

Muhammad Javed Akhtar

List of Publications by Year in descending order

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80
papers

2,144
citations

257357

24
h-index

243529

44
g-index

80
all docs

80
docs citations

80
times ranked

2566
citing authors

#	ARTICLE	IF	CITATIONS
1	Computer Simulation Studies of Strontium Titanate. Journal of the American Ceramic Society, 1995, 78, 421-428.	1.9	232
2	Investigation of transport behavior in Ba doped BiFeO ₃ . Ceramics International, 2012, 38, 3829-3834.	2.3	154
3	Effects of low frequency near metal-insulator transition temperatures on polycrystalline La _{0.65} Ca _{0.35} Mn _{1-γ} FeyO ₃ (where $\gamma=0.05\hat{e}^{\wedge}0.10$) ceramic oxides. Solid State Communications, 2005, 134, 431-436.	0.9	115
4	Small polaronic hole hopping mechanism and Maxwell-Wagner relaxation in NdFeO ₃ . Journal of Applied Physics, 2012, 112, .	1.1	101
5	Investigation of Structural and Electrical Properties of Polyaniline/Gold Nanocomposites. Journal of Physical Chemistry C, 2009, 113, 17560-17565.	1.5	88
6	Structural and electrical properties of polyaniline/silver nanocomposites. Journal Physics D: Applied Physics, 2009, 42, 015411.	1.3	84
7	Ac study of 10% Fe-doped La _{0.65} Ca _{0.35} MnO ₃ material by impedance spectroscopy. Chemical Physics Letters, 2002, 366, 433-439.	1.2	82
8	Structural and transport properties of nanocrystalline MnFe ₂ O ₄ synthesized by Aco-precipitation method. Solid State Sciences, 2012, 14, 1536-1542.	1.5	65
9	Enhancement in the multiferroic properties of BiFeO ₃ by charge compensated aliovalent substitution of Ba and Nb. AIP Advances, 2014, 4, .	0.6	61
10	Increase of grain boundary resistance with time by impedance spectroscopy in La _{0.50} Ca _{0.50} MnO ₃ + \hat{I} ' at 77 K. Solid State Communications, 2008, 145, 263-266.	0.9	59
11	Melting/collapse of charge orbital ordering and spread of relaxation time with frequency in La _{0.50} Ca _{0.50} MnO ₃ + \hat{I} ' by impedance spectroscopy. Journal of Applied Physics, 2008, 104, .	1.1	59
12	Dielectric and impedance studies of DBSA doped polyaniline/PVC composites. Current Applied Physics, 2010, 10, 601-606.	1.1	59
13	Change of conduction mechanism in the impedance of grain boundaries in Pr _{0.4} Ca _{0.6} MnO ₃ . Journal of Magnetism and Magnetic Materials, 2013, 332, 61-66.	1.0	52
14	Theoretical studies of structural and magnetic properties of cubic perovskites PrCoO ₃ and NdCoO ₃ . Physica B: Condensed Matter, 2011, 406, 3800-3804.	1.3	48
15	Effects of iron doping on the transport and magnetic behaviour in La _{0.65} Ca _{0.35} Mn _{1-γ} FeyO ₃ . Journal of Physics Condensed Matter, 2000, 12, 9007-9017.	0.7	46
16	Cation distribution in nanocrystalline ZnFe ₂ O ₄ investigated using x-ray absorption fine structure spectroscopy. Journal of Physics Condensed Matter, 2009, 21, 405303.	0.7	45
17	The pressure dependence of the crystal structure of La ₂ CuO ₄ . Journal of Physics C: Solid State Physics, 1988, 21, L917-L920.	1.5	40
18	Change of Mott variable range to small polaronic hole hopping conduction mechanism and formation of Schottky barriers in Nd _{0.9} Sr _{0.1} FeO ₃ . Journal of Applied Physics, 2013, 114, .	1.1	39

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19	Origin of anomalous octahedral distortions and collapse of magnetic ordering in $\text{Nd}_{1-x}\text{Sr}_x\text{FeO}_3$ ($0 \leq x \leq 0.5$). <i>Ceramics International</i> , 2013, 39, 8901-8909.	2.3	35
20	Structural studies of SrFeO_3 and $\text{SrFe}_{0.5}\text{Nb}_{0.5}\text{O}_3$ by employing XRD and XANES spectroscopic techniques. <i>Materials Characterization</i> , 2011, 62, 1016-1020.	1.9	34
21	Superparamagnetic bimetallic iron-palladium nanoalloy: synthesis and characterization. <i>Nanotechnology</i> , 2008, 19, 185608.	1.3	32
22	Impedance spectroscopic investigation of electro active regions, conduction mechanism and origin of colossal dielectric constant in $\text{Nd}_{1-x}\text{Sr}_x\text{FeO}_3$ ($0.1 \leq x \leq 0.5$). <i>Materials Research Bulletin</i> , 2014, 60, 474-484.	2.7	30
23	Role of multivalent Cu, oxygen vacancies and CuO nanophase in the ferromagnetic properties of $\text{ZnO}:\text{Cu}$ thin films. <i>RSC Advances</i> , 2015, 5, 55648-55657.	1.7	29
24	Association of microstructure and electric heterogeneity in BiFeO_3 . <i>Materials Chemistry and Physics</i> , 2013, 143, 256-262.	2.0	27
25	Atomistic simulation studies of zircon. <i>Chemical Physics</i> , 2001, 274, 109-120.	0.9	23
26	Irreversible electronic and magnetic transformations in colossal magnetoresistance compositions close to charge ordering. <i>Physical Review B</i> , 2002, 65, .	1.1	22
27	Re-entrant spin freezing behavior in $\text{La}_{0.85}\text{Ca}_{0.15}\text{Mn}_{0.95}\text{Fe}_{0.05}\text{O}_3$ manganite. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 271, 79-87.	1.0	22
28	Negative pressure driven phase transformation in Sr doped SmCoO_3 . <i>Journal of Physics Condensed Matter</i> , 2010, 22, 075402.	0.7	22
29	X-ray absorption near-edge studies of BaBiO_3 , $\text{BaBi}_{1-x}\text{Pb}_x\text{O}_3$ and $\text{Ba}_{1-x}\text{K}_x\text{BiO}_3$ systems. <i>Journal of Physics Condensed Matter</i> , 1993, 5, 2643-2646.	0.7	21
30	Bulk and Surface Simulation Studies of $\text{La}_{1-x}\text{Ca}_x\text{MnO}_3$. <i>Chemistry of Materials</i> , 2006, 18, 1552-1560.	3.2	21
31	Electrical conductivity and extended X-ray absorption fine structure studies of $\text{SrFe}_{1-x}\text{Nb}_x\text{O}_3$ and $\text{BaFe}_{1-x}\text{Nb}_x\text{O}_3$ systems. <i>Solid State Ionics</i> , 1997, 104, 147-158.	1.3	17
32	Pressure-induced magnetic, structural, and electronic phase transitions in LaFeO_3 : A density functional theory (generalized gradient approximation) study. <i>Journal of Applied Physics</i> , 2014, 116, .	1.1	17
33	Iron-manganese-titanium (FeMnTiO_2) oxide composite thin films for improved photocurrent efficiency. <i>New Journal of Chemistry</i> , 2017, 41, 7322-7330.	1.4	17
34	Effect of Inorganic Silver Nanoparticles on Structural and Electrical Properties of Polyaniline/PVC Blends. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , 2010, 20, 783-792.	1.9	16
35	Atomistic computer simulation studies of $\text{La}_{1-x}\text{Sr}_x\text{VO}_3$. <i>Solid State Communications</i> , 2006, 137, 110-114.	0.9	15
36	Single source heterobimetallic precursors for the deposition of Cu-Ti mixed metal oxide thin films. <i>Dalton Transactions</i> , 2008, , 1224.	1.6	15

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37	Jahn-Teller assisted polaronic hole hopping as a charge transport mechanism in CuO nanograins. <i>Applied Physics Letters</i> , 2012, 100, 152103.	1.5	15
38	Thermal studies of DBSA-doped polyaniline/PVC blends by isothermal microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , 2010, 100, 1017-1025.	2.0	14
39	An ab-initio density functional theory investigation of fullerene/Zn-phthalocyanine (C60/ZnPc) interface with face-on orientation. <i>Journal of Applied Physics</i> , 2015, 118, 045305.	1.1	13
40	Removal of pirimicarb from agricultural waste water using cellulose acetateâ€“modified ionic liquid membrane. <i>Environmental Science and Pollution Research</i> , 2019, 26, 15795-15802.	2.7	13
41	Pyrolysis mechanism of trisbipyridineiron(II) chloride to iron nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2012, 110, 707-713.	2.0	12
42	Ultrasound-assisted synthesis of gallium hybrids for environmental remediation application. <i>Ultrasonics Sonochemistry</i> , 2018, 49, 222-232.	3.8	12
43	Realistic dielectric response of high temperature sintered ZnO ceramic: a microscopic and spectroscopic approach. <i>RSC Advances</i> , 2020, 10, 30451-30462.	1.7	12
44	Morphological studies of DBSA-doped polyaniline/PVC blends. <i>Journal of Electron Microscopy</i> , 2010, 59, 339-344.	0.9	11
45	Effects of silver nanoparticles on thermal properties of DBSA-doped polyaniline/PVC blends. <i>Iranian Polymer Journal (English Edition)</i> , 2012, 21, 489-496.	1.3	11
46	Pressure driven spin crossover and isostructural phase transition in LaFeO3. <i>Journal of Applied Physics</i> , 2013, 114, .	1.1	11
47	Reversible Tuning of Ferromagnetism and Resistive Switching in ZnO/Cu Thin Films. <i>ACS Omega</i> , 2017, 2, 8810-8817.	1.6	11
48	Band gap tuning and excitonic effect in chloroâ€“fluorinated graphene. <i>Surface Science</i> , 2019, 686, 39-44.	0.8	11
49	The effect of pressure on the crystal structures of some bismuth based superconductors. <i>Solid State Communications</i> , 1994, 92, 535-540.	0.9	10
50	X-Ray absorption studies of bi-based superconductors. <i>Journal of Materials Chemistry</i> , 1994, 4, 1081.	6.7	10
51	Impedance spectroscopy of chitosan/poly(vinyl alcohol) films. <i>Journal of Solid State Electrochemistry</i> , 2016, 20, 571-578.	1.2	10
52	Enhancement of ferromagnetism by suppression of spiral spin structure in Ba doped BiFeO3. <i>Journal of Magnetism and Magnetic Materials</i> , 2019, 484, 286-290.	1.0	10
53	Adsorption and electronic properties of Fullerene/Zn-Phthalocyanine (C60/ZnPc) interface with face-on orientation: A van der Waals corrected Density Functional Theory investigation. <i>Chemical Physics Letters</i> , 2016, 649, 73-77.	1.2	9
54	Computational study of scheelite (ZrSiO4) by employing static simulation techniques. <i>Solid State Sciences</i> , 2003, 5, 541-548.	1.5	7

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55	A structural phase transition in YBa ₂ Cu ₃ O ₇ at high pressures. Journal of Physics Condensed Matter, 1990, 2, 3231-3236.	0.7	6
56	Thermoelectric power measurements in Fe doped La _{0.65} Ca _{0.35} MnO ₃ . Journal of Physics Condensed Matter, 2002, 14, 10305-10316.	0.7	6
57	Atomistic computer simulation studies of Sr ₂ RuO ₄ and Ca ₂ RuO ₄ . Journal of Physics and Chemistry of Solids, 2003, 64, 237-245.	1.9	6
58	Investigation of Electrical Properties of Polyaniline Nanocomposites by Impedance Spectroscopy. Key Engineering Materials, 2010, 442, 356-363.	0.4	6
59	Investigation of Cationic Distribution in Zn _{1-x} Ni _x Fe ₂ O ₄ (x=0.0 to 1.0) by Employing X-ray Absorption Fine Structure Spectroscopy. Journal of Electronic Materials, 2015, 44, 2615-2623.	1.0	6
60	Effects of Ni doping on the structural properties and collapse of magnetic ordering in NdFe _{1-x} Ni _x O ₃ (0.1 ≤ x ≤ 0.7) orthoferrit. Chinese Physics B, 2016, 25, 028101.	0.7	6
61	Effects of temperature on conduction mechanism, ac electrical and dielectric properties of NdFe _{0.9} Ni _{0.1} O ₃ by employing impedance spectroscopy. Journal of Solid State Electrochemistry, 2017, 21, 3093-3101.	1.2	6
62	Sonochemical synthesis of aluminium and aluminium hybrids for remediation of toxic metals. Ultrasonics Sonochemistry, 2021, 70, 105299.	3.8	6
63	X-ray absorption studies of La _{2-x} (Ba,Sr) _x CuO ₄ high-T _c superconductors. Physica C: Superconductivity and Its Applications, 1993, 209, 373-380.	0.6	5
64	Low temperature synthesis, magnetic and electrical properties of iron-magnesium superparamagnetic nanoalloy. Journal of Alloys and Compounds, 2009, 479, 97-101.	2.8	5
65	Orientation dependant charge transfer at fullerene/Zn-phthalocyanine (C ₆₀ /ZnPc) interface: Implications for energy level alignment and photovoltaic properties. Applied Physics Letters, 2016, 109, .	1.5	5
66	Electronic structure and spin state of fluorinated metal phthalocyanine molecules. Journal of Magnetism and Magnetic Materials, 2020, 494, 165775.	1.0	5
67	Revival of metastable behavior in phase separated La _{0.5} Ca _{0.5} MnO ₃ . Solid State Communications, 2004, 129, 267-271.	0.9	4
68	Stabilization of the ferromagnetic metallic state in rare earth-doped La _{0.49} X _{0.01} Ca _{0.50} MnO ₃ (X=Nd, Tj ETQq0,0,0 rgBT /Overlock 1	1.0	4
69	Synthesis of a cobalt-based photoluminescent coordination complex to study quenching mechanisms of nitro compounds. Journal of Coordination Chemistry, 2018, 71, 2358-2372.	0.8	4
70	Synthesis and characterization of YBa ₂ Cu _{3-x} Sb _x O ₇ high-temperature superconductors. Superconductor Science and Technology, 2000, 13, 1612-1620.	1.8	3
71	Investigation of ageing effects on the electrical properties of polyaniline/silver nanocomposites. Chinese Physics B, 2011, 20, 058102.	0.7	3
72	Orientalional preference of the organic cations in methylammonium lead-iodide perovskite: the role of structural constraints. Chemical Physics Letters, 2020, 752, 137566.	1.2	3

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73	Thermodynamic and kinetics study of phosphonium-based cellulose acetate supported ionic liquid membrane: wastewater treatment. , 0, 133, 20-27.		3
74	Electrochemical impedance spectroscopic analysis of aluminum and gallium mixed matrix membranes. Journal of Solid State Electrochemistry, 2020, 24, 961-974.	1.2	2
75	Photoluminescence intensity of Cu-doped ZnO modulated via defect occupancy by applying electric bias. Journal Physics D: Applied Physics, 2022, 55, 315102.	1.3	2
76	Electronic structure of partially fluorinated graphene: The impact of adsorption patterns and dynamic stability. Chemical Physics Letters, 2022, 803, 139807.	1.2	1
77	Fabrication of polysulfone mixed matrix membrane for wastewater treatment. Journal of Environmental Health Science & Engineering, 0, , .	1.4	1
78	The pressure dependence of the crystal structures of La ₂ CuO ₄ and YBa ₂ Cu ₃ O ₇ . High Pressure Research, 1990, 3, 111-113.	0.4	0
79	A chemical approach toward low temperature alloying of immiscible iron and molybdenum metals. Materials Research Bulletin, 2013, 48, 4661-4666.	2.7	0
80	Designing of zinc based coordination complex [Zn(bpeb)(OHbdc)].DMF for industrial wastewater treatment. , 0, 106, 98-107.		0