S V Mironov

List of Publications by Year
in descending order

46	766	471061 17	552369 26
papers	citations	h-index	g-index

46	46	46	549
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Optical manipulation of single flux quanta. Nature Communications, 2016, 7, 12801.	5.8	65
2	Vanishing Meissner effect as a Hallmark of inâ€“Plane Fulde-Ferrell-Larkin-Ovchinnikov Instability in Superconductorâ€“Ferromagnet Layered Systems. Physical Review Letters, 2012, 109, 237002.	2.9	57
3	Triplet proximity effect in superconducting heterostructures with a half-metallic layer. Physical Review B, 2015, 92, .	1.1	56
4	Octonic representation of electromagnetic field equations. Journal of Mathematical Physics, 2009, 50, 012901.	0.5	55
5	Spontaneous Currents in Superconducting Systems with Strong Spin-Orbit Coupling. Physical Review Letters, 2017, 118, 077001.	2.9	42
6	Electromagnetic proximity effect in planar superconductor-ferromagnet structures. Applied Physics Letters, 2018, 113, .	1.5	42
7	Double Path Interference and Magnetic Oscillations in Cooper Pair Transport through a Single Nanowire. Physical Review Letters, 2015, 114, 227001.	2.9	35
8	Direct Evidence of Flexomagnetoelectric Effect Revealed by Single-Molecule Spectroscopy. Physical Review Letters, 2015, 115, 027601.	2.9	30
9	Theory of Magnetic Domain Phases in Ferromagnetic Superconductors. Physical Review Letters, 2019, 122, 117002.	2.9	27
10	OCTONIC FIRST-ORDER EQUATIONS OF RELATIVISTIC QUANTUM MECHANICS. International Journal of Modern Physics A, 2009, 24, 4157-4167.	0.5	25
11	Electromagnetic proximity effect controlled by spin-triplet correlations in superconducting spin-valve structures. Physical Review B, 2019, 99, .	1.1	22
12	Octonic second-order equations of relativistic quantum mechanics. Journal of Mathematical Physics, 2009, 50, 012302.	0.5	21
13	Temperature Controlled Fulde-Ferrell-Larkin-Ovchinnikov Instability in Superconductor-Ferromagnet Hybrids. Physical Review Letters, 2018, 121, 077002.	2.9	20
14	Sedeonic Equations of Massive Fields. International Journal of Theoretical Physics, 2015, 54, 153-168.	0.5	19
15	Anomalous Josephson effect controlled by an Abrikosov vortex. Physical Review B, 2017, 96, .	1.1	19
16	Reformulation of Relativistic Quantum Mechanics Equations with Non-Commutative Sedeons. Applied Mathematics, 2013, 04, 53-60.	0.1	18
17	SEDEONIC GENERALIZATION OF RELATIVISTIC QUANTUM MECHANICS. International Journal of Modern Physics A, 2009, 24, 6237-6254.	0.5	17
18	Standard, inverse, and triplet spin-valve effects inF1/S/F2systems. Physical Review B, 2014, 89, .	1.1	17

#	Article	IF	Citations
19	Spin-orbit coupling suppression and singlet-state blocking of spin-triplet Cooper pairs. Science Advances, 2021, 7, .	4.7	14
20	Inverse Faraday Effect for Superconducting Condensates. Physical Review Letters, 2021, 126, 137002.	2.9	13
21	Sedeonic Equations of Gravitoelectromagnetism. Journal of Modern Physics, 2014, 05, 917-927.	0.3	13
22	Spin-valve effect in superconductor/ferromagnet/ferromagnet and ferromagnet/superconductor/ferromagnet structures of atomic thickness. Physical Review B, 2017, 95, .	1.1	11
23	Phase transitions in superconductor/ferromagnet bilayer driven by spontaneous supercurrents. Physical Review B, 2021, 103, .	1.1	11
24	In-situ creation and control of Josephson junctions with a laser beam. Applied Physics Letters, 2019, 114, .	1.5	10
25	Gauge Invariance of Sedeonic Equations for Massive and Massless Fields. International Journal of Theoretical Physics, 2016, 55, 3105-3119.	0.5	9
26	Generalized sedeonic equations of hydrodynamics. European Physical Journal Plus, 2020, 135, 1.	1.2	9
27	Electromagnetic Proximity Effect and the Fuldeâ€“Ferrellâ€“Larkinâ€“Ovchinnikov Instability in Hybrid Superconductorâ€“Ferromagnet Structures (Brief Review). JETP Letters, 2021, 113, 92-101.	0.4	9
28	Effective model for a short Josephson junction with a phase discontinuity. Physical Review B, 2016, 93, .	1.1	8
29	Sedeonic Field Equations for Dyons. Advances in Applied Clifford Algebras, 2018, 28, 1.	0.5	8
30	Magnetic flux pumping in superconducting loop containing a Josephson Ï^ junction. Applied Physics Letters, 2020, 116, 162601.	1.5	8
31	Sedeonic Equations in Field Theory. Advances in Applied Clifford Algebras, 2020, 30, 1.	0.5	7
32	Sedeonic equations of ideal fluid. Journal of Mathematical Physics, 2017, 58, 083101.	0.5	6
33	Giant demagnetization effects induced by superconducting films. Applied Physics Letters, 2021, 119, .	1.5	6
34	Spontaneous Currents and Topologically Protected States in Superconducting Hybrid Structures with the Spinâ€“Orbit Coupling (Brief Review). JETP Letters, 2021, 113, 34-46.	0.4	6
35	Dephasing time and magnetoresistance of two-dimensional electron gas in spatially modulated magnetic fields. Physical Review B, 2010, 81, .	1.1	4
36	Photoinduced Local Nonequilibrium States in Superconductors: Hot Spot Model. JETP Letters, 2018, 108, 270-278.	0.4	4

#	Article	IF	Citations
37	Two Types of Lorentz Transformations for Massless Fields. Journal of Geometry and Symmetry in Physics, 2017, 44, 83-96.	0.1	4
38	Collective magnetic and plasma excitations in Josephson Ï^ junctions. Physical Review B, 2021, 104, .	1.1	4
39	Magnetic mapping of defects in type-II superconductors. Applied Physics Letters, 2016, 108, .	1.5	3
40	Crossover between standard and inverse spin-valve effect in atomically thin superconductor/half-metal structures. Physical Review B, 2019, 100, .	1.1	3
41	Stable non-singular cosmologies in beyond Horndeski theory and disformal transformations. International Journal of Modern Physics A, 0, , .	0.5	3
42	Effect of spin-triplet correlations on Josephson transport in atomically thin superconductor/half-metal/superconductor structures. Physical Review B, 2021, 103, .	1.1	2
43	Giant electromagnetic proximity effect in superconductor/ferromagnet superlattices. Physical Review B, 2022, 105, .	1.1	2
44	Fluctuations in a mesoscopic superconducting ring: Resonant behavior of conductivity and specific heat in the two-mode critical regime. Physical Review B, 2011, 84, .	1.1	1
45	Penetration of the magnetic field into the twinning plane in type-I and -II superconductors. Physical Review B, 2012, 86, .	1.1	1
46	Anisotropy and effective dimensionality crossover of the fluctuation conductivity of hybrid superconductor/ferromagnet structures. Physical Review B, 2012, 86, .	1.1	0