

# Muhammad Javed Akhtar

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

76  
papers

1,790  
citations

23  
h-index

40  
g-index

80  
ext. papers

1,972  
ext. citations

3  
avg, IF

4.69  
L-index

#	Paper	IF	Citations
76	Sonochemical synthesis of aluminium and aluminium hybrids for remediation of toxic metals. <i>Ultrasonics Sonochemistry</i> , <b>2021</b> , 70, 105299	8.9	3
75	Electrochemical impedance spectroscopic analysis of aluminum and gallium mixed matrix membranes. <i>Journal of Solid State Electrochemistry</i> , <b>2020</b> , 24, 961-974	2.6	
74	Oriental preference of the organic cations in methylammonium lead-iodide perovskite: the role of structural constraints. <i>Chemical Physics Letters</i> , <b>2020</b> , 752, 137566	2.5	0
73	Realistic dielectric response of high temperature sintered ZnO ceramic: a microscopic and spectroscopic approach. <i>RSC Advances</i> , <b>2020</b> , 10, 30451-30462	3.7	2
72	Electronic structure and spin state of fluorinated metal phthalocyanine molecules. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 494, 165775	2.8	1
71	Enhancement of ferromagnetism by suppression of spiral spin structure in Ba doped BiFeO <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2019</b> , 484, 286-290	2.8	7
70	Band gap tuning and excitonic effect in chloro-fluorinated graphene. <i>Surface Science</i> , <b>2019</b> , 686, 39-44	1.8	6
69	Removal of pirimicarb from agricultural waste water using cellulose acetate-modified ionic liquid membrane. <i>Environmental Science and Pollution Research</i> , <b>2019</b> , 26, 15795-15802	5.1	6
68	Synthesis of a cobalt-based photoluminescent coordination complex to study quenching mechanisms of nitro compounds. <i>Journal of Coordination Chemistry</i> , <b>2018</b> , 71, 2358-2372	1.6	2
67	Ultrasound-assisted synthesis of gallium hybrids for environmental remediation application. <i>Ultrasonics Sonochemistry</i> , <b>2018</b> , 49, 222-232	8.9	6
66	IronManganeseTitanium (1 : 1 : 2) oxide composite thin films for improved photocurrent efficiency. <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 7322-7330	3.6	10
65	Effects of temperature on conduction mechanism, ac electrical and dielectric properties of NdFe <sub>0.9</sub> Ni <sub>0.1</sub> O <sub>3</sub> by employing impedance spectroscopy. <i>Journal of Solid State Electrochemistry</i> , <b>2017</b> , 21, 3093-3101	2.6	5
64	Reversible Tuning of Ferromagnetism and Resistive Switching in ZnO/Cu Thin Films. <i>ACS Omega</i> , <b>2017</b> , 2, 8810-8817	3.9	5
63	Impedance spectroscopy of chitosan/poly(vinyl alcohol) films. <i>Journal of Solid State Electrochemistry</i> , <b>2016</b> , 20, 571-578	2.6	9
62	Effects of Ni doping on the structural properties and collapse of magnetic ordering in NdFe <sub>1-x</sub> Ni <sub>x</sub> O <sub>3</sub> (0.1 ≤ x ≤ 0.7) orthoferrites. <i>Chinese Physics B</i> , <b>2016</b> , 25, 028101	1.2	4
61	Orientation dependant charge transfer at fullerene/Zn-phthalocyanine (C <sub>60</sub> /ZnPc) interface: Implications for energy level alignment and photovoltaic properties. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 051605	3.4	3
60	Adsorption and electronic properties of Fullerene/Zn-Phthalocyanine (C <sub>60</sub> /ZnPc) interface with face-on orientation: A van der Waals corrected Density Functional Theory investigation. <i>Chemical Physics Letters</i> , <b>2016</b> , 649, 73-77	2.5	7

59	Investigation of Cationic Distribution in $Zn_{1-x}Ni_xFe_2O_4$ ( $x = 0.0$ to $1.0$ ) by Employing X-ray Absorption Fine Structure Spectroscopy. <i>Journal of Electronic Materials</i> , <b>2015</b> , 44, 2615-2623	1.9	5
58	Role of multivalent Cu, oxygen vacancies and CuO nanophase in the ferromagnetic properties of ZnO:Cu thin films. <i>RSC Advances</i> , <b>2015</b> , 5, 55648-55657	3.7	17
57	An ab-initio density functional theory investigation of fullerene/Zn-phthalocyanine (C <sub>60</sub> /ZnPc) interface with face-on orientation. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 045305	2.5	11
56	Pressure-induced magnetic, structural, and electronic phase transitions in LaFeO <sub>3</sub> : A density functional theory (generalized gradient approximation) + U study. <i>Journal of Applied Physics</i> , <b>2014</b> , 116, 023704	2.5	13
55	Enhancement in the multiferroic properties of BiFeO <sub>3</sub> by charge compensated aliovalent substitution of Ba and Nb. <i>AIP Advances</i> , <b>2014</b> , 4, 037113	1.5	49
54	Impedance spectroscopic investigation of electro active regions, conduction mechanism and origin of colossal dielectric constant in Nd <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> ( $0.1 \leq x \leq 0.5$ ). <i>Materials Research Bulletin</i> , <b>2014</b> , 60, 474-484	5.1	22
53	Change of Mott variable range to small polaronic hole hopping conduction mechanism and formation of Schottky barriers in Nd <sub>0.9</sub> Sr <sub>0.1</sub> FeO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 034103	2.5	25
52	Pressure driven spin crossover and isostructural phase transition in LaFeO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2013</b> , 114, 243712	2.5	10
51	Change of conduction mechanism in the impedance of grain boundaries in Pr <sub>0.4</sub> Ca <sub>0.6</sub> MnO <sub>3</sub> . <i>Journal of Magnetism and Magnetic Materials</i> , <b>2013</b> , 332, 61-66	2.8	35
50	Association of microstructure and electric heterogeneity in BiFeO <sub>3</sub> . <i>Materials Chemistry and Physics</i> , <b>2013</b> , 143, 256-262	4.4	24
49	A chemical approach toward low temperature alloying of immiscible iron and molybdenum metals. <i>Materials Research Bulletin</i> , <b>2013</b> , 48, 4661-4666	5.1	
48	Origin of anomalous octahedral distortions and collapse of magnetic ordering in Nd <sub>1-x</sub> Sr <sub>x</sub> FeO <sub>3</sub> ( $0 \leq x \leq 0.5$ ). <i>Ceramics International</i> , <b>2013</b> , 39, 8901-8909	5.1	24
47	Structural and transport properties of nanocrystalline MnFe <sub>2</sub> O <sub>4</sub> synthesized by co-precipitation method. <i>Solid State Sciences</i> , <b>2012</b> , 14, 1536-1542	3.4	52
46	Pyrolysis mechanism of trisbipyridineiron(II) chloride to iron nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2012</b> , 110, 707-713	4.1	11
45	Jahn-Teller assisted polaronic hole hopping as a charge transport mechanism in CuO nanograins. <i>Applied Physics Letters</i> , <b>2012</b> , 100, 152103	3.4	11
44	Small polaronic hole hopping mechanism and Maxwell-Wagner relaxation in NdFeO <sub>3</sub> . <i>Journal of Applied Physics</i> , <b>2012</b> , 112, 074105	2.5	78
43	Effects of silver nanoparticles on thermal properties of DBSA-doped polyaniline/PVC blends. <i>Iranian Polymer Journal (English Edition)</i> , <b>2012</b> , 21, 489-496	2.3	11
42	Investigation of transport behavior in Ba doped BiFeO <sub>3</sub> . <i>Ceramics International</i> , <b>2012</b> , 38, 3829-3834	5.1	127

41	Structural studies of SrFeO <sub>3</sub> and SrFe <sub>0.5</sub> Nb <sub>0.5</sub> O <sub>3</sub> by employing XRD and XANES spectroscopic techniques. <i>Materials Characterization</i> , <b>2011</b> , 62, 1016-1020	3.9	27
40	Theoretical studies of structural and magnetic properties of cubic perovskites PrCoO <sub>3</sub> and NdCoO <sub>3</sub> . <i>Physica B: Condensed Matter</i> , <b>2011</b> , 406, 3800-3804	2.8	36
39	Investigation of ageing effects on the electrical properties of polyaniline/silver nanocomposites. <i>Chinese Physics B</i> , <b>2011</b> , 20, 058102	1.2	3
38	Morphological studies of DBSA-doped polyaniline/PVC blends. <i>Journal of Electron Microscopy</i> , <b>2010</b> , 59, 339-44		11
37	Investigation of Electrical Properties of Polyaniline Nanocomposites by Impedance Spectroscopy. <i>Key Engineering Materials</i> , <b>2010</b> , 442, 356-363	0.4	6
36	Negative pressure driven phase transformation in Sr doped SmCoO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 075402	1.8	19
35	Effect of Inorganic Silver Nanoparticles on Structural and Electrical Properties of Polyaniline/PVC Blends. <i>Journal of Inorganic and Organometallic Polymers and Materials</i> , <b>2010</b> , 20, 783-792	3.2	14
34	Thermal studies of DBSA-doped polyaniline/PVC blends by isothermal microcalorimetry. <i>Journal of Thermal Analysis and Calorimetry</i> , <b>2010</b> , 100, 1017-1025	4.1	14
33	Dielectric and impedance studies of DBSA doped polyaniline/PVC composites. <i>Current Applied Physics</i> , <b>2010</b> , 10, 601-606	2.6	54
32	Low temperature synthesis, magnetic and electrical properties of iron-magnesium superparamagnetic nanoalloy. <i>Journal of Alloys and Compounds</i> , <b>2009</b> , 479, 97-101	5.7	5
31	Investigation of Structural and Electrical Properties of Polyaniline/Gold Nanocomposites. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 17560-17565	3.8	79
30	Cation distribution in nanocrystalline ZnFe <sub>2</sub> O <sub>4</sub> investigated using x-ray absorption fine structure spectroscopy. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 405303	1.8	41
29	Structural and electrical properties of polyaniline/silver nanocomposites. <i>Journal Physics D: Applied Physics</i> , <b>2009</b> , 42, 015411	3	77
28	Single source heterobimetallic precursors for the deposition of Cu-Ti mixed metal oxide thin films. <i>Dalton Transactions</i> , <b>2008</b> , 1224-32	4.3	15
27	Melting/collapse of charge orbital ordering and spread of relaxation time with frequency in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> by impedance spectroscopy. <i>Journal of Applied Physics</i> , <b>2008</b> , 104, 103713	2.5	49
26	Superparamagnetic bimetallic iron-palladium nanoalloy: synthesis and characterization. <i>Nanotechnology</i> , <b>2008</b> , 19, 185608	3.4	25
25	Increase of grain boundary resistance with time by impedance spectroscopy in La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> at 77 K. <i>Solid State Communications</i> , <b>2008</b> , 145, 263-266	1.6	53
24	Stabilization of the ferromagnetic metallic state in rare earth-doped La <sub>0.49</sub> X <sub>0.01</sub> Ca <sub>0.50</sub> MnO <sub>3</sub> (X=Nd, Sm, Gd and Yb). <i>Journal of Magnetism and Magnetic Materials</i> , <b>2006</b> , 301, 79-87	2.8	4

23	Bulk and Surface Simulation Studies of La <sub>1-x</sub> Ca <sub>x</sub> MnO <sub>3</sub> . <i>Chemistry of Materials</i> , <b>2006</b> , 18, 1552-1560	9.6	19
22	Atomistic computer simulation studies of La <sub>1-x</sub> Sr <sub>x</sub> VO <sub>3</sub> . <i>Solid State Communications</i> , <b>2006</b> , 137, 110-114	1.6	15
21	Effects of low frequency near metal-insulator transition temperatures on polycrystalline La <sub>0.65</sub> Ca <sub>0.35</sub> Mn <sub>1-y</sub> Fe <sub>y</sub> O <sub>3</sub> (where y=0.05-0.10) ceramic oxides. <i>Solid State Communications</i> , <b>2005</b> , 134, 431-436	1.6	100
20	Revival of metastable behavior in phase separated La <sub>0.5</sub> Ca <sub>0.5</sub> MnO <sub>3</sub> . <i>Solid State Communications</i> , <b>2004</b> , 129, 267-271	1.6	4
19	Re-entrant spin freezing behavior in La <sub>0.85</sub> Ca <sub>0.15</sub> Mn <sub>0.95</sub> Fe <sub>0.05</sub> O <sub>3</sub> manganite. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2004</b> , 271, 79-87	2.8	19
18	Computational study of scheelite (ZrSiO <sub>4</sub> ) by employing static simulation techniques. <i>Solid State Sciences</i> , <b>2003</b> , 5, 541-548	3.4	7
17	Atomistic computer simulation studies of Sr <sub>2</sub> RuO <sub>4</sub> and Ca <sub>2</sub> RuO <sub>4</sub> . <i>Journal of Physics and Chemistry of Solids</i> , <b>2003</b> , 64, 237-245	3.9	6
16	Ac study of 10% Fe-doped La <sub>0.65</sub> Ca <sub>0.35</sub> MnO <sub>3</sub> material by impedance spectroscopy. <i>Chemical Physics Letters</i> , <b>2002</b> , 366, 433-439	2.5	77
15	Irreversible electronic and magnetic transformations in colossal magnetoresistance compositions close to charge ordering. <i>Physical Review B</i> , <b>2002</b> , 65,	3.3	20
14	Thermoelectric power measurements in Fe doped La <sub>0.65</sub> Ca <sub>0.35</sub> MnO <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2002</b> , 14, 10305-10316	1.8	6
13	Atomistic simulation studies of zircon. <i>Chemical Physics</i> , <b>2001</b> , 274, 109-120	2.3	23
12	Synthesis and characterization of YBa <sub>2</sub> Cu <sub>3-x</sub> Sb <sub>x</sub> O <sub>7</sub> -high-temperature superconductors. <i>Superconductor Science and Technology</i> , <b>2000</b> , 13, 1612-1620	3.1	3
11	Effects of iron doping on the transport and magnetic behaviour in La <sub>0.65</sub> Ca <sub>0.35</sub> Mn <sub>1-y</sub> Fe <sub>y</sub> O <sub>3</sub> . <i>Journal of Physics Condensed Matter</i> , <b>2000</b> , 12, 9007-9017	1.8	41
10	Electrical conductivity and extended X-ray absorption fine structure studies of SrFe <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> and BaFe <sub>1-x</sub> Nb <sub>x</sub> O <sub>3</sub> systems. <i>Solid State Ionics</i> , <b>1997</b> , 104, 147-158	3.3	17
9	Computer Simulation Studies of Strontium Titanate. <i>Journal of the American Ceramic Society</i> , <b>1995</b> , 78, 421-428	3.8	210
8	The effect of pressure on the crystal structures of some bismuth based superconductors. <i>Solid State Communications</i> , <b>1994</b> , 92, 535-540	1.6	10
7	X-Ray absorption studies of bi-based superconductors. <i>Journal of Materials Chemistry</i> , <b>1994</b> , 4, 1081		8
6	X-ray absorption near-edge studies of BaBiO <sub>3</sub> , BaBi <sub>1-x</sub> Pb <sub>x</sub> O <sub>3</sub> and Ba <sub>1-x</sub> K <sub>x</sub> BiO <sub>3</sub> systems. <i>Journal of Physics Condensed Matter</i> , <b>1993</b> , 5, 2643-2646	1.8	20

5	X-ray absorption studies of La <sub>2-x</sub> (Ba,Sr) <sub>x</sub> CuO <sub>4</sub> high-T <sub>c</sub> superconductors. <i>Physica C: Superconductivity and Its Applications</i> , <b>1993</b> , 209, 373-380	1.3	3
4	A structural phase transition in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> at high pressures. <i>Journal of Physics Condensed Matter</i> , <b>1990</b> , 2, 3231-3236	1.8	6
3	The pressure dependence of the crystal structures of La <sub>2</sub> CuO <sub>4</sub> and YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> . <i>High Pressure Research</i> , <b>1990</b> , 3, 111-113	1.6	
2	The pressure dependence of the crystal structure of La <sub>2</sub> CuO <sub>4</sub> . <i>Journal of Physics C: Solid State Physics</i> , <b>1988</b> , 21, L917-L920		39
1	Thermodynamic and kinetics study of phosphonium-based cellulose acetate supported ionic liquid membrane: wastewater treatment	133, 20-27	2