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## Determination of the thickness and optical constants of amorphous silicon

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2271	Low loss ZrO <sub>2</sub> films for optical applications in the UV region. <b>1985</b> , 129, L71-L73		25
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2085	Fourier-transform design and electron cyclotron resonance plasma-enhanced deposition of lossy graded-index optical coatings. <b>1996</b> , 35, 4413-9	22
2084	Optical properties of hafnia and coevaporated hafnia:magnesium fluoride thin films. <b>1996</b> , 35, 5091-4	23
2083	A posteriori error of the transmission interference method of thin film refractive index calculation. <b>1996</b> , 29, 1068-1070	5
2082	Modeling of absorption data complicated by Fabry-Pérot interference in germanosilicate thin-film waveguides. <b>1996</b> , 13, 268	7
2081	Kinetics and reaction products of the photo-induced solid state chemical reaction between silver and amorphous (As <sub>0.33</sub> S <sub>0.67</sub> ) <sub>100-x</sub> Tex layers. <b>1996</b> , 198-200, 744-748	7
2080	Luminescent Characteristics of ZnGa <sub>2</sub> O <sub>4</sub> :Mn Phosphor Thin Films Grown by Radio-Frequency Magnetron Sputtering. <b>1996</b> , 35, 5726-5729	15
2079	Amorphous Silicon Films From Dichlorosilane and SiH <sub>4</sub> for Solar Cells. <b>1996</b> , 426, 47	
2078	Chemical Properties of a-Si:H Interface Layers on Oxide-Covered and Hydrogen-Terminated Silicon. <b>1996</b> , 420, 455	1

2077	Amorphous Silicon Films from Dichlorosilane and SiH <sub>4</sub> for Solar Cells. <b>1996</b> , 420, 883	3
2076	Optical Characterization of GaN Films Grown on (0001) Sapphire Substrate. <b>1996</b> , 423, 747	1
2075	Charge Carrier Absorption in Doped Microcrystalline Silicon Films. <b>1996</b> , 452, 815	
2074	Analysis of the infrared transmission data of hydrogenated amorphous silicon film fabricated by high rate PECVD. <b>1996</b> , 25, 1837-1840	4
2073	The development of biaxial alignment in yttria-stabilized zirconia films fabricated by ion beam assisted deposition. <b>1996</b> , 25, 35-42	16
2072	Characteristics of rutile TiO <sub>2</sub> films prepared by r.f. magnetron sputtering at a low temperature. <b>1996</b> , 281-282, 427-430	65
2071	On some important care to take when making spectrophotometric measurements on semiconductor thin films. <b>1996</b> , 277, 155-161	8
2070	Influence of oxygen on some oxide films prepared by ion beam sputter deposition. <b>1996</b> , 290-291, 88-93	21
2069	Structural and optical properties of r.f. sputtered Bi <sub>2</sub> VO <sub>5.5</sub> thin films. <b>1996</b> , 98, 535-538	4
2068	Intensity-dependent energy and lineshape variation of donor-acceptor-pair bands in highly compensated ZnSe:N. <b>1996</b> , 159, 252-256	18
2067	Yttria-stabilized zirconia thin films grown by reactive r.f. magnetron sputtering. <b>1996</b> , 287, 104-109	26
2066	Characterizations of titanium oxide films prepared by radio frequency magnetron sputtering. <b>1996</b> , 287, 154-163	89
2065	A simple method to determine the optical constants and thicknesses of Zn <sub>x</sub> Cd <sub>1-x</sub> S thin films. <b>1996</b> , 289, 238-241	35
2064	Determination of the thickness and optical constants of thin films from transmission spectra. <b>1996</b> , 286, 164-169	33
2063	Study of structural changes in amorphous germanium-nitrogen alloys by optical techniques. <b>1996</b> , 79, 433-438	8
2062	Phase modification by instantaneous heat treatment of Sb <sub>2</sub> S <sub>3</sub> films and their potential for photothermal optical recording. <b>1996</b> , 79, 4029	36
2061	Influence of the laser wavelength on the microstructure of laser ablated Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> films. <b>1996</b> , 80, 7046-7051	17
2060	Aluminum nitride films for optical applications.	

2059	Porous Silicon from Hydrogenated Amorphous Silicon: Comparison with Crystalline Porous Silicon. <b>1996</b> , 452, 403	9
2058	Some possible applications of chromatic parameters to thin film optical constants determination. <b>1996</b> , 43, 2449-2462	5
2057	Deposition of High-Quality TiO <sub>2</sub> Films by RF Magnetron Sputtering with an Auxiliary Permanent Magnet. <b>1997</b> , 36, 4917-4921	10
2056	Refractive Index Measurement of Silicon Thin Films Using Slab Optical Waveguides. <b>1997</b> , 36, 920-925	1
2055	Local order in hydrogenated amorphous germanium thin films studied by extended x-ray absorption fine-structure spectroscopy. <b>1997</b> , 9, 5875-5888	18
2054	Band-structure determination by subgap spectroscopy in thin films of semiconductors. <b>1997</b> , 76, 273-280	6
2053	Electronic effects of ion damage in hydrogenated amorphous silicon alloys. <b>1997</b> , 82, 4800-4804	17
2052	Light-induced defects in hydrogenated amorphous silicon studied by the constant-photocurrent method. <b>1997</b> , 55, 9621-9627	14
2051	The relation between ion damage anisotropy and IBAD YSZ biaxial alignment. <b>1997</b> , 7, 1432-1435	8
2050	Experimental study on intermediate and gradient index dielectric thin films by a novel reactive sputtering method. <b>1997</b> , 15, 2670-2672	8
2049	Chemical (dis)order in a-Si <sub>1-x</sub> C <sub>x</sub> :H for x. <b>1997</b> , 55, 4426-4434	51
2048	Nanocrystals of CdSe in thin film matrix. <b>1997</b> , 12, 1319-1322	23
2047	Effect of heat treatment on formation of sol-gel (Pb, La)TiO <sub>3</sub> films for optical application. <b>1997</b> , 12, 812-818	7
2046	Solar Cells from Mixed SiCl <sub>2</sub> H <sub>2</sub> and SiH <sub>4</sub> Plasmas. <b>1997</b> , 467, 789	4
2045	Development and application of low temperature magnetron sputtered ITO thin films for a-Si:H based junction solar cells.	1
2044	Refractive-index dispersion and the optical-absorption edge of wedge-shaped thin films of metal - chalcogenide glasses. <b>1997</b> , 30, 690-702	34
2043	Optical properties of wurtzite structure GaN on sapphire around fundamental absorption edge (0.78-0.77 eV) by spectroscopic ellipsometry and the optical transmission method. <b>1997</b> , 70, 3209-3211	225
2042	Silicon network relaxation in amorphous hydrogenated silicon. <b>1997</b> , 56, R12710-R12713	64

2041	Optical determination of the thickness of thin films symmetrically deposited on both sides of the substrates. <b>1997</b> , 8, 911-916	5
2040	Optical parameters of pyrite thin films. <b>1997</b> , 82, 5132-5137	18
2039	Simultaneous measurement of optical constants of dispersive material at visible and infrared wavelengths. <b>1997</b> , 36, 877-84	18
2038	Substrate-dependent optical absorption characteristics of titanium dioxide thin films. <b>1997</b> , 36, 4403-8	29
2037	Analytical method of determining optical constants of a weakly absorbing thin film. <b>1997</b> , 36, 6325-8	19
2036	Retrieval of optical constants and thickness of thin films from transmission spectra. <b>1997</b> , 36, 8238-47	58
2035	Tailoring refractive index of a-Si:H by TBP (C <sub>4</sub> H <sub>11</sub> P) doping. <b>1997</b> , 209, 188-192	4
2034	Optical properties, statistics of bond angle deformations and density of states in Si-rich a-SiN <sub>x</sub> :H alloys. <b>1997</b> , 210, 267-274	13
2033	Structure related properties of obliquely deposited amorphous a-As <sub>2</sub> S <sub>3</sub> thin films. <b>1997</b> , 210, 261-266	17
2032	On the irreversible photo-bleaching phenomenon in obliquely-evaporated GeS <sub>2</sub> glass films. <b>1997</b> , 222, 250-257	20
2031	Microcavity effects in GaN epitaxial films and in Ag/GaN/sapphire structures. <b>1997</b> , 70, 2790-2792	96
2030	Absorption coefficient, energy gap, exciton binding energy, and recombination lifetime of GaN obtained from transmission measurements. <b>1997</b> , 71, 2572-2574	580
2029	Optical modulation spectroscopy of hydrogenated microcrystalline silicon. <b>1997</b> , 296, 118-121	3
2028	Optical properties of SnO <sub>2</sub> thin films grown by atmospheric pressure chemical vapour deposition oxidizing SnCl <sub>4</sub> . <b>1997</b> , 302, 204-213	94
2027	On the microstructure and optical properties of Ba <sub>0.5</sub> Sr <sub>0.5</sub> TiO <sub>3</sub> films. <b>1997</b> , 305, 30-34	42
2026	Photoconductors based on Zn <sub>x</sub> Cd <sub>1-x</sub> S and CdSe <sub>1-y</sub> Sy thin films, fabricated with multilayer structure. <b>1997</b> , 310, 310-316	9
2025	Preparation and characterization of indium oxide (In <sub>2</sub> O <sub>3</sub> ) films by activated reactive evaporation. <b>1997</b> , 20, 1029-1038	8
2024	Comparative study of sol-gel derived 2.5% and 11.3% Y <sub>2</sub> O <sub>3</sub> /rO <sub>2</sub> by perturbed angular correlations spectroscopy. <b>1997</b> , 8, 223-227	1

2023	A trust region method for minimization of nonsmooth functions with linear constraints. <b>1997</b> , 76, 431-449	12
2022	Characterization of the optical constants of As <sub>2</sub> Se <sub>3</sub> thin films using a fiber optic technique. <b>1997</b> , 38, 227-232	3
2021	An optical study of the athermal photo-amorphization of As <sub>50</sub> Se <sub>50</sub> thin films. <b>1997</b> , 47, 119-126	1
2020	ALE growth of ZnS <sub>1-x</sub> Se <sub>x</sub> thin films by substituting surface sulfur with elemental selenium. <b>1997</b> , 112, 154-158	19
2019	The properties of barium titanate RF sputtered in argon. <b>1997</b> , 48, 43-48	13
2018	Optical and structural properties of bias sputtered vanadium pentoxide thin films. <b>1997</b> , 48, 879-882	11
2017	Electrical and optical properties of thermally evaporated thin films of (As <sub>2</sub> S <sub>3</sub> ) <sub>1-x</sub> (PbS) <sub>x</sub> . <b>1997</b> , 293, 303-309	13
2016	Deposition of indium tin oxide films on polycarbonate substrates by radio-frequency magnetron sputtering. <b>1997</b> , 298, 221-227	80
2015	Photoluminescence and structure properties from $\delta$ -Si:H and $\delta$ -Si:H-PS samples. <b>1997</b> , 296, 126-128	2
2014	Optical properties of Ta <sub>2</sub> O <sub>5</sub> thin films deposited using the spin coating process. <b>1997</b> , 295, 11-15	54
2013	Microstructure modification of amorphous titanium oxide thin films during annealing treatment. <b>1997</b> , 300, 113-121	220
2012	Optical and structural properties of reactive ion beam sputter deposited CeO <sub>2</sub> films. <b>1997</b> , 305, 191-195	82
2011	Optical study of undoped, B or P-doped polysilicon. <b>1997</b> , 306, 67-73	24
2010	Laser spectroscopic study of photoinduced picosecond processes in amorphous and polycrystalline silicon films. <b>1997</b> , 408-409, 121-124	5
2009	Optical and Electrical Properties of the Ternary, Layer-Structured Compound MgIn <sub>2</sub> Se <sub>4</sub> . <b>1997</b> , 161, 549-556	3
2008	Ion-Beam-Induced CVD: An Alternative Method of Thin Film Preparation. <b>1997</b> , 3, 219-226	26
2007	Electronic and optical properties of fluorine-doped tin oxide films. <b>1998</b> , 83, 1049-1057	238
2006	Optical constants of thin films by means of a pointwise constrained optimization approach. <b>1998</b> , 317, 133-136	19



2005	Study of reactive DC magnetron sputtering deposition of AlN thin films. <b>1998</b> , 49, 193-197	12
2004	Optical and mechanical characteristics of zinc sulphide-thorium fluoride mixed composition thin films for use in the near infrared region (1–0.5 μm). <b>1998</b> , 21, 227-231	2
2003	Optical constants of nanocrystalline lanthanide-doped ceria thin films with the fluorite structure. <b>1998</b> , 59, 859-866	44
2002	Study of the behaviour of reflectance and phase change on reflection at thin and very thick films. <b>1998</b> , 30, 125-132	2
2001	Influence of preparation technique on the structural, optical and electrical properties of polycrystalline CdS films. <b>1998</b> , 51, 349-355	71
2000	Aluminium nitride thin films deposited by DC reactive magnetron sputtering. <b>1998</b> , 51, 161-164	36
1999	Structure and photoinduced changes in As <sub>2</sub> Se <sub>3</sub> bulk glasses and amorphous layers. <b>1998</b> , 317, 228-231	4
1998	AlN thin films prepared by ion beam induced chemical vapour deposition. <b>1998</b> , 317, 100-104	14
1997	Investigation of inhomogeneity of BaTiO <sub>3</sub> thin films using transmittance spectra measurements. <b>1998</b> , 324, 305-310	5
1996	a-Si:H film on side-polished fiber as optical polarizer and narrow-band filter. <b>1998</b> , 330, 150-156	14
1995	On the origin of reversible photodarkening in amorphous As <sub>2</sub> S <sub>3</sub> thin films. <b>1998</b> , 10, 117-128	16
1994	Temperature and ionic size dependence of the properties of ceria based optonic thin films. <b>1998</b> , 55, 14-20	32
1993	Preparation and properties of CdS thin films prepared on cold substrate as a window layer for solar cells. <b>1998</b> , 14, 113-118	8
1992	Comparison of optical constants and average thickness of inhomogeneous rough thin films obtained from special dependences of optical transmittance and reflectance. <b>1998</b> , 31, 105-110	4
1991	Photoprotective titania coatings on PET substrates. <b>1998</b> , 102, 63-72	51
1990	Preparation and characterization of Al-Ti mixed oxide thin films. <b>1998</b> , 100-101, 142-145	14
1989	The effect of bias power on some properties of titanium and titanium oxide films prepared by r.f. magnetron sputtering. <b>1998</b> , 107, 172-182	50
1988	Determination of the optical constants of thin films of regioregular poly(3-alkylthiophene) on transparent substrates. <b>1998</b> , 97, 69-72	5

1987	Effect of hydrogen radicals on properties and structure of a-Si <sub>1-x</sub> C <sub>x</sub> :H films. <b>1998</b> , 227-230, 456-459	7
1986	Electron cyclotron resonance plasma enhanced chemical vapour deposition and optical properties of SiO <sub>x</sub> thin films. <b>1998</b> , 226, 58-66	24
1985	Optical absorption edge in structure-inhomogeneous a-Si:H-based alloys. <b>1998</b> , 226, 217-224	6
1984	Photoinduced optical changes in amorphous Se and GeSe films. <b>1998</b> , 240, 177-181	23
1983	Density of surface states in Li doped a-Si:H. <b>1998</b> , 241, 128-133	
1982	Chemistry and diffusion processes at the SiO <sub>2</sub> /AlN interface. <b>1998</b> , 395, 326-341	5
1981	Optical properties and electronic transitions of SnO <sub>2</sub> thin films by reflection electron energy loss spectroscopy. <b>1998</b> , 400, 116-126	28
1980	Plasma-enhanced chemical vapor deposition of intrinsic microcrystalline silicon from chlorine-containing source gas. <b>1998</b> , 16, 3218-3222	8
1979	Role of hydrogen surface coverage during anodic plasma deposition of hydrogenated nanocrystalline germanium. <b>1998</b> , 84, 3386-3391	29
1978	Absorption Coefficient and Refractive Index of GaN, AlN and AlGa <sub>N</sub> Alloys. <b>1998</b> , 537, 1	16
1977	Electrical and Optical Properties of Radio-Frequency-Sputtered Thin Films of (ZnO) <sub>5</sub> In <sub>2</sub> O <sub>3</sub> . <b>1998</b> , 10, 3033-3039	85
1976	Process-Parameter-Dependent Optical and Structural Properties of ZrO <sub>2</sub> /MgO Mixed-Composite Films Evaporated from the Solid Solution. <b>1998</b> , 37, 698-718	27
1975	Single- and dual-ion-beam sputter deposition of titanium oxide films. <b>1998</b> , 37, 1171-6	34
1974	Simple Method for Determining Slowly Varying Refractive-Index Profiles from in situ Spectrophotometric Measurements. <b>1998</b> , 37, 4160-7	7
1973	Optical characterization of dielectric and semiconductor thin films by use of transmission data. <b>1998</b> , 37, 5262-70	145
1972	Annealing effect on ion-beam-sputtered titanium dioxide film. <b>1998</b> , 23, 1417-9	38
1971	Calculation of thin-film optical constants by transmittance-spectra fitting. <b>1998</b> , 15, 1852	25
1970	Quantitative interpretation of infrared absorption bands from hexagonal, cubic and mixed boron nitride films. <b>1998</b> , 7, 1657-1662	13

1969	Influence of Oxygen Pressure on the Structural and Optical Properties of DC Magnetron Reactive Sputtered Cadmium Oxide Films. <b>1998</b> , 57, 317-320	14
1968	Structural and optical parameters of films deposited on quartz substrates by laser ablation. <b>1998</b> , 13, 1446-1455	12
1967	Optoelectronic and structural properties of a-Ge <sub>1-x</sub> C <sub>x</sub> :H prepared by rf reactive cosputtering. <b>1998</b> , 84, 174-180	39
1966	Electron cyclotron resonance plasma ion source for material depositions. <b>1998</b> , 69, 2320-2324	15
1965	Transient behavior of a-Si(C):H bulk barrier color detectors. <b>1998</b> , 83, 3906-3910	6
1964	Optical properties and electron spectroscopy characterization of Al <sub>x</sub> Ti <sub>y</sub> O <sub>z</sub> thin films. <b>1998</b> , 16, 3477-3482	17
1963	Structure and Optical Properties of Nanocrystalline Yttria Doped Ceria Thin Films. <b>1998</b> , 12, 1573-1583	17
1962	Growth and optical properties of SbNbO <sub>4</sub> films. <b>1998</b> , 218, 199-208	2
1961	Determination of surface states in hydrogenated amorphous silicon by subgap absorption measurements. <b>1998</b> , 77, 945-957	2
1960	Growth and Characterization of Amorphous Al <sub>n</sub> Thin Films By Reactive Magnetron Sputtering at Low Temperature. <b>1998</b> , 535, 213	
1959	Gas-phase FT-IR analysis and growth kinetics of Al <sub>2</sub> O <sub>3</sub> in a LP-MOCVD reactor using new dialkylacetylacetonate precursors. <b>1999</b> , 09, Pr8-675-Pr8-681	2
1958	Structural properties depicted by optical measurements in hydrogenated polymorphous silicon. <b>1999</b> , 11, 8749-8757	15
1957	Optical Constants in the Subgap Region and Vibrational Behaviour by Far-Infrared Spectroscopy of Wedge-Shaped Obliquely-Deposited Amorphous GeS <sub>2</sub> Films. <b>1999</b> , 60, 90-96	6
1956	Optical properties of Al-doped a-Si:H films. <b>1999</b> , 11, 9619-9627	9
1955	Spectrophotometric analysis of aluminum nitride thin films. <b>1999</b> , 17, 862-870	78
1954	Linear optical properties of a heavily Mg-doped Al <sub>0.09</sub> Ga <sub>0.91</sub> N epitaxial layer. <b>1999</b> , 74, 3188-3190	3
1953	Electroless deposition of CoO thin films. <b>1999</b> , 32, 533-540	9
1952	Structural and optical properties of sputtered ZnO films. <b>1999</b> , 348, 165-172	203

1951	Effect of low energy oxygen ion beam on optical and electrical characteristics of dual ion beam sputtered SnO <sub>2</sub> thin films. <b>1999</b> , 349, 126-129	21
1950	Intrinsic optical and structural properties of SrS thin films. <b>1999</b> , 350, 67-71	11
1949	Thin films of tetragonal zirconia with Bi doping: deposition, characterisation and thermal behaviour. <b>1999</b> , 352, 73-76	5
1948	Simultaneous determination of the optical properties and of the structure of r.f.-sputtered ZnO thin films. <b>1999</b> , 353, 93-99	43
1947	SnO <sub>2</sub> thin films prepared by ion beam induced CVD: preparation and characterization by X-ray absorption spectroscopy. <b>1999</b> , 353, 113-123	39
1946	Simultaneous measurement of spectral optical properties and thickness of an absorbing thin film on a substrate. <b>1999</b> , 354, 176-186	8
1945	Influence of substrate temperature on atomic layer growth and properties of HfO <sub>2</sub> thin films. <b>1999</b> , 340, 110-116	256
1944	Cobalt oxide films grown by a dipping sol-gel process. <b>1999</b> , 346, 138-144	34
1943	Effect of substrate temperature on the physical properties of DC reactive magnetron sputtered ZnO films. <b>1999</b> , 13, 239-247	34
1942	Determination of the optical constants and dielectric functions of thin film a-Si:H solar cell layers. <b>1999</b> , 57, 49-59	9
1941	Optical properties of sol-gel dip-coated Ta <sub>2</sub> O <sub>5</sub> films for electrochromic applications. <b>1999</b> , 59, 265-275	61
1940	Heat treatment effects on the optical properties of Sol-gel Ta <sub>2</sub> O <sub>5</sub> thin films. <b>1999</b> , 59, 367-375	17
1939	Optical and dielectric properties of dc magnetron sputtered AlN thin films correlated with deposition conditions. <b>1999</b> , 68, 1-4	25
1938	Protective coatings on copper prepared by sol-gel for industrial applications. <b>1999</b> , 122, 14-17	33
1937	Calculation and analysis of the complex refractive index of uniform films of the As <sub>55</sub> Se glassy alloy deposited by thermal evaporation. <b>1999</b> , 122, 60-66	4
1936	Growth of tantalum pentoxide film by pulsed laser deposition. <b>1999</b> , 138-139, 320-324	52
1935	Vacuum ultraviolet annealing of thin films grown by pulsed laser deposition. <b>1999</b> , 138-139, 587-592	20
1934	Optical characterization of vapour-deposited amorphous As <sub>25</sub> S <sub>65</sub> Ag <sub>10</sub> films. <b>1999</b> , 143, 39-44	9

1933	Optical and electrochromic properties of sol-gel made CeO <sub>2</sub> /TiO <sub>2</sub> thin films. <b>1999</b> , 44, 3127-3136	50
1932	Characterisation of DC Reactive Magnetron Sputtered ZnO Films Prepared at Different Oxygen Pressures. <b>1999</b> , 173, 425-436	14
1931	Microstructures and optical properties of sol-gel derived TiO <sub>2</sub> anatase thin films. <b>1999</b> , 4, 167-170	1
1930	Optical and electrical properties of zinc oxide films prepared by spray pyrolysis. <b>1999</b> , 22, 921-926	72
1929	Optical characterization of hydrogenated amorphous silicon thin films deposited at high rate. <b>1999</b> , 28, 1452-1456	8
1928	Optical absorption in amorphous hydrogenated silicon nitride thin films deposited by the electron cyclotron resonance plasma method and subjected to rapid thermal annealing. <b>1999</b> , 343-344, 433-436	2
1927	Photoinduced changes of the structure and index of refraction of amorphous As-S films. <b>1999</b> , 343-344, 484-487	6
1926	Thermally and photoinduced changes of structure and optical properties of As-Ga-S amorphous films and glasses. <b>1999</b> , 343-344, 488-491	5
1925	Ion-beam modification of TiO <sub>2</sub> film to multilayered photocatalyst. <b>1999</b> , 148, 758-761	31
1924	Optical-constant calculation of non-uniform thickness thin films of the Ge <sub>10</sub> As <sub>15</sub> Se <sub>75</sub> chalcogenide glassy alloy in the sub-band-gap region (0.1-1.8eV). <b>1999</b> , 60, 231-239	77
1923	Estimation of the Optical Constants and the Thickness of Thin Films Using Unconstrained Optimization. <b>1999</b> , 151, 862-880	211
1922	Novel optical material: Polyarylates with heterocyclic side chain groups. <b>1999</b> , 71, 1017-1028	16
1921	Structure and Optical Properties of dc Reactive Magnetron Sputtered Zinc Oxide Films. <b>1999</b> , 34, 981-988	41
1920	Low loss photoinduced waveguides in rapid thermally annealed films of chalcogenide glasses. <b>1999</b> , 74, 13-15	67
1919	Optical Absorption and Photoluminescence Studies of n-type GaN. <b>1999</b> , 38, L993-L995	30
1918	THE INFLUENCE OF DEPOSITION AND PROCESSING CONDITIONS ON THE PROPERTIES OF EVAPORATED CdTe/ CdS LAYERS AND SOLAR CELLS. <b>1999</b> , 20, 79-92	
1917	Optical properties of amorphous As <sub>2</sub> Se and Ge <sub>2</sub> As <sub>2</sub> Se thin films. <b>1999</b> , 39, 122-128	124
1916	Optical properties of thin-film ternary Ge <sub>10</sub> As <sub>15</sub> Se <sub>75</sub> chalcogenide glasses. <b>1999</b> , 39, 232-239	34

1915	Photoinduced changes in the linear and non-linear optical properties of chalcogenide glasses. <b>1999</b> , 249, 150-159	69
1914	Admittance analysis of an MIS structure made with PECVD deposited a-SiN <sub>x</sub> :H thin films. <b>1999</b> , 249, 131-144	9
1913	On the photo- and thermally-induced darkening phenomena in As <sub>40</sub> S <sub>40</sub> Se <sub>20</sub> amorphous chalcogenide thin films. <b>1999</b> , 32, 3128-3134	18
1912	Controlled Growth of TaN, Ta <sub>3</sub> N <sub>5</sub> , and TaO <sub>x</sub> N <sub>y</sub> Thin Films by Atomic Layer Deposition. <b>1999</b> , 11, 1712-1718	150
1911	Characteristics of ion-beam-sputtered high-refractive-index TiO <sub>2</sub> -SiO <sub>2</sub> mixed films. <b>1999</b> , 16, 1477	39
1910	Interference coatings based on synthesized silicon nitride. <b>1999</b> , 38, 2078-82	18
1909	Microcavity lasing of optically excited cadmium sulfide thin films at room temperature. <b>1999</b> , 24, 1278-80	22
1908	Absorption Coefficient and Refractive Index of GaN, AlN and AlGa <sub>N</sub> Alloys. <b>1999</b> , 4, 502-507	55
1907	A Drastic Change in Structure and Property of TiO <sub>2</sub> Thin Films Deposited by Metal-Organic Chemical Vapor Deposition With Deposition Temperature. <b>2000</b> , 616, 67	
1906	Comparison Study of a-SiGe Solar Cells and Materials Deposited Using Different Hydrogen Dilution. <b>2000</b> , 609, 3031	3
1905	Physical Properties of Zinc Oxide Films Prepared by dc Reactive Magnetron Sputtering at Different Sputtering Pressures. <b>2000</b> , 35, 1193-1202	51
1904	Texture development in nanocrystalline hafnium dioxide thin films grown by atomic layer deposition. <b>2000</b> , 220, 105-113	110
1903	Anomalous effect of temperature on atomic layer deposition of titanium dioxide. <b>2000</b> , 220, 531-537	106
1902	Optical and structural differences between RF and DC Al <sub>x</sub> N <sub>y</sub> magnetron sputtered films. <b>2000</b> , 359, 17-20	17
1901	Doping effects on the optical properties of evaporated a-Si:H films. <b>2000</b> , 360, 293-297	25
1900	Synthesis and characterization of some ZnS-based thin film phosphors for electroluminescent device applications. <b>2000</b> , 365, 134-138	105
1899	Thickness dependence of the optical properties of sputter deposited Ti oxide films. <b>2000</b> , 365, 119-125	106
1898	Optical inhomogeneity of BaTiO <sub>3</sub> thin films and its correlation with some deposition conditions. <b>2000</b> , 58, 374-386	8

1897	Preparation of metal nitride and oxide thin films using shielded reactive vacuum arc deposition. <b>2000</b> , 59, 159-167	27
1896	Precise determination of the refractive index of sputtered MgO thin films in the visible light range. <b>2000</b> , 59, 531-537	16
1895	Characterisation of ZrO <sub>2</sub> films prepared by rf reactive sputtering at different O <sub>2</sub> concentrations in the sputtering gases. <b>2000</b> , 56, 143-148	74
1894	A new method of determining the optical constants of a thin film from its reflectance and transmittance interferograms in a wide spectral range: 0.28 $\mu$ m. <b>2000</b> , 178, 123-132	12
1893	Characterization of titanium dioxide atomic layer growth from titanium ethoxide and water. <b>2000</b> , 370, 163-172	69
1892	Titanium-aluminum-nitride coatings for satellite temperature control. <b>2000</b> , 370, 268-277	40
1891	Structural and optical properties of yttria-stabilized-zirconia films grown by MOCVD. <b>2000</b> , 370, 173-178	22
1890	Optical characterization of low optical thickness thin films from transmittance and back reflectance measurements. <b>2000</b> , 372, 149-155	56
1889	PECVD of amorphous TiO <sub>2</sub> thin films: effect of growth temperature and plasma gas composition. <b>2000</b> , 371, 126-131	136
1888	Density and refractive index of TiO <sub>2</sub> films prepared by reactive evaporation. <b>2000</b> , 371, 218-224	191
1887	Surface topography and gloss of polyolefin blown films. <b>2000</b> , 40, 747-760	25
1886	Titanium isopropoxide as a precursor for atomic layer deposition: characterization of titanium dioxide growth process. <b>2000</b> , 161, 385-395	182
1885	Characterization of mixed Ti/Al oxide thin films prepared by ion-beam-induced CVD. <b>2000</b> , 161, 209-218	4
1884	Optical and structural properties of two-sourced evaporated ZnTe thin films. <b>2000</b> , 167, 1-11	54
1883	Ultraviolet annealing of thin films grown by pulsed laser deposition. <b>2000</b> , 154-155, 17-21	8
1882	Properties of titanium oxide films obtained by PECVD. <b>2000</b> , 126, 123-130	37
1881	Structure and properties of a-Si:H films grown by cyclic deposition. <b>2000</b> , 34, 477-480	3
1880	Method of the ratio of envelopes of the reflection spectrum for measuring optical constants and thickness of thin films. <b>2000</b> , 88, 581-585	8

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1878	ZnO film formation using a steered and shielded reactive vacuum arc deposition. <b>2000</b> , 377-378, 74-80	38
1877	Study of ZrO <sub>2</sub> /ZrO <sub>3</sub> films prepared by rf magnetron reactive sputtering. <b>2000</b> , 377-378, 32-36	42
1876	High rate and process control of reactive sputtering by gas pulsing: the TiO <sub>2</sub> system. <b>2000</b> , 377-378, 550-556	36
1875	Determination of optical parameters in general film-substrate systems: a reformulation based on the concepts of envelope extremes and local magnitudes. <b>2000</b> , 39, 4557-68	15
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1873	STRUCTURE AND OPTICAL PROPERTIES OF NANOCRYSTALLINE ERBIA DOPED ZIRCONIA THIN FILMS. <b>2000</b> , 14, 1239-1248	1
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1868	Structure and imaging properties of As <sub>40</sub> S <sub>60</sub> -Se glasses. <b>2000</b> , 266-269, 964-968	30
1867	Growth and properties of microcrystalline germanium-carbide alloys grown using electron cyclotron resonance plasma processing. <b>2000</b> , 270, 255-259	37
1866	Controlling the optical constants of thermally-evaporated Ge <sub>10</sub> Sb <sub>30</sub> S <sub>60</sub> chalcogenide glass films by photodoping with silver. <b>2000</b> , 274, 62-68	55
1865	Raman study of ion irradiated GeSe films. <b>2000</b> , 266-269, 924-928	23
1864	Photo-induced dissolution effect in Ag/As <sub>33</sub> S <sub>67</sub> multilayer structures and its potential application. <b>2000</b> , 266-269, 979-984	25
1863	Nonlinear optical absorption in undoped and cerium-doped BaTiO <sub>3</sub> thin films using Z-scan technique. <b>2000</b> , 76, 1003-1005	60
1862	Refractive indices and absorption coefficients of Mg <sub>x</sub> Zn <sub>1-x</sub> O alloys. <b>2000</b> , 76, 979-981	175



1861	Structural evolution and optical properties of TiO <sub>2</sub> thin films prepared by thermal oxidation of sputtered Ti films. <b>2000</b> , 88, 4628	181
1860	Plasma deposition of optical films and coatings: A review. <b>2000</b> , 18, 2619-2645	428
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1858	Crystalline and optical properties of PLZT films prepared by pulsed laser deposition. <b>2000</b> , 31, 69-75	2
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1855	Synthesis and Characterization of Novel Self-Generating Liquid MOCVD Precursors for Thin Films of Zinc Oxide. <b>2000</b> , 12, 548-554	51
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1852	Determination of thickness and optical constants of amorphous silicon films from transmittance data. <b>2000</b> , 77, 2133-2135	76
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1833	Spectroscopic ellipsometry analysis of nanocrystalline silicon carbide obtained at low temperature. <b>2001</b> , 184, 150-155	11
1832	Low temperature growth of rutile TiO <sub>2</sub> films in modified rf magnetron sputtering. <b>2001</b> , 135, 286-290	85
1831	Energy distribution of ions bombarding TiO <sub>2</sub> thin films during sputter deposition. <b>2001</b> , 138, 77-83	41
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1829	Temperature and ionic size dependence on the structure and optical properties of nanocrystalline lanthanide doped zirconia thin films. <b>2001</b> , 384, 254-260	15
1828	Application of optical method for quantitative investigation of MgO erosion in a.c. plasma display panels. <b>2001</b> , 384, 115-119	7
1827	Low temperature preparation of orthoferrite thin-films by an inorganic sol-gel process. <b>2001</b> , 385, 230-233	19
1826	Optical properties of amorphous Ge <sub>2</sub> Se <sub>3</sub> Tl system films. <b>2001</b> , 386, 99-104	64

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1820	Determination of the mechanical properties of thin films by digital phase shifting interferometry. <b>2001</b> , 198, 325-331	15
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1811	Light transmission and haze of polyethylene blown thin films. <b>2001</b> , 41, 358-372	25
1810	Low-temperature silicon nitride for thin-film electronics on polyimide foil substrates. <b>2001</b> , 175-176, 12-16	48
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1795	Optical diffraction gratings produced by laser interference structuring of amorphous germanium/nitrogen alloys. <b>2002</b> , 81, 2731-2733	5
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1751	Highly (111)-oriented PbTiO <sub>3</sub> films prepared by rf planar magnetron sputtering and their optical properties. <b>2002</b> , 160, 173-176	12
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1731	Mesostructured dye-doped titanium dioxide for micro-optoelectronic applications. <b>2003</b> , 4, 595-603	78
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1722	Optical properties of amorphous PbZr <sub>x</sub> Ti <sub>1-x</sub> O <sub>3</sub> (x=0.52) thin films prepared by RF magnetron sputtering. <b>2003</b> , 437, 223-229	21
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1717	Zirconium sputtering by argon/hydrogen and argon/oxygen plasma. <b>2003</b> , 169-170, 487-490	2
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1528	Preparation of Nanocrystalline Silicon Carbide Thin Films by Hot-Wire Chemical Vapor Deposition at Various Filament Temperature. <b>2006</b> ,	2
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1364	Fabrication and characterization of orientated grown AlN films sputtered at room temperature. <b>2007</b> , 204, 1130-1137	4
1363	Optical and Structural Characteristics of Ion-Plated Nb <sub>2</sub> O <sub>5</sub> and HfO <sub>2</sub> Films. <b>2007</b> , 4, S53-S58	7
1362	Characterization of ZnO:Al thin films obtained by spray pyrolysis technique. <b>2007</b> , 58, 319-322	75
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715	Optical constants of rare-earth substituted amorphous oxide-mix-based layers deposited to enable synthesis of magneto-optic garnets. <b>2019</b> , 98, 109309	1
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695	Influence of phase composition on optical properties of TiO <sub>2</sub> : Dependence of refractive index and band gap on formation of TiO <sub>2</sub> -II phase in thin films. <b>2019</b> , 96, 109335	23
694	Structural and optical properties of As <sub>2</sub> Se <sub>3</sub> chalcogenide films prepared by plasma-enhanced chemical vapor deposition. <b>2019</b> , 6, 056407	20
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689	Effect of Ni incorporation on structural, optical and magnetic properties of electron beam evaporated ZnS thin films. <b>2019</b> , 135, 109028	8
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685	Fabrication of n-MgZnO/p-Si heterojunction diode: Role of magnesium doping. <b>2019</b> , 131, 104-116	10
684	Structural and luminescence properties of laser assisted Eu <sup>3+</sup> doped BaZrO <sub>3</sub> thin films. <b>2019</b> , 801, 99-111	10
683	Differences between (103) and (002) X-ray diffraction characteristics of nanostructured AZO films deposited by RF magnetron sputtering. <b>2019</b> , 372, 442-450	10
682	Thickness-dependent microwave dielectric and nonlinear optical properties of Bi <sub>0.5</sub> Na <sub>0.5</sub> TiO <sub>3</sub> thin films. <b>2019</b> , 488, 391-403	12
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679	Influence of nitrogen partial pressure on optical properties of magnetron sputtered Al-Si-N thin films. <b>2019</b> , 682, 1-9	3
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676	Microstructure, optical and electrical properties of thin films of gallium-phosphorus-titanium alloys synthesized by asymmetric bipolar pulsed direct current magnetron sputtering. <b>2019</b> , 681, 6-14	1
675	Influence of Bi content on linear and nonlinear optical properties of As <sub>40</sub> Se <sub>60-x</sub> Bi <sub>x</sub> chalcogenide thin films. <b>2019</b> , 19, 884-893	32
674	Modification of solution processed thin chalcogenide films composition by source solution doping. <b>2019</b> , 517, 76-82	4

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672	Study on lattice constant and magnetic properties of bismuth substituted YIG polycrystal thin film on different substrates prepared by rf magnetron sputtering. <b>2019</b> , 30, 7410-7414	2
671	Optical characterization of nano-structured Cu <sub>2</sub> ZnSnS <sub>4</sub> thin films deposited by GLAD technique. <b>2019</b> , 60, 193-207	4
670	Optical constants, dispersion parameters and non-linearity of different thickness of As <sub>40</sub> S <sub>45</sub> Se <sub>15</sub> thin films for optoelectronic applications. <b>2019</b> , 186, 275-287	34
669	Tunable optical bandgap in ternary Ge-As-S chalcogenide glass. <b>2019</b> ,	
668	Optical spectroscopy study of modifications induced in cerium dioxide by electron and ion irradiations. <b>2019</b> , 99, 1695-1714	6
667	Evaluation of CdS/CdTe thin film solar cells: SCAPS thickness simulation and analysis of optical properties. <b>2019</b> , 92, 319-329	34
666	Enhanced luminescence property of 1 D nanorods realised by aqueous chemical growth on indium doped zinc oxide thin films. <b>2019</b> , 686, 137279	3
665	Sol-gel route to nanocrystalline Eu <sub>2</sub> Ti <sub>2</sub> O <sub>7</sub> films with tailored structural and optical properties. <b>2019</b> , 102, 6713-6723	3
664	Structural and physical properties of NbO <sub>2</sub> and Nb <sub>2</sub> O <sub>5</sub> thin films prepared by magnetron sputtering. <b>2019</b> , 30, 9822-9835	15
663	Role of chamber pressure on crystallinity and composition of silicon films using silane and methane as precursors in hot-wire chemical vapour deposition technique. <b>2019</b> , 682, 126-130	1
662	Pronounced Impact of -Type Carriers and Reduction of Bandgap in Semiconducting ZnTe Thin Films by Cu Doping for Intermediate Buffer Layer in Heterojunction Solar Cells. <b>2019</b> , 12,	8
661	Optical band gap and dispersion of optical constants of Cu-Ga-S thin films. <b>2019</b> , 186, 147-154	3
660	Thickness dependent correlation between structural and optical properties of textured CdSe thin film. <b>2019</b> , 9, 045123	22
659	Physical properties evaluation of nebulized spray pyrolysis prepared Nd doped ZnO thin films for opto-electronic applications. <b>2019</b> , 30, 7257-7267	7
658	The response of (GeS <sub>2</sub> ) <sub>x</sub> (Sb <sub>2</sub> S <sub>3</sub> ) <sub>(1-x)</sub> thin films to illumination and annealing. <b>2019</b> , 676, 113-119	1
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656	Effect of particle size and dopant concentration on the Raman and the photoluminescence spectra of TiO <sub>2</sub> :Eu <sup>3+</sup> nanophosphor thin films. <b>2019</b> , 211, 320-333	34

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650	Fabrication, structure and optical application of Fe <sup>2+</sup> :ZnSe nanocrystalline film. <b>2019</b> , 89, 473-479	6
649	Thermal annealing induced evolution of Bi <sub>3</sub> Se <sub>2</sub> topological phase from Bi/As <sub>2</sub> Se <sub>3</sub> thin film: Structural, optical and morphological study. <b>2019</b> , 560, 51-59	8
648	Characterization of HfO <sub>2</sub> Optical Coatings Deposited by MF Magnetron Sputtering. <b>2019</b> , 9, 106	20
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637	Optical and Structural Changes in Swift Heavy Ion Irradiated Selenium Based Amorphous Chalcogenides for Optical Applications. <b>2019</b> , 551, 74-86	4
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629	Investigation on annealing temperature-dependent optical properties of electron beam evaporated ZnSe thin films. <b>2019</b> , 669, 247-252	20
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627	Thermal darkening of one-dimensional photonic crystal containing tellurium suboxide. <b>2019</b> , 88, 167-175	1
626	A systematic study of multifunctional xTiO <sub>2</sub> /(100 Å)SiO <sub>2</sub> thin films prepared by sol-gel process. <b>2019</b> , 89, 380-391	4
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624	Correlation between induced changes in the structural properties of nanostructured boron subphthalocyanine chloride thin films and their linear and nonlinear optical properties. <b>2019</b> , 112, 126-133	12
623	Effects of substrate temperature and precursor amount on optical properties and microstructure of CVD deposited amorphous TiO <sub>2</sub> thin films. <b>2019</b> , 129, 217-226	26
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617	Structural and optical properties of cadmium telluride obtained by physical vapor deposition technique. <b>2019</b> , 9, 715-724	6
616	Investigation of structural and optical properties of oblique angle sputter deposited barium strontium titanate nanostructures. <b>2019</b> , 6, 025009	1
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614	Effect of deposition rate and heat treatment on microstructural, morphological, optical properties and ultra-fast laser-induced damage threshold of Al <sub>2</sub> O <sub>3</sub> -ZrO <sub>2</sub> pure and mixed thin films prepared by electron beam evaporation. <b>2019</b> , 669, 162-168	2
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612	Optical characterization of nanostructured Ge <sub>1-x</sub> Sn <sub>x</sub> Se <sub>2.5</sub> (x = 0, 0.3, 0.5) films. <b>2019</b> , 51, 1	4
611	Optical and structural properties of TiO <sub>2</sub> as intermediate buffer layer prepared by DC reactive magnetron sputtering for solar cells. <b>2019</b> , 181, 1122-1129	7
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609	Modification of GaN thin film on sapphire substrate optical properties under weak magnetic fields. <b>2019</b> , 6, 036413	2
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599	Structural and opto-electronic properties of epoxy/silver nanocomposite films. <b>2020</b> , 578, 411853	4
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581	Time dependent bond arrangement approach to photo-induced changes in Ge <sub>30</sub> -Sb <sub>70</sub> thin films. <b>2020</b> , 242, 122521	3
580	Simplified two-electrode electrochemical growth and characterization of Cd <sub>1-x</sub> Zn <sub>x</sub> S thin films: Influence of electrolytic bath pH. <b>2020</b> , 580, 411939	3
579	Irradiation induced modification of structural and optical properties of potassium sodium niobate thin films. <b>2020</b> , 126, 1	106
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523	MORPHOLOGICAL, STRUCTURAL AND OPTICAL CHARACTERIZATIONS OF Zn-DOPED CdS BUFFER LAYER ELABORATED BY CHEMICAL BATH DEPOSITION. <b>2020</b> , 27, 2050009	
522	Effect of structural design on the electrical, optical and mechanical properties of flexible BaSnO <sub>3</sub> /Ag composite thin films. <b>2020</b> , 117, 105189	0
521	Optical nonlinearity, saturation in absorption and optical bistability of AZO films synthesized in presence of sodium hydroxide. <b>2020</b> , 587, 412148	4
520	Investigation of the effect of S/In molar ratio on physical properties of sprayed InS thin films.. <b>2020</b> , 10, 21180-21190	1
519	Investigation on the coloring and bleaching processes of WO <sub>3</sub> photochromic thin films. <b>2020</b> , 8, 9410-9421	17
518	Influence of temperature on optical properties of electron-beam-evaporated ZnSe thin film. <b>2020</b> , 95, 075804	3
517	Effects of various substrate materials on microstructural and optical properties of amorphous silicon oxynitride thin films deposited by plasma-enhanced chemical vapor deposition. <b>2020</b> , 709, 138186	1
516	Optical and structure properties of CdTe/CdS films under influence of both CdCl <sub>2</sub> heat treatment and (O <sub>2</sub> + Ar) atmosphere. <b>2020</b> , 126, 1	8
515	Linear and nonlinear optical properties change in Ag/GeS heterostructure thin films by thermal annealing and laser irradiation. <b>2020</b> , 52, 1	9
514	Surface plasmon enhanced light-induced changes in Ge Se amorphous chalcogenide /Gold nanostructures. <b>2020</b> , 6, 100045	4
513	Infrared band strengths and other properties of amorphous and crystalline dimethyl ether. <b>2020</b> , 233, 118217	2
512	Carbon impact on surface morphology and electrical properties of Cu-TiC thin film. <b>2020</b> , 7, 036406	1

511	Measurement and ab initio Investigation of Structural, Electronic, Optical, and Mechanical Properties of Sputtered Aluminum Nitride Thin Films. <b>2020</b> , 8,	11
510	Effect of oxygen partial pressure on nonlinear optical and electrical properties of BNT/BNNG composite thin films. <b>2020</b> , 31, 2986-2996	3
509	Laser-induced modification of optical properties of glassy selenium films synthesized by vacuum thermal evaporation. <b>2020</b> , 545, 120249	4
508	Optical and Gas sensing properties of $\text{Ba}_{x}\text{Sr}_{1-x}\text{TiO}_3$ (with $x=0.5$ and $x=0.7$ ) thin films grown using Pulse Laser Deposition. <b>2020</b> , 814, 012036	1
507	Impact of different annealing conditions on physical properties of ZnSe thin films for ecofriendly buffer layer applications. <b>2020</b> , 132, 110982	11
506	Influence of Oxygen Defects and Their Evolution on the Ferromagnetic Ordering and Band Gap of Mn-Doped ZnO Films. <b>2020</b> , 124, 16116-16126	11
505	Deposition and properties of $\text{ZnSiO}_3$ -containing zinc oxide thin films reactively sputtered at room temperature. <b>2020</b> , 709, 138218	3
504	On the structural and thermophysical study of Pb-doped Se-Te-In nanochalcogenide alloys. <b>2020</b> , 8, 777-792	2
503	Applicability of different models of energy bandgap and refractive index for chalcogenide thin films. <b>2020</b> , 28, 92-95	4
502	Investigations of the optical and electronic effects of silicon and indium co-doping on ZnO thin films deposited by spray pyrolysis. <b>2020</b> , 75, 23-32	4
501	The effect of substitution of Sb with Zn on the optical and physical properties of $\text{Se}_{90}\text{Sb}_{10-x}\text{Zn}_x$ ( $x = 0, 2, 4, 6, 10$ at. %) thin films. <b>2020</b> , 207, 164460	9
500	Morphology and optical analysis of defect levels in ultrasonically-sprayed zinc tin oxide thin films. <b>2020</b> , 46, 13151-13158	3
499	Optical properties, microstructure, and multifractal analyses of ZnS thin films obtained by RF magnetron sputtering. <b>2020</b> , 31, 5262-5273	13
498	Design and fabrication of $\text{MgF}_2$ single-layer antireflection coating by glancing angle deposition. <b>2020</b> , 24, 442-446	2
497	Cr doping effect on the structural, optoelectrical and photocatalytic properties of RF sputtered $\text{TiO}_2$ thin films from a powder target. <b>2020</b> , 825, 153988	10
496	Multifractal and optical bandgap characterization of $\text{Ta}_2\text{O}_5$ thin films deposited by electron gun method. <b>2020</b> , 52, 1	26
495	Au-WO Nanocomposite Coatings for Localized Surface Plasmon Resonance Sensing. <b>2020</b> , 13,	6
494	Nondestructive Testing of Hollowing Deterioration of the Yungang Grottoes Based on THz-TDS. <b>2020</b> , 9, 625	4

493	Photochromic properties of yttrium oxyhydride thin films: Surface versus bulk effect. <b>2020</b> , 11, 100706	9
492	Influence of low energy Ag ion irradiation for formation of Bi <sub>2</sub> Se <sub>3</sub> phase from Bi/GeSe <sub>2</sub> heterostructure thin films. <b>2020</b> , 126, 1	13
491	Optical Characteristics of Parallel-Sided Quartz Plates at Brewster Angles Determined by Spectral Ellipsometry. <b>2020</b> , 87, 105-111	3
490	Impact of Cd-addition upon optical properties and dispersion parameters of thermally evaporated Cd <sub>x</sub> Zn <sub>1-x</sub> Se films: Discussions on bandgap engineering, conduction and valence band positions. <b>2020</b> , 212, 164681	23
489	Influence of substrate and sintering temperature on the thickness and number of layers of 3YSZ multilayer sol-gel coatings. <b>2020</b> , 46, 18347-18351	3
488	Electrical transport of sprayed In <sub>2</sub> S <sub>3</sub> :Ag thin films. <b>2020</b> , 114, 105080	7
487	Insulating regions in a TiO <sub>2</sub> thin film defined by laser irradiation. <b>2020</b> , 38, 032203	1
486	(400)-Oriented indium tin oxide thin films with high mobility and figure of merit prepared by radio frequency magnetron sputtering. <b>2020</b> , 704, 137972	4
485	Effect of thermal annealing on the optical properties of Ge <sub>20</sub> Se <sub>65</sub> S <sub>15</sub> thin films. <b>2021</b> , 95, 1245-1253	9
484	Effect of metal ions doping on structural, optical properties and photocatalytic activity of anatase TiO <sub>2</sub> thin films. <b>2021</b> , 53, 194-205	3
483	Electrical investigation of sprayed In <sub>2</sub> S <sub>3</sub> film. <b>2021</b> , 121, 105294	5
482	Infrared spectra and optical constants of astronomical ices: III. Propane, propylene, and propyne. <b>2021</b> , 354, 114033	10
481	Investigation of optical band-gap and related optical properties in thin-films of Ge containing Se-Te-Sn alloys. <b>2021</b> , 551, 120399	5
480	First synthesis of In-doped vanadium pentoxide thin films and their structural, optical and electrical characterization. <b>2021</b> , 263, 114755	3
479	Effect of oxygen pressure and post-annealing on the properties of reactively sputtered zinc oxide thin films. <b>2021</b> , 39, 1163-1169	0
478	Simultaneously enhanced performances of flexible CuNW networks by covering ATO layer for polymer solar cells. <b>2021</b> , 221, 110885	6
477	Optical and structural characterization of Tm <sub>2</sub> O <sub>3</sub> , TmN, and TmO <sub>x</sub> N <sub>y</sub> thin films grown by direct-current reactive magnetron sputtering. <b>2021</b> , 717, 138450	1
476	Growth of In <sub>2</sub> S <sub>3</sub> nanolayers on F-Mica, SiO <sub>2</sub> , ZnO, and TiO <sub>2</sub> substrates using chemical vapor deposition. <b>2021</b> , 264, 114889	3

475	Optical and structural modification in amorphous Ge <sub>24</sub> Se <sub>61</sub> Sb <sub>15</sub> thin films under 80 MeV Silicon swift heavy ions for telecom and optical applications. <b>2021</b> , 111, 110686	3
474	Design strategy and interface chemistry of ageing stable AZO films as high quality transparent conducting oxide. <b>2021</b> , 582, 1041-1057	2
473	Mechanical properties and thermal shock in thin ZrO <sub>2</sub> /2O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> films obtained by the sol-gel method. <b>2021</b> , 47, 80-86	2
472	Electrical, optical and photoconductive properties of Sn-doped indium sulfofluoride thin films. <b>2021</b> , 121, 105349	0
471	Optical properties and morphology analysis of hexagonal WO <sub>3</sub> thin films obtained by electron beam evaporation. <b>2021</b> , 32, 798-805	7
470	Effect of Co doping on optical parameters of SnO <sub>2</sub> thin films. <b>2021</b> , 111, 110579	0
469	Synthesis and Characterization of Conducting Polyaniline Nanostructured Thin Films for Solar Cell Applications. <b>2021</b> , 73, 504-514	2
468	Structural, Optical and Photocatalytic Properties of PVC/CdS Nanocomposites Prepared by Soft Chemistry Method. <b>2021</b> , 31, 1102-1110	7
467	Optical properties of poly (methyl methacrylate) doped (Se <sub>80</sub> Te <sub>20</sub> ) <sub>94</sub> Ag <sub>6</sub> composite films. <b>2021</b> ,	
466	Optical and resistive switching properties of Chitosan-aluminum-doped zinc oxide composite thin films for transparent resistive random access memory application. <b>2021</b> , 32, 3556-3565	3
465	Optical and structural properties of aluminium nitride thin-films synthesized by DC-magnetron sputtering technique at different sputtering pressures. <b>2021</b> , 27, 3149-3159	2
464	Rare-earth (Dy)-doped (GeS <sub>2</sub> ) <sub>80</sub> (In <sub>2</sub> S <sub>3</sub> ) <sub>20</sub> thin film: influence of annealing temperature in argon environment on the linear and nonlinear optical parameters. <b>2021</b> , 127, 1	5
463	Comparative Study on Morphology, Structural and Optical Properties of Non-seeded and Seeded ZnO Nanorods. <b>2021</b> , 961-969	
462	Physical properties of graphene oxide GO-doped ZnO thin films for optoelectronic application. <b>2021</b> , 127, 1	4
461	To study substrate dependent linear and nonlinear refractive index of chalcogenide Se <sub>82</sub> Te <sub>15</sub> Bi <sub>3.0</sub> thin films. <b>2021</b> ,	
460	Growth of Self-Passivating Oxide Layers on Aluminum Pressure and Temperature Dependence. <b>2021</b> , 258, 2000559	3
459	Annealing Temperature-Dependent Optical Properties of (Ta <sub>2</sub> O <sub>5</sub> ) <sub>0.965</sub> (TiO <sub>2</sub> ) <sub>0.035</sub> Thin Films. <b>2021</b> , 571-578	
458	Polymer-Particle Enhanced Visible Light Range Photocatalytic Activity on Textile Applications. <b>2021</b> , 38, 269-280	

457	PRISA: a user-friendly software for determining refractive index, extinction co-efficient, dispersion energy, band gap, and thickness of semiconductor and dielectric thin films. <b>2021</b> , 2, 010008	1
456	Influence of top layer on the linear and nonlinear optical parameters of Ag(Te)/As <sub>50</sub> Se <sub>50</sub> bilayer thin films. 1	1
455	Influence of silver doping on physical properties of sprayed In <sub>2</sub> S <sub>3</sub> films for solar cells application. <b>2021</b> , 32, 4568-4580	7
454	Recent innovations in properties of nanostructured glasses and composites. <b>2021</b> , 16, 181-212	2
453	Wide optical gap B-doped nc-Si thin films with advanced crystallinity and conductivity on transparent flexible substrates for potential low-cost flexible electronics including nc-Si superstrate p-i-n solar cells. <b>2021</b> , 2, 2055-2067	10
452	Variable-period oscillations in optical spectra in sub-bandgap long wavelength region: signatures of new dispersion of refractive index?. <b>2021</b> , 54, 155102	3
451	Optical Characteristics of Annealed Barium Titanate Films Formed by the Sol-Gel Method. <b>2021</b> , 87, 1050-1056	4
450	Photovoltaic Application Study of Zinc Telluride Thin Films Grown by Chemical Bath Deposition Method. <b>2021</b> , 11, 131-144	4
449	Anion Substitution Effects on the Structural, Electronic, and Optical Properties of Inorganic CsPb(I <sub>1-x</sub> Br <sub>x</sub> ) <sub>3</sub> and CsPb(Br <sub>1-x</sub> Cl <sub>x</sub> ) <sub>3</sub> Perovskites: Theoretical and Experimental Approaches. <b>2021</b> , 125, 886-897	12
448	Study of Undoped Nanocrystalline Diamond Films Grown by Microwave Plasma-Assisted Chemical Vapor Deposition. <b>2021</b> , 55, 66-75	0
447	Effect of Cu Metallic Interlayer Thickness on Optoelectronic Properties of TiO <sub>2</sub> -Based Multilayers Deposited by DC Pulsed Magnetron Sputtering. <b>2021</b> , 50, 2699-2709	1
446	Sol-gel prepared ZnO:Al thin films for heterojunction diodes. <b>2021</b> , 32, 7791-7800	1
445	The main role of bismuth in controlling linear and nonlinear optical, electronic and electrical parameters of Se <sub>1-x</sub> Te <sub>x</sub> Bi thin films. <b>2021</b> , 32, 6866-6882	8
444	Electromagnetic characterization of transparent conducting thin films using two-port flange coaxial probe and thin-film transfer matrix method. <b>2021</b> , 15, 271-279	
443	Effects of Thickness and Preheated Temperature on Grains Orientation of 2D-ZnO Nanostructure and their Photocatalytic Activity. 66, 113-128	
442	Role of Deposition Pressure on Properties of Phosphorus Doped Hydrogenated Nano-Crystalline Silicon (nc-Si:H) Thin Films Prepared by the Cat-CVD Method. <b>2021</b> , 14, 46-57	
441	Surface plasmon enhanced light-induced changes in Ge-Se amorphous chalcogenide /gold nanostructures. <b>2021</b> , 553, 120491	0
440	Enhanced electrical properties of Te-enriched ZnTe thin films for buffer layer in solar cell. <b>2021</b> , 602, 412557	3

439	Fabrication of Ge-ZnS multilayered optical filters for mid-infrared applications. <b>2021</b> , 719, 138488	5
438	Deposition Time-dependent Study of Structural and Optical Properties of PbS Thin Films Grown by CBD Method. <b>2021</b> , 14, 35-45	
437	Effects of Nd and Mn Co-dopant on the Micro Structure and Optical Properties of BiFeO <sub>3</sub> Thin Films Elaborated by Chemical Solution Deposition (CSD). <b>2021</b> , 1825, 012060	0
436	Preparation and Characterization of Transparent Semiconducting Silica Nanocomposites Doped with P <sub>2</sub> O <sub>5</sub> and Al <sub>2</sub> O <sub>3</sub> . <b>2021</b> , 13, 3733-3739	8
435	Opto-electronic properties of poly-crystalline La doped BaSnO <sub>3</sub> films deposited on quartz substrates. <b>2021</b> , 54, 185108	4
434	Contribution of 80 MeV silicon swift heavy ion irradiation for reforming of optical and structural properties of amorphous Ge <sub>23</sub> Se <sub>62</sub> As <sub>15</sub> thin films for telecommunication and sensing applications. <b>2021</b> , 554, 120597	3
433	Effect of Co-doping level on physical properties of ZnO thin films. <b>2021</b> , 113, 110812	4
432	Effects of Different Amounts of Nb Doping on Electrical, Optical and Structural Properties in Sputtered TiO <sub>2</sub> Films. <b>2021</b> , 11, 301	3
431	Dual Laser Beam Processing of Semiconducting Thin Films by Excited State Absorption. <b>2021</b> , 14,	1
430	Enhancement of structure and optical dispersion properties of N,N'-Bis(3-methylphenyl)-N,N'-diphenylbenzidine thin films: Impact of UV irradiation. <b>2021</b> , 113, 110867	5
429	Bidirectional properties of TiC, TiN and TiNC thin films deposited by radio frequency magnetron sputtering. <b>2021</b> , 32, 73-83	0
428	Optical and Mechanical Properties of ZnS/Ge <sub>0.1</sub> C <sub>0.9</sub> Antireflection Coating on Ge Substrate. <b>2021</b> , 45, 1491-1497	0
427	Effect of Rotational Speed on Microstructure and Optical Properties of Bismuth Ferrite Oxide (BiFeO <sub>3</sub> ). <b>2021</b> , 1096, 012137	1
426	Nitrogen doped carbon nanotubes grafted TiO <sub>2</sub> rutile nanofilms: Promising material for dye sensitized solar cell application. <b>2021</b> , 229, 166234	5
425	Tunability of optical constants of Se-Ge-Ag thin films based on change in resistivity with temperature for solar cells. <b>2021</b> , 47, 21117-21117	0
424	Structural and optical characteristics determined by the sputtering deposition conditions of oxide thin films. <b>2021</b> , 12, 354-365	1
423	Unified Model for Laser Doping of Silicon from Precursors. <b>2021</b> , 14,	1
422	Synthesis and optical analysis of nanostructured F-doped ZnO thin films by spray pyrolysis: Transparent electrode for photocatalytic applications. <b>2021</b> , 114, 110894	15



421	Light-Induced Effects in Amorphous Chalcogenide Glasses: Femtoseconds to Seconds. <b>2021</b> , 3, 255-274	1
420	Investigation of amorphous-crystalline transformation induced optical and electronic properties change in annealed As <sub>50</sub> Se <sub>50</sub> thin films. <b>2021</b> , 53, 1	5
419	Electrical Behavior and Photocatalytic Activity of Ag-Doped In <sub>2</sub> S <sub>3</sub> Thin Films. <b>2021</b> , 50, 3739-3747	1
418	Investigation of the Surface Passivation Effect on the Optical Properties of CsPbBr <sub>3</sub> Perovskite Quantum Dots. <b>2021</b> , 23, 100948	7
417	An Improved Method for Determination of Refractive Index of Dielectric Films from Reflectance Spectrum by Using the Generalized Morse Wavelet. <b>2021</b> , 21, 61-66	
416	Structural, morphological, optical and photocatalytic properties of Ag decorated graphene oxide-TiO <sub>2</sub> films. <b>2021</b> , 724, 138632	2
415	Synthesis and optical characterization of nanocrystalline fluorine-doped tin oxide films: conductive window layer for optoelectronic applications. <b>2021</b> , 127, 1	2
414	Parameterization of photobleaching and photodarkening in-situ kinetics in thermally deposited GeSe <sub>2</sub> thin films. <b>2021</b> , 726, 138659	2
413	Microstructural, optical, and electrical characteristics of Cu-doped CdTe nanocrystalline films for designing absorber layer in solar cell applications. <b>2021</b> , 32, 15095-15107	3
412	Crystalline phase change and improvement in electro-optical parameters of SnS <sub>x</sub> thin films by different ambients. <b>2021</b> , 127, 1	0
411	Optical properties of transition-metal oxide thin films deposited using a pulsed laser. <b>2021</b> , 79, 191-196	
410	Role of Cu dilute on microstructures, optical, photoluminescence, magnetic and electrical properties of CdS film. <b>2021</b> , 127, 105687	1
409	Structural and optoelectronic properties change in Bi/In <sub>2</sub> Se <sub>3</sub> heterostructure films by thermal annealing and laser irradiation. <b>2021</b> , 129, 223101	7
408	Optical properties of [Ta <sub>2</sub> O <sub>5</sub> ] <sub>1-x</sub> [TiO <sub>2</sub> ] <sub>x</sub> , (x = 0.08) thin films. <b>2021</b> , 48, 20-30	
407	Effect of Cu incorporation on the crystallinity, lattice strain, morphology and electrical properties of nanostructured ZnS-PVA thin films. <b>2021</b> , 610, 412924	3
406	Thin-film optical function acquisition from experimental measurements of the reflectance and transmittance spectra: a case study. <b>2021</b> , 32, 17033-17060	
405	Tuning of structural, morphological, optical and electrical properties of SnO <sub>2</sub> by indium inclusion. <b>2021</b> , 44, 1	1
404	Influence of post-deposition annealing on electrical and optical properties of (Ta <sub>2</sub> O <sub>5</sub> ) <sub>1-x</sub> - (TiO <sub>2</sub> ) <sub>x</sub> thin films, x 0.08. <b>2021</b> , 47, 16746-16751	4

403	The correlations between structural and optical properties of magnetite nanoparticles synthesised from natural iron sand. <b>2021</b> , 47, 16820-16827	0
402	The pivotal role of copper on the structural and optical parameters of ZnS thin films for optoelectronic applications. <b>2021</b> , 71, 235-247	2
401	Effect of Sn doping concentration on structural, optical and electrical properties of ZnS/p-Si (111) diodes fabricated by sol-gel dip-coating method. <b>2021</b> , 127, 105693	5
400	Preparation of quaternary solution processed chalcogenide thin films using mixtures of separate As <sub>40</sub> S <sub>60</sub> and Ge <sub>20</sub> Sb <sub>5</sub> S <sub>75</sub> glass solutions. <b>2021</b> , 564, 120833	1
399	Linear and nonlinear optical studies of thermally evaporated chalcogenide a-Pb-Se-Ge thin films. <b>2021</b> , 613, 412985	13
398	Novel Colour-Based, Prototype Indicator for Use in High-Pressure Processing (HPP). <b>2021</b> , 9, 164	
397	Effect of 532 nm Nd:YAG laser irradiation on the optical properties of Ge <sub>1</sub> Se <sub>2.5</sub> glass film. 1-10	1
396	Electrical and optical properties of (Ta <sub>2</sub> O <sub>5</sub> ) <sub>1-x</sub> (TiO <sub>2</sub> ) <sub>x</sub> films, x = 0.035, prepared by sputtering of ceramic and mosaic (Ta, Ti) metal targets. <b>2021</b> , 130, 035304	1
395	Optical properties of multi-stacked BaTiO <sub>3</sub> /SrTiO <sub>3</sub> thin films synthesized via chemical method. <b>2021</b> , 47, 17895-17906	2
394	Selective C–O Bond Cleavage in Diols and Lignin Models: High-Throughput Screening of Metal Oxide-Anchored Vanadium in Mesoporous Silica. <b>2021</b> , 11, 901	1
393	Crystallization mechanism and switching behavior of In <sub>2</sub> S <sub>3</sub> phase change thin films. <b>2021</b> , 119, 011601	1
392	Linear and Nonlinear Optical Properties of Vanadium Pentoxide Films Prepared by Pulsed-Laser Deposition. <b>2021</b> , 31, 382-385	
391	Simultaneous Determination of Refractive Index and Thickness of Submicron Optical Polymer Films from Transmission Spectra. <b>2021</b> , 13,	5
390	Ablation of binary As <sub>2</sub> S <sub>3</sub> , As <sub>2</sub> Se <sub>3</sub> , GeS <sub>2</sub> , GeSe <sub>2</sub> and GeSe <sub>3</sub> bulk glasses and thin films with a deep ultraviolet nanosecond laser. <b>2021</b> , 554, 149582	1
389	Design of highly transparent conductive optical coatings optimized for oblique angle light incidence. <b>2021</b> , 127, 1	1
388	Modification of structure, electrical, linear and third-order nonlinear optical properties of spray pyrolyzed tin oxide films by deposition temperature. <b>2021</b> , 155, 106920	2
387	Fe-doped ZnS film fabricated by electron beam evaporation and its application as saturable absorber for Er:ZBLAN fiber laser*. <b>2021</b> , 30, 074207	
386	Atomic-layer design and properties of Pr-doped HfO <sub>2</sub> thin films. <b>2021</b> , 868, 159100	1

385	Influence of Fe <sup>3+</sup> ion doping on the luminescence emission behavior and photocatalytic activity of Fe <sup>3+</sup> , Eu <sup>3+</sup> -codoped TiO <sub>2</sub> thin films. <b>2021</b> , 868, 159109	8
384	Spectral fitting method for obtaining the refractive index and thickness of chalcogenide films. <b>2021</b> , 29, 29329-29340	0
383	Combined experimental and DFT-TDDFT computational, structural and study effect of inter-diffusion Cu into CdTe thick film by annealing for optoelectronics. <b>2021</b> , 1238, 130411	4
382	Effect of implanted copper into 1 $\mu$ m cadmium telluride thick film by heat treatment for optoelectronics: Structural, optical, and electrical properties. <b>2021</b> , 45, 20258	2
381	Optimization of linear and nonlinear optical parameters of As <sub>40</sub> Se <sub>50</sub> Te <sub>10</sub> thin films by thermal annealing. <b>2021</b> , 140, 107036	10
380	The optical properties of Se <sub>85.26</sub> Ge <sub>12.92</sub> Cd <sub>1.81</sub> thin films on different substrates. <b>2021</b> , 53, 1	
379	Investigation of the effects of thermal annealing on the structural, morphological and optical properties of nanostructured Mn doped ZnO thin films. <b>2021</b> , 118, 111236	7
378	Further Increasing the Accuracy of Characterization of a Thin Dielectric or Semiconductor Film on a Substrate from Its Interference Transmittance Spectrum. <b>2021</b> , 14,	0
377	ALD of TiO <sub>2</sub> /ZnO multilayers towards the understanding of optical properties and polarizability. <b>2021</b> , 140, 107035	2
376	Improvement of optoelectronic and spintronic properties of nanocrystalline Zn <sub>1-x</sub> Gd <sub>x</sub> S films deposited by electron beam technique. <b>2021</b> , 130, 105810	1
375	Characterization and application of niobium-doped titanium dioxide thin films prepared by sol-gel process. <b>2021</b> , 127, 1	1
374	Evolution of the absorption edge of PET films irradiated with Kr ions after thermal annealing and ageing. <b>2021</b> , 119, 111348	8
373	Optical properties of anatase and rutile TiO films deposited by using a pulsed laser. <b>2021</b> , 60, 8453-8457	1
372	Linear and nonlinear optical properties of Manganese bis-(8- hydroxyquinoline) thin films for optoelectronic devices: experimental and computational studies. <b>2021</b> , 1249, 131558	3
371	Artificial bee colony algorithm: a novel strategy for optical constants and thin film thickness extraction using only optical transmittance spectra for photovoltaic applications. <b>2021</b> , 241, 167030	0
370	Linear and nonlinear optical studies of indium selenide thin films prepared by thermal evaporation technique. <b>2021</b> , 241, 166874	1
369	Improvement Photoactivity Properties of SnS Thin Film by Chemical Spray Pyrolysis Method. <b>2021</b> , 1999, 012020	
368	Preparation and Characterization of Nickel and Aluminum-Codoped SnO <sub>2</sub> Thin Films for Optoelectronic Applications. <b>2021</b> , 2021, 1-12	2

367	Optical and structural properties of vacuum annealed multilayer nanostructured CdZnS thin films deposited by thermal evaporation. <b>2021</b> , 119, 111353	3
366	The effect of vacuum and air annealing in the physical characteristics and photocatalytic efficiency of In <sub>2</sub> S <sub>3</sub> :Ag thin films produced by spray pyrolysis. <b>2021</b> , 270, 124838	1
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