

# Taj Khan

## List of Publications by Year in descending order

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37  
papers

580  
citations

759233

12  
h-index

642732

23  
g-index

37  
all docs

37  
docs citations

37  
times ranked

694  
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron Affinity and Bandgap Optimization of Zinc Oxide for Improved Performance of ZnO/Si Heterojunction Solar Cell Using PC1D Simulations. <i>Electronics (Switzerland)</i> , 2019, 8, 238.	3.1	70
2	Effect of thermal annealing on the structural and optical properties of ZnO thin films deposited by the reactive e-beam evaporation technique. <i>Physica Scripta</i> , 2010, 82, 065801.	2.5	64
3	Optical and electrical properties of NiO and Cu-doped NiO thin films synthesized by spray pyrolysis. <i>Optical Materials</i> , 2021, 119, 111369.	3.6	57
4	Synthesis of thermally evaporated ZnSe thin film at room temperature. <i>Thin Solid Films</i> , 2011, 519, 5971-5977.	1.8	52
5	Optoelectronic properties and temperature dependent mechanisms of composite-hydroxide-mediated approach for the synthesis of CdO nanomaterials. <i>Electronic Materials Letters</i> , 2015, 11, 366-373.	2.2	34
6	Effects of Cu incorporation on physical properties of ZnTe thin films deposited by thermal evaporation. <i>Materials Science in Semiconductor Processing</i> , 2014, 19, 17-23.	4.0	29
7	Tunability of physical properties of (Cd:Zn)S thin film by Close Space Sublimation Process (CSSP). <i>Progress in Natural Science: Materials International</i> , 2012, 22, 281-287.	4.4	24
8	Synthesis and optical study of heat-treated ZnO nanopowder for optoelectronic applications. <i>Bulletin of Materials Science</i> , 2015, 38, 1851-1858.	1.7	24
9	Optoelectronic study and annealing stability of room temperature pulsed laser ablated ZnSe polycrystalline thin films. <i>Journal of Luminescence</i> , 2014, 147, 97-106.	3.1	23
10	Growth and characterization of Ni:DLC composite films using pulsed laser deposition technique. <i>Materials Chemistry and Physics</i> , 2011, 126, 649-654.	4.0	22
11	Preparation and physical properties of functional barium carbonate nanostructures by a facile composite-hydroxide-mediated route. <i>Nanomaterials and Nanotechnology</i> , 2018, 8, 184798041876177.	3.0	18
12	In vitro bactericidal, antidiabetic, cytotoxic, anticoagulant, and hemolytic effect of green-synthesized silver nanoparticles using <i>Allium sativum</i> clove extract incubated at various temperatures. <i>Green Processing and Synthesis</i> , 2020, 9, 538-553.	3.4	15
13	Synthesis And Doping Feasibility Of Composite-hydroxide-mediated Approach For The Cu <sub>1-x</sub> Zn <sub>x</sub> O Nanomaterials. <i>Advanced Materials Letters</i> , 2016, 7, 561-566.	0.6	14
14	Effect of substrate biasing and temperature on AlN thin film deposited by cathodic arc ion. <i>Materials Science in Semiconductor Processing</i> , 2013, 16, 640-646.	4.0	11
15	Studies on the complex behavior of optical phonon modes in wurtzite (ZnO) <sub>1-x</sub> (Cr <sub>2</sub> O <sub>3</sub> ) <sub>x</sub> . <i>Applied Physics A: Materials Science and Processing</i> , 2014, 117, 1275-1282.	2.3	11
16	Enhancement of optical signal and characterization of palladium plasma by magnetic field-assisted laser-induced breakdown spectroscopy. <i>Optik</i> , 2020, 224, 165746.	2.9	11
17	Into the nature of Pd-dopant induced local phonon modes and associated disorders in ZnO; based on spatial correlation model. <i>Materials Chemistry and Physics</i> , 2015, 153, 248-255.	4.0	10
18	Thickness uniformity and optical/structural evaluation of RF sputtered ZnO thin films for solar cell and other device applications. <i>Applied Physics A: Materials Science and Processing</i> , 2017, 123, 1.	2.3	10

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19	Mechanisms Of Composite-hydroxide-mediated Approach For The Synthesis Of Functional ZnO Nanostructures And Morphological Dependent Optical Emissions. <i>Advanced Materials Letters</i> , 2015, 6, 592-599.	0.6	9
20	Compatibility and optoelectronic of ZnSe nano crystalline thin film. <i>Chinese Physics B</i> , 2012, 21, 097303.	1.4	8
21	Quantification of elemental composition of Granite Gneiss collected from Neelum Valley using calibration free laser-induced breakdown and energy-dispersive X-ray spectroscopy. <i>Journal of Radiation Research and Applied Sciences</i> , 2020, 13, 362-372.	1.2	7
22	A comparative study of physical properties of pure and In-doped nanostructured ZnO polycrystalline thin film for optoelectronic applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2014, 25, 1673-1680.	2.2	6
23	A new strategy of using dielectric barrier discharge plasma in tubular geometry for surface coating and extension to biomedical application. <i>Review of Scientific Instruments</i> , 2020, 91, 073902.	1.3	6
24	Compositional Analysis of Chalcopyrite Using Calibration-Free Laser-Induced Breakdown Spectroscopy. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 6848.	2.5	6
25	Theoreticalâ€“Computational Study of Atmospheric DBD Plasma and Its Utility for Nanoscale Biocompatible Plasmonic Coating. <i>Molecules</i> , 2021, 26, 5106.	3.8	6
26	Annealing-induced effects on structural and optical properties of Cd <sub>1-x</sub> Zn <sub>x</sub> S thin films for optoelectronic applications. <i>Materials Science-Poland</i> , 2015, 33, 677-684.	1.0	5
27	Synthesis, characterization and antibacterial performance of transparent c-axis oriented Al doped ZnO thin films. <i>Surfaces and Interfaces</i> , 2021, 27, 101452.	3.0	5
28	Study of excitonic UV emission stability, green luminescence and bandgap tune-ability in wurtzite (ZnO) <sub>1-x</sub> (Cr <sub>2</sub> O <sub>3</sub> ) <sub>x</sub> composite. <i>Vacuum</i> , 2014, 105, 1-6.	3.5	4
29	Silver nanoparticle films by flowing gas atmospheric pulsed laser deposition and application to surface-enhanced Raman spectroscopy. <i>International Journal of Energy Research</i> , 2020, 44, 11443-11452.	4.5	4
30	Chemical Analysis of Thermoluminescent Colorless Topaz Crystal Using Laser-Induced Breakdown Spectroscopy. <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 367.	2.0	4
31	Detection and Quantification of Precious Elements in Astrophyllite Mineral by Optical Spectroscopy. <i>Materials</i> , 2021, 14, 6277.	2.9	4
32	Composite-hydroxide-mediated approach an effective synthesis route for BaTiO <sub>3</sub> functional nanomaterials. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	2.3	3
33	Spatial Thickness Uniformity and Structural Evaluation of RF Sputtered ZnO Thin Films for Solar Cell. , 2017, , .		1
34	Whatâ€™s new in laser based nanofabrication for the fast uptake in industrial application. <i>Materials Science Materials Review</i> , 2019, 3, .	0.1	1
35	Atmospheric DBD Plasma Source in Play for SERS Active Substrates. <i>Biomedical Journal of Scientific &amp; Technical Research</i> , 2019, 14, .	0.1	1
36	Atmospheric-PLD as a New Trend for Nanofabrication in Nanotechnology. <i>Research &amp; Development in Material Science</i> , 2018, 8, .	0.1	1

#	ARTICLE	IF	CITATIONS
37	THERMAL ANNEALING OF MICRO-OXIDIZED ZINC NITRIDE SPUTTERED THIN FILMS FOR CONVERSION INTO CRYSTALLINE ZnO. Surface Review and Letters, 0, , .	1.1	0