

Mehmet IÅik

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Determination of mechanical properties of Bi ₁₂ TiO ₂₀ crystals by nanoindentation. Materials Science in Semiconductor Processing, 2022, 140, 106389.	1.9	5
2	Thermoluminescence properties and trapping parameters of TlGaS ₂ single crystals. Journal of Luminescence, 2022, 244, 118714.	1.5	3
3	Structural and optical characteristics of thermally evaporated TlGaSe ₂ thin films. Optical Materials, 2022, 124, 112018.	1.7	4
4	Effect of temperature on band gap of PbWO ₄ single crystals grown by Czochralski method. Physica Scripta, 2022, 97, 045803.	1.2	8
5	Structural and temperature-tuned band gap energy characteristics of PbMoO ₄ single crystals. Optical Materials, 2022, 126, 112210.	1.7	8
6	Thermoluminescence characteristics of GaSe and Ga ₂ Se ₃ single crystals. Journal of Luminescence, 2022, 246, 118846.	1.5	1
7	Temperature-dependent optical characteristics of sputtered NiO thin films. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	11
8	Temperature-tuned optical bandgap of Al-doped ZnO spin coated nanostructured thin films. Materials Letters, 2022, 321, 132415.	1.3	6
9	Spectroscopic ellipsometry characterization of PbWO ₄ single crystals. Optical Materials, 2022, 131, 112680.	1.7	3
10	Linear and nonlinear optical characteristics of Bi ₁₂ SiO ₂₀ single crystals. Optical Materials, 2022, 131, 112692.	1.7	4
11	Structural, morphological and temperature-tuned bandgap characteristics of CuS nano-flake thin films. Physica E: Low-Dimensional Systems and Nanostructures, 2022, 144, 115407.	1.3	8
12	Temperature-tuned bandgap characteristics of Bi ₁₂ TiO ₂₀ sillenite single crystals. Journal of Materials Science: Materials in Electronics, 2021, 32, 1316-1322.	1.1	5
13	Optical and Nanomechanical Properties of Ga ₂ Se ₃ Single Crystals and Thin Films. Jom, 2021, 73, 558-565.	0.9	2
14	Spectroscopic ellipsometry study of Bi ₁₂ TiO ₂₀ single crystals. Journal of Materials Science: Materials in Electronics, 2021, 32, 7019-7025.	1.1	7
15	Structural and optical properties of thermally evaporated (GaSe) _{0.75} (GaS) _{0.25} thin films. Optik, 2021, 230, 166344.	1.4	3
16	Investigation of traps distribution in GaS single crystals by thermally stimulated current measurements. Materials Science in Semiconductor Processing, 2021, 125, 105626.	1.9	2
17	Optical and structural characteristics of electrodeposited Cd _{1-x} Zn _x S nanostructured thin films. Optical Materials, 2021, 114, 110966.	1.7	7
18	Defect characterization in Bi ₁₂ GeO ₂₀ single crystals by thermoluminescence. Journal of Luminescence, 2021, 233, 117905.	1.5	6

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19	Structural and temperature-tuned bandgap characteristics of thermally evaporated \hat{I}^2 -In ₂ S ₃ thin films. Journal of Materials Science: Materials in Electronics, 2021, 32, 15851-15856.	1.1	6
20	First principles study of Bi ₁₂ GeO ₂₀ : Electronic, optical and thermodynamic characterizations. Materials Today Communications, 2021, 27, 102299.	0.9	4
21	Electronic, optical and thermodynamic characteristics of Bi ₁₂ SiO ₂₀ sillenite: First principle calculations. Materials Chemistry and Physics, 2021, 267, 124711.	2.0	7
22	Evaluation of mechanical properties of Bi ₁₂ SiO ₂₀ sillenite using first principles and nanoindentation. Philosophical Magazine, 2021, 101, 2200-2215.	0.7	3
23	The effect of Zn concentration on the structural and optical properties of Cd _{1-x} Zn _x S nanostructured thin films. Journal of Materials Science: Materials in Electronics, 2021, 32, 25225-25233.	1.1	2
24	Effect of thallium (Tl) substitution for indium (In) on ellipsometric characteristics of TlInSe ₂ single crystals. Materials Science in Semiconductor Processing, 2021, 134, 106005.	1.9	6
25	Experimental and theoretical investigation of the mechanical characteristics of sillenite compound: Bi ₁₂ GeO ₂₀ . Journal of Alloys and Compounds, 2021, 882, 160686.	2.8	4
26	Trapping centers in Bi ₁₂ TiO ₂₀ single crystals by thermally stimulated current. Optical Materials, 2021, 122, 111797.	1.7	1
27	Investigation of defect levels in Bi ₁₂ SiO ₂₀ single crystals by thermally stimulated current measurements. Physica Scripta, 2021, 96, 125875.	1.2	0
28	Synthesis and temperature-tuned band gap characteristics of magnetron sputtered ZnTe thin films. Physica B: Condensed Matter, 2020, 582, 411968.	1.3	18
29	Thermoluminescence characterization of (Ga ₂ Se ₃) _{0.25} (Ga ₂ S ₃) _{0.75} single crystal compounds. Materials Science in Semiconductor Processing, 2020, 108, 104875.	1.9	2
30	CaXH ₃ (X = Mn, Fe, Co) perovskite-type hydrides for hydrogen storage applications. International Journal of Energy Research, 2020, 44, 2345-2354.	2.2	46
31	Material and device properties of Si-based Cu _{0.5} Ag _{0.5} InSe ₂ thin-film heterojunction diode. Journal of Materials Science: Materials in Electronics, 2020, 31, 1566-1573.	1.1	2
32	Temperature-tuned band gap characteristics of InSe layered semiconductor single crystals. Materials Science in Semiconductor Processing, 2020, 107, 104862.	1.9	15
33	Vibrational modes in (TiGa ₂ S ₂) _{1-x} (TiGaSe ₂) _{1-x} mixed crystals by Raman measurements: compositional dependence of the mode frequencies and line-shapes. Journal of Materials Science: Materials in Electronics, 2020, 31, 14330-14335.	1.1	6
34	Optical characteristics of Bi ₁₂ SiO ₂₀ single crystals by spectroscopic ellipsometry. Materials Science in Semiconductor Processing, 2020, 120, 105286.	1.9	17
35	Material and Si-based diode analyses of sputtered ZnTe thin films. Journal of Materials Science: Materials in Electronics, 2020, 31, 11390-11397.	1.1	5
36	Temperature-tuned band gap properties of MoS ₂ thin films. Materials Letters, 2020, 275, 128080.	1.3	20

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37	Structural and temperature-tuned optical characteristics of Bi ₁₂ GeO ₂₀ sillenite crystals. Chinese Journal of Physics, 2020, 66, 422-429.	2.0	9
38	Investigation of structural and optical characteristics of thermally evaporated Ga ₂ Se ₃ thin films. Vacuum, 2020, 179, 109501.	1.6	4
39	Influence of temperature on optical properties of electron-beam-evaporated ZnSe thin film. Physica Scripta, 2020, 95, 075804.	1.2	5
40	Optical constants and critical point energies of (AgInSe ₂) _{0.75} (In ₂ Se ₃) _{0.25} single crystals. Journal of Materials Science: Materials in Electronics, 2020, 31, 4702-4707.	1.1	2
41	Temperature-dependent material characterization of CuZnSe ₂ thin films. Thin Solid Films, 2020, 701, 137941.	0.8	3
42	Temperature-dependent optical and electrical characterization of Cu-Ga-S thin films and their diode characteristics on n-Si. Optik, 2020, 208, 164485.	1.4	1
43	Investigation of optical properties of Bi ₁₂ GeO ₂₀ sillenite crystals by spectroscopic ellipsometry and Raman spectroscopy. Ceramics International, 2020, 46, 12905-12910.	2.3	14
44	Thermoluminescence characteristics of Bi ₁₂ SiO ₂₀ single crystals. Journal of Luminescence, 2020, 224, 117280.	1.5	10
45	Study of vibrational modes in (Ga ₂ S ₃) _x (Ga ₂ Se ₃) _{1-x} mixed crystals by Raman and infrared reflection measurements. Optical Materials, 2019, 95, 109228.	1.7	7
46	The defect state of Yb-doped ZnO nanoparticles using thermoluminescence study. Materials Science in Semiconductor Processing, 2019, 100, 29-34.	1.9	8
47	Analysis of temperature-dependent transmittance spectra of Zn _{0.5} In _{0.5} Se (ZIS) thin films. Journal of Materials Science: Materials in Electronics, 2019, 30, 9356-9362.	1.1	0
48	Optical band gap and dispersion of optical constants of Cu-Ga-S thin films. Optik, 2019, 186, 147-154.	1.4	8
49	Traps distribution in sol-gel synthesized ZnO nanoparticles. Materials Letters, 2019, 245, 103-105.	1.3	16
50	Temperature dependence of band gaps in sputtered SnSe thin films. Journal of Physics and Chemistry of Solids, 2019, 131, 22-26.	1.9	18
51	Structural and Optical Properties of Ga ₂ Se ₃ Crystals by Spectroscopic Ellipsometry. Journal of Electronic Materials, 2019, 48, 2418-2422.	1.0	11
52	Temperature-dependent band gap characteristics of Bi ₁₂ SiO ₂₀ single crystals. Journal of Applied Physics, 2019, 126, .	1.1	17
53	Gd-doped ZnO nanoparticles: Synthesis, structural and thermoluminescence properties. Journal of Luminescence, 2019, 207, 220-225.	1.5	37
54	Structural and temperature-dependent optical properties of thermally evaporated CdS thin films. Materials Science in Semiconductor Processing, 2019, 93, 148-152.	1.9	37

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55	Study on thermoluminescence of TlInS ₂ layered crystals doped with Pr. <i>Materials Science in Semiconductor Processing</i> , 2018, 80, 99-103.	1.9	4
56	Trap characterization by photo-transferred thermoluminescence in MgO nanoparticles. <i>Physica B: Condensed Matter</i> , 2018, 537, 301-305.	1.3	8
57	Characteristic features of thermoluminescence in neodymium-doped gallium sulfide. <i>Luminescence</i> , 2018, 33, 759-763.	1.5	5
58	Thermoluminescence properties of Al doped ZnO nanoparticles. <i>Ceramics International</i> , 2018, 44, 13929-13933.	2.3	5
59	Thermoluminescence study in Cu ₃ Ga ₅ S ₉ single crystals: Application of heating rate and T _m –T _{stop} methods. <i>Journal of Luminescence</i> , 2018, 199, 334-338.	1.5	7
60	Structural and optical properties of thermally evaporated Cu-Ga-S (CGS) thin films. <i>Physica B: Condensed Matter</i> , 2018, 547, 92-96.	1.3	4
61	Annealing Effect on Dark Electrical Conductivity and Photoconductivity of Ga-In-Se Thin Films. <i>Acta Physica Polonica A</i> , 2018, 133, 1119-1124.	0.2	0
62	Composition-tuned band gap energy and refractive index in Ga _x Se _{1-x} layered mixed crystals. <i>Materials Chemistry and Physics</i> , 2017, 190, 74-78.	2.0	21
63	Optical parameters of anisotropic chain-structured Tl ₂ InGaTe ₄ crystals by spectroscopic ellipsometry. <i>Optik</i> , 2016, 127, 10637-10642.	1.4	1
64	Temperature-tuned band gap energy and oscillator parameters of Ga _{0.5} Se _{0.5} single crystals. <i>Optik</i> , 2016, 127, 8301-8305.	1.4	2
65	Temperature-dependent optical properties of GaSe layered single crystals. <i>Philosophical Magazine</i> , 2016, 96, 2564-2573.	0.7	7
66	Ellipsometric study of optical properties of GaS x Se 1-x layered mixed crystals. <i>Optical Materials</i> , 2016, 54, 155-159.	1.7	7
67	Defect characterization of Ga ₄ Se ₃ S layered single crystals by thermoluminescence. <i>Pramana - Journal of Physics</i> , 2016, 86, 893-900.	0.9	0
68	Thermoluminescence properties of ZnO nanoparticles in the temperature range 10–300 K. <i>Journal of Sol-Gel Science and Technology</i> , 2016, 78, 76-81.	1.1	7
69	Optical characterization of CuIn ₅ S ₈ crystals by ellipsometry measurements. <i>Journal of Physics and Chemistry of Solids</i> , 2016, 91, 13-17.	1.9	6
70	Analysis of Thermoluminescence Glow Peaks in $\hat{\Gamma}$ -Irradiated TlGaSeS Crystals. <i>Acta Physica Polonica A</i> , 2016, 129, 1165-1168.	0.2	0
71	Determination of trapping parameters of thermoluminescent glow peaks of semiconducting Tl ₂ Ga ₂ S ₃ Se crystals. <i>Journal of Physics and Chemistry of Solids</i> , 2015, 82, 56-59.	1.9	5
72	Optical characterization of Ga ₂ Se ₃ layered crystals by transmission, reflection and ellipsometry. <i>Modern Physics Letters B</i> , 2015, 29, 1550088.	1.0	3

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73	Low temperature thermoluminescence of quaternary thallium sulfide Tl ₄ InGa ₃ S ₈ . Indian Journal of Physics, 2015, 89, 571-576.	0.9	0
74	Structural and optical properties of thermally evaporated GaInSe thin films. Modern Physics Letters B, 2014, 28, 1450101.	1.0	0
75	Low-Temperature Thermoluminescence Studies on TlInS ₂ Layered Single Crystals. Acta Physica Polonica A, 2014, 126, 1299-1303.	0.2	6
76	Compositional Dependence of Optical Modes Frequencies in TlGa _x In _{1-x} S ₂ Layered Mixed Crystals (0 ≤ x ≤ 1). Acta Physica Polonica A, 2014, 126, 747-751.	0.2	0
77	Trapping centers and their distribution in Tl ₂ InGaSe ₄ single crystals by thermally stimulated luminescence. Journal of Materials Science, 2014, 49, 2542-2547.	1.7	5
78	Thermoluminescence characteristics of Tl ₄ GaIn ₃ S ₈ layered single crystals. Philosophical Magazine, 2014, 94, 141-151.	0.7	2
79	Optical properties of TlGa _x In _{1-x} Se ₂ layered mixed crystals (0.5 ≤ x ≤ 1) by spectroscopic ellipsometry, transmission, and reflection measurements. Philosophical Magazine, 2014, 94, 2623-2632.		3
80	Low-temperature thermoluminescence in TlGaS ₂ layered single crystals. Journal of Luminescence, 2013, 135, 60-65.	1.5	12
81	TL and TSC studies on TlGaSe ₂ layered single crystals. Journal of Luminescence, 2013, 144, 163-168.	1.5	8
82	Thermoluminescence properties of Tl ₂ Ga ₂ S ₃ Se layered single crystals. Journal of Applied Physics, 2013, 113, 193510.	1.1	6
83	Dielectric functions and interband critical points of anisotropic chain structured TlSe single crystals. Journal of Applied Physics, 2012, 112, 083526.	1.1	3
84	Spectroscopic ellipsometry study of above-band gap optical constants of layered structured TlGaSe ₂ , TlGaS ₂ and TlInS ₂ single crystals. Physica B: Condensed Matter, 2012, 407, 4193-4197.	1.3	19
85	Ellipsometry study of interband transitions in TlGaS ₂ xSe ₂ (1-x) mixed crystals (0 ≤ x ≤ 1). Optics Communications, 2012, 285, 4092-4096.	1.0	10
86	Determination of optical parameters of Ga _{0.75} In _{0.25} Se layered crystals. Crystal Research and Technology, 2012, 47, 530-534.	0.6	7
87	Absorption edge and optical constants of Tl ₂ Ga ₂ S ₃ Se crystals from reflection and transmission, and ellipsometric measurements. Physica B: Condensed Matter, 2012, 407, 2229-2233.	1.3	6
88	Deep Traps Distribution in TlInS ₂ Layered Crystals. Acta Physica Polonica A, 2009, 115, 732-737.	0.2	15
89	Trap Distribution in TlInS ₂ Layered Crystals from Thermally Stimulated Current Measurements. Journal of the Korean Physical Society, 2008, 52, 367-373.	0.3	16
90	Study of the structural and optical properties of thallium gallium disulfide (TlGaS ₂) thin films grown via thermal evaporation. Physica Scripta, 0, .	1.2	1