

Anatoly Druzhinin

List of Publications by Year in descending order

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75
papers

606
citations

471509

17
h-index

713466

21
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75
all docs

75
docs citations

75
times ranked

137
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-temperature semiconductor mechanical sensors. <i>Sensors and Actuators A: Physical</i> , 2000, 85, 153-157.	4.1	36
2	Strain-induced effects in p-type Si whiskers at low temperatures. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 766-771.	4.0	27
3	Medical pressure sensors on the basis of silicon microcrystals and SOI layers. <i>Sensors and Actuators B: Chemical</i> , 1999, 58, 415-419.	7.8	25
4	Strain effect on magnetoresistance of SiGe solid solution whiskers at low temperatures. <i>Materials Science in Semiconductor Processing</i> , 2011, 14, 18-22.	4.0	24
5	Silicon Nanostructures Produced by Modified MacEtch Method for Antireflective Si Surface. <i>Nanoscale Research Letters</i> , 2017, 12, 106.	5.7	23
6	Low temperature magnetoresistance of InSb whiskers. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 550-555.	4.0	21
7	Variable-range hopping conductance in Si whiskers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014, 211, 504-508.	1.8	20
8	Magneto-transport properties of poly-silicon in SOI structures at low temperatures. <i>Materials Science in Semiconductor Processing</i> , 2015, 31, 19-26.	4.0	20
9	Properties of Low-Dimensional Polysilicon in SOI Structures for Low Temperature Sensors. <i>Advanced Materials Research</i> , 2013, 854, 49-55.	0.3	19
10	Magnetic susceptibility and magnetoresistance of neutron-irradiated doped SI whiskers. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 393, 310-315.	2.3	19
11	Negative magnetoresistance in indium antimonide whiskers doped with tin. <i>Low Temperature Physics</i> , 2016, 42, 453-457.	0.6	19
12	Micro- and Nanotextured Silicon for Antireflective Coatings of Solar Cells. <i>Journal of Nano Research</i> , 2016, 39, 89-95.	0.8	19
13	Magnetic Properties of Doped Si_{1-x}B_x Whiskers for Spintronics. <i>Journal of Nano Research</i> , 2016, 39, 43-54.	0.8	18
14	Properties of Doped GaSb Whiskers at Low Temperatures. <i>Nanoscale Research Letters</i> , 2017, 12, 156.	5.7	18
15	High Sensitive Active MOS Photo Detector on the Local 3D SOI-Structure. <i>Advanced Materials Research</i> , 2013, 854, 45-47.	0.3	17
16	Impedance spectroscopy of polysilicon in SOI structures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014, 11, 156-159.	0.8	17
17	Peculiarities of magnetoresistance in InSb whiskers at cryogenic temperatures. <i>Materials Research Bulletin</i> , 2015, 72, 324-330.	5.2	17
18	Low-temperature magnetoresistance of GaSb whiskers. <i>Low Temperature Physics</i> , 2017, 43, 692-698.	0.6	17

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19	Laser-recrystallized polysilicon layers in sensors. <i>Sensors and Actuators A: Physical</i> , 1992, 30, 143-147.	4.1	16
20	Investigation of Si-Ge whisker growth by CVD. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 333-336.	0.8	16
21	Polysilicon on Insulator Structures for Sensor Application at Electron Irradiation & Magnetic Fields. <i>Advanced Materials Research</i> , 2011, 276, 109-116.	0.3	16
22	Nanoscale Conductive Channels in Silicon Whiskers with Nickel Impurity. <i>Nanoscale Research Letters</i> , 2017, 12, 78.	5.7	16
23	Magnetic Susceptibility of Doped Si Nanowhiskers. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 8690-8693.	0.9	15
24	Study of piezoresistance in $GexSi_{1-x}$ whiskers for sensor application. <i>Materials Science in Semiconductor Processing</i> , 2005, 8, 193-196.	4.0	12
25	Berry phase in strained InSb whiskers. <i>Low Temperature Physics</i> , 2018, 44, 1189-1194.	0.6	12
26	Spin-related phenomena in nanoscale Si $\langle \text{B}, \text{Ni} \rangle$ whiskers. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 473, 331-334.	2.3	11
27	Fabrication and Characterization of High-Performance Anti-reflecting Nanotextured Si Surfaces for Solar Cells. <i>Springer Proceedings in Physics</i> , 2018, , 275-283.	0.2	10
28	GaSb whiskers in sensor electronics. <i>Functional Materials</i> , 2016, 23, 206-211.	0.1	9
29	Thermoelectric properties of $Si_{1-x}Ge_x$ whiskers. <i>Materials Science in Semiconductor Processing</i> , 2006, 9, 853-857.	4.0	8
30	Superconductivity and Kondo Effect of $Pd_xBi_2Se_3$ Whiskers at Low Temperatures. <i>Journal of Nano- and Electronic Physics</i> , 2017, 9, 05013-1-05013-5.	0.5	8
31	Si and Si-Ge wires for thermoelectrics. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2011, 8, 867-870.	0.8	7
32	Impedance of boron and nickel doped silicon whiskers. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 661, 12-19.	0.9	7
33	Superconductivity and weak localization of $Pd_xBi_2Se_3$ whiskers at low temperatures. <i>Applied Nanoscience (Switzerland)</i> , 2018, 8, 877-883.	3.1	6
34	Nanoscale polysilicon in sensors of physical values at cryogenic temperatures. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 8364-8370.	2.2	6
35	Formation of Ordered Si Nanowires Arrays on Si Substrate. <i>Advanced Materials Research</i> , 0, 854, 83-88.	0.3	5
36	Development of anti-reflecting surfaces based on Si micropyramids and wet-chemically etched Si nanowire arrays. <i>Functional Materials</i> , 2018, 25, 675-680.	0.1	5

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37	3D SOI Elements for System-on-Chip Applications. <i>Advanced Materials Research</i> , 2011, 276, 137-144.	0.3	4
38	Spin-orbit interaction in InSb core-shell wires. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 674, 1-10.	0.9	4
39	Role of Ag-catalyst morphology and molarity of AgNO ₃ on the size control of Si nanowires produced by metal-assisted chemical etching. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 674, 69-75.	0.9	4
40	Rashba Interaction in Polysilicon Layers SemOI-Structures. <i>Journal of Electronic Materials</i> , 2019, 48, 4934-4938.	2.2	4
41	Superconductivity and weak anti-localization in GaSb whiskers under strain. <i>Low Temperature Physics</i> , 2019, 45, 1065-1071.	0.6	4
42	Physical aspects of multifunctional sensors based on piezothermomagnetic effects in semiconductors. <i>Sensors and Actuators A: Physical</i> , 1998, 68, 229-233.	4.1	3
43	Investigation of free and strained germanium whiskers at cryogenic temperatures. , 2001, 4413, 143.		3
44	Modification of silicon surface for solar cells. , 2015, , .		3
45	The spin-resolved electronic structure of doped crystals Si_{1-x}Ni_x and Si_{1-x}B, Ni: theoretical and experimental aspects. <i>Molecular Crystals and Liquid Crystals</i> , 2018, 674, 120-129.	0.9	3
46	Thermoelectric Properties of Oblique SiGe Whiskers. <i>Journal of Nano- and Electronic Physics</i> , 2016, 8, 02030-1-02030-5.	0.5	3
47	Quantization in magnetoresistance of strained InSb whiskers. <i>Low Temperature Physics</i> , 2019, 45, 513-517.	0.6	2
48	Strain-Induced Berry Phase in GaSb Microcrystals. <i>Journal of Low Temperature Physics</i> , 2019, 196, 375-385.	1.4	2
49	Spin-orbit coupling in strained Ge whiskers. <i>Low Temperature Physics</i> , 2019, 45, 1182-1186.	0.6	2
50	Peculiarities of charge carriers transport in submicron Si-Ge whiskers. <i>Functional Materials</i> , 2015, 22, 27-33.	0.1	2
51	Weak Antilocalization Model of N-Type Bi ₂ Se ₃ Whiskers. , 2018, , .		1
52	Quantum magnetoresistance in Si <math>\\</math>, Ni<math>\\</math> whiskers. <i>Low Temperature Physics</i> , 2021, 47, 488-492.	0.6	1
53	FEM model of thermoelectric sensor sensitive element based on silicon whiskers. , 0, , .		0
54	Composition and Electrical Properties of Hg x Cd _{1-x} S Whiskers. <i>Inorganic Materials</i> , 2002, 38, 336-338.	0.8	0

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55	Alternating Current Converter. , 2006, , .		0
56	Properties of SiGe microcrystals in strong magnetic fields for thermoelectric sensors. , 2016, , .		0
57	The frequency dependence features of Si whiskers conductance in low-temperature range. , 2016, , .		0
58	Silicon nanostructures formed by metal-assisted chemical etching for electron field emission cathodes. , 2016, , .		0
59	Antireflective properties of silicon modified by electrochemical and chemical methods. , 2016, , .		0
60	Electrical and layouts simulation of analytical microsystem-on-chip elements for high frequency and low temperature applications. , 2016, , .		0
61	Magnetoresistance oscillations in germanium and indium antimonide whiskers. , 2016, , .		0
62	Components of micro- and nanoelectronics based on silicon structures for cryogenic temperatures. , 2016, , .		0
63	Thermoelectric properties of SiGe whiskers with various morphology. , 2017, , .		0
64	Deformation characteristics of SOI structures at cryogenic temperatures. , 2017, , .		0
65	Peculiarities of magnetoresistance in Si whiskers doped Ni at cryogenic temperatures. , 2017, , .		0
66	The effect of hydrostatic pressure on the indium antimonide thin films. , 2017, , .		0
67	Magnetoresistance oscillations in InSb and GaSb whiskers at low temperatures. , 2017, , .		0
68	Magnetoresistance of doped Te:GaSb whiskers. , 2017, , .		0
69	Spin-Dependent Transport of Charge Carriers in Silicon Microcrystals Doped with Boron and Diluted with Nickel. , 2018, , .		0
70	Studies piezoresistive properties of n-type conductivity indium antimonide thin layers. , 2018, , .		0
71	3D MOS-transistor elements in smart-sensors based on SOI-structures. , 2018, , .		0
72	MSoC device based on SOI-structures. , 2018, , .		0

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73	Magneto-transport properties of Bi ₂ Se ₃ whiskers: superconductivity and weak localization. Molecular Crystals and Liquid Crystals, 2020, 701, 82-90.	0.9	0
74	Strain-induced splitting in valence band of Si-Ge whiskers. Applied Nanoscience (Switzerland), 0, , 1.	3.1	0
75	Critical fields and features of electromagnetic transport of Bi ₂ Se ₃ whiskers at low temperatures. Low Temperature Physics, 2021, 47, 96-100.	0.6	0