M Carmen Martinez-Tomas

List of Publications by Year
in descending order

54 papers	692 citations	623734 14 h-index	580821 25 g-index
54 all docs	54 docs citations	54 times ranked	924 citing authors

#	Article	IF	Citations
1	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
2	Energetically deep defect centers in vapor-phase grown zinc oxide. Applied Physics A: Materials Science and Processing, 2007, 88, 141-145.	2.3	47
3	Acceptor levels in indium selenide. An investigation by means of the Hall effect, deep-level-transient spectroscopy and photoluminescence. Applied Physics A: Solids and Surfaces, 1987, 44, 249-260.	1.4	45
4	Morphology transitions in ZnO nanorods grown by MOCVD. Journal of Crystal Growth, 2012, 359, 122-128.	1.5	42
5	Enhanced UV emission from ZnO nanoflowers synthesized by the hydrothermal process. Journal Physics D: Applied Physics, 2012, 45, 425103.	2.8	38
6	Above-bandgap ordinary optical properties of GaSe single crystal. Journal of Applied Physics, 2009, 106, .	2.5	31
7	CdTe crystal growth process by the Bridgman method: numerical simulation. Journal of Crystal Growth, 2001, 222, 435-451.	1.5	26
8	Study of the ZnO crystal growth by vapour transport methods. Journal of Crystal Growth, 2004, 270, 711-721.	1.5	26
9	Near band edge recombination mechanisms in GaTe. Physical Review B, 2003, 68, .	3.2	24
10	Recombination processes in unintentionally doped GaTe single crystals. Journal of Applied Physics, 2002, 92, 7330-7336.	2.5	21
11	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
12	Carrier scattering mechanisms in P-type indium selenide. Applied Physics A: Solids and Surfaces, 1989, 48, 445-450.	1.4	19
13	Numerical study of the ZnO growth by MOCVD. Journal of Crystal Growth, 2004, 264, 237-245.	1.5	14
14	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
15	A numerical study of thermal conditions in the THM growth of HgTe. Journal of Crystal Growth, 2002, 243, 463-475.	1.5	13
16	Ellipsometric study of single-crystal Î³-InSe from 1.5 to 9.2 eV. Applied Physics Letters, 2010, 96, 181902.	3.3	13
17	The effects of thermal treatment on structural, morphological and optical properties of electrochemically deposited Bi2S3 thin films. Thin Solid Films, 2017, 626, 9-16.	1.8	13
18	Heat transfer simulation in a vertical Bridgman CdTe growth configuration. Journal of Crystal Growth, 1999, 197, 435-442.	1.5	12

#	Article	IF	Citations
19	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
20	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
21	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
22	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
23	VIS-UV ZnCdO/ZnO multiple quantum well nanowires and the quantification of Cd diffusion. Nanotechnology, 2014, 25, 255202.	2.6	11
24	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
25	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
26	Self-Assembled Zinc Oxide Quantum Dots Using Spray Pyrolysis Methodology. Crystal Growth and Design, 2011, 11, 3790-3801.	3.0	10
27	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
28	MOCVD growth of CdO very thin films: Problems and ways of solution. Applied Surface Science, 2016, 385, 209-215.	6.1	8
29	Deep center luminescence versus surface preparation of ZnSe single crystals. Journal of Materials Research, 2001, 16, 1245-1248.	2.6	7
30	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
31	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
32	High resolution x-ray diffraction methodology for the structural analysis of one-dimensional nanostructures. Journal of Applied Physics, 2012, 112, .	2.5	5
33	Structural and morphological characterization of the Cd-rich region in Cd1-xZnxO thin films grown by atmospheric pressure metal organic chemical vapour deposition. Thin Solid Films, 2019, 683, 128-134.	1.8	5
34	Time resolved photoluminescence of Cd-doped InSe. European Physical Journal B, 1993, 91, 25-30.	1.5	4
35	ZnO films grown by MOCVD on GaAs substrates: Effects of a Zn buffer deposition on interface, structural and morphological properties. Journal of Crystal Growth, 2009, 311, 2564-2571.	1.5	4
36	Growth and characterization of self-assembled Cd_{1â^'x}Mg_xO (0 â‰¤ x â‰¤ 1) nanoparticles on r-sapphire substrates. CrystEngComm, 2014, 16, 8969-8976.	2.6	4

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37	Faceting and structural anisotropy of nanopatterned CdO(110) layers. Journal of Applied Physics, 2005, 98, 034311.	2.5	3
38	Assessment of the out-plane and in-plane ordering of high quality ZnO nanorods by X-ray multiple diffraction. Thin Solid Films, 2013, 541, 107-112.	1.8	3
39	High resolution X-ray diffraction, X-ray multiple diffraction and cathodoluminescence as combined tools for the characterization of substrates for epitaxy: the ZnO case. CrystEngComm, 2013, 15, 3951.	2.6	3
40	Hybrid multiple diffraction in semipolar wurtzite materials: (f 01overline{1}2)-oriented ZnMgO/ZnO heterostructures as an illustration. Journal of Applied Crystallography, 2017, 50, 1165-1173.	4.5	3
41	Spray pyrolytic deposition of ZnO thin layers composed of low dimensional nanostructures. Physics Procedia, 2010, 8, 14-17.	1.2	2
42	Non radiative recombination centers in ZnO nanorods. Materials Research Society Symposia Proceedings, 2013, 1538, 317-322.	0.1	2
43	SubstructuralÂProperties and Anisotropic Peak Broadening in Zn1â^'x Mn x Te Films Determined by a Combined Methodology Based on SEM, HRTEM, XRD, and HRXRD. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2016, 47, 6645-6654.	2.2	2
44	Induced crystallographic changes in Cd1â^'xZnxO films grown on r-sapphire by AP-MOCVD: the effects of the Zn content when x â‰ 0.5. CrystEngComm, 2020, 22, 74-84.	2.6	2
45	A numerical solution for the nonlinear diffusion equation of the electromagnetic field in ferromagnetic materials. Journal of Computational Physics, 1986, 65, 432-447.	3.8	1
46	Improved systems for the measurement of hysteresis loops: DC and AC characterisation. Journal of Physics E: Scientific Instruments, 1987, 20, 861-865.	0.7	1
47	Thermal Creation of Defects in GaTe. Japanese Journal of Applied Physics, 2008, 47, 8719-8722.	1.5	1
48	Crystal growth of ZnO micro and nanostructures by PVT on c-sapphire and amorphous quartz substrates. Physics Procedia, 2010, 8, 121-125.	1.2	1
49	Temperature- and illumination-induced charge-state change in divacancies of GaTe. Physical Review B, 2010, 81, .	3.2	1
50	Synthesis and Characterization of ZnO Nano and Micro Structures Grown by Low Temperature Spray Pyrolysis and Vapor Transport. Journal of Nanoscience and Nanotechnology, 2012, 12, 6792-6799.	0.9	1
51	Physics Demos for All UVEG Degrees: A Unique Project in Spain. Procedia, Social and Behavioral Sciences, 2016, 228, 628-632.	0.5	1
52	Heat treatment effect on p type Zn doped InP substrates. Revue De Physique AppliquÃ©e, 1987, 22, 1159-1168.	0.4	1
53	X-ray and transmission electron microscopy characterization of twinned CdO thin films grown on a-plane sapphire by metalorganic vapour phase epitaxy. Applied Physics A: Materials Science and Processing, 2007, 88, 61-64.	2.3	0
54	STUDENT EVALUATION OF TEACHING (SET): ANALYSIS OF THE WORKLOAD IN THE 3TH YEAR OF THE PHYSICS DEGREE AT THE UNIVERSITY OF VALENCIA. , 2017, , .		0