## Sergei A Tarelkin

## List of Publications by Year in Descending Order

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561 13 47 22 h-index g-index citations papers 682 2.2 51 3.57 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
47	Carbon nanotube cloth as a promising electrode material for flexible aqueous supercapacitors.  Journal of Applied Electrochemistry, 2022, 52, 487-498	2.6	1
46	Near-far IR photoconductivity damping in hyperdoped Si at low temperatures. <i>Optical Materials Express</i> , <b>2021</b> , 11, 3792	2.6	2
45	Electrical properties and deep trap spectra in Ga2O3 films grown by halide vapor phase epitaxy on p-type diamond substrates. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 185701	2.5	6
44	Two-Step Reactive Ion Etching Process for Diamond-Based Nanophotonics Structure Formation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2000206	1.6	1
43	Optimization of the coherence properties of diamond samples with an intermediate concentration of NV centers. <i>Results in Physics</i> , <b>2021</b> , 21, 103845	3.7	6
42	Intracenter dipole transitions of a hydrogen-like boron acceptor in diamond: Oscillator strengths and line broadening. <i>Diamond and Related Materials</i> , <b>2021</b> , 120, 108629	3.5	0
41	Mid-IR-Sensitive n/p-Junction Fabricated on p-Type Si Surface via Ultrashort Pulse Laser n-Type Hyperdoping and High-Temperature Annealing. <i>ACS Applied Electronic Materials</i> , <b>2021</b> , 3, 769-777	4	1
40	High-Pressure High-Temperature Single-Crystal Diamond Type IIa Characterization for Particle Detectors. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2020</b> , 217, 1900888	1.6	1
39	Spatially controlled fabrication of single NV centers in IIa HPHT diamond. <i>Optical Materials Express</i> , <b>2020</b> , 10, 198	2.6	12
38	Electronic band structure of phosphorus-doped single crystal diamond: Dynamic Jahn-Teller distortion of the tetrahedral donor ground state. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
37	Large substitutional impurity isotope shift in infrared spectra of boron-doped diamond. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	1
36	Raman Scattering of Quasi-Single-Photon Pulses in Pumped Fiber. Semiconductors, <b>2020</b> , 54, 966-968	0.7	
35	Ultrawide-Bandgap p-n Heterojunction of Diamond/EGa2O3 for a Solar-Blind Photodiode. <i>ECS Journal of Solid State Science and Technology</i> , <b>2020</b> , 9, 045004	2	20
34	Dynamics of infrared excitations in boron doped diamond. <i>Diamond and Related Materials</i> , <b>2019</b> , 92, 25	9-32-65	3
33	Deep trap analysis in green light emitting diodes: Problems and solutions. <i>Journal of Applied Physics</i> , <b>2019</b> , 125, 215701	2.5	5
32	Low Temperature Thermal Conductivity of Heavily Boron-Doped Synthetic Diamond: Influence of Boron-Related Structure Defects. <i>Journal of Superhard Materials</i> , <b>2019</b> , 41, 24-31	0.9	5
31	Testing of a Prototype Detector of Heavy Charged Particles Based on Diamond Epitaxial Films Obtained by Gas-Phase Deposition. <i>Instruments and Experimental Techniques</i> , <b>2019</b> , 62, 473-479	0.5	O

## (2016-2019)

30	Nonvertical Sidewall Angle Influence on the Efficiency of Diamond-on-Insulator Grating Couplers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2019</b> , 216, 1900271	1.6	1	
29	High power density nuclear battery prototype based on diamond Schottky diodes. <i>Diamond and Related Materials</i> , <b>2018</b> , 84, 41-47	3.5	41	
28	Superconductivity, Magnetoresistance, Magnetic Anomaly and Crystal Structure of New Phases of Topological Insulators Bi2Se3and Sb2Te3. <i>Journal of Physics: Conference Series</i> , <b>2018</b> , 969, 012152	0.3	2	
27	Compensation and persistent photocapacitance in homoepitaxial Sn-doped EGa2O3. <i>Journal of Applied Physics</i> , <b>2018</b> , 123, 115702	2.5	57	
26	Diamond Microstructuring by Deep Anisotropic Reactive Ion Etching. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2018</b> , 215, 1800273	1.6	9	
25	Electrical Properties of Bulk, Non-Polar, Semi-Insulating M-GaN Grown by the Ammonothermal Method. <i>ECS Journal of Solid State Science and Technology</i> , <b>2018</b> , 7, P260-P265	2	11	
24	Electrical Properties of High-Quality Synthetic Boron-Doped Diamond Single Crystals and Schottky Barrier Diodes on Their Basis. <i>Inorganic Materials</i> , <b>2018</b> , 54, 1469-1476	0.9	1	
23	Thin large area vertical Schottky barrier diamond diodes with low on-resistance made by ion-beam assisted lift-off technique. <i>Diamond and Related Materials</i> , <b>2017</b> , 75, 78-84	3.5	19	
22	Structural, electrical and luminescent characteristics of ultraviolet light emitting structures grown by hydride vapor phase epitaxy. <i>Modern Electronic Materials</i> , <b>2017</b> , 3, 32-39	0.3		
21	Using electron backscatter diffraction to investigate the influence of mechanical polishing on the state of the surface of diamond. <i>Journal of Surface Investigation</i> , <b>2017</b> , 11, 125-129	0.5	3	
20	Defects responsible for lifetime degradation in electron irradiated n-GaN grown by hydride vapor phase epitaxy. <i>Applied Physics Letters</i> , <b>2017</b> , 110, 112102	3.4	21	
19	Evidence of linear Zeeman effect for infrared intracenter transitions in boron doped diamond in high magnetic fields. <i>Diamond and Related Materials</i> , <b>2017</b> , 75, 52-57	3.5	4	
18	Degradation-induced low frequency noise and deep traps in GaN/InGaN near-UV LEDs. <i>Applied Physics Letters</i> , <b>2017</b> , 111, 062103	3.4	13	
17	Thermal conductivity of synthetic boron-doped single-crystal HPHT diamond from 20 to 400 K. <i>MRS Communications</i> , <b>2016</b> , 6, 71-76	2.7	12	
16	Electrical Properties of Diamond Platinum Vertical Schottky Barrier Diodes. <i>Materials Today: Proceedings</i> , <b>2016</b> , 3, S159-S164	1.4	3	
15	Isothermal sections of Tm-Ag-Sn and Lu-Ag-Sn ternary systems at 873IK. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 688, 828-839	5.7	1	
14	Comparative study of different metals for Schottky barrier diamond betavoltaic power converter by EBIC technique. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2016</b> , 213, 2492-2497	1.6	15	
13	Deep traps determining the non-radiative lifetime and defect band yellow luminescence in n-GaN. <i>Journal of Alloys and Compounds</i> , <b>2016</b> , 686, 1044-1052	5.7	24	

12	Studies of deep level centers determining the diffusion length in epitaxial layers and crystals of undoped n-GaN. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 205109	2.5	23
11	Heat capacity of bulk boron-doped single-crystal HPHT diamonds in the temperature range from 2 to 400 K. <i>Journal of Superhard Materials</i> , <b>2016</b> , 38, 412-416	0.9	4
10	Electron traps as major recombination centers in n-GaN films grown by metalorganic chemical vapor deposition. <i>Applied Physics Express</i> , <b>2016</b> , 9, 061002	2.4	13
9	Power high-voltage and fast response Schottky barrier diamond diodes. <i>Diamond and Related Materials</i> , <b>2015</b> , 57, 32-36	3.5	53
8	Superconductivity in bulk polycrystalline metastable phases of Sb 2 Te 3 and Bi 2 Te 3 quenched after high-pressureligh-temperature treatment. <i>Chemical Physics Letters</i> , <b>2015</b> , 631-632, 97-102	2.5	14
7	Transport properties of nanocomposite thermoelectric materials based on Si and Ge. <i>Physics of the Solid State</i> , <b>2015</b> , 57, 605-612	0.8	4
6	Power diamond vertical Schottky barrier diode with 10 A forward current. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2015</b> , 212, 2621-2627	1.6	28
5	Photoluminescence enhancement by localized surface plasmons in AlGaN/GaN/AlGaN double heterostructures. <i>Physica Status Solidi - Rapid Research Letters</i> , <b>2015</b> , 9, 575-579	2.5	4
4	Development of nuclear microbattery prototype based on Schottky barrier diamond diodes. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2015</b> , 212, 2539-2547	1.6	49
3	Weak superconductivity in the surface layer of a bulk single-crystal boron-doped diamond. <i>Europhysics Letters</i> , <b>2014</b> , 108, 67014	1.6	7
2	Electrical properties of the high quality boron-doped synthetic single-crystal diamonds grown by the temperature gradient method. <i>Diamond and Related Materials</i> , <b>2013</b> , 35, 19-23	3.5	57
1	Hopping carrier transport in epitaxial V:TiO2 [k layers. Semiconductors, 2012, 46, 1589-1592	0.7	1