Jan Grym

List of Publications by Year
in descending order

76	555	623188	752256
papers	citations	14 h-index	20 g-index

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

#	Article	IF	Citations
1	Growth and spatially resolved luminescence of low dimensional structures in sintered ZnO. Nanotechnology, 2005, 16, 931-935.	1.3	43
2	Luminescence properties of hydrothermally grown ZnO nanorods. Superlattices and Microstructures, 2016, 99, 214-220.	1.4	31
3	The improvement of UV photodetection based on polymer/ZnO nanorod heterojunctions. Organic Electronics, 2020, 77, 105545.	1.4	28
4	Graphite/ZnO nanorods junction for ultraviolet photodetectors. Solid-State Electronics, 2015, 105, 70-73.	0.8	27
5	Semimetal graphite/ZnO Schottky diodes and their use for hydrogen sensing. Carbon, 2012, 50, 3928-3933.	5.4	25
6	Electrical and optical properties of graphite/ZnO nanorods heterojunctions. Carbon, 2014, 77, 1011-1019.	5.4	24
7	Optical and electrical characterization of CuO/ZnO heterojunctions. Thin Solid Films, 2020, 693, 137656.	0.8	24
8	Temperature-dependent properties of semimetal graphite-ZnO Schottky diodes. Applied Physics Letters, 2012, 101, .	1.5	23
9	Room temperature hydrogen sensing with the graphite/ZnO nanorod junctions decorated with Pt nanoparticles. Solid-State Electronics, 2016, 116, 124-129.	0.8	20
10	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
11	Graphite/CdMnTe Schottky diodes and their electrical characteristics. Semiconductor Science and Technology, 2014, 29, 015006.	1.0	17
12	Hydrogen sensors based on electrophoretically deposited Pd nanoparticles onto InP. Nanoscale Research Letters, 2011, 6, 392.	3.1	15
13	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
14	PPV derivative/ZnO nanorods heterojunction: Fabrication, Characterization and Near-UV light sensor development. Materials Research Bulletin, 2018, 106, 28-34.	2.7	15
15	Influence of Crystallographic Orientation on Schottky Barrier Formation in Gallium Oxide. Journal of Electronic Materials, 2020, 49, 5133-5137.	1.0	14
16	Thermal stability study of semimetal graphite n-InP and n-GaN Schottky diodes. Semiconductor Science and Technology, 2013, 28, 055009.	1.0	13
17	New Insights towards High-Temperature Ethanol-Sensing Mechanism of ZnO-Based Chemiresistors. Sensors, 2020, 20, 5602.	2.1	13
18	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

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19	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
20	Modeling of Solution Growth of ZnO Hexagonal Nanorod Arrays in Batch Reactors. Crystal Growth and Design, 2020, 20, 3347-3357.	1.4	10
21	Luminescence, up-conversion and temperature sensing in Er-doped TeO2-PbCl2-WO3 glasses. Journal of Non-Crystalline Solids, 2021, 553, 120287.	1.5	10
22	Epitaxial growth on porous GaAs substrates. Comptes Rendus Chimie, 2013, 16, 59-64.	0.2	9
23	Misfit dislocation reduction in InGaAs epilayers grown on porous GaAs substrates. Applied Surface Science, 2014, 306, 89-93.	3.1	8
24	Hollow target for efficient generation of fast ions by ultrashort laser pulses. Physics of Plasmas, 2016, 23, .	0.7	8
25	Highly Textured Seed Layers for the Growth of Vertically Oriented ZnO Nanorods. Crystals, 2019, 9, 566.	1.0	7
26	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
27	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
28	Highly Rectifying Heterojunctions Formed by Annealed ZnO Nanorods on GaN Substrates. Nanomaterials, 2020, 10, 508.	1.9	7
29	Preparation of p-type InP layers for detection of radiation. Journal of Crystal Growth, 2005, 275, e959-e963.	0.7	6
30	High sensitivity hydrogen sensors based on GaN. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 1661-1663.	0.8	5
31	Schottky barriers based on metal nanoparticles deposited on InP epitaxial layers. Semiconductor Science and Technology, 2013, 28, 045006.	1.0	5
32	Elastic constants of nanoporous III-V semiconductors. Journal Physics D: Applied Physics, 2015, 48, 245102.	1.3	5
33	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
34	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
35	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
36	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

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37	Graphite/SiC junctions and their electrical characteristics. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1700143.	0.8	4
38	Seed Layers for the Growth of Oriented Vertical Arrays of ZnO Nanorods. ECS Transactions, 2018, 82, 39-44.	0.3	4
39	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
40	Synthesis of Cuâ€“Ti thin film multilayers on silicon substrates. Bulletin of Materials Science, 2021, 44, 1.	0.8	4
41	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
42	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
43	Thermal conversion and epitaxial overgrowth of nanopores etched in InP and GaAs. International Journal of Nanotechnology, 2012, 9, 732.	0.1	3
44	Hydrogen sensing using reduced graphene oxide sheets supported by Pd nanoparticles. Journal of Physics: Conference Series, 2013, 450, 012020.	0.3	3
45	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
46	Chemiresistors Based on Li-Doped CuOâ€“TiO2 Films. Chemosensors, 2021, 9, 246.	1.8	3
47	Temperature sensing down to 4 K with erbium-doped tellurite glasses. Journal of Non-Crystalline Solids, 2022, 575, 121183.	1.5	3
48	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
49	Role of Rare-Earth Elements in the Technology of III-V Semiconductors Prepared by Liquid Phase Epitaxy. , 0, , .		2
50	ZnO-Based Gas Sensors Prepared by EPD and Hydrothermal Growth. Key Engineering Materials, 0, 654, 94-98.	0.4	2
51	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
52	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
53	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
54	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

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55	Particle detectors based on semiconducting InP epitaxial layers. Journal of Instrumentation, 2011, 6, C01072-C01072.	0.5	1
56	Particle detectors based on InP Schottky diodes. Journal of Instrumentation, 2012, 7, C10005-C10005.	0.5	1
57	Lattice-Mismatched Epitaxial Growth On Porous III-V Substrates. ECS Transactions, 2013, 58, 53-60.	0.3	1
58	Electrophoretic Deposition of Metal Nanoparticle Monolayers from Nonpolar Solvents for Hydrogen Sensing. Key Engineering Materials, 2015, 654, 213-217.	0.4	1
59	Spectroscopic properties of nanostructured molybdenum oxysulfide deposits fabricated by MoO3 evaporation in H2S. Materials Letters, 2020, 275, 128075.	1.3	1
60	Tunable visible emission in nanostructured thin films and bulk ZnO. Journal of Sol-Gel Science and Technology, 2022, 102, 447-453.	1.1	1
61	Novel Approach to Preparation of InP Layers for Radiation Detectors. Materials Science Forum, 2005, 480-481, 483-488.	0.3	0
62	High Purity p-type InP Grown by LPE with Rare-Earth Admixtures. , 2006, , .		0
63	InP based semiconductor structures for radiation detection. Journal of Materials Science: Materials in Electronics, 2008, 19, 770-775.	1.1	0
64	Role of rare-earth elements in the design of radiation detectors and electroluminescent sources. , 2008, , .		0
65	Growth of InP crystals with rare-earth elements. , 2009, , .		0
66	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
67	Strain accommodation within porous buffer layers in heteroepitaxial growth. , 2012, , .		0
68	High-resolution X-ray diffraction and electron microscopy study of porous GaAs substrates. Proceedings of SPIE, 2013, , .	0.8	0
69	Detection of hydrogen at room temperature with graphite-Pt nanoparticles/Si Schottky diodes. , 2013, , .		0
70	Hydrogen Detection with Semimetal Graphite-ZnO (InP,GaN) Schottky Diodes. Key Engineering Materials, 2013, 543, 159-162.	0.4	0
71	The effect of surface morphology of ZnO nanorods on the sensing response of graphite/ZnO nanorod junctions. , 2015, , .		0
72	Well-aligned ZnO nanorods grown directly on GaN substrates for optoelectronic applications. , 2016, , .		0

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73	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
74	Homogeneous Resistive Switching in Individual ZnO Nanorod p-n Junctions. , 2019, , .		0
75	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
76	Chemical vapor deposition of germanium-rich CrGe_x nanowires. Beilstein Journal of Nanotechnology, 2021, 12, 1365-1371.	1.5	0