Hajer Guermazi

List of Publications by Year
in descending order

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69	1,023	430442	476904
papers	citations	18	29
		h-index	g-index

69	69	69	999
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Investigation on electrical properties of thermally aged PMMA by combined use of FTIR and impedance spectroscopies. Journal of Alloys and Compounds, 2009, 469, 197-202.	2.8	73
2	Study of dielectric relaxations in zinc oxide-epoxy resin nanocomposites. Journal of Alloys and Compounds, 2009, 477, 316-321.	2.8	72
3	Enhanced photocatalytic activity against crystal violet dye of Co and In doped ZnO thin films grown on PEI flexible substrate under UV and sunlight irradiations. Heliyon, 2019, 5, e01912.	1.4	47
4	Structural and optical characterization of copper oxide composite thin films elaborated by GLAD technique. Vacuum, 2015, 121, 9-17.	1.6	46
5	Effects of neutronâ€“gamma radiation on the free radical contents in epoxy resin: upconversion luminescence and structural stabilization. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	1.1	44
6	Physical investigations on undoped and Fluorine doped SnO2 nanofilms on flexible substrate along with wettability and photocatalytic activity tests. Materials Science in Semiconductor Processing, 2017, 61, 17-26.	1.9	41
7	Physical investigations and photocatalytic activities on ZnO and SnO2 thin films deposited on flexible polymer substrate. Vacuum, 2018, 155, 546-552.	1.6	37
8	Study of relaxations in epoxy polymer by thermally stimulated depolarization current (TSDC) and dielectric relaxation spectroscopy (DRS). Journal of Alloys and Compounds, 2010, 489, 429-436.	2.8	36
9	Influence of TiO2 Incorporation on the Microstructure, Optical, and Dielectric Properties of TiO2/Epoxy Composites. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1114-1126.	1.9	35
10	Structural, optical, photoluminescence properties and Ab initio calculations of new Zn2SiO4/ZnO composite for white light emitting diodes. Ceramics International, 2020, 46, 12656-12664.	2.3	35
11	Design of smart optical sensor using polyvinyl alcohol/Fluorescein sodium salt: Laser filters and optical limiting effect. Journal of Molecular Structure, 2018, 1156, 492-500.	1.8	34
12	Structural, optical properties and characterization of (C2H5NH3)2CdCl4, (C2H5NH3)2CuCl4 and (C2H5NH3)2Cd0.5Cu0.5Cl4 compounds. Journal of Alloys and Compounds, 2017, 696, 1244-1254.	2.8	27
13	Optical, Dielectric Properties and Energy Storage Efficiency of ZnO/Epoxy Nanocomposites. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 456-464.	1.9	27
14	Effects of curing agent on conductivity, structural and dielectric properties of an epoxy polymer. Polymer, 2015, 79, 73-81.	1.8	24
15	Structural and optical investigation of (V, Al) doped and co-doped ZnO nanopowders: Tailored visible luminescence for white light emitting diodes. Superlattices and Microstructures, 2018, 122, 349-361.	1.4	23
16	Preparation, structural and optical investigations of ITO nanopowder and ITO/epoxy nanocomposites. Materials Science in Semiconductor Processing, 2015, 39, 536-543.	1.9	21
17	A comparative study of structural and dielectric properties of diglycidyl ether of bisphenol A (DGEBA) cured with aromatic or aliphatic hardeners. Journal of Materials Science, 2016, 51, 7874-7886.	1.7	20
18	Low-temperature growth and physical investigations of undoped and (In, Co) doped ZnO thin films sprayed on PEI flexible substrate. Superlattices and Microstructures, 2015, 84, 99-112.	1.4	19

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19	Thermally stimulated depolarization current and dielectric spectroscopy used to study dipolar relaxations and trap level distribution in PMMA polymer. Journal of Non-Crystalline Solids, 2015, 427, 76-82.	1.5	19
20	Study of thermal aging effect on space charge in poly(methyl methacrylate). European Polymer Journal, 2007, 43, 4821-4829.	2.6	18
21	Optical and structural properties of ZnO NPs and ZnOâ€“Bi2O3 nanocomposites. Ceramics International, 2022, 48, 266-277.	2.3	18
22	Structural changes in epoxy resin polymer after heating and their influence on space charges. Polymer International, 2003, 52, 1287-1293.	1.6	16
23	Effect of organic dyes on structural properties, linear optics and impedance spectroscopy of methyl orange (C.I. acid orange 52) doped polyvinyl alcohol composite thin films. Journal of Materials Science: Materials in Electronics, 2018, 29, 16446-16453.	1.1	15
24	Influence of heat treatment on the space charge within an epoxy resin polymer material. Polymer International, 2001, 50, 743-747.	1.6	14
25	Dielectric relaxations investigation of a synthesized epoxy resin polymer. European Physical Journal Plus, 2015, 130, 1.	1.2	14
26	Optical, electrical properties and characterization of (C2H5NH3)2CdCl4 compound. Optik, 2016, 127, 5534-5541.	1.4	14
27	Heat treatment effects on dielectric and physico-chemical properties of an epoxy polymer. Journal of Physics and Chemistry of Solids, 2008, 69, 2476-2480.	1.9	13
28	Elaboration, structural and optical investigations of ZnO/epoxy nanocomposites. European Physical Journal Plus, 2015, 130, 1.	1.2	13
29	CdS/PVA In-Situ Polymerization Composite Films with Enhanced Structural, Optics, Limiting Effect and Electrical Properties. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 1494-1501.	1.9	12
30	The effect of zinc iodide on the physicochemical properties of highly flexible transparent poly (vinyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Materials in Electronics, 2019, 30, 11799-11806.	1.1	12
31	Towards a structural characterization of an epoxy based polymer using small-angle x-ray scattering. Journal of Applied Physics, 2007, 101, 043509.	1.1	11
32	Electronic conduction mechanism and optical spectroscopy of Indigo carmine as novel organic semiconductors. Optical and Quantum Electronics, 2018, 50, 1.	1.5	10
33	Impact of substrate nature and film thickness on physical properties of antimony trisulphide (Sb2S3) thin films for multifunctional device applications. Superlattices and Microstructures, 2020, 142, 106473.	1.4	10
34	Impact of CuO nanofiller on structural, optical and dielectric properties of CuO/DGEBA hybrid nanocomposites for optoelectronic devices. Optical and Quantum Electronics, 2021, 53, 1.	1.5	9
35	Enhanced structural and optical properties of ZnO nanopowder with tailored visible luminescence as a function of sodium hydroxide to zinc sulfate mass ratio. Advanced Powder Technology, 2018, 29, 325-332.	2.0	9
36	Study of charge relaxations after thermal aging in poly (methyl methacrylate). Physics Procedia, 2009, 2, 961-970.	1.2	8

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37	Study of polarization parameters effect on dipolar relaxation in epoxy-based polymer using thermally stimulated depolarization current. EPJ Applied Physics, 2014, 65, 31302.	0.3	8
38	Space charge measurements by the thermal step method in epoxidic polymer materials. Polymer International, 2000, 49, 1513-1518.	1.6	7
39	Effect of Ni doping on the structural, vibrational, optical and magnetic properties of YMn0.4Fe0.6-xNixO3 (0â€¯â‰¤â€¯xâ€¯â‰¤â€¯0.1) nanoparticles. Journal of Alloys and Compounds, 2019, 771, 327-334.	2.8	7
40	Dielectric, optical and infrared studies of the mixed caesium-ammonium acid sulphate Cs0.9(NH4)0.1HSO4. Phase Transitions, 1996, 56, 61-66.	0.6	6
41	Characterisation of gamma-irradiated polyetherimide films with infrared spectroscopy and thermally stimulated current measurements. Polymer International, 2007, 56, 325-332.	1.6	6
42	Correlation between structural and optical properties of GaN epi-layers by the cathodoluminescence technique. European Physical Journal Plus, 2016, 131, 1.	1.2	6
43	Effect of the different concentrations of ZnO:Mn incorporation on the microstructure and dielectric properties of epoxy nanocomposites. Journal of Materials Science: Materials in Electronics, 2018, 29, 5908-5917.	1.1	6
44	Analysis of high temperature phase transitions of copper doped (C2H5NH3)2CdCl4 perovskite. Journal of Molecular Structure, 2018, 1165, 236-245.	1.8	6
45	Exploring the optical and dielectric properties of bifunctional and trifunctional epoxy polymers. Polymer, 2021, 228, 123882.	1.8	6
46	Synthesis and characterization of nanosheet NiMoO4 powder as a highly efficient and reusable catalyst for environmental remediation. Journal of Nanoparticle Research, 2022, 24, 1.	0.8	6
47	Determination of the diffusion length and the optical self absorption coefficient using EBIC model. EPJ Applied Physics, 2001, 16, 45-51.	0.3	5
48	Effect of space charges on the local field and mechanisms of conduction in aged PMMA. IOP Conference Series: Materials Science and Engineering, 2010, 13, 012006.	0.3	5
49	Photoluminescence enhancement from the defects state formed by neutron/gamma mixed irradiation in an epoxy resin for LED applications. Radiation Effects and Defects in Solids, 2019, 174, 467-479.	0.4	5
50	Enhancement of dielectric responses and conduction properties of Zn-doped TiO2 for energy storage and photosensitivity applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 13187-13204.	1.1	5
51	Study of AC electrical conduction mechanisms in an epoxy polymer. European Physical Journal Plus, 2015, 130, 1.	1.2	4
52	Conduction mechanisms and relaxation phenomena along with electronic transition of ZnO/ZnNb2O6/Nb2O5 composite. Ceramics International, 2021, 47, 24732-24742.	2.3	4
53	Enhanced dielectric properties of ternary ZnO-based composites for dielectric applications. Applied Physics A: Materials Science and Processing, 2022, 128, 1.	1.1	4
54	A new numerical technique of electric field determination within dielectric materials plate and cable using the TSM method. EPJ Applied Physics, 2003, 23, 63-71.	0.3	3

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55	Dielectric properties in aged amorphous silicon oxide thin film. Journal of Alloys and Compounds, 2008, 456, 425-428.	2.8	3
56	Cathodoluminescence and depth profiling studies of unintentionally doped GaN films grown by MOVPE. Materials Research Express, 2015, 2, 106201.	0.8	3
57	Synthesis, phase transition and analysis of high temperature AC conductivity of (C2H5NH3)2Cd0.5Cu0.5Cl4 perovskite. Microelectronic Engineering, 2018, 200, 12-18.	1.1	3
58	Effect of ITO Nanoparticles on Dielectric Relaxation Processes and an Analysis of The Electric Impedance Characteristics of ITO/Epoxy Nanocomposites for Embedded Capacitor Devices. Journal of Electronic Materials, 2019, 48, 6529-6539.	1.0	3
59	The effect of the thickness on structural, optical limiting, and dielectric properties of hybrid coatings rhodamine B dye films on an epoxy polymeric substrate for display applications. Physica Scripta, 2021, 96, 125862.	1.2	3
60	Preparation and electrical properties in epoxy resin/In2O3:Sn nanocomposites materials for optoelectronics. Materials Science in Semiconductor Processing, 2015, 34, 334-342.	1.9	2
61	Exploring the structural properties and enhancement of Opto-electrical investigations for the synthesized epoxy based polymers with local nanoscale structures. Materials Research Express, 2020, 7, 035305.	0.8	2
62	Study of electrical properties of polymethylmethacrylate treated in aqueous and saline environments. EPJ Applied Physics, 2015, 69, 20202.	0.3	2
63	Contribution to the theoretical and experimental study of the dielectric material Rb0.7(NH4)0.3HSO4. EPJ Applied Physics, 2000, 11, 83-89.	0.3	2
64	Thermally Stimulated Depolarization Current analysis to the determination of polarization and relaxation parameters in aged PMMA. IOP Conference Series: Materials Science and Engineering, 2010, 13, 012018.	0.3	1
65	Synthesis, structural and microstructural study of new FeNa0.5H1.5MoO5 hybrid material for highly efficient energy storage hybrid systems. Inorganic Chemistry Communication, 2020, 113, 107811.	1.8	1
66	Enhancement of conductivity and conduction mechanisms in hybrid epoxy based nanocomposites for microelectronic applications. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2021, 266, 115035.	1.7	1
67	Characterisation and phase transitions in a new mixed acid sulphate K0.9Rb0.1HSO4. EPJ Applied Physics, 2002, 18, 99-107.	0.3	1
68	Dysprosium ion effect on the structural, optical, and dielectric characteristics of epoxy resin polymer composite panels for use as a transducer material. Journal of Materials Science: Materials in Electronics, 2022, 33, 16899-16914.	1.1	1
69	Synthesis, structural, optical properties and toxicity against cancer cells of new urea-CdCl2 complex. Materials Letters: X, 2021, 11, 100085.	0.3	0