

# Alaa

## List of Publications by Year in descending order

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22  
papers

362  
citations

759233

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794594

19  
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times ranked

213  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Thermoelectric properties of Te doped bulk $\text{Bi}_{2-x}\text{Se}_3$ system. Materials Research Express, 2018, 5, 035514.  | 1.6 | 32        |
| 2  | Transport and thermoelectric properties of Hf-doped FeVSb half-Heusler alloys. Journal of Alloys and Compounds, 2020, 820, 153413.  | 5.5 | 32        |
| 3  | Optical and thermoelectric properties of nano-particles based $\text{Bi}_2(\text{Te}_{1-x}\text{Se}_x)_3$ thin films. Superlattices and Microstructures, 2017, 101, 609-624.  | 3.1 | 31        |
| 4  | Characterization and optical properties of bismuth chalcogenide films prepared by pulsed laser deposition technique. Materials Science in Semiconductor Processing, 2017, 57, 210-219.                                  | 4.0 | 29        |
| 5  | Enhanced thermoelectric figure of merit in Bi-containing $\text{Sb}_2\text{Te}_3$ bulk crystalline alloys. Journal of Physics and Chemistry of Solids, 2020, 138, 109262.   | 4.0 | 29        |
| 6  | Correlation of structural and optical properties in as-prepared and annealed $\text{Bi}_2\text{Se}_3$ thin films. Journal of Materials Processing Technology, 2019, 264, 76-83.   | 6.3 | 27        |
| 7  | Effects of transition metal element doping on the structural and thermoelectric properties of n-type $\text{Bi}_{2-x}\text{Ag}_x\text{Se}_3$ alloys. Journal of Alloys and Compounds, 2021, 851, 156887.                | 5.5 | 25        |
| 8  | Temperature effects on magnetization processes and magnetoimpedance in low magnetostrictive amorphous microwires. Journal of Magnetism and Magnetic Materials, 2018, 459, 147-153.                                      | 2.3 | 22        |
| 9  | Effect of Stress on Magnetic Properties of Annealed Glass-Coated $\text{Co}_{71}\text{Fe}_5\text{B}_{11}\text{Si}_{10}\text{Cr}_3$ Amorphous Microwires. IEEE Transactions on Magnetics, 2017, 53, 1-6.                 | 2.1 | 18        |
| 10 | Characterization of thin $\text{Bi}_2\text{Te}_3$ -based films and effects of heat treatment on their optical properties. Journal of Alloys and Compounds, 2018, 765, 1072-1081.  | 5.5 | 18        |
| 11 | Magnetic anisotropy and stress-magnetoimpedance (S-MI) in current-annealed Co-rich glass-coated microwires with positive magnetostriction. Journal of Magnetism and Magnetic Materials, 2019, 474, 296-300.             | 2.3 | 15        |
| 12 | Optimized thermoelectric performance in thin $(\text{Bi}_2\text{Se}_3)_{1-x}(\text{Bi}_2\text{Te}_3)_x$ alloyed films. Journal of Alloys and Compounds, 2022, 898, 162888.  | 5.5 | 15        |
| 13 | Effects of spark plasma sintering on enhancing the thermoelectric performance of Hf/Ti doped VFeSb half-Heusler alloys. Journal of Physics and Chemistry of Solids, 2021, 150, 109848.                                  | 4.0 | 13        |
| 14 | Effect of compositional dependence on physicochemical properties of $\text{Bi}_2\text{Se}_3$ doped system. Materials Science in Semiconductor Processing, 2016, 52, 1-7.  | 4.0 | 11        |
| 15 | Optical properties of thin $\text{Bi}_2\text{Te}_3$ films synthesized by different techniques. Superlattices and Microstructures, 2021, 155, 106909.  | 3.1 | 11        |
| 16 | Electrical and thermoelectrical properties of $\text{Bi}_{2-x}\text{Na}_x\text{Te}_3$ alloys. Journal of Alloys and Compounds, 2022, 920, 165952.   | 5.5 | 9         |
| 17 | Structural and optical properties of nano-powder-based $(\text{Sb}_{1-x}\text{Bi}_x)_2\text{Te}_3$ thin films. Materials Research Express, 2017, 4, 085029.   | 1.6 | 7         |
| 18 | Effect of surfactant concentration on the morphology and thermoelectric power factor of PbTe nanostructures prepared by a hydrothermal route. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 125, 114396. | 2.7 | 6         |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Outstanding optical properties of thermally grown $(\text{Bi}_2\text{Se}_3)_{1-x}(\text{Bi}_2\text{Te}_3)_x$ thin films. Materials Science in Semiconductor Processing, 2022, 143, 106557. | 4.0 | 5         |
| 20 | Temperature Effects on the Magnetoimpedance in Glass-Coated Amorphous Wires. IEEE Transactions on Magnetics, 2017, 53, 1-5.  | 2.1 | 3         |
| 21 | Manipulation of optical properties in thin tetradymite layers. Optical Materials, 2021, 115, 111026.   | 3.6 | 3         |
| 22 | Heat treatment effects on the structural and optical properties of thin $\text{Bi}_2(\text{Se}_{1-x}\text{Te}_x)_3$ films. Ceramics International, 2022, , .                               | 4.8 | 1         |