Vicente MuÃ±oz-Sanjose

List of Publications by Year
in descending order

221 papers	4,803 citations	94415 37 h-index	138468 58 g-index
222 all docs	222 docs citations	222 times ranked	5644 citing authors

#	Article	IF	Citations
1	Bandgap and effective mass of epitaxial cadmium oxide. Applied Physics Letters, 2008, 92, .	3.3	158
2	Properties of the oxygen vacancy in ZnO. Applied Physics A: Materials Science and Processing, 2007, 88, 147-151.	2.3	153
3	Controlling the Phase Segregation in Mixed Halide Perovskites through Nanocrystal Size. ACS Energy Letters, 2019, 4, 54-62.	17.4	149
4	Structural and vibrational study of Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>under high pressure. Physical Review B, 2011, 84, .	3.2	138
5	Valence-band electronic structure of CdO, ZnO, and MgO from x-ray photoemission spectroscopy and quasi-particle-corrected density-functional theory calculations. Physical Review B, 2009, 79, .	3.2	124
6	Non-radiative recombination centres in catalyst-free ZnO nanorods grown by atmospheric-metal organic chemical vapour deposition. Journal Physics D: Applied Physics, 2013, 46, 235302.	2.8	101
7	High-pressure vibrational and optical study of Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>. Physical Review B, 2011, 84, .	3.2	100
8	Strong optical nonlinearities in gallium and indium selenides related to inter-valence-band transitions induced by light pulses. Physical Review B, 1997, 56, 4075-4084.	3.2	96
9	ZnO/CdTe/CuSCN, a promising heterostructure to act as inorganic eta-solar cell. Thin Solid Films, 2005, 483, 372-377.	1.8	87
10	Surface Band-Gap Narrowing in Quantized Electron Accumulation Layers. Physical Review Letters, 2010, 104, 256803.	7.8	86
11	Highâ€pressure studies of topological insulators Bi₂Se₃, Bi₂Te₃, and Sb₂Te₃. Physica Status Solidi (B): Basic Research, 2013, 250, 669-676.	1.5	77
12	Unification of the electrical behavior of defects, impurities, and surface states in semiconductors: Virtual gap states in CdO. Physical Review B, 2009, 79, .	3.2	76
13	Observation of quantized subband states and evidence for surface electron accumulation in CdO from angle-resolved photoemission spectroscopy. Physical Review B, 2008, 78, .	3.2	75
14	Experimental and theoretical study of band structure of InSe andIn1âˆ’xGaxSe(x<0.2)under high pressure:â€,Direct to indirect crossovers. Physical Review B, 2001, 63, .	3.2	73
15	Temperature dependence of the direct bandgap and transport properties of CdO. Applied Physics Letters, 2013, 102, .	3.3	68
16	A new CdTe/ZnO columnar composite film for Eta-solar cells. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 14, 229-232.	2.7	66
17	Raman scattering of cadmium oxide epilayers grown by metal-organic vapor phase epitaxy. Journal of Applied Physics, 2010, 107, .	2.5	64
18	Polarity Effects on ZnO Films Grown along the Nonpolar[112Â¯0]Direction. Physical Review Letters, 2005, 95, 226105.	7.8	63

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19	Structural characterization of a-plane Zn1â^'xCdxO (0â©½xâ©½0.085) thin films grown by metal-organic vapor phase epitaxy. Journal of Applied Physics, 2006, 99, 023514.	2.5	61
20	Investigation of conduction-band structure, electron-scattering mechanisms, and phase transitions in indium selenide by means of transport measurements under pressure. Physical Review B, 1997, 55, 16217-16225.	3.2	58
21	Zinc vacancies in the heteroepitaxy of ZnO on sapphire: Influence of the substrate orientation and layer thickness. Applied Physics Letters, 2005, 86, 042103.	3.3	57
22	Unravelling the Photocatalytic Behavior of All-Inorganic Mixed Halide Perovskites: The Role of Surface Chemical States. ACS Applied Materials & Interfaces, 2020, 12, 914-924.	8.0	55
23	Formation and Rupture of Schottky Nanocontacts on ZnO Nanocolumns. Nano Letters, 2007, 7, 1505-1511.	9.1	54
24	Hall-effect and resistivity measurements in CdTe and ZnTe at high pressure: Electronic structure of impurities in the zinc-blende phase and the semimetallic or metallic character of the high-pressure phases. Physical Review B, 2009, 79, .	3.2	54
25	Photoluminescence study of radiative transitions in ZnTe bulk crystals. Journal of Crystal Growth, 1998, 191, 685-691.	1.5	52
26	Electron mobility in CdO films. Journal of Applied Physics, 2011, 109, .	2.5	51
27	Positron annihilation lifetime spectroscopy of ZnO bulk samples. Physical Review B, 2007, 76, .	3.2	47
28	Energetically deep defect centers in vapor-phase grown zinc oxide. Applied Physics A: Materials Science and Processing, 2007, 88, 141-145.	2.3	47
29	Correlation between Zn vacancies and photoluminescence emission in ZnO films. Journal of Applied Physics, 2006, 99, 053516.	2.5	46
30	Effects of pressure and temperature on the dielectric constant of GaS, GaSe, and InSe:â€ƒ Role of the electronic contribution. Physical Review B, 1999, 60, 15866-15874.	3.2	45
31	Facets evolution and surface electrical properties of nonpolar m-plane ZnO thin films. Applied Physics Letters, 2006, 88, 261912.	3.3	45
32	Determination of limiting factors of photovoltaic efficiency in quantum dot sensitized solar cells: Correlation between cell performance and structural properties. Journal of Applied Physics, 2010, 108, 064310.	2.5	42
33	Morphology transitions in ZnO nanorods grown by MOCVD. Journal of Crystal Growth, 2012, 359, 122-128.	1.5	42
34	Temperature and pressure dependence of the optical absorption in hexagonal MnTe. Physical Review B, 2000, 61, 13679-13686.	3.2	39
35	Morphology of ZnO grown by MOCVD on sapphire substrates. Journal of Crystal Growth, 2004, 264, 70-78.	1.5	39
36	Angle-resolved photoemission study and first-principles calculation of the electronic structure of GaTe. Physical Review B, 2002, 65, .	3.2	38

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37	Some aspects of the MOCVD growth of ZnO on sapphire using tert-butanol. Materials Letters, 2002, 53, 126-131.	2.6	38
38	Enhanced UV emission from ZnO nanoflowers synthesized by the hydrothermal process. Journal Physics D: Applied Physics, 2012, 45, 425103.	2.8	38
39	Valence-band orbital character of CdO: A synchrotron-radiation photoelectron spectroscopy and density functional theory study. Physical Review B, 2014, 89, .	3.2	38
40	Study of the Partial Substitution of Pb by Sn in Csâ€“Pbâ€“Snâ€“Br Nanocrystals Owing to Obtaining Stable Nanoparticles with Excellent Optical Properties. Journal of Physical Chemistry C, 2018, 122, 14222-14231.	3.1	38
41	High-pressure x-ray-absorption study of GaSe. Physical Review B, 2002, 65, .	3.2	36
42	Structural analysis of CdO layers grown on r-plane sapphire <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/co	1.5	36
43	Vibrational Properties of InSe under Pressure: Experiment and Theory. Physica Status Solidi (B): Basic Research, 1996, 198, 121-127.	1.5	35
44	Cinnabar phase in ZnSe at high pressure. Physical Review B, 2001, 65, .	3.2	35
45	Band structure of indium selenide investigated by intrinsic photoluminescence under high pressure. Physical Review B, 2004, 70, .	3.2	35
46	Electronic structure of single-crystal rocksalt CdO studied by soft x-ray spectroscopies andab initiocalculations. Physical Review B, 2008, 77, .	3.2	35
47	Anharmonic effects in ZnO optical phonons probed by Raman spectroscopy. Applied Physics Letters, 2010, 96, .	3.3	35
48	High-pressure electrical transport measurements on p-type GaSe and InSe. High Pressure Research, 2006, 26, 513-516.	1.2	33
49	Anisotropy of the refractive index and absorption coefficient in the layer plane of gallium telluride single crystals. Physica Status Solidi A, 1995, 151, 257-265.	1.7	32
50	Above-bandgap ordinary optical properties of GaSe single crystal. Journal of Applied Physics, 2009, 106, .	2.5	31
51	Substrate effect on CdTe layers grown by metalorganic vapor phase epitaxy. Applied Physics Letters, 1997, 70, 1314-1316.	3.3	30
52	High-pressure x-ray absorption study of InSe. Physical Review B, 1999, 60, 3757-3763.	3.2	30
53	Trapping of three-dimensional electrons and transition to two-dimensional transport in the three-dimensional topological insulator Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Se<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>under high pressure. Physical Review B, 2012, 85, .	3.2	29
54	White light emission from lead-free mixed-cation doped Cs₂SnCl₆ nanocrystals. Nanoscale, 2022, 14, 1468-1479.	5.6	29

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55	Positron annihilation spectroscopy for the determination of thickness and defect profile in thin semiconductor layers. Physical Review B, 2007, 75, .	3.2	28
56	Hard x-ray photoelectron spectroscopy as a probe of the intrinsic electronic properties of CdO. Physical Review B, 2014, 89, .	3.2	28
57	Synthesis and growth of PbTe crystals at low temperature and their characterization. Journal of Crystal Growth, 1999, 196, 71-76.	1.5	26
58	CdTe crystal growth process by the Bridgman method: numerical simulation. Journal of Crystal Growth, 2001, 222, 435-451.	1.5	26
59	Specific features of the electronic structure of IIIâ€“VI layered semiconductors: recent results on structural and optical measurements under pressure and electronic structure calculations. Physica Status Solidi (B): Basic Research, 2003, 235, 267-276.	1.5	26
60	Study of the ZnO crystal growth by vapour transport methods. Journal of Crystal Growth, 2004, 270, 711-721.	1.5	26
61	Ab-Initio Studies of Electronic and Spectroscopic Properties of MgO, ZnO and CdO. Journal of the Korean Physical Society, 2008, 53, 2811-2815.	0.7	26
62	Optical properties of zinc phosphide. Journal of Applied Physics, 1986, 60, 3282-3288.	2.5	25
63	Investigation of nitrogen-related acceptor centers in indium selenide by means of photoluminescence: Determination of the hole effective mass. Physical Review B, 1997, 55, 6981-6987.	3.2	24
64	Growth and characterisation of MnTe crystals. Journal of Crystal Growth, 2001, 223, 349-356.	1.5	24
65	Near band edge recombination mechanisms in GaTe. Physical Review B, 2003, 68, .	3.2	24
66	Anomalous Raman modes in tellurides. Journal of Materials Chemistry C, 0, , .	5.5	24
67	X-ray-absorption fine-structure study of ZnSexTe1â^'x alloys. Journal of Applied Physics, 2004, 96, 1491-1498.	2.5	23
68	High-pressure Raman scattering of CdO thin films grown by metal-organic vapor phase epitaxy. Journal of Applied Physics, 2013, 113, .	2.5	23
69	Engineering Sr-doping for enabling long-term stable FAPb_{1â^'x}Sr_xI₃ quantum dots with 100% photoluminescence quantum yield. Journal of Materials Chemistry C, 2021, 9, 1555-1566.	5.5	23
70	Recombination processes in unintentionally doped GaTe single crystals. Journal of Applied Physics, 2002, 92, 7330-7336.	2.5	21
71	Photoluminescence Study of ZnSe Single Crystals Obtained by Solid Phase Recrystallization under Different Pressure Conditions. Effects of Thermal Treatment. Physica Status Solidi A, 2002, 194, 338-348.	1.7	21
72	Complex dielectric function and refractive index spectra of epitaxial CdO thin film grown on r-plane sapphire from 0.74 to 6.45 eV. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2010, 28, 1120-1124.	1.2	21

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73	Procedures for synthesis of single-phase 2212 bismuth material. Journal of the Less Common Metals, 1989, 150, 247-251.	0.8	20
74	Direct to Indirect Crossover in III-VI Layered Compounds and Alloys under Pressure. Physica Status Solidi (B): Basic Research, 1999, 211, 33-38.	1.5	20
75	Light-induced transmission nonlinearities in gallium selenide. Journal of Applied Physics, 1999, 85, 3780-3785.	2.5	20
76	X-ray photoemission studies of the electronic structure of single-crystalline CdO(100). Superlattices and Microstructures, 2007, 42, 197-200.	3.1	20
77	Preferred Growth Direction by PbS Nanoplatelets Preserves Perovskite Infrared Light Harvesting for Stable, Reproducible, and Efficient Solar Cells. Advanced Energy Materials, 2020, 10, 2002422.	19.5	20
78	Photoluminescence in ZnO:Co²⁺ (0.01%â€“5%) Nanoparticles, Nanowires, Thin Films, and Single Crystals as a Function of Pressure and Temperature: Exploring Electronâ€“Phonon Interactions. Chemistry of Materials, 2014, 26, 1100-1107.	6.7	19
79	Optical absorption in GaTe under high pressure. Physical Review B, 1999, 60, 8871-8877.	3.2	18
80	CdTe epilayers for uses in optical waveguides. Applied Physics A: Materials Science and Processing, 2000, 71, 277-279.	2.3	18
81	MOCVD growth of CdTe on glass: analysis of in situ post-growth annealing. Journal of Crystal Growth, 2004, 262, 19-27.	1.5	18
82	Optical active centres in ZnO samples. Journal of Non-Crystalline Solids, 2006, 352, 1453-1456.	3.1	18
83	Neutron irradiation defects in gallium sulfide: Optical absorption measurements. Journal of Applied Physics, 1997, 81, 6651-6656.	2.5	17
84	Some fundamentals of the vapor and solution growth of ZnSe and ZnO. Journal of Crystal Growth, 1999, 198-199, 968-974.	1.5	17
85	High-pressure x-ray absorption study of GaTe including polarization. Physical Review B, 2000, 61, 125-131.	3.2	17
86	Mn²⁺â€induced roomâ€temperature ferromagnetism and spinâ€glass behavior in hydrothermally grown Mnâ€doped ZnO nanorods. Physica Status Solidi (A) Applications and Materials Science, 2014, 211, 1155-1161.	1.8	17
87	Quenching and blue shift of UV emission intensity of hydrothermally grown ZnO:Mn nanorods. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2015, 191, 1-6.	3.5	17
88	Rock-salt CdZnO as a transparent conductive oxide. Applied Physics Letters, 2018, 113, .	3.3	17
89	Cathodoluminescence microscopy and photoluminescence of defects in ZnTe. Semiconductor Science and Technology, 1998, 13, 410-416.	2.0	16
90	Scanning electron microscopy characterization of ZnSe single crystals grown by solid-phase recrystallization. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2000, 78, 105-108.	3.5	16

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91	Influence of twinned structure on the morphology of CdTe(111) layers grown by MOCVD on GaAs(100) substrates. Journal of Crystal Growth, 2003, 257, 60-68.	1.5	16
92	Microstructural characterization of TiB2 armor targets. Journal of Materials Science Letters, 2002, 21, 1661-1666.	0.5	15
93	Structural characterization of CdTe layers grown on (0001) sapphire by MOCVD. Journal of Crystal Growth, 2004, 270, 309-315.	1.5	15
94	Optical properties and microstructure of 2.02-3.30 eV ZnCdO nanowires: Effect of thermal annealing. Applied Physics Letters, 2013, 102, .	3.3	15
95	Pressure Dependence of the Low-Frequency Dielectric Constant in III-VI Semiconductors. Physica Status Solidi (B): Basic Research, 1999, 211, 201-206.	1.5	14
96	Numerical study of the ZnO growth by MOCVD. Journal of Crystal Growth, 2004, 264, 237-245.	1.5	14
97	X-ray characterization of CdO thin films grown ona-,c-,r- andm-plane sapphire by metalorganic vapour phase-epitaxy. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1233-1238.	0.8	14
98	High-pressure phase diagram ofZnSexTe1â^'xalloys. Physical Review B, 2005, 71, .	3.2	14
99	Twin coarsening in CdTe(111) films grown on GaAs(100). Acta Materialia, 2006, 54, 4285-4291.	7.9	14
100	Hg1â^'xCdxI2/CdTe heterostructures for nuclear radiation detectors: Effect of epitaxial growth on substrate properties. Applied Physics Letters, 1998, 72, 2023-2025.	3.3	13
101	Pressure dependence of the refractive index in InSe. Semiconductor Science and Technology, 2000, 15, 806-812.	2.0	13
102	A numerical study of thermal conditions in the THM growth of HgTe. Journal of Crystal Growth, 2002, 243, 463-475.	1.5	13
103	Ellipsometric study of single-crystal Î³-InSe from 1.5 to 9.2 eV. Applied Physics Letters, 2010, 96, 181902.	3.3	13
104	Temperature effects on the positron annihilation characteristics in III-VI layered semiconductors. Journal of Physics Condensed Matter, 1993, 5, 971-976.	1.8	12
105	Low-pressure synthesis and Bridgman growth of Hg1â^'xMnxTe. Journal of Crystal Growth, 1999, 197, 688-693.	1.5	12
106	Heat transfer simulation in a vertical Bridgman CdTe growth configuration. Journal of Crystal Growth, 1999, 197, 435-442.	1.5	12
107	Pressure and temperature dependence of the band-gap in CdTe. Physica Status Solidi (B): Basic Research, 2003, 235, 441-445.	1.5	12
108	One-step growth of isolated CdO nanoparticles on r-sapphire substrates by using the spray pyrolysis methodology. RSC Advances, 2014, 4, 23137.	3.6	12

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109	High Pressure EXAFS on GaTe Single Crystal Including Polarization. Physica Status Solidi (B): Basic Research, 1999, 211, 389-393.	1.5	11
110	Crystal Growth of HgSe by the Cold Travelling Heater Method. Crystal Growth and Design, 2002, 2, 91-92.	3.0	11
111	Negative U-properties of the oxygen-vacancy in ZnO. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 997-1000.	0.8	11
112	Intrinsic and extrinsic point-defects in vapor transport grown ZnO bulk crystals. Physica B: Condensed Matter, 2006, 376-377, 767-770.	2.7	11
113	Growth of ZnO crystals by vapour transport: Some ways to act on physical properties. Crystal Research and Technology, 2006, 41, 742-747.	1.3	11
114	Anisotropic chemical etching of semipolar {10ar {1}ar {1}}mbox {/} {10ar {1}{+}1} ZnO crystallographic planes: polarity versus dangling bonds. Nanotechnology, 2009, 20, 065701.	2.6	11
115	Self-assembled MgxZn_{1â^'x}O quantum dots (0 â‰¤ x â‰¤ 1) on different substrates using spray pyrolysis methodology. CrystEngComm, 2013, 15, 182-191.	2.6	11
116	Influence of metal organic chemical vapour deposition growth conditions on vibrational and luminescent properties of ZnO nanorods. Journal of Applied Physics, 2013, 113, .	2.5	11
117	Temperature-dependent optical properties of epitaxial CdO thin films determined by spectroscopic ellipsometry and Raman scattering. Journal of Applied Physics, 2013, 113, 183515.	2.5	11
118	VIS-UV ZnCdO/ZnO multiple quantum well nanowires and the quantification of Cd diffusion. Nanotechnology, 2014, 25, 255202.	2.6	11
119	Effect of Growth Temperature on the Structural and Morphological Properties of MgCdO Thin Films Grown by Metal Organic Chemical Vapor Deposition. Crystal Growth and Design, 2017, 17, 6303-6310.	3.0	11
120	Comments on â€œAnomalously Large Shift of Absorption Edge of GaSe-Based Layered Crystals by Applied Electric Fieldâ€• Japanese Journal of Applied Physics, 1991, 30, L608-L609.	1.5	10
121	Thermal recovery of the lattice damage in neutron-transmutation-doped InSe. Physical Review B, 1993, 47, 2870-2873.	3.2	10
122	Annealing-induced Changes in the Electronic and Structural Properties of ZnTe Substrates. Journal of Materials Research, 2000, 15, 1612-1616.	2.6	10
123	A new approach to the growth of ZnO by vapour transport. Physica Status Solidi C: Current Topics in Solid State Physics, 2005, 2, 1106-1114.	0.8	10
124	Structural characterization of one-dimensional ZnO-based nanostructures grown by MOCVD. Physica Status Solidi (B): Basic Research, 2010, 247, 1683-1686.	1.5	10
125	Self-Assembled Zinc Oxide Quantum Dots Using Spray Pyrolysis Methodology. Crystal Growth and Design, 2011, 11, 3790-3801.	3.0	10
126	Controllable and Highly Propagative Hybrid Surface Plasmonâ€“Phonon Polariton in a CdZnO-Based Two-Interface System. ACS Photonics, 2019, 6, 2816-2822.	6.6	10

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127	High Optical Performance of Cyanâ€Emissive CsPbBr₃ Perovskite Quantum Dots Embedded in Molecular Organogels. Advanced Optical Materials, 2021, 9, 2001786.	7.3	10
128	Temperature dependence of refractive index and absorption coefficient of GaSe at 633 nm. Optics Communications, 1995, 118, 335-337.	2.1	9
129	Cathodoluminescence study of laser recrystallized CdTe layers. Applied Physics Letters, 1997, 71, 3096-3098.	3.3	9
130	Luminescence and structural properties of defects in ion implanted ZnO. Physica Status Solidi C: Current Topics in Solid State Physics, 2006, 3, 968-971.	0.8	9
131	Optical properties of ZnMgO films grown by spray pyrolysis and their application to UV photodetection. Semiconductor Science and Technology, 2015, 30, 105026.	2.0	9
132	Vapor phase epitaxy of Hg1â^'xCdxI2 layers on CdTe substrates. Journal of Crystal Growth, 1997, 171, 425-432.	1.5	8
133	Electronic structure and optical properties of CdTe rock-salt high pressure phase. Physica Status Solidi (B): Basic Research, 2003, 235, 509-513.	1.5	8
134	Growth of tin oxide thin films composed of nanoparticles on hydrophilic and hydrophobic glass substrates by spray pyrolysis technique. Applied Surface Science, 2015, 357, 915-921.	6.1	8
135	MOCVD growth of CdO very thin films: Problems and ways of solution. Applied Surface Science, 2016, 385, 209-215.	6.1	8
136	Effects of Conduction Band Structure and Dimensionality of the Electron Gas on Transport Properties of InSe under Pressure. Physica Status Solidi (B): Basic Research, 1996, 198, 129-134.	1.5	7
137	The application of the photoacoustic transmittance oscillations for determining elastic constants in gallium and indium selenides. Journal of Applied Physics, 1996, 79, 3200-3204.	2.5	7
138	Selective area vapor-phase epitaxy and structural properties of Hg1 â^' xCdxTe on sapphire. Journal of Crystal Growth, 1997, 179, 585-591.	1.5	7
139	Optical Absorption of Zinc Selenide Doped with Cobalt (Zn1-xCoxSe) under Hydrostatic Pressure. Physica Status Solidi A, 2000, 180, 561-568.	1.7	7
140	A new approach to the crystal growth of Hg1â^'xMnxTe by the cold travelling heater method (CTHM). Journal of Crystal Growth, 2001, 223, 357-362.	1.5	7
141	Deep center luminescence versus surface preparation of ZnSe single crystals. Journal of Materials Research, 2001, 16, 1245-1248.	2.6	7
142	Structural and morphological characterizations of ZnO films grown on GaAs substrates by MOCVD. Applied Physics A: Materials Science and Processing, 2007, 88, 83-87.	2.3	7
143	Nanoscale determination of surface orientation and electrostatic properties of ZnO thin films. Applied Physics A: Materials Science and Processing, 2007, 88, 77-82.	2.3	7
144	On the interplay of point defects and Cd in non-polar ZnCdO films. Journal of Applied Physics, 2013, 113, 023512.	2.5	7

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145	Morphology and Band Structure of Orthorhombic PbS Nanoplatelets: An Indirect Band Gap Material. Chemistry of Materials, 2021, 33, 420-429.	6.7	7
146	High-Tc YBACUO superconductors from metallo-organic precursors. Materials Research Bulletin, 1988, 23, 987-992.	5.2	6
147	Effect of plastic deformation on photoluminescence of ZnTe bulk monocrystals. Journal of Crystal Growth, 1999, 197, 794-798.	1.5	6
148	Band-to-Band and Band-to-Acceptor Photoluminescence Studies in InSe under Pressure. Physica Status Solidi (B): Basic Research, 1999, 211, 105-110.	1.5	6
149	Observation of the Cinnabar Phase in ZnSe at High Pressure. High Pressure Research, 2002, 22, 355-359.	1.2	6
150	Surface passivation of gallium selenide by nitrogen implantation. Surface and Interface Analysis, 2002, 34, 460-463.	1.8	6
151	Numerical study of the growth conditions in an MOCVD reactor: application to the epitaxial growth of HgTe. Journal of Crystal Growth, 2002, 240, 124-134.	1.5	6
152	Semiconductor-metal transitions in liquidIn100â^'xSexalloys: A concentration-induced transition. Physical Review B, 2004, 69, .	3.2	6
153	Growth and characterization of Mg_{1â€x}Cd_xO thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2016, 13, 452-455.	0.8	6
154	Correlative study of structural and optical properties of ZnSe under severe plastic deformation. Journal of Applied Physics, 2019, 126, 225702.	2.5	6
155	Self-assembled metal-oxide nanoparticles on GaAs: infrared absorption enabled by localized surface plasmons. Nanophotonics, 2021, 10, 2509-2518.	6.0	6
156	Characterization of Non-Polar ZnO Layers with Positron Annihilation Spectroscopy. Acta Physica Polonica A, 2008, 114, 1257-1264.	0.5	6
157	Structural defects in Hg1â^'xCdxI2 layers grown on CdTe substrates by vapor phase epitaxy. Journal of Applied Physics, 1997, 82, 4889-4891.	2.5	5
158	Vapor phase epitaxy of Hg1â^'xCdxI2 on sapphire. Journal of Crystal Growth, 1998, 192, 342-345.	1.5	5
159	Vapor growth of Hg1â^'xCdxI2 on glass using CdTe buffer. Thin Solid Films, 2001, 381, 48-51.	1.8	5
160	Pressure Dependence of the Bandgap Bowing in Zinc-Blende ZnTe 1â^' x Se x. High Pressure Research, 2002, 22, 257-260.	1.2	5
161	Nanogoniometry with Scanning Force Microscopy: A Model Study of CdTe Thin Films. Small, 2007, 3, 474-480.	10.0	5
162	High resolution x-ray diffraction methodology for the structural analysis of one-dimensional nanostructures. Journal of Applied Physics, 2012, 112, .	2.5	5

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163	Observation of a charge delocalization from Se vacancies in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Bi</mml:mi><mml:mn>2</mml:mn></mml:msub></mml:mrow></mml:math> A positron annihilation study of native defects. Physical Review B, 2016, 94, .	3.7	5
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