Jan Grym

List of Publications by Year
in descending order

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76	555	623574	752573
papers	citations	14 h-index	20 g-index

77	77	77	588
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temperature sensing down to 4 K with erbium-doped tellurite glasses. Journal of Non-Crystalline Solids, 2022, 575, 121183.	1.5	3
2	Focused ion beam assisted prototyping of graphene/ZnO devices on Zn-polar and O-polar faces of ZnO bulk crystals. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 136, 115006.	1.3	2
3	On the nature of doping effect of methane in ZnO thin films deposited by RF-magnetron sputtering. Journal of Materials Science: Materials in Electronics, 2022, 33, 6421.	1.1	2
4	Tunable visible emission in nanostructured thin films and bulk ZnO. Journal of Sol-Gel Science and Technology, 2022, 102, 447-453.	1.1	1
5	Luminescence, up-conversion and temperature sensing in Er-doped TeO2-PbCl2-WO3 glasses. Journal of Non-Crystalline Solids, 2021, 553, 120287.	1.5	10
6	Influence of Surface Polarity on Optoelectronic Properties of PEDOT:PSS/ZnO Hybrid Heterojunctions. Physica Status Solidi (A) Applications and Materials Science, 2021, 218, 2000612.	0.8	4
7	Structure, Optical and Electrical Properties of the High Doped ZnO Thin Films Deposited By RF Magnetron Sputtering of Powder Target in Methane Ambient. ECS Meeting Abstracts, 2021, MA2021-01, 1083-1083.	0.0	0
8	ZnO nanorods-PANI heterojunction dielectric, electrochemical properties, and photodegradation study of organic pollutant under solar light. International Journal of Hydrogen Energy, 2021, 46, 20893-20904.	3.8	18
9	Chemiresistors Based on Li-Doped CuOâ€“TiO2 Films. Chemosensors, 2021, 9, 246.	1.8	3
10	Synthesis of Cuâ€“Ti thin film multilayers on silicon substrates. Bulletin of Materials Science, 2021, 44, 1.	0.8	4
11	Chemical vapor deposition of germanium-rich CrGe_x nanowires. Beilstein Journal of Nanotechnology, 2021, 12, 1365-1371.	1.5	0
12	Optical and electrical characterization of CuO/ZnO heterojunctions. Thin Solid Films, 2020, 693, 137656.	0.8	24
13	The improvement of UV photodetection based on polymer/ZnO nanorod heterojunctions. Organic Electronics, 2020, 77, 105545.	1.4	28
14	Electrical properties of nanoscale p-n heterojunctions formed between a single ZnO nanorod and GaN substrate. Materials Science in Semiconductor Processing, 2020, 107, 104808.	1.9	7
15	New Insights towards High-Temperature Ethanol-Sensing Mechanism of ZnO-Based Chemiresistors. Sensors, 2020, 20, 5602.	2.1	13
16	Multilayered Cuâ€“Ti deposition on silicon substrates for chemiresistor applications. Phosphorus, Sulfur and Silicon and the Related Elements, 2020, 195, 932-935.	0.8	3
17	Spectroscopic properties of nanostructured molybdenum oxysulfide deposits fabricated by MoO3 evaporation in H2S. Materials Letters, 2020, 275, 128075.	1.3	1
18	Modeling of Solution Growth of ZnO Hexagonal Nanorod Arrays in Batch Reactors. Crystal Growth and Design, 2020, 20, 3347-3357.	1.4	10

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19	Highly Rectifying Heterojunctions Formed by Annealed ZnO Nanorods on GaN Substrates. Nanomaterials, 2020, 10, 508.	1.9	7
20	Influence of Crystallographic Orientation on Schottky Barrier Formation in Gallium Oxide. Journal of Electronic Materials, 2020, 49, 5133-5137.	1.0	14
21	Homogeneous Resistive Switching in Individual ZnO Nanorod p-n Junctions. , 2019, , .		0
22	Highly Textured Seed Layers for the Growth of Vertically Oriented ZnO Nanorods. Crystals, 2019, 9, 566.	1.0	7
23	Characterization of Graphite/ZnO Schottky Barriers Formed on Polar and Nonpolar ZnO Surfaces. Physica Status Solidi (A) Applications and Materials Science, 2019, 216, 1800734.	0.8	7
24	Electrical and Optical Properties of Rectifying ZnO Homojunctions Fabricated by Wet Chemistry Methods. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1700592.	0.8	12
25	Electrical Characterization of Graphite/InP Schottky Diodes by Iâ€“Vâ€“T and Câ€“V Methods. Journal of Electronic Materials, 2018, 47, 4950-4954.	1.0	5
26	Influence of the Interaction Between Graphite and Polar Surfaces of ZnO on the Formation of Schottky Contact. Journal of Electronic Materials, 2018, 47, 5002-5006.	1.0	5
27	Understanding of the Charge Origin in Nonpolar Suspensions to Control the Formation of Platinum Nanoparticle Monolayers by Electrophoretic Deposition. ECS Transactions, 2018, 82, 33-38.	0.3	0
28	Seed Layers for the Growth of Oriented Vertical Arrays of ZnO Nanorods. ECS Transactions, 2018, 82, 39-44.	0.3	4
29	Preparation and characterization of a poly (1, 4-phenylenevinylene) derivative-based hybrid thin film nanocomposites with enhanced performance. Journal of Physics and Chemistry of Solids, 2018, 116, 15-21.	1.9	2
30	PPV derivative/ZnO nanorods heterojunction: Fabrication, Characterization and Near-UV light sensor development. Materials Research Bulletin, 2018, 106, 28-34.	2.7	15
31	Graphite/SiC junctions and their electrical characteristics. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700143.	0.8	4
32	Insight into Nanoparticle Charging Mechanism in Nonpolar Solvents To Control the Formation of Pt Nanoparticle Monolayers by Electrophoretic Deposition. ACS Applied Materials & Interfaces, 2016, 8, 19680-19690.	4.0	10
33	Well-aligned ZnO nanorods grown directly on GaN substrates for optoelectronic applications. , 2016, , .		0
34	Hollow target for efficient generation of fast ions by ultrashort laser pulses. Physics of Plasmas, 2016, 23, .	0.7	8
35	Room temperature hydrogen sensing with the graphite/ZnO nanorod junctions decorated with Pt nanoparticles. Solid-State Electronics, 2016, 116, 124-129.	0.8	20
36	Luminescence properties of hydrothermally grown ZnO nanorods. Superlattices and Microstructures, 2016, 99, 214-220.	1.4	31

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37	Elastic constants of nanoporous III-V semiconductors. Journal Physics D: Applied Physics, 2015, 48, 245102.	1.3	5
38	The effect of surface morphology of ZnO nanorods on the sensing response of graphite/ZnO nanorod junctions. , 2015, , .		0
39	Graphite/ZnO nanorods junction for ultraviolet photodetectors. Solid-State Electronics, 2015, 105, 70-73.	0.8	27
40	Electrophoretic Deposition of Metal Nanoparticle Monolayers from Nonpolar Solvents for Hydrogen Sensing. Key Engineering Materials, 2015, 654, 213-217.	0.4	1
41	Graphite/CdMnTe Schottky diodes and their electrical characteristics. Semiconductor Science and Technology, 2014, 29, 015006.	1.0	17
42	Transport properties of metalâ€“semiconductor junctions on n-type InP prepared by electrophoretic deposition of Pt nanoparticles. Semiconductor Science and Technology, 2014, 29, 045017.	1.0	15
43	Electrical and optical properties of graphite/ZnO nanorods heterojunctions. Carbon, 2014, 77, 1011-1019.	5.4	24
44	Misfit dislocation reduction in InGaAs epilayers grown on porous GaAs substrates. Applied Surface Science, 2014, 306, 89-93.	3.1	8
45	Epitaxial growth on porous GaAs substrates. Comptes Rendus Chimie, 2013, 16, 59-64.	0.2	9
46	High-resolution X-ray diffraction and electron microscopy study of porous GaAs substrates. Proceedings of SPIE, 2013, , .	0.8	0
47	Detection of hydrogen at room temperature with graphite-Pt nanoparticles/Si Schottky diodes. , 2013, , .		0
48	Schottky barriers based on metal nanoparticles deposited on InP epitaxial layers. Semiconductor Science and Technology, 2013, 28, 045006.	1.0	5
49	Thermal stability study of semimetal graphite n-InP and n-GaN Schottky diodes. Semiconductor Science and Technology, 2013, 28, 055009.	1.0	13
50	Lattice-Mismatched Epitaxial Growth On Porous III-V Substrates. ECS Transactions, 2013, 58, 53-60.	0.3	1
51	Hydrogen Detection with Semimetal Graphite-ZnO (InP,GaN) Schottky Diodes. Key Engineering Materials, 2013, 543, 159-162.	0.4	0
52	Hydrogen sensing using reduced graphene oxide sheets supported by Pd nanoparticles. Journal of Physics: Conference Series, 2013, 450, 012020.	0.3	3
53	Particle detectors based on InP Schottky diodes. Journal of Instrumentation, 2012, 7, C10005-C10005.	0.5	1
54	Thermal conversion and epitaxial overgrowth of nanopores etched in InP and GaAs. International Journal of Nanotechnology, 2012, 9, 732.	0.1	3

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55	Temperature-dependent properties of semimetal graphite-ZnO Schottky diodes. Applied Physics Letters, 2012, 101, .	1.5	23
56	Strain accommodation within porous buffer layers in heteroepitaxial growth. , 2012, , .		0
57	High sensitivity hydrogen sensors based on GaN. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1661-1663.	0.8	5
58	Preparation of nanoporous GaAs substrates for epitaxial growth. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1531-1533.	0.8	4
59	Semimetal graphite/ZnO Schottky diodes and their use for hydrogen sensing. Carbon, 2012, 50, 3928-3933.	5.4	25
60	Hydrogen sensors based on electrophoretically deposited Pd nanoparticles onto InP. Nanoscale Research Letters, 2011, 6, 392.	3.1	15
61	Laser assisted electrochemical preparation of micro and nanopores in Ga x In1â˜'x P. Journal of Nanoparticle Research, 2011, 13, 5873-5877.	0.8	1
62	Particle detectors based on semiconducting InP epitaxial layers. Journal of Instrumentation, 2011, 6, C01072-C01072.	0.5	1
63	Room temperature particle detectors based on indium phosphide. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 612, 334-337.	0.7	2
64	Growth of InP crystals with rare-earth elements. , 2009, , .		0
65	Impact of Pr on the properties of InP based layers for light sources and detectors. Physica Status Solidi C: Current Topics in Solid State Physics, 2009, 6, 2801-2803.	0.8	0
66	LPE growth of InP layers from rare-earth treated melts for radiation detector structures. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2009, 165, 94-97.	1.7	4
67	InP based semiconductor structures for radiation detection. Journal of Materials Science: Materials in Electronics, 2008, 19, 770-775.	1.1	0
68	Role of rare-earth elements in the design of radiation detectors and electroluminescent sources. , 2008, , .		0
69	High Purity p-type InP Grown by LPE with Rare-Earth Admixtures. , 2006, , .		0
70	Preparation of p-type InP layers for detection of radiation. Journal of Crystal Growth, 2005, 275, e959-e963.	0.7	6
71	Growth and spatially resolved luminescence of low dimensional structures in sintered ZnO. Nanotechnology, 2005, 16, 931-935.	1.3	43
72	Novel Approach to Preparation of InP Layers for Radiation Detectors. Materials Science Forum, 2005, 480-481, 483-488.	0.3	0

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73	Correlation of Pr, Dy, and Tb addition with physical properties of InP layers prepared by liquid phase epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 950-955.	0.8	3
74	Preparation of InP-based semiconductor materials with low density of defects: effect of Nd, Ho and Tb addition. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2002, 91-92, 407-411.	1.7	3
75	Role of Rare-Earth Elements in the Technology of III-V Semiconductors Prepared by Liquid Phase Epitaxy. , 0, , .		2
76	ZnO-Based Gas Sensors Prepared by EPD and Hydrothermal Growth. Key Engineering Materials, 0, 654, 94-98.	0.4	2