

# Tarek Larbi

## List of Publications by Year in descending order

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31  
papers

621  
citations

567281

15  
h-index

580821

25  
g-index

32  
all docs

32  
docs citations

32  
times ranked

613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of electrical and dielectric properties of antimony oxide (Sb <sub>2</sub> O <sub>4</sub> ) semiconductor thin films for TCO and optoelectronic applications. <i>Journal of Non-Crystalline Solids</i> , 2013, 367, 1-7.	3.1	53
2	Ethanol sensing properties and photocatalytic degradation of methylene blue by Mn <sub>3</sub> O <sub>4</sub> , NiMn <sub>2</sub> O <sub>4</sub> and alloys of Ni-manganates thin films. <i>Journal of Alloys and Compounds</i> , 2016, 686, 168-175.	5.5	45
3	Nickel content effect on the microstructural, optical and electrical properties of p-type Mn <sub>3</sub> O <sub>4</sub> sprayed thin films. <i>Journal of Alloys and Compounds</i> , 2015, 626, 93-101.	5.5	43
4	Density functional theory study of ferromagnetically and ferrimagnetically ordered spinel oxide Mn <sub>3</sub> O <sub>4</sub> . A quantum mechanical simulation of their IR and Raman spectra. <i>Journal of Alloys and Compounds</i> , 2016, 688, 692-698.	5.5	39
5	Temperature dependence of Raman spectra and first principles study of NiMn <sub>2</sub> O <sub>4</sub> magnetic spinel oxide thin films. Application in efficient photocatalytic removal of RhB and MB dyes. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 216, 117-124.	3.9	39
6	Photocatalytic degradation and photo-generated hydrophilicity of Methylene Blue over ZnO/ZnCr <sub>2</sub> O <sub>4</sub> nanocomposite under stimulated UV light irradiation. <i>Inorganic Chemistry Communication</i> , 2020, 115, 107889.	3.9	38
7	Enhanced photocatalytic degradation of methylene blue dye under UV-sunlight irradiation by cesium doped chromium oxide thin films. <i>Materials Research Bulletin</i> , 2017, 95, 152-162.	5.2	37
8	Microstructural, optical and ethanol sensing properties of sprayed Li-doped Mn <sub>3</sub> O <sub>4</sub> thin films. <i>Materials Research Bulletin</i> , 2016, 75, 217-223.	5.2	34
9	Investigation of structural, optical, electrical and dielectric properties of catalytic sprayed hausmannite thin film. <i>Materials Research Bulletin</i> , 2014, 60, 457-466.	5.2	31
10	Electrical measurements of dielectric properties of molybdenum-doped zinc oxide thin films. <i>Materials Science in Semiconductor Processing</i> , 2014, 22, 50-58.	4.0	30
11	Physical investigations on NiMn <sub>2</sub> O <sub>4</sub> sprayed magnetic spinel for sensitivity applications. <i>Journal of Magnetism and Magnetic Materials</i> , 2015, 387, 139-146.	2.3	29
12	Structural, optical and vibrational properties of Cr <sub>2</sub> O <sub>3</sub> with ferromagnetic and antiferromagnetic order: A combined experimental and density functional theory study. <i>Journal of Magnetism and Magnetic Materials</i> , 2017, 444, 16-22.	2.3	29
13	A study of optothermal and AC impedance properties of Cr-doped Mn <sub>3</sub> O <sub>4</sub> sprayed thin films. <i>Materials Research Bulletin</i> , 2015, 70, 254-262.	5.2	25
14	AC conductivity, dielectric relaxation and modulus behavior of Sb <sub>2</sub> S <sub>2</sub> O new kermesite alloy for optoelectronic applications. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 596-601.	4.0	24
15	Optical and structural investigations on Sb <sub>2</sub> S <sub>2</sub> O new kermesite alloy for optoelectronic applications. <i>Journal of Alloys and Compounds</i> , 2013, 579, 198-204.	5.5	17
16	Investigation of the physical properties of K <sub>2</sub> Co <sub>2</sub> (MoO <sub>4</sub> ) <sub>3</sub> for photocatalytic application. <i>Journal of Materials Science: Materials in Electronics</i> , 2018, 29, 18372-18379.	2.2	13
17	Structural, dielectric and a.c. conductivity study of Sb <sub>2</sub> O <sub>3</sub> thin film obtained by thermal oxidation of Sb <sub>2</sub> S <sub>3</sub> . <i>Bulletin of Materials Science</i> , 2016, 39, 1801-1808.	1.7	12
18	Theoretical spectroscopy and metastability of BeS and its cation. <i>Chemical Physics</i> , 2010, 373, 193-202.	1.9	10

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19	Physical investigations and DFT model calculation on Zn <sub>2</sub> SnO <sub>4</sub> -ZnO (ZTO-ZO) alloy thin films for wettability and photocatalysis purposes. <i>Optik</i> , 2019, 187, 49-64.	2.9	10
20	Efficient ab initio quantum mechanical simulations of structural stability and vibrational properties of bulk, monolayer and (n,0) nanotubes: Yttrium sesquioxide Y <sub>2</sub> O <sub>3</sub> . <i>Journal of Raman Spectroscopy</i> , 2020, 51, 232-242.	2.5	10
21	Structural stability and vibrational analysis of beryllium sulfide BeS from the bulk to the (n,0) nanotubes. An ab initio description. <i>Vibrational Spectroscopy</i> , 2018, 97, 24-32.	2.2	9
22	Photocatalytic efficiency of Na <sub>4</sub> Co(MoO <sub>4</sub> ) <sub>3</sub> for the degradation of industrial azo dye under solar irradiation. <i>Inorganic Chemistry Communication</i> , 2020, 119, 108113.	3.9	8
23	Lattice Compatibility Theory LCT investigations on physical and optical constants of antimony processed antimonite nano-films. <i>Current Applied Physics</i> , 2014, 14, 1078-1082.	2.4	7
24	Synthesis, crystal structure and photocatalytic activity of a new NaLi <sub>1.07</sub> Co <sub>2.94</sub> (MoO <sub>4</sub> ) <sub>5</sub> nanoparticles for real tannery wastewater treatment. <i>Journal of Solid State Chemistry</i> , 2022, 307, 122838.	2.9	7
25	Highly efficient K <sub>0.4</sub> Na <sub>3.6</sub> Co(MoO <sub>4</sub> ) <sub>3</sub> new alluaudite type structure for photocatalytic degradation of methylene blue and green diamine B dyes. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 9642-9651.	2.2	6
26	Pure and zirconium-doped manganese(II,III) oxide: Investigations on structural and conduction-related properties within the Lattice Compatibility Theory scope. <i>Materials Science in Semiconductor Processing</i> , 2015, 40, 224-229.	4.0	4
27	Assessing the structural stability and vibration properties in beryllium selenide from the (3D) bulk, the (0D) molecule, the (2D) monolayer to the (1D) single walled nanotubes through ab initio simulations. <i>Surfaces and Interfaces</i> , 2021, 24, 101087.	3.0	4
28	Preparation and characterization of the rod-shaped stibnite. <i>Materials Research Bulletin</i> , 2015, 67, 191-195.	5.2	3
29	Thermoluminescence properties of hausmannite Mn <sub>3</sub> O <sub>4</sub> thin films induced by UV light. <i>Journal of Physics: Conference Series</i> , 2014, 558, 012034.	0.4	2
30	Enhancement of photocatalytic degradation of MB by recyclable Li/Mn <sub>3</sub> O <sub>4</sub> thin films. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 10963-10976.	2.2	2
31	Unraveling the effect of thickness on the structural, morphological, opto-thermal and DFT calculation of hematite Fe <sub>2</sub> O <sub>3</sub> thin films for photo-catalytic application. <i>Journal of Materials Science: Materials in Electronics</i> , 2021, 32, 17974-17989.	2.2	1