

Javeed Akhtar

List of Publications by Year in descending order

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104
papers

2,153
citations

201575

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112
all docs

112
docs citations

112
times ranked

2890
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2010, 132, 2743-2750.	6.6	110
2	A greener route to photoelectrochemically active PbS nanoparticles. <i>Journal of Materials Chemistry</i> , 2010, 20, 2336.	6.7	93
3	Deposition of iron sulfide nanocrystals from single source precursors. <i>Journal of Materials Chemistry</i> , 2011, 21, 9737.	6.7	82
4	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20275.	1.3	76
5	Synthesis of ZnO Hexagonal Single-Crystal Slices with Predominant (0001) and (0001̄) Facets by Poly(ethylene glycol)-Assisted Chemical Bath Deposition. <i>Journal of the American Chemical Society</i> , 2009, 131, 15106-15107.	6.6	69
6	Novel single source precursor for synthesis of Sb ₂ Se ₃ nanorods and deposition of thin films by AACVD: Photo-electrochemical study for water reduction catalysis. <i>Solar Energy</i> , 2018, 169, 526-534.	2.9	62
7	Green synthesis of silver nanoparticles from grape and tomato juices and evaluation of biological activities. <i>IET Nanobiotechnology</i> , 2017, 11, 193-199.	1.9	61
8	Controlled Synthesis of Tuned Bandgap Nanodimensional Alloys of PbS _x Se _{1-x} . <i>Journal of the American Chemical Society</i> , 2011, 133, 5602-5609.	6.6	59
9	Laminar Graphene Oxide Membranes Towards Selective Ionic and Molecular Separations: Challenges and Progress. <i>Chemical Record</i> , 2020, 20, 344-354.	2.9	57
10	Fabrication of planar heterojunction CsPbBr ₂ perovskite solar cells using ZnO as an electron transport layer and improved solar energy conversion efficiency. <i>New Journal of Chemistry</i> , 2018, 42, 14104-14110.	1.4	55
11	Controlled synthesis of PbS nanoparticles and the deposition of thin films by Aerosol-Assisted Chemical Vapour Deposition (AACVD). <i>Journal of Materials Chemistry</i> , 2010, 20, 6116.	6.7	50
12	Bis(selenobenzoato)dibutyltin as a single source precursor for the synthesis of SnSe nanosheets and their photo-electrochemical study for water splitting. <i>Dalton Transactions</i> , 2018, 47, 5465-5473.	1.6	44
13	Phase-pure fabrication and shape evolution studies of SnS nanosheets. <i>New Journal of Chemistry</i> , 2015, 39, 9569-9574.	1.4	43
14	A Single-Source Precursor Route to Unusual PbSe Nanostructures by a Solution "Liquid" Solid Method. <i>Journal of the American Chemical Society</i> , 2012, 134, 2485-2487.	6.6	42
15	Low temperature CVD growth of PbS films on plastic substrates. <i>Chemical Communications</i> , 2011, 47, 1991.	2.2	41
16	Deposition of morphology-tailored PbS thin films by surfactant-enhanced aerosol assisted chemical vapor deposition. <i>Materials Science in Semiconductor Processing</i> , 2016, 46, 39-45.	1.9	40
17	Understanding the Decomposition Pathways of Mixed Sulfur/Selenium Lead Phosphinato Complexes Explaining the Formation of Lead Selenide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 16904-16909.	1.5	37
18	A chemodosimetric approach for the selective detection of Pb ²⁺ ions using a cesium based perovskite. <i>New Journal of Chemistry</i> , 2016, 40, 9719-9724.	1.4	37

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19	Synthesis of gold-coated CoFe ₂ O ₄ and their potential in magnetic hyperthermia. <i>Applied Physics A: Materials Science and Processing</i> , 2018, 124, 1.	1.1	37
20	Management of citrus waste by switching in the production of nanocellulose. <i>IET Nanobiotechnology</i> , 2016, 10, 395-399.	1.9	35
21	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> , 2017, 638, 338-344.	0.8	33
22	Metal based drugs: design, synthesis and <i>in-vitro</i> 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)carbamothioyl]thiophene-2-carboxamide and its copper(II) complex. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 590-598.	2.5	32
23	A Facile Route to Cesium Lead Bromiodide Perovskite Microcrystals and Their Potential Application as Sensors for Nitrophenol Explosives. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 3755-3760.	1.0	32
24	Iron selenide films by aerosol assisted chemical vapor deposition from single source organometallic precursor in the presence of surfactants. <i>Thin Solid Films</i> , 2014, 567, 58-63.	0.8	30
25	Controlled synthesis of all inorganic CsPbBr ₂ I perovskite by non-template and aerosol assisted chemical vapour deposition. <i>Materials Letters</i> , 2017, 190, 244-247.	1.3	29
26	Cobalt sulfide nanoparticles: Synthesis, water splitting and supercapacitance studies. <i>Materials Science in Semiconductor Processing</i> , 2020, 109, 104925.	1.9	29
27	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> , 2014, 67, 129-135.	1.0	28
28	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> , 2021, 60, 1449-1461.	1.9	28
29	Synthesis and characterization of low density calcia stabilized zirconia ceramic for high temperature furnace application. <i>Materials Chemistry and Physics</i> , 2006, 100, 324-328.	2.0	27
30	Nickel(ii) complexes of heterodichalcogenido and monochalcogenido imidodiphosphinate ligands: AACVD synthesis of nickel ditelluride. <i>Dalton Transactions</i> , 2008, , 7004.	1.6	27
31	Deposition of iron selenide nanocrystals and thin films from tris(N,N-diethyl-N ² -naphthoylselenoureato)iron(iii). <i>Journal of Materials Chemistry</i> , 2012, 22, 14970.	6.7	27
32	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> , 2014, 564, 51-57.	0.8	27
33	Potassium-doped mesoporous bioactive glass: Synthesis, characterization and evaluation of biomedical properties. <i>Materials Science and Engineering C</i> , 2017, 75, 836-844.	3.8	27
34	Enhanced photocatalytic activity of water stable hydroxyl ammonium lead halide perovskites. <i>Materials Science in Semiconductor Processing</i> , 2017, 63, 6-11.	1.9	26
35	A facile approach for selective and sensitive detection of aqueous contamination in DMF by using perovskite material. <i>Materials Letters</i> , 2016, 183, 135-138.	1.3	25
36	Deposition of cadmium sulfide and zinc sulfide thin films by aerosol-assisted chemical vapors from molecular precursors. <i>Turkish Journal of Chemistry</i> , 2015, 39, 169-178.	0.5	24

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37	A novel single source precursor: [bis(N,N-diethyl-Nâ€²-naphthoyl-selenoureato)palladium(<i>ii</i>)] for palladium selenide thin films and nanoparticles. <i>Chemical Communications</i> , 2011, 47, 1899-1901.	2.2	23
38	Tuning the Phase and Shape of Copper Sulfide Nanostructures Using Mixed Solvent Systems. <i>ChemistrySelect</i> , 2016, 1, 5982-5989.	0.7	23
39	Morphologyâ€Tailored Synthesis of PbSe Nanocrystals and Thin Films from Bis[<i>N,N</i> -diisobutylâ€Nâ€²-(4-nitrobenzoyl)selenoureato]lead(II). <i>European Journal of Inorganic Chemistry</i> , 2011, 2011, 2984-2990.	1.0	22
40	A comparative study of the influence of N,Nâ€²-dialkyl vs. N,Nâ€²-diaryl-based electron donor ancillary ligands on photocurrent and photovoltage in dye-sensitized solar cells (DSSCs). <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 20847-20860.	1.3	22
41	Synthesis of Agâ€NPs impregnated cellulose composite material: its possible role in wound healing and photocatalysis. <i>IET Nanobiotechnology</i> , 2017, 11, 477-484.	1.9	21
42	Dynamics in next-generation solar cells: time-resolved surface photovoltage measurements of quantum dots chemically linked to ZnO (101,0). <i>Faraday Discussions</i> , 2014, 171, 275-298.	1.6	20
43	Synthesis of zinc stannate nanoparticles by sol-gel method for photocatalysis of commercial dyes. <i>Results in Chemistry</i> , 2020, 2, 100023.	0.9	20
44	It is an Allâ€Rounder! On the Development of Metal Halide Perovskiteâ€Based Fluorescent Sensors and Radiation Detectors. <i>Advanced Optical Materials</i> , 2021, 9, 2101276.	3.6	18
45	Precipitation study of heat-treated Incoloy 825 by scanning electron microscopy. <i>Journal of Materials Science Letters</i> , 1992, 11, 1009-1011.	0.5	17
46	Phaseâ€Controlled Deposition of Copper Sulfide Thin Films by Using Singleâ€Molecular Precursors. <i>European Journal of Inorganic Chemistry</i> , 2014, 2014, 533-538.	1.0	17
47	Chemically-specific time-resolved surface photovoltage spectroscopy: Carrier dynamics at the interface of quantum dots attached to a metal oxide. <i>Surface Science</i> , 2015, 641, 320-325.	0.8	17
48	Fabrication of Ni ²⁺ incorporated ZnO photoanode for efficient overall water splitting. <i>Applied Surface Science</i> , 2019, 490, 302-308.	3.1	17
49	Nanomembranes for water treatment. , 2020, , 207-240.		17
50	Thiocyanate-free ruthenium(<i>ii</i>) sensitizers with a bi-imidazole ligand in dye-sensitized solar cells (DSSCs). <i>New Journal of Chemistry</i> , 2017, 41, 6272-6277.	1.4	16
51	<i>N,N</i> -Disubstituted- <i>N</i> -â€²-acylthioureas as modular ligands for deposition of transition metal sulfides. <i>Dalton Transactions</i> , 2018, 47, 2719-2726.	1.6	16
52	Low-temperature solution-phase route to sub-10 nm titanium oxide nanocrystals having super-enhanced photoreactivity. <i>New Journal of Chemistry</i> , 2018, 42, 10947-10952.	1.4	16
53	Cesium Lead Halide Perovskite Nanostructures: Tunable Morphology and Halide Composition. <i>Chemical Record</i> , 2018, 18, 230-238.	2.9	15
54	Broadband emission in a new lead free all-inorganic 3D CsZnCl ₂ I perovskite. <i>New Journal of Chemistry</i> , 2018, 42, 17181-17184.	1.4	15

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55	Crystalline Cu-PbO ceramic composite thin films from $Pb_2(OAc)_4 \cdot (1/4-O)_3Cu_6(dmae)_4Cl_4 \cdot (C_7H_8) \cdot 1.7(H_2O)$. Inorganic Chemistry Communication, 2011, 14, 288-291.	1.8	14
56	Phase controlled synthesis of copper sulfide nanoparticles by colloidal and non-colloidal methods. Materials Chemistry and Physics, 2016, 180, 404-412.	2.0	14
57	Superior visible-light assisted water splitting performance by Fe incorporated ZnO photoanodes. Materials Research Bulletin, 2020, 122, 110627.	2.7	14
58	Chemically vaporized cobalt incorporated wurtzite as photoanodes for efficient photoelectrochemical water splitting. Materials Science in Semiconductor Processing, 2019, 101, 223-229.	1.9	12
59	Electronic Tuning of Zinc Oxide by Direct Fabrication of Chromium (Cr) incorporated photoanodes for Visible-light driven Water Splitting Applications. Scientific Reports, 2020, 10, 9707.	1.6	12
60	Investigation of PbS nanocrystals sensitized extremely thin absorber (ETA) solar cell. Materials Science in Semiconductor Processing, 2015, 36, 20-26.	1.9	11
61	Metal selenobenzoate complexes: Novel single source precursors for the synthesis of metal selenide semiconductor nanomaterials. Materials Today: Proceedings, 2019, 10, 66-74.	0.9	11
62	Fundamentals of Hysteresis in Perovskite Solar Cells: From Structure-Property Relationship to Neoteric Breakthroughs. Chemical Record, 2022, 22, .	2.9	11
63	A facile approach to synthesis graphene oxide/bismuth oxide nanocomposites and their superior sunlight driven photocatalytic activity. Optik, 2019, 197, 163035.	1.4	10
64	Effect of fluoro-substituted acceptor-based ancillary ligands on the photocurrent and photovoltage in dye-sensitized solar cells. Solar Energy, 2020, 199, 74-81.	2.9	10
65	Adsorption of Cd(II) by Sol-Gel Silica Doped with <i>N</i> -(dipropylcarbamothioyl)thiophene-2-carboxamide. Journal of Dispersion Science and Technology, 2013, 34, 153-160.	1.3	9
66	Influence of brominated-TPA-stilbazole based ancillary ligand on the photocurrent and photovoltage in dye-sensitized solar cells. Dyes and Pigments, 2018, 150, 347-353.	2.0	9
67	Metal-based carboxamide-derived compounds endowed with antibacterial and antifungal activity. Journal of Enzyme Inhibition and Medicinal Chemistry, 2014, 29, 517-526.	2.5	8
68	Synthesis of Hybrid to Inorganic Quasi 2D-Layered Perovskite Nanoparticles. ChemistrySelect, 2017, 2, 5595-5599.	0.7	8
69	Investigations into structure-property relationships of novel Ru(II) dyes with <i>N,N</i> -Diethyl group in ancillary ligand for dye-sensitized solar cells. Dyes and Pigments, 2019, 171, 107754.	2.0	8
70	Microstructure and hardness of electron beam molten surface of DSX40M alloy. Journal of Alloys and Compounds, 2008, 461, 102-105.	2.8	7
71	The oriented self-assembly of small PbSe nanocrystals into extended structures "nanoworms". Materials Letters, 2012, 77, 78-81.	1.3	7
72	2-Aminoethanol-mediated wet chemical synthesis of ZnO nanostructures. Applied Nanoscience (Switzerland), 2015, 5, 425-433.	1.6	7

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73	Organometal Lead Halide Perovskite. , 2018, , 25-42.		7
74	Facile synthesis of phosphine free ultra-small PbSe nanocrystals and their light harvesting studies in ETA solar cells. Dalton Transactions, 2014, 43, 16424-16430.	1.6	6
75	A Facile Synthesis of Organotin(IV) Carboxylates: Application as Single Source Precursor for Deposition of Tin Oxide Thin Films and Evaluation of Biological Activities. ChemistrySelect, 2018, 3, 10325-10332.	0.7	6
76	3D hybrid perovskite solid solutions: a facile approach for deposition of nanoparticles and thin films via B-site substitution. New Journal of Chemistry, 2019, 43, 5448-5454.	1.4	5
77	$\text{[Pt}(\text{O})_2\text{]}_2\text{[bis}(\text{O})_2\text{-3-(dimethylamino)propan-1-olato]}_2$	0.2	4
78	4-(3-Methoxyphenyl)-3-[2-(4-methoxyphenyl)ethyl]-1H-1,2,4-triazol-5(4H)-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o387-o387.	0.2	3
79	Identification of surface carbides and spinels in welded austenitic stainless steels. Journal of Materials Science, 1994, 29, 1169-1173.	1.7	2
80	Synthesis, Characterization and Investigation of Side Chain Length and/or Substituents Effect on the Liquid Crystal Properties of New Mesogens. Journal of Macromolecular Science - Pure and Applied Chemistry, 2005, 42, 1627-1638.	1.2	2
81	Low-temperature synthesis of hierarchical structures of copper oxide and their superior biological activity. IET Nanobiotechnology, 2018, 12, 968-972.	1.9	2
82	Green emitter and thermally stable layered tetraethyl ammonium lead bromiodide perovskite. Optik, 2020, 207, 163828.	1.4	2
83	Fabrication and functionalization of nanochannels for sensing applications. , 2020, , 157-169.		2
84	Nanomaterials for Textile Waste Treatment. Environmental Chemistry for A Sustainable World, 2021, , 663-684.	0.3	2
85	Fabrication of Mn-ZnO photoanodes for photoelectrochemical water splitting applications. Journal of Materials Science: Materials in Electronics, 2021, 32, 20946-20954.	1.1	2
86	Synthesis Approaches of Inorganic Materials. , 2019, , 155-186.		2
87	Superior photoelectrochemical performance by antimony-doped ZnO thin films by AACVD approach. Bulletin of Materials Science, 2022, 45, 1.	0.8	2
88	Synthesis of nanostructures of binary/ternary phase iron sulfide/selenide by hot injection route and their application as photocatalysts for degradation of red S3B dye. Chemical Papers, 2022, 76, 6371-6383.	1.0	2
89	Development of Yttria-doped Zirconia Thin Films on Mild Steel by a Sol-Gel Process. Transactions of the Institute of Metal Finishing, 2001, 79, 209-212.	0.6	1
90	Effect of thermal treatment on yttria doped zirconia coated DIN 1.4571. Transactions of the Institute of Metal Finishing, 2008, 86, 162-166.	0.6	1

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91	3-(3-Fluorobenzyl)isochroman-1-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o418-o418.	0.2	1
92	Flexible single-source precursors for solar light-harvesting applications. , 2022, , 279-304.		1
93	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.	1.4	1
94	Synthesis of Cu-doped ZnO for bulk heterojunction hybrid solar cells. Chemical Papers, 2022, 76, 4743-4748.	1.0	1
95	Post-irradiation examinations of a Zr2.5Nb pressure tube of the Karachi nuclear power plant (KANUPP). Journal of Nuclear Materials, 1996, 232, 248-252.	1.3	0
96	3-(4-Methoxyphenyl)propanohydrazide. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3061-o3061.	0.2	0
97	3-(3,4,5-Trimethoxyphenyl)-1H-isochromen-1-one. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3447-o3447.	0.2	0
98	1-[2-(2,4-Dichlorophenoxy)acetyl]-4-cyclohexylthiosemicarbazide. Acta Crystallographica Section E: Structure Reports Online, 2007, 63, o3503-o3503.	0.2	0
99	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.	0.2	0
100	5-(2-Methoxybenzyl)-4-(2-methoxyphenyl)-4H-1,2,4-triazol-3-ol. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o329-o329.	0.2	0
101	4-(4-Methoxyphenyl)-3-[2-(2-methoxyphenyl)ethyl]-1H-1,2,4-triazol-5(4H)-one. Acta Crystallographica Section E: Structure Reports Online, 2009, 65, o429-o429.	0.2	0
102	4-(2-Methoxyphenyl)-3-(3,4,5-trimethoxyphenethyl)-2H-1,2,4-triazole-5(4H)-thione. Acta Crystallographica Section E: Structure Reports Online, 2008, 64, o284-o284.	0.2	0
103	Deposition of Phosphorus Free PbSe Thin film by Aerosol Assisted Chemical Vapour Deposition. , 2008, , .		0
104	Fundamentals of metal halide perovskite nanomaterials: synthetic protocols, properties and their smart applications. SPR Nanoscience, 2020, , 32-59.	0.3	0