

Sergey Yu Sarkisov

List of Publications by Year in descending order

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papers

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623188

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all docs

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docs citations

49
times ranked

419
citing authors

#	ARTICLE	IF	CITATIONS
1	Large single crystals of gallium selenide: growing, doping by In and characterization. <i>Optical Materials</i> , 2004, 26, 495-499.	1.7	63
2	Growth, real structure and applications of GaSe $_{1-x}S_x$ crystals. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2006, 128, 205-210.	1.7	59
3	Modified GaSe crystal as a parametric frequency converter. <i>Applied Physics B: Lasers and Optics</i> , 2006, 82, 43-46.	1.1	54
4	SHG phase matching in GaSe and mixed GaSe $_{1-x}S_x$, $x=0.412$, crystals at room temperature. <i>Optics Express</i> , 2008, 16, 9951.	1.7	54
5	GaSe $_{1-x}S_x$ and GaSe $_{1-x}Te_x$ thick crystals for broadband terahertz pulses generation. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	45
6	Milliwatt-level mid-infrared (105–165 μm) difference frequency generation with a femtosecond dual-signal-wavelength optical parametric oscillator. <i>Optics Letters</i> , 2012, 37, 3513.	1.7	44
7	Growth and optical parameters of GaSe:Te crystals. <i>Russian Physics Journal</i> , 2010, 53, 346-352.	0.2	31
8	Charge neutrality level and electronic properties of GaSe under pressure. <i>Semiconductors</i> , 2010, 44, 1158-1166.	0.2	27
9	Structural, elastic and electronic properties of GaSe under biaxial and uniaxial compressive stress. <i>Journal of Physics and Chemistry of Solids</i> , 2013, 74, 1240-1248.	1.9	27
10	High-power femtosecond mid-IR sources for s-SNOM applications. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 094003.	1.0	24
11	Growth, chromium distribution and electrical properties of GaSe:Cr single crystals. <i>Materials Chemistry and Physics</i> , 2014, 146, 12-17.	2.0	22
12	Terahertz dielectric properties of multiwalled carbon nanotube/polyethylene composites. <i>Materials Research Express</i> , 2017, 4, 106201.	0.8	21
13	Broadband and narrowband terahertz generation and detection in GaSe $_{1-x}S_x$ crystals. <i>Journal of Optics (United Kingdom)</i> , 2017, 19, 115503.	1.0	16
14	Compact 1.64 THz source based on a dual-wavelength diode end-pumped Nd:YLF laser with a nearly semiconfocal cavity. <i>Laser Physics Letters</i> , 2014, 11, 015004.	0.6	15
15	Effect of van der Waals interactions on the structural and binding properties of GaSe. <i>Journal of Solid State Chemistry</i> , 2015, 232, 67-72.	1.4	12
16	GaSe crystals with antireflection coatings for terahertz generation. <i>Materials Research Express</i> , 2019, 6, 126201.	0.8	11
17	Optical properties of nonlinear solid solution GaSe $_{1-x}S_x$ ($0 \leq x < 0.4$) crystals. <i>Russian Physics Journal</i> , 2008, 51, 1083-1089.	0.2	10
18	Photoluminescence and terahertz generation in InGaN/GaN multiple quantum well light-emitting diode heterostructures under laser excitation. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 946-951.	0.7	8

#	ARTICLE	IF	CITATIONS
19	Transition-metal doping of semiconducting chalcopyrites: half-metallicity and magnetism. Journal of Physics Condensed Matter, 2007, 19, 016210.	0.7	7
20	Dipole antennas based on SI-GaAs:Cr for generation and detection of terahertz radiation. Russian Physics Journal, 2013, 55, 890-898.	0.2	7
21	Ab initio calculations of optical constants of GaSe and InSe layered crystals. Physics of the Solid State, 2015, 57, 1735-1740.	0.2	7
22	Optical Pumpâ€“Terahertz Probe Study of HR GaAs:Cr and SI GaAs:EL2 Structures with Long Charge Carrier Lifetimes. Photonics, 2021, 8, 575.	0.9	6
23	Electronic properties and influence of doping on GaSe crystal nonlinear optical parameters for the applications in terahertz range. Proceedings of SPIE, 2010, , .	0.8	5
24	<title>Doped GaSe nonlinear crystals</title> . , 2006, , .		3
25	GaSe1âˆ“x S x solid solutions. Russian Physics Journal, 2007, 50, 560-565.	0.2	3
26	GaSe<inf>1−x</inf>S<inf>x</inf> and GaSe<inf>1−x</inf>Te <inf>x</inf> solid solutions for terahertz generation and detection. , 2009, , .		3
27	Efficient terahertz generation in GaSe via eee-interaction type. , 2011, , .		2
28	Response to â€œComment on â€“GaSe1âˆ“xSx and GaSe1âˆ“xTex thick crystals for broadband terahertz pulses generationâ€™â€•[Appl. Phys. Lett. 100, 136103 (2012)]. Applied Physics Letters, 2012, 100, 136104.	1.5	2
29	Generation of Terahertz Radiation in LED Heterostructures with Multiple InGaN/GaN Quantum Wells at Two-Photon Excitation by Femtosecond. Russian Physics Journal, 2015, 58, 192-197.	0.2	2
30	Properties of Gallium Selenide Doped with Sulfur. Materials Research Society Symposia Proceedings, 2004, 829, 443.	0.1	1
31	Crystal structure and physical properties of GaSe single crystals annealed in sulfur atmosphere. Materials Research Society Symposia Proceedings, 2005, 891, 1.	0.1	1
32	GaSe<inf>1−x</inf>S<inf>x</inf> crystals for terahertz frequency range. , 2009, , .		1
33	Second harmonic oscillation produced by pumping GaSe and GaSe0.7S0.3 crystals with 10.6-Î¼m pulsed CO2 laser radiation. Russian Physics Journal, 2011, 53, 949-955.	0.2	1
34	Terahertz generation in GaSe0.71S0.29 and GaSe crystals via eee- and eoo-type optical rectification. , 2012, , .		1
35	Influence of Split-Ring Resonators on the Terahertz Transmission of a Planar Waveguide. Russian Physics Journal, 2015, 58, 562-566.	0.2	1
36	The visibility and stability of GaSe nanoflakes of about 50 layers on SiO₂/Si wafers. International Journal of Modern Physics B, 2021, 35, .	1.0	1

#	ARTICLE	IF	CITATIONS
37	Properties of gallium selenide doped with sulfur from melt and from gas phase. , 0, , .		0
38	Structure, Defects, Mechanical and Optical Properties of Hexagonal Semiconductor GaSe1-XSxSingle Crystals at 0X0.4. , 2007, , .		0
39	Study of GaSe<inf>1−x</inf>S<inf>x</inf> properties for terahertz applications. , 2009, , .		0
40	Doped GaSe crystals for optical frequency conversion in infrared and terahertz spectral ranges. , 2010, , .		0
41	Dipole radiators and receivers of terahertz radiation detectors based on GaAs, doped with Cr. , 2011, , .		0
42	Electromagnetic properties of MWCNT/PE composites at different levels of THz peak power. , 2013, , .		0
43	Terahertz emission from InGaN/GaN multiple quantum well light-emitting diode heterostructures under two-photon excitation. , 2014, , .		0
44	THz waveguide with a spit ring resonators layer. , 2014, , .		0
45	Second Harmonic Generation of Self-Mode-Locked ĐıĐž2-Laser Radiation in GaSe and GaSeS Crystals. Russian Physics Journal, 2014, 56, 1267-1273.	0.2	0
46	A comparison of terahertz electro-optic sampling in ZnTe, ZnSe, GaP and GaSe<inf>1&#x2212;x</inf>S<inf>x</inf> crystals. , 2015, , .		0
47	The optical properties of 9 MeV electron irradiated GaSe crystals. , 2015, , .		0
48	Terahertz dielectric properties of MWCNT/PE composites. , 2016, , .		0
49	Single-wall carbon nanotubes oriented by gas flow at synthesis by aerosol CVD method as terahertz polarizers. , 2016, , .		0