

Diana Nesheva

List of Publications by Year in descending order

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94
papers

1,206
citations

471509

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454955

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97
all docs

97
docs citations

97
times ranked

999
citing authors

#	ARTICLE	IF	CITATIONS
1	Influence of fast neutron irradiation on the phase composition and optical properties of homogeneous SiO _x and composite Si-SiO _x thin films. Journal of Materials Science, 2021, 56, 3197-3209.	3.7	2
2	Effect of infrared laser irradiation on electrical conductivity and ethanol sensitivity of sol-gel ZnO thin films. Journal of Physics: Conference Series, 2021, 1762, 012037.	0.4	1
3	Properties of ZnSe nanocrystalline thin films prepared by thermal evaporation. Journal of Physics: Conference Series, 2021, 1762, 012036.	0.4	0
4	Modification of surface morphology and lattice order in nanocrystalline ZnO thin films prepared by spin-coating sol-gel method. Journal of Sol-Gel Science and Technology, 2021, 100, 55-67.	2.4	5
5	Selective photosensitivity of metal-oxide-semiconductor structures with SiO _x layer annealed at high temperature. Journal of Materials Science: Materials in Electronics, 2020, 31, 17412-17421.	2.2	3
6	UV Sensitivity of MOS Structures with Silicon Nanoclusters. Sensors, 2019, 19, 2277.	3.8	7
7	Changes in composite nc-Si-SiO ₂ thin films caused by 20 MeV electron irradiation. Nuclear Instruments & Methods in Physics Research B, 2019, 458, 159-163.	1.4	2
8	Phase characterization and ethanol adsorption in TiO ₂ nanotubes anodically grown on Ti6Al4V alloy substrates. Journal of Alloys and Compounds, 2019, 798, 394-402.	5.5	5
9	Room temperature sensitivity of ZnSe nanolayers to ethanol vapours. Journal of Physics: Conference Series, 2019, 1186, 012023.	0.4	2
10	Surface modification and chemical sensitivity of sol gel deposited nanocrystalline ZnO films. Materials Chemistry and Physics, 2018, 209, 165-171.	4.0	18
11	Influence of 20 MeV electron irradiation on the optical properties and phase composition of SiO _x thin films. Journal of Applied Physics, 2018, 123, 195303.	2.5	12
12	Resistive switching behavior of SiO _x layers with Si nanoparticles. Journal of Physics: Conference Series, 2017, 794, 012018.	0.4	0
13	Dynamics of selenium and tellurium films deposited in vacuum on vibrating substrates. Surface and Coatings Technology, 2016, 307, 542-546.	4.8	6
14	Raman Study of Compositional Variations in Zn _x Cd _{1-x} Se Films Prepared by Thermal Vacuum Evaporation. Journal of Nanoscience and Nanotechnology, 2016, 16, 8513-8518.	0.9	0
15	Long term ageing changes in structure and morphology of nanocrystalline Zn _x Cd _{1-x} Se thin films. , 2015, , .		0
16	Application of Metal-Oxide-Semiconductor structures containing silicon nanocrystals in radiation dosimetry. Open Physics, 2015, 13, .	1.7	8
17	Structural, compositional and electrical characterization of Si-rich SiO _x layers suitable for application in light sensors. Materials Science in Semiconductor Processing, 2015, 37, 229-234.	4.0	7
18	Effect of the composition and annealing on the electron transport in Zn _x Cd _{1-x} Se nanocrystalline films. Journal of Alloys and Compounds, 2014, 586, 650-655.	5.5	4

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19	Gas sensitive ZnO thin films with desired (002) or (100) orientation obtained by ultrasonic spray pyrolysis. <i>Materials Chemistry and Physics</i> , 2014, 148, 712-719.	4.0	17
20	TEM and Spectroscopic Ellipsometry studies of multilayer gate dielectrics containing crystalline and amorphous Si nanoclusters. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2013, 51, 111-114.	2.7	4
21	Effects of the preparation conditions and furnace annealing on the structure and morphology of Zn _{0.8} Cd _{0.2} Se thin films. , 2013, , .		0
22	Raman scattering characterization of ZnSe/Zn _{0.6} Cd _{0.4} Se multilayers prepared by thermal vacuum evaporation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 949-952.	1.8	2
23	Photoluminescence from SiO _x layers containing amorphous silicon nanoparticles. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 746-751.	1.8	8
24	Characterization of Si ^ε /SiO _x nanocomposite layers by comparative analysis of computer simulated and experimental infra-red transmission spectra. <i>Thin Solid Films</i> , 2012, 520, 2085-2091.	1.8	8
25	Metal-Oxide-Semiconductor Structures Containing Silicon Nanocrystals for Application in Radiation Dosimeters. <i>Sensor Letters</i> , 2012, 10, 833-837.	0.4	10
26	Photoconductivity and Relaxation Dynamics in Sonochemically Synthesized Assemblies of AgBiS ₂ Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2011, 115, 37-46.	3.1	46
27	Temperature Dependence of the Photoluminescence from Ensembles of Amorphous Silicon Nanoparticles with Various Average Sizes. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 959-965.	0.9	2
28	Crystal structure and spectral photosensitivity of thermally evaporated ZnxCd _{1-x} Se thin films. <i>Journal Physics D: Applied Physics</i> , 2011, 44, 415305.	2.8	13
29	Effect of oxygen to argon ratio on the properties of thin SiO _x films deposited by r.f. sputtering. <i>Journal of Materials Science: Materials in Electronics</i> , 2010, 21, 481-485.	2.2	6
30	Microstructural characterization of thin SiO _x films obtained by physical vapor deposition. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2010, 174, 132-136.	3.5	21
31	Formation of Si Nanocrystals in Thin SiO ₂ Films for Memory Device Applications. <i>Materials Science Forum</i> , 2010, 644, 101-104.	0.3	7
32	SPM electrical characterization of Ti/Al ^ε Based ohmic contacts for sub-micron devices. , 2010, , .		0
33	Composition and structure of Zn _x Cd _{1-x} Se single layers prepared by thermal evaporation of ZnSe and CdSe. <i>Journal of Physics: Conference Series</i> , 2010, 253, 012035.	0.4	11
34	Characterization of ZnSe Nanolayers by Spectroscopic Ellipsometry. <i>Acta Physica Polonica A</i> , 2009, 116, 708-711.	0.5	5
35	Raman Scattering from ZnSe Nanolayers. <i>Acta Physica Polonica A</i> , 2009, 116, 75-77.	0.5	39
36	Modulated photoconductivity study of nanocrystalline CdSe films. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 2744-2747.	3.1	2

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37	Size-Dependent Properties of Sonochemically Synthesized Three-Dimensional Arrays of Close-Packed Semiconducting AgBiS ₂ Quantum Dots. Chemistry of Materials, 2008, 20, 2551-2565.	6.7	77
38	Absorption and transport properties of Si rich oxide layers annealed at various temperatures. Semiconductor Science and Technology, 2008, 23, 045015.	2.0	21
39	MOS structures containing silicon nanoparticles for memory device applications. Journal of Physics: Conference Series, 2008, 113, 012034.	0.4	8
40	Infrared and Photoluminescence Study of Rapidly Thermally Annealed SiO _x Thin Films. Materials Science Forum, 2007, 555, 309-314.	0.3	5
41	Memory effect in MIS structures with amorphous silicon nanoparticles embedded in ultra thin matrix. Journal of Physics and Chemistry of Solids, 2007, 68, 725-728.	4.0	20
42	Thin film semiconductor nanomaterials and nanostructures prepared by physical vapour deposition: An atomic force microscopy study. Journal of Physics and Chemistry of Solids, 2007, 68, 675-680.	4.0	6
43	Dependence of photoluminescence from a-Si nanoparticles on the annealing time and exciting wavelength. Journal of Luminescence, 2007, 126, 7-13.	3.1	2
44	Room temperature photoluminescence from amorphous silicon nanoparticles in SiO _x thin films. Journal of Luminescence, 2007, 126, 497-502.	3.1	14
45	Photorefectance study of multilayer structures of nanocrystalline CdSe in insulator matrix. Thin Solid Films, 2006, 495, 338-342.	1.8	9
46	Computational analysis of thermally stimulated currents in Bi ₁₂ TiO ₂₀ single crystals. Journal of Applied Physics, 2006, 100, 053704.	2.5	4
47	Defect states in CdSe nanocrystalline layers. Physica Status Solidi (A) Applications and Materials Science, 2005, 202, 1081-1087.	1.8	2
48	Raman Scattering from Low-Dimensional Semiconductors. , 2005, , 317-322.		0
49	Exciton related resonant Raman scattering from CdSe quantum dots in an amorphous GeS ₂ thin film matrix. Journal of Physics Condensed Matter, 2004, 16, 8221-8232.	1.8	11
50	Rheological, electrical, and microwave properties of polymers with nanosized carbon particles. Journal of Applied Polymer Science, 2004, 92, 2220-2227.	2.6	44
51	Composition and temperature dependence of the low-frequency Raman scattering in Ge ^{As} S glasses. Journal of Non-Crystalline Solids, 2004, 347, 187-196.	3.1	22
52	Title is missing!. Journal of Materials Science: Materials in Electronics, 2003, 14, 799-800.	2.2	5
53	Study of modified solid surfaces by nanostructured CdSe in SiO _x thin films. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1070-1074.	0.8	3
54	LiNbO ₃ optical waveguides formed in a new proton source. Journal of Lightwave Technology, 2002, 20, 71-77.	4.6	9

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55	Raman scattering and photoluminescence from Si nanoparticles in annealed SiO _x thin films. Journal of Applied Physics, 2002, 92, 4678-4683.	2.5	182
56	Nanoparticle layers of CdSe buried in oxide and chalcogenide thin film matrices. Vacuum, 2002, 65, 109-113.	3.5	18
57	Composition, structure and annealing-induced phase separation in SiO _x films produced by thermal evaporation of SiO in vacuum. Vacuum, 2002, 68, 1-9.	3.5	46
58	Size-Dependent Absorption and Defect States in CdSe Nanocrystals in Various Multilayer Structures. Journal of Nanoscience and Nanotechnology, 2002, 2, 645-652.	0.9	0
59	NANOCRYSTALLINE AND AMORPHOUS THIN FILM SYSTEMS INCLUDING LOW-DIMENSIONAL CHALCOGENIDE MATERIALS. , 2001, , 239-279.		5
60	Formation of CdSe nanoclusters in SiO _x thin films. Solid State Communications, 2000, 114, 511-514.	1.9	21
61	Charge transport in CdSe nanocrystalline sublayers of SiO _x /CdSe multilayers and composite SiO _x -CdSe thin films. Journal of Physics Condensed Matter, 2000, 12, 3967-3974.	1.8	3
62	Experimental studies on the defect states at the interface between nanocrystalline CdSe and amorphous SiO _x . Journal of Physics Condensed Matter, 2000, 12, 751-759.	1.8	24
63	Stability of amorphous Se/Se ₁₀₀ ~xTe _x multilayers: A Raman study. Journal of Applied Physics, 1999, 86, 4964-4970.	2.5	16
64	Photoluminescence of CdSe nanocrystals embedded in a SiO _x thin film matrix. Journal of Luminescence, 1999, 82, 233-240.	3.1	28
65	Compositional Dependences of Some Optical and Electrical Properties of the Ge _x As ₄₀ ~xSe ₆₀ System. Physica Status Solidi A, 1999, 172, 149-154.	1.7	8
66	Thickness Dependent Photocrystallization in Se/Se ₇₀ Te ₃₀ Amorphous Multilayers. Physica Status Solidi A, 1999, 176, R3-R4.	1.7	2
67	On the structural stability of amorphous Se/CdSe multilayers: a Raman study. Journal of Non-Crystalline Solids, 1998, 224, 283-290.	3.1	24
68	Resonant Raman scattering and photoluminescence in SiO _x /CdSe multiple quantum wells. Physical Review B, 1998, 58, 7913-7920.	3.2	25
69	Electrophotographic photoreceptors including selenium-based multilayers. Semiconductor Science and Technology, 1997, 12, 595-599.	2.0	7
70	Nanocrystals of CdSe in thin film matrix. Semiconductor Science and Technology, 1997, 12, 1319-1322.	2.0	24
71	Thermal stability of amorphous multilayers. Solid State Communications, 1997, 103, 431-434.	1.9	3
72	Photoconductivity and recombination in amorphous Se/CdSe multilayers. Thin Solid Films, 1996, 280, 51-55.	1.8	11

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73	Bi ₂ SiO ₂₀ monocrystals doped with transition metals. Journal of Physics and Chemistry of Solids, 1995, 56, 241-250.	4.0	13
74	Photovoltaic and Electroluminescent Properties of Stainetched Porous Silicon Based Heterojunctions. Materials Research Society Symposia Proceedings, 1995, 405, 167.	0.1	2
75	Interface and structural disorder changes in Se/CdSe multilayers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1995, 72, 67-73.	0.6	3
76	Small-angle X-ray diffraction studies on interface sharpness of amorphous Se/CdSe superlattices. Journal of Non-Crystalline Solids, 1995, 191, 205-208.	3.1	10
77	Band and subband absorption of Se/CdSe amorphous multilayers. The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties, 1994, 70, 205-213.	0.6	14
78	Optical spectra of doped Bi ₁₂ TiO ₂₀ crystals. Journal of Physics Condensed Matter, 1994, 6, 11167-11175.	1.8	1
79	Some properties of Bi ₁₂ SiO ₂₀ :Fe doped crystals. Journal of Physics and Chemistry of Solids, 1994, 55, 889-894.	4.0	9
80	Thin and superthin photoconductive CdSe films deposited at room substrate temperature. Journal of Materials Science, 1993, 28, 2183-2186.	3.7	19
81	Traps and recombination centers in pure and Co-doped Bi ₁₂ SiO ₂₀ crystals. Journal of Physics and Chemistry of Solids, 1993, 54, 857-862.	4.0	9
82	Influence of crystallization on electrical and optical properties of Te ¹⁻ , Se ¹⁻ , Sn and Te ¹⁻ , Se ¹⁻ , Sn ¹⁻ , O films. Journal of Non-Crystalline Solids, 1993, 160, 105-110.	3.1	5
83	Characterization of amorphous selenium sublayers in chalcogenide superlattices by Raman scattering. Solid State Communications, 1992, 82, 959-962.	1.9	10
84	Preparation and characterization of amorphous SeTe/CdSe superlattices and their constituent thin layers. Thin Solid Films, 1992, 213, 230-234.	1.8	46
85	Stepwise optical absorption in amorphous SeTe/CdSe superlattices. Superlattices and Microstructures, 1992, 11, 439-443.	3.1	9
86	Properties of amorphous CdS-crystalline Si junctions. Solid-State Electronics, 1987, 30, 173-176.	1.4	5
87	Properties of laser-beam sputtered CdS thin films. Journal of Materials Science Letters, 1985, 4, 442-444.	0.5	7
88	Influence of annealing on photoinduced phenomena in CdS. Journal Physics D: Applied Physics, 1985, 18, 677-683.	2.8	2
89	Changes in the photosensitivity and dark conductivity of CdS single crystals after illumination at high temperature. Journal of Physics and Chemistry of Solids, 1984, 45, 201-206.	4.0	5
90	Studies of low-energy optical absorption and gap state density of a-CdS by the constant photocurrent method. Physica Status Solidi A, 1984, 82, 243-248.	1.7	6

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91	Photoconductivity of amorphous CdS films. Journal of Non-Crystalline Solids, 1982, 51, 381-388.	3.1	10
92	Radiation Dosimeter Based on Metal-Oxide-Semiconductor Structures Containing Silicon Nanocrystals. Key Engineering Materials, 0, 495, 120-123.	0.4	5
93	Electrical Characterization of MOS Structures with Silicon Nanocrystals Suitable for X-Ray Detection. Key Engineering Materials, 0, 543, 150-153.	0.4	0
94	MOS Structures Containing Si Nanocrystals for Applications in UV Dosimeters. Key Engineering Materials, 0, 605, 380-383.	0.4	1