

# Javeed Akhtar

## List of Publications by Citations

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101  
papers

1,696  
citations

24  
h-index

36  
g-index

112  
ext. papers

1,899  
ext. citations

4.1  
avg, IF

4.75  
L-index

#	Paper	IF	Citations
101	Transient optical studies of interfacial charge transfer at nanostructured metal oxide/PbS quantum dot/organic hole conductor heterojunctions. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 2743-50	16.4	103
100	A greener route to photoelectrochemically active PbS nanoparticles. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 2336		83
99	Deposition of iron sulfide nanocrystals from single source precursors. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 9737		70
98	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 20275-83	3.6	68
97	Synthesis of ZnO hexagonal single-crystal slices with predominant (0001) and (0001) facets by poly(ethylene glycol)-assisted chemical bath deposition. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 15106-7	16.4	67
96	Controlled synthesis of tuned bandgap nanodimensional alloys of PbS(x)Se(1-x). <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 5602-9	16.4	54
95	Novel single source precursor for synthesis of Sb <sub>2</sub> Se <sub>3</sub> nanorods and deposition of thin films by AACVD: Photo-electrochemical study for water reduction catalysis. <i>Solar Energy</i> , <b>2018</b> , 169, 526-534	6.8	47
94	Controlled synthesis of PbS nanoparticles and the deposition of thin films by Aerosol-Assisted Chemical Vapour Deposition (AACVD). <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 6116		45
93	A single-source precursor route to unusual PbSe nanostructures by a solution-liquid-solid method. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 2485-7	16.4	39
92	Fabrication of planar heterojunction CsPbBr <sub>2</sub> I perovskite solar cells using ZnO as an electron transport layer and improved solar energy conversion efficiency. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 14104-14110	3.6	38
91	Phase-pure fabrication and shape evolution studies of SnS nanosheets. <i>New Journal of Chemistry</i> , <b>2015</b> , 39, 9569-9574	3.6	37
90	Green synthesis of silver nanoparticles from grape and tomato juices and evaluation of biological activities. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 193-199	2	37
89	Low temperature CVD growth of PbS films on plastic substrates. <i>Chemical Communications</i> , <b>2011</b> , 47, 1991-3	5.8	37
88	Bis(selenobenzoato)dibutyltin(IV) as a single source precursor for the synthesis of SnSe nanosheets and their photo-electrochemical study for water splitting. <i>Dalton Transactions</i> , <b>2018</b> , 47, 5465-5473	4.3	36
87	Deposition of morphology-tailored PbS thin films by surfactant-enhanced aerosol assisted chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , <b>2016</b> , 46, 39-45	4.3	36
86	Understanding the Decomposition Pathways of Mixed Sulfur/Selenium Lead Phosphinato Complexes Explaining the Formation of Lead Selenide. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 16904-16909	3.8	36
85	Phase pure deposition of flower-like thin films by aerosol assisted chemical vapor deposition and solvent mediated structural transformation in copper sulfide nanostructures. <i>Thin Solid Films</i> , <b>2017</b> , 638, 338-344	2.2	30

84	Iron selenide films by aerosol assisted chemical vapor deposition from single source organometallic precursor in the presence of surfactants. <i>Thin Solid Films</i> , <b>2014</b> , 567, 58-63	2.2	29
83	Controlled synthesis of all inorganic CsPbBr <sub>2</sub> I perovskite by non-template and aerosol assisted chemical vapour deposition. <i>Materials Letters</i> , <b>2017</b> , 190, 244-247	3.3	25
82	Metal based drugs: design, synthesis and in-vitro antimicrobial screening of Co(II), Ni(II), Cu(II) and Zn(II) complexes with some new carboxamide derived compounds: crystal structures of N-[ethyl(propan-2-yl)carbamoithiyl]thiophene-2-carboxamide and its copper(II) complex. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2016</b> , 31, 590-8	5.6	25
81	Management of citrus waste by switching in the production of nanocellulose. <i>IET Nanobiotechnology</i> , <b>2016</b> , 10, 395-399	2	25
80	Deposition of cobalt and nickel sulfide thin films from thio- and alkylthio-urea complexes as precursors via the aerosol assisted chemical vapour deposition technique. <i>Thin Solid Films</i> , <b>2014</b> , 564, 51-57	2.2	24
79	A Facile Route to Cesium Lead Bromoiodide Perovskite Microcrystals and Their Potential Application as Sensors for Nitrophenol Explosives. <i>European Journal of Inorganic Chemistry</i> , <b>2017</b> , 2017, 3755-3760	2.3	24
78	Nickel(II) complexes of heterodichalcogenido and monochalcogenido imidodiphosphinate ligands: AACVD synthesis of nickel ditelluride. <i>Dalton Transactions</i> , <b>2008</b> , 7004-11	4.3	24
77	A chemodosimetric approach for the selective detection of Pb <sup>2+</sup> ions using a cesium based perovskite. <i>New Journal of Chemistry</i> , <b>2016</b> , 40, 9719-9724	3.6	24
76	Deposition of iron selenide nanocrystals and thin films from tris(N,N-diethyl-N'-naphthoylselenoureato)iron(III). <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 14970		23
75	Synthesis of gold-coated CoFe <sub>2</sub> O <sub>4</sub> and their potential in magnetic hyperthermia. <i>Applied Physics A: Materials Science and Processing</i> , <b>2018</b> , 124, 1	2.6	23
74	Enhanced photocatalytic activity of water stable hydroxyl ammonium lead halide perovskites. <i>Materials Science in Semiconductor Processing</i> , <b>2017</b> , 63, 6-11	4.3	22
73	The syntheses and structures of Zn(II) heterocyclic piperidine and tetrahydroquinoline dithiocarbamates and their use as single source precursors for ZnS nanoparticles. <i>Polyhedron</i> , <b>2014</b> , 67, 129-135	2.7	22
72	Synthesis and characterization of low density calcia stabilized zirconia ceramic for high temperature furnace application. <i>Materials Chemistry and Physics</i> , <b>2006</b> , 100, 324-328	4.4	22
71	Tuning the Phase and Shape of Copper Sulfide Nanostructures Using Mixed Solvent Systems. <i>ChemistrySelect</i> , <b>2016</b> , 1, 5982-5989	1.8	22
70	Laminar Graphene Oxide Membranes Towards Selective Ionic and Molecular Separations: Challenges and Progress. <i>Chemical Record</i> , <b>2020</b> , 20, 344-354	6.6	22
69	Morphology-Tailored Synthesis of PbSe Nanocrystals and Thin Films from Bis[N,N-diisobutyl-N'-(4-nitrobenzoyl)selenoureato]lead(II). <i>European Journal of Inorganic Chemistry</i> , <b>2011</b> , 2011, 2984-2990	2.3	21
68	A novel single source precursor: [bis(N,N-diethyl-N'-naphthoyl-selenoureato)palladium(II)] for palladium selenide thin films and nanoparticles. <i>Chemical Communications</i> , <b>2011</b> , 47, 1899-901	5.8	21
67	Deposition of cadmium sulfide and zinc sulfide thin films by aerosol-assisted chemical vapors from molecular precursors. <i>Turkish Journal of Chemistry</i> , <b>2015</b> , 39, 169-178	1	20

66	Cobalt sulfide nanoparticles: Synthesis, water splitting and supercapacitance studies. <i>Materials Science in Semiconductor Processing</i> , <b>2020</b> , 109, 104925	4.3	20
65	A facile approach for selective and sensitive detection of aqueous contamination in DMF by using perovskite material. <i>Materials Letters</i> , <b>2016</b> , 183, 135-138	3.3	18
64	Potassium-doped mesoporous bioactive glass: Synthesis, characterization and evaluation of biomedical properties. <i>Materials Science and Engineering C</i> , <b>2017</b> , 75, 836-844	8.3	17
63	Phase-Controlled Deposition of Copper Sulfide Thin Films by Using Single-Molecular Precursors. <i>European Journal of Inorganic Chemistry</i> , <b>2014</b> , 2014, 533-538	2.3	16
62	Synthesis of Ag-NPs impregnated cellulose composite material: its possible role in wound healing and photocatalysis. <i>IET Nanobiotechnology</i> , <b>2017</b> , 11, 477-484	2	16
61	Precipitation study of heat-treated Incoloy 825 by scanning electron microscopy. <i>Journal of Materials Science Letters</i> , <b>1992</b> , 11, 1009-1011		16
60	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101[combining macron]0). <i>Faraday Discussions</i> , <b>2014</b> , 171, 275-98 <sup>3.6</sup>	3.6	15
59	Phase controlled synthesis of copper sulfide nanoparticles by colloidal and non-colloidal methods. <i>Materials Chemistry and Physics</i> , <b>2016</b> , 180, 404-412	4.4	14
58	A comparative study of the influence of N,N'-dialkyl vs. N,N'-diaryl-based electron donor ancillary ligands on photocurrent and photovoltage in dye-sensitized solar cells (DSSCs). <i>Physical Chemistry Chemical Physics</i> , <b>2017</b> , 19, 20847-20860	3.6	14
57	Fabrication of Ni <sup>2+</sup> incorporated ZnO photoanode for efficient overall water splitting. <i>Applied Surface Science</i> , <b>2019</b> , 490, 302-308	6.7	13
56	Cesium Lead Halide Perovskite Nanostructures: Tunable Morphology and Halide Composition. <i>Chemical Record</i> , <b>2018</b> , 18, 230-238	6.6	13
55	Synthesis of zinc stannate nanoparticles by sol-gel method for photocatalysis of commercial dyes. <i>Results in Chemistry</i> , <b>2020</b> , 2, 100023	2.1	12
54	N,N-Disubstituted-N'-acylthioureas as modular ligands for deposition of transition metal sulfides. <i>Dalton Transactions</i> , <b>2018</b> , 47, 2719-2726	4.3	12
53	Crystalline CuBbO ceramic composite thin films from Pb <sub>2</sub> (OAc) <sub>4</sub> (EO) <sub>3</sub> Cu <sub>6</sub> (dmae) <sub>4</sub> Cl <sub>4</sub> [(C <sub>7</sub> H <sub>8</sub> ) <sub>2</sub> ].7(H <sub>2</sub> O). <i>Inorganic Chemistry Communication</i> , <b>2011</b> , 14, 288-291 <sup>3.1</sup>	3.1	12
52	Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. <i>Surface Science</i> , <b>2015</b> , 641, 320-325	1.8	11
51	Electronic Tuning of Zinc Oxide by Direct Fabrication of Chromium (Cr) incorporated photoanodes for Visible-light driven Water Splitting Applications. <i>Scientific Reports</i> , <b>2020</b> , 10, 9707	4.9	10
50	Superior visible-light assisted water splitting performance by Fe incorporated ZnO photoanodes. <i>Materials Research Bulletin</i> , <b>2020</b> , 122, 110627	5.1	10
49	Thiocyanate-free ruthenium(II) sensitizers with a bi-imidazole ligand in dye-sensitized solar cells (DSSCs). <i>New Journal of Chemistry</i> , <b>2017</b> , 41, 6272-6277	3.6	9

48	Investigation of PbS nanocrystals sensitized extremely thin absorber (ETA) solar cell. <i>Materials Science in Semiconductor Processing</i> , <b>2015</b> , 36, 20-26	4.3	9
47	Adsorption of Cd(II) by Sol-Gel Silica Doped with N-(dipropylcarbamothioyl)thiophene-2-carboxamide. <i>Journal of Dispersion Science and Technology</i> , <b>2013</b> , 34, 153-160	1.5	9
46	It is an All-Rounder! On the Development of Metal Halide Perovskite-Based Fluorescent Sensors and Radiation Detectors. <i>Advanced Optical Materials</i> , <b>2021</b> , 9, 2101276	8.1	9
45	Selective Synthesis of Bismuth or Bismuth Selenide Nanosheets from a Metal Organic Precursor: Investigation of their Catalytic Performance for Water Splitting. <i>Inorganic Chemistry</i> , <b>2021</b> , 60, 1449-1467	5.1	9
44	Broadband emission in a new lead free all-inorganic 3D CsZnCl <sub>2</sub> I perovskite. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 17181-17184	3.6	9
43	Chemically vaporized cobalt incorporated wurtzite as photoanodes for efficient photoelectrochemical water splitting. <i>Materials Science in Semiconductor Processing</i> , <b>2019</b> , 101, 223-229	4.3	8
42	Influence of brominated-TPA-stilbazole based ancillary ligand on the photocurrent and photovoltage in dye-sensitized solar cells. <i>Dyes and Pigments</i> , <b>2018</b> , 150, 347-353	4.6	8
41	Investigations into structure-property relationships of novel Ru(II) dyes with N,N'-Diethyl group in ancillary ligand for dye-sensitized solar cells. <i>Dyes and Pigments</i> , <b>2019</b> , 171, 107754	4.6	8
40	Low-temperature solution-phase route to sub-10 nm titanium oxide nanocrystals having super-enhanced photoreactivity. <i>New Journal of Chemistry</i> , <b>2018</b> , 42, 10947-10952	3.6	8
39	Metal selenobenzoate complexes: Novel single source precursors for the synthesis of metal selenide semiconductor nanomaterials. <i>Materials Today: Proceedings</i> , <b>2019</b> , 10, 66-74	1.4	7
38	The oriented self-assembly of small PbSe nanocrystals into extended structures "nanoworms" <i>Materials Letters</i> , <b>2012</b> , 77, 78-81	3.3	7
37	Synthesis of Hybrid to Inorganic Quasi 2D-Layered Perovskite Nanoparticles. <i>ChemistrySelect</i> , <b>2017</b> , 2, 5595-5599	1.8	7
36	Effect of fluoro-substituted acceptor-based ancillary ligands on the photocurrent and photovoltage in dye-sensitized solar cells. <i>Solar Energy</i> , <b>2020</b> , 199, 74-81	6.8	6
35	Facile synthesis of phosphine free ultra-small PbSe nanocrystals and their light harvesting studies in ETA solar cells. <i>Dalton Transactions</i> , <b>2014</b> , 43, 16424-30	4.3	6
34	2-Aminoethanol-mediated wet chemical synthesis of ZnO nanostructures. <i>Applied Nanoscience (Switzerland)</i> , <b>2015</b> , 5, 425-433	3.3	6
33	Metal-based carboxamide-derived compounds endowed with antibacterial and antifungal activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , <b>2014</b> , 29, 517-26	5.6	6
32	Microstructure and hardness of electron beam molten surface of DSX40M alloy. <i>Journal of Alloys and Compounds</i> , <b>2008</b> , 461, 102-105	5.7	6
31	A Facile Synthesis of Organotin(IV) Carboxylates: Application as Single Source Precursor for Deposition of Tin Oxide Thin Films and Evaluation of Biological Activities. <i>ChemistrySelect</i> , <b>2018</b> , 3, 10325-10336	1.8	6

30	Nanomembranes for water treatment <b>2020</b> , 207-240		5
29	catena-Poly[[tetra-kis((2)-acetato-D:O')dicopper(II)(Cu-Cu)]-(2)-acetato-D:O'-[bis-[(2)-3-(dimethyl-amino)propan-1-olato		4
28	A facile approach to synthesis graphene oxide/bismuth oxide nanocomposites and their superior sunlight driven photocatalytic activity. <i>Optik</i> , <b>2019</b> , 197, 163035	2.5	3
27	4-(3-Methoxy-phen-yl)-3-[2-(4-methoxy-phen-yl)eth-yl]-1H-1,2,4-triazol-5(4H)-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o387		3
26	Organometal Lead Halide Perovskite <b>2018</b> , 25-42		3
25	3D hybrid perovskite solid solutions: a facile approach for deposition of nanoparticles and thin films via B-site substitution. <i>New Journal of Chemistry</i> , <b>2019</b> , 43, 5448-5454	3.6	2
24	Synthesis, Characterization and Investigation of Side Chain Length and/or Substituents Effect on the Liquid Crystal Properties of New Mesogens. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , <b>2005</b> , 42, 1627-1638	2.2	2
23	Identification of surface carbides and spinels in welded austenitic stainless steels. <i>Journal of Materials Science</i> , <b>1994</b> , 29, 1169-1173	4.3	2
22	Low-temperature synthesis of hierarchical structures of copper oxide and their superior biological activity. <i>IET Nanobiotechnology</i> , <b>2018</b> , 12, 968-972	2	2
21	Fabrication and functionalization of nanochannels for sensing applications <b>2020</b> , 157-169		1
20	Effect of thermal treatment on yttria doped zirconia coated DIN 18306. <i>Transactions of the Institute of Metal Finishing</i> , <b>2008</b> , 86, 162-166	1.3	1
19	Development of Yttria-doped Zirconia Thin Films on Mild Steel by a Sol-Gel Process. <i>Transactions of the Institute of Metal Finishing</i> , <b>2001</b> , 79, 209-212	1.3	1
18	3-(3-Fluoro-benz-yl)isochroman-1-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o418		1
17	Green emitter and thermally stable layered tetraethyl ammonium lead bromoiodide perovskite. <i>Optik</i> , <b>2020</b> , 207, 163828	2.5	1
16	Fabrication of MnZnO photoanodes for photoelectrochemical water splitting applications. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2021</b> , 32, 20946-20954	2.1	1
15	5-(2-Methoxy-benz-yl)-4-(2-methoxy-phen-yl)-4H-1,2,4-triazol-3-ol. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o329		
14	4-(4-Methoxy-phen-yl)-3-[2-(2-methoxy-phen-yl)eth-yl]-1H-1,2,4-triazol-5(4H)-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2009</b> , 65, o429		
13	3-(4-Methoxyphenyl)propanohydrazide. <i>Acta Crystallographica Section E: Structure Reports Online</i> , <b>2007</b> , 63, o3061-o3061		

- 12 3-(3,4,5-Trimethoxyphenyl)-1H-isochromen-1-one. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o3447-o3447
- 11 1-[2-(2,4-Dichlorophenoxy)acetyl]-4-cyclohexylthiosemicarbazide. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o3503-o3503
- 10 3-(3,5-Dimethoxyphenyl)-4-(2-methoxyphenyl)-1H-1,2,4-triazole-5(4H)-thione. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o3629-o3629
- 9 Post-irradiation examinations of a Zr<sub>2</sub>.5Nb pressure tube of the Karachi nuclear power plant (KANUPP). *Journal of Nuclear Materials*, **1996**, 232, 248-252 3.3
- 8 Molecular engineering of ruthenium-based photosensitizers with superior photovoltaic performance in DSSCs: novel N-alkyl 2-phenylindole-based ancillary ligands. *New Journal of Chemistry*, **2022**, 46, 2739-2746 3.6
- 7 4-(2-Methoxy-phenyl)-3-(3,4,5-tri-methoxy-phen-ethyl)-2H-1,2,4-triazole-5(4H)-thione. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 64, o284
- 6 Synthesis Approaches of Inorganic Materials **2019**, 155-186
- 5 Inorganic Materials-Based Next-Generation Supercapacitors **2019**, 133-153
- 4 Flexible single-source precursors for solar light-harvesting applications **2022**, 279-304
- 3 Nanomaterials for Textile Waste Treatment. *Environmental Chemistry for A Sustainable World*, **2021**, 663-684
- 2 Superior photoelectrochemical performance by antimony-doped ZnO thin films by AACVD approach. *Bulletin of Materials Science*, **2022**, 45, 1 1.7
- 1 Synthesis of Cu-doped ZnO for bulk heterojunction hybrid solar cells. *Chemical Papers*, **2022**, 72, 1-10 1.9