

# Semyon Bobin

## List of Publications by Year in descending order

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10  
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1937685

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#	ARTICLE	IF	CITATIONS
1	Peculiar behavior of magnetoresistance in HgSe single crystal with low electron concentration. Applied Physics Letters, 2018, 112, 082101.	3.3	10
2	Observation of quantum topological Hall effect in the Weyl semimetal candidate HgSe. Journal of Physics Condensed Matter, 2019, 31, 405706.	1.8	8
3	Nontrivial topology of bulk HgSe from the study of cyclotron effective mass, electron mobility and phase shift of Shubnikov-de Haas oscillations. Journal of Physics Condensed Matter, 2019, 31, 115701.	1.8	8
4	Laser Pump-Probe Fiber-Optic Technique for Characterization of Near-Surface Layers of Solids: Development and Application Prospects for Studying Semiconductors and Weyl Semimetals. Annalen Der Physik, 2020, 532, 1900586.	2.4	6
5	New data and developments pertaining to ideas about the electron system of hybridized states of cobalt impurity atoms in a mercury selenide crystal. Low Temperature Physics, 2017, 43, 508-514.	0.6	4
6	Revealing the low-temperature effect of strengthening the magnetism of iron-vanadium-aluminum alloy upon small variation of the non-transition element content in the stoichiometric composition. Low Temperature Physics, 2016, 42, 230-231.	0.6	3
7	Thermodynamic anomalous Hall effect in quantum oscillation regime in a semiconductor with low concentration of transition element impurities. Journal of Magnetism and Magnetic Materials, 2017, 440, 2-4.	2.3	2
8	Experimental detection of quantum oscillations of anomalous Hall resistance in mercury selenide crystals with cobalt impurities. Low Temperature Physics, 2017, 43, 504-507.	0.6	2
9	Large linear magnetoresistance in single HgSe crystals induced by low-concentration Co impurity. Applied Physics Letters, 2021, 118, .	3.3	2
10	Observation of manifestations of spontaneous magnetization currents in the crystals of HgSe with low concentration impurities of 3d-transition metal. Technical Physics Letters, 2017, 43, 57-60.	0.7	0