

# Nikolay Rodionov

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

220  
citations

1307594

7  
h-index

996975

15  
g-index

38  
all docs

38  
docs citations

38  
times ranked

356  
citing authors

#	ARTICLE	IF	CITATIONS
1	Overview of the JET results with the ITER-like wall. Nuclear Fusion, 2013, 53, 104002.	3.5	70
2	Overview of JET results. Nuclear Fusion, 2003, 43, 1540-1554.	3.5	38
3	Overview of JET results. Nuclear Fusion, 2011, 51, 094008.	3.5	33
4	Fast neutron diamond spectrometer. Diamond and Related Materials, 2011, 20, 1239-1242.	3.9	18
5	Study of the mechanism of steel cutting with the weakly focused radiation from a repetitively pulsed CO <sub>2</sub> laser. Quantum Electronics, 2000, 30, 1072-1076.	1.0	12
6	The mechanism of remote cutting of metals by CO <sub>2</sub> -laser radiation. High Temperature, 2000, 38, 477-482.	1.0	8
7	Calculation of mass transfer in the remote cutting of metals by radiation of a high-power repetitively pulsed CO <sub>2</sub> laser. Quantum Electronics, 2002, 32, 14-18.	1.0	8
8	Study of grown single crystal diamond by optical and X-ray spectroscopy. EPJ Web of Conferences, 2017, 149, 02029.	0.3	4
9	Gas-Jet Activation Method for a Fusion Power Measurement on ITER-FEAT. Fusion Science and Technology, 2003, 43, 176-183.	1.1	3
10	Development of ionizing radiation detectors based on synthetic diamond material for the nuclear power industry. Instruments and Experimental Techniques, 2010, 53, 196-203.	0.5	3
11	Detector for Selective Detection of Particles and Ions Based on an Epitaxial Layer of Synthetic Diamond. Atomic Energy, 2016, 121, 127-134.	0.4	3
12	The radiation-induced galvanic effect at a metal–dielectric interface. Technical Physics Letters, 2016, 42, 1134-1136.	0.7	3
13	Testing the prototype diamond detector for the ITER neutral-particle spectrometer. Instruments and Experimental Techniques, 2017, 60, 122-125.	0.5	3
14	Development of a Diamond Detector for the ITER Diamond Neutral-Particle Spectrometer. Instruments and Experimental Techniques, 2019, 62, 360-365.	0.5	3
15	Neutron analysis of the ITER vertical neutron camera. Instruments and Experimental Techniques, 2014, 57, 95-102.	0.5	2
16	Experimental neutron flux measurements with a diamond detector at the QUINTA setup. Physics of Particles and Nuclei Letters, 2016, 13, 352-357.	0.4	2
17	A diamond-based photovoltaic cell. Instruments and Experimental Techniques, 2016, 59, 698-702.	0.5	2
18	Experimental Simulation of a Diamond Betavoltaic Battery. Technical Physics Letters, 2018, 44, 697-699.	0.7	2

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19	Amplification ratio on CO <sub>2</sub> gasdynamic lasers behind nozzles of wedge and profiled geometries. 2. Measurement results. Comparison of experimental and calculated data. Journal of Engineering Physics, 1983, 44, 513-517.	0.0	1
20	Thermal mixing CO <sub>2</sub> -D <sub>2</sub> gasdynamic laser. Soviet Journal of Quantum Electronics, 1983, 13, 544-545.	0.1	1
21	DIELECTRIC DETECTOR OF INTENSIVE FLOWS OF X-RAY RADIATION. Problems of Atomic Science and Technology, Series Thermonuclear Fusion, 2018, 41, 70-74.	0.2	1
22	Analytic method of calculation of energy parameters of thermal gasdynamic lasers. Soviet Journal of Quantum Electronics, 1977, 7, 196-199.	0.1	0
23	Determination of the rate constants used in design calculations relating to low-temperature CO <sub>2</sub> -D <sub>2</sub> gasdynamic lasers. Soviet Journal of Quantum Electronics, 1983, 13, 251-252.	0.1	0
24	Continuous-wave CO <sub>2</sub> -Ar gasdynamic laser emitting at 18.4 $\mu$ m. Soviet Journal of Quantum Electronics, 1983, 13, 556-558.	0.1	0
25	Specific power output of a gasdynamic CO <sub>2</sub> laser with nozzles of wedge and contoured geometries. Journal of Engineering Physics, 1985, 48, 255-258.	0.0	0
26	Numerical analysis of the near field of ICRH antennas in a tokamak. Plasma Physics Reports, 2001, 27, 30-35.	0.9	0
27	Subsonic non-steady-state gas flows in channels with inner cavities. Journal of Experimental and Theoretical Physics, 2001, 92, 991-997.	0.9	0
28	ICRF heating in volumetric neutron source JUST-T for transmutation of minor actinides. Plasma Devices and Operations, 2005, 13, 185-192.	0.6	0
29	Experimental study and numerical simulation of ion cyclotron heating of a hydrogen plasma in the T-11M tokamak. Plasma Physics Reports, 2006, 32, 83-93.	0.9	0
30	On heat removal from the first-wall elements and warm toroidal field coils in the JUST-T tokamak. Plasma Devices and Operations, 2007, 15, 241-252.	0.6	0
31	Increase in the discharge duration under the action of ion-cyclotron plasma heating in the T-11M tokamak. Plasma Physics Reports, 2007, 33, 883-889.	0.9	0
32	Investigation of thermal efficiency of treatment with the radiation of a high-power ytterbium-based fibre laser. Welding International, 2011, 25, 305-308.	0.7	0
33	Efficiency of the process of two-beam deep penetration laser welding. Welding International, 2011, 25, 188-195.	0.7	0
34	Use of a Dielectric as a Sensitive Element of an X-Ray Detector. Instruments and Experimental Techniques, 2018, 61, 418-420.	0.5	0
35	Diamond Diode Structures Based on Homoepitaxial Films. Journal of Communications Technology and Electronics, 2018, 63, 828-834.	0.5	0
36	The Frenkel-Poole Effect in the Ionization of an Acceptor Impurity of Boron in Diamond in a Strong Electric Field. Journal of Communications Technology and Electronics, 2020, 65, 1336-1338.	0.5	0

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37	Electric field ionization of boron acceptors in single-crystalline diamond. Low Temperature Physics, 2021, 47, 75-78.	0.6	0
38	Dielectric Detector of Intense X-Ray Radiation Fluxes. Physics of Atomic Nuclei, 2019, 82, 1072-1075.	0.4	0