

# Shahid Anwar

## List of Publications by Year in descending order

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58  
papers

1,176  
citations

361413

20  
h-index

414414

32  
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61  
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61  
docs citations

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times ranked

1463  
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#	ARTICLE	IF	CITATIONS
1	A Comparative Study of Electrochemical Capacitive Behavior of NiFe <sub>2</sub> O <sub>4</sub> Synthesized by Different Routes. Journal of the Electrochemical Society, 2011, 158, A976.	2.9	91
2	Ferroelectric relaxor behavior in hafnium doped barium-titanate ceramic. Solid State Communications, 2006, 138, 331-336.	1.9	85
3	Dielectric And Impedance Spectroscopic Studies Of Multiferroic BiFe <sub>1-x</sub> Ni <sub>x</sub> O <sub>3</sub> . Advanced Materials Letters, 2014, 5, 531-537.	0.6	54
4	Structural and impedance spectroscopy study of Samarium modified Barium Zirconium Titanate ceramic prepared by mechanochemical route. Current Applied Physics, 2014, 14, 1192-1200.	2.4	53
5	Frequency and temperature dependence dielectric study of strontium modified Barium Zirconium Titanate ceramics obtained by mechanochemical synthesis. Journal of Materials Science: Materials in Electronics, 2015, 26, 3069-3082.	2.2	49
6	Crossover from classical to relaxor ferroelectrics in BaTi <sub>1-x</sub> Hf <sub>x</sub> O <sub>3</sub> ceramics. Journal of Physics Condensed Matter, 2006, 18, 3455-3468.	1.8	43
7	Structural and dielectric properties of polyvinyl alcohol/barium zirconium titanate polymer-ceramic composite. Current Applied Physics, 2013, 13, 1490-1495.	2.4	43
8	Structural refinement, optical and ferroelectric properties of microcrystalline Ba(Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> perovskite. Current Applied Physics, 2014, 14, 708-715.	2.4	43
9	Strain induced coexistence of monoclinic and charge ordered phases in La <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> . Physical Review B, 2006, 74, .	3.2	41
10	Diffuse phase transition behavior of dysprosium doped barium titanate ceramic. Journal of Electroceramics, 2013, 31, 55-60.	2.0	41
11	Investigation of multiferroic properties of doped BiFeO <sub>3</sub> -BaTiO <sub>3</sub> composite ceramics. Materials Letters, 2015, 142, 42-44.	2.6	40
12	Spray pyrolysis deposited tin selenide thin films for thermoelectric applications. Materials Chemistry and Physics, 2015, 153, 236-242.	4.0	35
13	Low temperature stabilized rutile phase TiO <sub>2</sub> films grown by sputtering. Thin Solid Films, 2012, 520, 1809-1813.	1.8	31
14	Structural and mechanical evolution of TiAlSiN nanocomposite coating under influence of Si <sub>3</sub> N <sub>4</sub> power. Surface and Coatings Technology, 2016, 307, 676-682.	4.8	30
15	Frequency and temperature dependence dielectric behavior of barium zirconate titanate nanocrystalline powder obtained by mechanochemical synthesis. Journal of Materials Science: Materials in Electronics, 2013, 24, 4033-4042.	2.2	29
16	Powder X-ray diffraction and Rietveld analysis of La <sub>x</sub> Ca <sub>x</sub> MnO <sub>3</sub> (0<math>x</math><math>\leq 1). Powder Diffraction, 2006, 21, 40-44.	0.2	26
17	Effect of Yttrium Doping in Barium Zirconium Titanate Ceramics: A Structural, Impedance, and Modulus Spectroscopy Study. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2013, 44, 4296-4309.	2.2	25
18	Effect of deposition time on lead selenide thermoelectric thin films prepared by chemical bath deposition technique. Materials Science in Semiconductor Processing, 2015, 34, 45-51.	4.0	25

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19	Direct correlation between the band gap and dielectric loss in Hf doped BaTiO <sub>3</sub> . Journal of Materials Science: Materials in Electronics, 2019, 30, 8064-8070.	2.2	25
20	Synthesis conditions induced disorder and its role in affecting structural, dielectric, piezoelectric, optical behavior and enhancing energy storage efficiency in (Ba <sub>1-x</sub> Cax)TiO <sub>3</sub> ceramics. Ceramics International, 2022, 48, 19324-19335.	4.8	21
21	Multilayer composite ceramic-metal thin film: Structural and mechanical properties. Surfaces and Interfaces, 2018, 10, 110-116.	3.0	20
22	Locating the normal to relaxor phase boundary in Ba(Ti <sub>1-x</sub> Hfx)O <sub>3</sub> ceramics. Materials Research Bulletin, 2008, 43, 1761-1769.	5.2	19
23	Structural refinement, optical and electrical properties of [Ba <sub>1-x</sub> Sm <sub>2x/3</sub> ](Zr <sub>0.05</sub> Ti <sub>0.95</sub> )O <sub>3</sub> ceramics. Journal of Materials Science: Materials in Electronics, 2014, 25, 3427-3439.	2.2	19
24	Effect of bath temperature on PbSe thin films prepared by chemical synthesis. Materials Science in Semiconductor Processing, 2015, 40, 910-916.	4.0	18
25	Study of the relaxor behavior in BaTi <sub>1-x</sub> HfxO <sub>3</sub> (0.20 ≤ x ≤ 0.30) ceramics. Solid State Sciences, 2007, 9, 1054-1060.	3.2	15
26	Simple apparatus to measure Seebeck coefficient up to 900K. Measurement: Journal of the International Measurement Confederation, 2015, 68, 295-301.	5.0	15
27	Structural and mechanical studies of W <sub>2</sub> N embedded Si <sub>3</sub> N <sub>4</sub> nanocomposite hard coating prepared by reactive magnetron sputtering. Surface and Coatings Technology, 2017, 311, 268-273.	4.8	15
28	Thermal stability studies of tungsten nitride thin films. Surface Engineering, 2017, 33, 276-281.	2.2	15
29	Origin of ferroelectricity in cubic phase of Hf substituted BaTiO <sub>3</sub> . Journal of Physics Condensed Matter, 2021, 33, 165403.	1.8	15
30	Relaxor ferroelectric behavior of A-site deficient Bismuth doped Barium Titanate ceramic. Journal of Electroceramics, 2012, 29, 117-124.	2.0	14
31	Structural and mechanical study of thermally annealed tungsten nitride thin films. Perspectives in Science, 2016, 8, 636-638.	0.6	13
32	Electrophoretic deposition studies of Ba(Zr <sub>0.9</sub> Ce <sub>0.1</sub> )O <sub>3</sub> ceramic coating. International Journal of Applied Ceramic Technology, 2019, 16, 1022-1031.	2.1	13
33	Structural, Electrical, and Optical Behavior of Strontium Bismuth Titanate Ceramic. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2014, 45, 2132-2141.	2.2	12
34	Investigations on structural, optical and thermoelectric parameters of spray deposited bismuth selenide thin films with different substrate temperature. Materials Chemistry and Physics, 2014, 148, 230-235.	4.0	12
35	The contribution of grain boundary and defects to the resistivity in the ferromagnetic state of polycrystalline manganites. Journal of Magnetism and Magnetic Materials, 2006, 306, 60-68.	2.3	10
36	Mechanical studies of thermally annealed nc-W <sub>2</sub> N embedded a-Si <sub>3</sub> N <sub>4</sub> nanocomposite films. Thin Solid Films, 2017, 636, 93-98.	1.8	10

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37	Temperature Dependence of Ionic Conductivity of Ceria Electrolyte at Concentrated Range of Multiple Doping. <i>Journal of the American Ceramic Society</i> , 2013, 96, 2846-2851.	3.8	9
38	Effect of oxygenation on the structural and dielectric properties of Sr $1-x$ CaxTiO $3$ with 0.20 $\leq x \leq$ 0.40. <i>Applied Physics Letters</i> , 2008, 92, 212901.	3.3	8
39	Optimized substrate temperature range for improved physical properties in spray pyrolysis deposited Tin Selenide thin films. <i>Materials Chemistry and Physics</i> , 2016, 175, 118-124.	4.0	8
40	Magnetoelectric coupling of manganese ferrite-potassium niobate lead-free composite ceramics synthesized by solid state reaction method. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 3411-3417.	2.2	8
41	Electron microscopic studies of the antiferroelectric phase in Sr $0.60$ Ca $0.40$ TiO $3$ ceramic. <i>Journal of Solid State Chemistry</i> , 2008, 181, 997-1004.	2.9	7
42	Structural and dielectric properties of barium-modified SrBi $4$ Ti $4$ O $15$ ceramics. <i>Phase Transitions</i> , 2015, 88, 430-444.	1.3	7
43	Effect of sintering temperature on the transport properties of La $2$ Ce $2$ O $7$ ceramic materials. <i>Ceramics International</i> , 2022, 48, 6758-6766.	4.8	7
44	Space group analysis of Sr $1-x$ CaxTiO $3$ ceramics with $x = 0.20, 0.27$ and $0.30$ through electron diffraction. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 436210.	1.8	6
45	Effect of swift heavy ion irradiation in Fe/W multilayer structures. <i>Applied Surface Science</i> , 2009, 256, 541-546.	6.1	6
46	Structural and magnetic study of swift heavy ion irradiated W/Fe multilayer structure. <i>Journal of Magnetism and Magnetic Materials</i> , 2010, 322, 3851-3856.	2.3	6
47	Thermally stimulated depolarization current studies of relaxation in L-asparagine monohydrate. <i>IEEE Transactions on Dielectrics and Electrical Insulation</i> , 2010, 17, 1128-1134.	2.9	6
48	Hydrolysis of SnCl $2$ on polyaniline: Formation of conducting PANi $6nO_2$ composite with enhanced electrochemical properties. <i>Journal of Applied Polymer Science</i> , 2012, 124, 4819-4826.	2.6	6
49	Electron diffraction evidence of charge-ordering at room-temperature in La $1-x$ CaxMnO $3$ (0.55 $\leq x \leq$ 0.67). <i>Solid State Communications</i> , 2006, 137, 158-161.	1.9	5
50	Unambiguous evidence for wurtzite phase in capped CdS quantum dots. <i>Solid State Communications</i> , 2008, 146, 425-427.	1.9	4
51	Synthesis and Characterization of Bismuth Selenide Thin Films by Chemical Bath Deposition Technique. <i>Advanced Science Letters</i> , 2014, 20, 854-856.	0.2	4
52	Phase coexistence in Sr $0.70$ Ca $0.30$ TiO $3$ studied through electron diffraction. <i>Solid State Sciences</i> , 2008, 10, 307-315.	3.2	3
53	Effect of swift heavy ion irradiation in W/Co multilayer structures. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2010, 268, 1601-1606.	1.4	3
54	In-situ spectroelectrochemistry (EPR, UV-visible) and aggregation behavior of H $2$ BDCP and Zn(II)BDCP [BDCP = {5,10,15,20-tetrakis[3,4-(1,4-dioxan)phenyl]porphyrin}2 $^{4-}$ ]. <i>Dyes and Pigments</i> , 2014, 107, 29-37.	3.7	3

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55	Role of sputter powers and deposition temperatures towards the growth of $\text{W}_2\text{N}/\text{Si}_3\text{N}_4$ nanocomposite coating. International Journal of Applied Ceramic Technology, 2021, 18, 419-431.	2.1	2
56	Occurrence of a new superlattice phase across the antiferroelectric phase transition in $\text{Sr}_{1-x}\text{Ca}_x\text{TiO}_3$ ( $x=0.30$ and $0.40$ ). Journal of Physics Condensed Matter, 2008, 20, 325231.	1.8	1
57	Effect of samarium doping on the dielectric behavior of barium zirconium titanate ceramic. , 2014, , .		1
58	EVIDENCE OF THICKNESS-DEPENDENT STABILITY OF NANOMETER RANGE W/Ni MULTILAYERS AGAINST SWIFT HEAVY ION IRRADIATION. International Journal of Nanoscience, 2011, 10, 99-103.	0.7	0