

# Evgeny A Serov

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7019048/publications.pdf>

Version: 2024-02-01

45  
papers

543  
citations

623734

14  
h-index

677142

22  
g-index

45  
all docs

45  
docs citations

45  
times ranked

395  
citing authors

#	ARTICLE	IF	CITATIONS
1	Water Dimer Rotationally Resolved Millimeter-Wave Spectrum Observation at Room Temperature. <i>Physical Review Letters</i> , 2013, 110, 093001.	7.8	83
2	Millimeter wave continuum absorption in moist nitrogen at temperatures 261â€“328K. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 2704-2712.	2.3	39
3	Water dimer and the atmospheric continuum. <i>Physics-Usppekhi</i> , 2014, 57, 1083-1098.	2.2	38
4	Resonator spectrometer for precise broadband investigations of atmospheric absorption in discrete lines and water vapor related continuum in millimeter wave range. <i>Review of Scientific Instruments</i> , 2009, 80, 093106.	1.3	34
5	On the origin of the water vapor continuum absorption within rotational and fundamental vibrational bands. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 193, 1-12.	2.3	33
6	Rotationally resolved water dimer spectra in atmospheric air and pure water vapour in the 188â€“258 GHz range. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 26221-26233.	2.8	31
7	Modern Resonator Spectroscopy at Submillimeter Wavelengths. <i>IEEE Sensors Journal</i> , 2013, 13, 18-23.	4.7	28
8	Equilibrium thermodynamic state of water vapor and the collisional interaction of molecules. <i>Radiophysics and Quantum Electronics</i> , 2012, 54, 700-716.	0.5	21
9	New Frontiers in Modern Resonator Spectroscopy. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2018, 8, 773-783.	3.1	21
10	Instrumental complex and the results of precise measurements of millimeter- and submillimeter-wave propagation in condensed media and the atmosphere. <i>Radiophysics and Quantum Electronics</i> , 2009, 52, 525-535.	0.5	20
11	Resonator spectroscopy of the atmosphere in the 350â€“500GHz range. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 114, 109-121.	2.3	17
12	Cryogenic Resonator Complex. <i>Radiophysics and Quantum Electronics</i> , 2014, 56, 554-560.	0.5	17
13	Accurate broadband rotational BWO-based spectroscopy. <i>Journal of Molecular Spectroscopy</i> , 2012, 280, 110-118.	1.2	16
14	Accurate modeling of the diagnostic 118-GHz oxygen line for remote sensing of the atmosphere. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 196, 78-86.	2.3	14
15	Reflectivity of Metals in the Millimeter Wavelength Range at Cryogenic Temperatures. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2016, 64, 3828-3838.	4.6	12
16	Silicon carbide for high-power applications at MM and THz ranges. <i>Diamond and Related Materials</i> , 2017, 80, 1-4.	3.9	12
17	Terahertz Dielectric Properties of Polycrystalline MgAl <sub>2</sub> O <sub>4</sub> Spinel Obtained by Microwave Sintering and Hot Pressing. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019, 40, 447-455.	2.2	9
18	Millimeter-Wavelength Radiation Used to Sinter Radiotransparent MgAl <sub>2</sub> O <sub>4</sub> Ceramics. <i>Radiophysics and Quantum Electronics</i> , 2017, 59, 690-697.	0.5	8

#	ARTICLE	IF	CITATIONS
19	Wideband Windows for Millimeter- and Submillimeter-Wave Vacuum Devices. Radiophysics and Quantum Electronics, 2020, 63, 106-113.	0.5	8
20	CO-Ar collisions: ab initio model matches experimental spectra at a sub percent level over a wide pressure range. Journal of Quantitative Spectroscopy and Radiative Transfer, 2021, 272, 107807.	2.3	8
21	Continuum absorption of millimeter waves in nitrogen. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 242, 106774.	2.3	7
22	Modern Dielectric Materials for Output Windows of High-Power Microwave and Terahertz Sources. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1450-1459.	2.2	7
23	CO <sub>2</sub> and CO <sub>2</sub> and CO <sub>2</sub>	2.3	7
24	Terahertz Reflectivity of YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7-<math>\delta</math></sub> at Cryogenic Temperatures. IEEE Transactions on Applied Superconductivity, 2020, 30, 1-5.	1.7	6
25	Reduction of Ohmic Losses in the Cavities of Low-Power Terahertz Gyrotrons. Radiophysics and Quantum Electronics, 2021, 64, 240-250.	0.5	6
26	Methods for investigating thin dielectric films in the millimeter range. Technical Physics, 2010, 55, 1781-1787.	0.7	5
27	Precise resonator methods investigation of dielectrics and metals at 40 GHz–500 GHz frequency range and in 4–900 K temperature interval. , 2016, , .		5
28	Precise measurements of materials and media in the mm/sub-mm ranges, , 2012, , .		4
29	Resonance method for studying dielectric liquids in the millimeter and submillimeter wave ranges. Radiophysics and Quantum Electronics, 2012, 54, 632-637.	0.5	4
30	Dielectric Properties and Applications of CVD Diamonds in the Millimeter and Terahertz Ranges. NATO Science for Peace and Security Series B: Physics and Biophysics, 2013, , 79-87.	0.3	4
31	Detectors Based on Low-Barrier Mott Diodes and Their Characteristics in the 150–250 GHz Range. Technical Physics Letters, 2019, 45, 239-241.	0.7	4
32	Investigation into Microwave Absorption in Semiconductors for Frequency-Multiplication Devices and Radiation-Output Control of Continuous and Pulsed Gyrotrons. Semiconductors, 2020, 54, 1069-1074.	0.5	4
33	Long-Term Observations of Microwave Brightness Temperatures over a Metropolitan Area: Comparison of Radiometric Data and Spectra Simulated with the Use of Radiosonde Measurements. Remote Sensing, 2021, 13, 2061.	4.0	4
34	Dielectric parameters of the modern low-loss ceramics in the microwave, millimeter, and submillimeter ranges.. Journal of Radio Electronics, 2018, 2018, .	0.1	3
35	Cavity methods of investigation of gas and condensed medium in MM AND SubMM ranges. , 2010, , .		2
36	Dielectric Loss at MM Range and Deep Level Transient Spectroscopy of the Diamond Grown by DC Arc Plasma Jet Technique. ECS Transactions, 2012, 45, 251-261.	0.5	2

#	ARTICLE	IF	CITATIONS
37	The method of measurements and dielectric parameters of the film materials at MM-wave range. , 2008, , .		0
38	Atmosphere continuum absorption investigation at MM waves. , 2010, , .		0
39	New measurements of atmospheric continuum for refinement of millimeter wave propagation models. , 2012, , .		0
40	Accurate broadband THz molecular spectroscopy. EPJ Web of Conferences, 2018, 195, 06005.	0.3	0
41	Dielectrics for output windows of medium power gyrotrons. EPJ Web of Conferences, 2018, 195, 06014.	0.3	0
42	Dielectric Losses in MPCVD Diamonds in the 25â€“30 and 250â€“350 GHz Bands Depending on Growth Parameters. Technical Physics Letters, 2018, 44, 956-958.	0.7	0
43	Reduction of Ohmic Losses in the Cavities of Low-Power Terahertz Gyrotrons. Izvestiya Vysshikh Uchebnykh Zavedenij Radiofizika, 2021, 64, 265-275.	0.1	0
44	Method to Measure the Dielectric Parameters of Powders in Subterahertz and Terahertz Ranges. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 375-380.	3.1	0
45	Method to decrease ohmic losses in cavities of low-power terahertz gyrotrons. , 2021, , .		0