the shape and quality of the surfaces of large optical items at the grinding stage. Journal of Optical Technology (A Translation of) Tj ETQq1 1 0.784314	1 r gB ∑ /Ov	erløck 10 Tf
136	Experimental estimation of the quality of a laser beam. Measurement Techniques, 2009, 52, 260-265.	0.2	1