

Javeed Akhtar

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/449026/javeed-akhtar-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

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	Molecular engineering of ruthenium-based photosensitizers with superior photovoltaic performance in DSSCs: novel N-alkyl 2-phenylindole-based ancillary ligands. <i>New Journal of Chemistry</i> , 2022 , 46, 2739-2746	3.6	
100	Flexible single-source precursors for solar light-harvesting applications 2022 , 279-304		
99	Superior photoelectrochemical performance by antimony-doped ZnO thin films by AACVD approach. <i>Bulletin of Materials Science</i> , 2022 , 45, 1	1.7	
98	It is an All-Rounder! On the Development of Metal Halide Perovskite-Based Fluorescent Sensors and Radiation Detectors. <i>Advanced Optical Materials</i> , 2021 , 9, 2101276	8.1	9
97	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	5.1	9
96	Nanomaterials for Textile Waste Treatment. <i>Environmental Chemistry for A Sustainable World</i> , 2021 , 663-684		
95	Fabrication of MnZnO photoanodes for photoelectrochemical water splitting applications. <i>Journal of Materials Science: Materials in Electronics</i> , 2021 , 32, 20946-20954	2.1	1
94	Nanomembranes for water treatment 2020 , 207-240		5
93	Electronic Tuning of Zinc Oxide by Direct Fabrication of Chromium (Cr) incorporated photoanodes for Visible-light driven Water Splitting Applications. <i>Scientific Reports</i> , 2020 , 10, 9707	4.9	10
92	Effect of fluoro-substituted acceptor-based ancillary ligands on the photocurrent and photovoltage in dye-sensitized solar cells. <i>Solar Energy</i> , 2020 , 199, 74-81	6.8	6
91	Fabrication and functionalization of nanochannels for sensing applications 2020 , 157-169		1
90	Cobalt sulfide nanoparticles: Synthesis, water splitting and supercapacitance studies. <i>Materials Science in Semiconductor Processing</i> , 2020 , 109, 104925	4.3	20
89	Synthesis of zinc stannate nanoparticles by sol-gel method for photocatalysis of commercial dyes. <i>Results in Chemistry</i> , 2020 , 2, 100023	2.1	12
88	Green emitter and thermally stable layered tetraethyl ammonium lead bromoiodide perovskite. <i>Optik</i> , 2020 , 207, 163828	2.5	1
87	Superior visible-light assisted water splitting performance by Fe incorporated ZnO photoanodes. <i>Materials Research Bulletin</i> , 2020 , 122, 110627	5.1	10
86	Laminar Graphene Oxide Membranes Towards Selective Ionic and Molecular Separations: Challenges and Progress. <i>Chemical Record</i> , 2020 , 20, 344-354	6.6	22
85	Metal selenobenzoate complexes: Novel single source precursors for the synthesis of metal selenide semiconductor nanomaterials. <i>Materials Today: Proceedings</i> , 2019 , 10, 66-74	1.4	7

84	Fabrication of Ni ²⁺ incorporated ZnO photoanode for efficient overall water splitting. <i>Applied Surface Science</i> , 2019 , 490, 302-308	6.7	13
83	Chemically vaporized cobalt incorporated wurtzite as photoanodes for efficient photoelectrochemical water splitting. <i>Materials Science in Semiconductor Processing</i> , 2019 , 101, 223-229	4.3	8
82	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> , 2019 , 43, 5448-5454	3.6	2
81	A facile approach to synthesis graphene oxide/bismuth oxide nanocomposites and their superior sunlight driven photocatalytic activity. <i>Optik</i> , 2019 , 197, 163035	2.5	3
80	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> , 2019 , 171, 107754	4.6	8
79	Synthesis Approaches of Inorganic Materials 2019 , 155-186		
78	Inorganic Materials-Based Next-Generation Supercapacitors 2019 , 133-153		
77	N,N-Disubstituted-N'-acylthioureas as modular ligands for deposition of transition metal sulfides. <i>Dalton Transactions</i> , 2018 , 47, 2719-2726	4.3	12
76	Influence of brominated-TPA-stilbazole based ancillary ligand on the photocurrent and photovoltage in dye-sensitized solar cells. <i>Dyes and Pigments</i> , 2018 , 150, 347-353	4.6	8
75	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> , 2018 , 47, 5465-5473	4.3	36
74	Cesium Lead Halide Perovskite Nanostructures: Tunable Morphology and Halide Composition. <i>Chemical Record</i> , 2018 , 18, 230-238	6.6	13
73	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	2.6	23
72	Low-temperature synthesis of hierarchical structures of copper oxide and their superior biological activity. <i>IET Nanobiotechnology</i> , 2018 , 12, 968-972	2	2
71	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> , 2018 , 3, 10325-10332	1.8	6
70	Broadband emission in a new lead free all-inorganic 3D CsZnCl ₂ I perovskite. <i>New Journal of Chemistry</i> , 2018 , 42, 17181-17184	3.6	9
69	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	3.6	8
68	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	6.8	47
67	Fabrication of planar heterojunction CsPbBr ₂ I 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	3.6	38

66	Organometal Lead Halide Perovskite 2018 , 25-42		3
65	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	3.3	25
64	Enhanced photocatalytic activity of water stable hydroxyl ammonium lead halide perovskites. <i>Materials Science in Semiconductor Processing</i> , 2017 , 63, 6-11	4.3	22
63	Potassium-doped mesoporous bioactive glass: Synthesis, characterization and evaluation of biomedical properties. <i>Materials Science and Engineering C</i> , 2017 , 75, 836-844	8.3	17
62	Thiocyanate-free ruthenium(II) sensitizers with a bi-imidazole ligand in dye-sensitized solar cells (DSSCs). <i>New Journal of Chemistry</i> , 2017 , 41, 6272-6277	3.6	9
61	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> , 2017 , 2017, 3755-3760	2.3	24
60	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> , 2017 , 19, 20847-20860	3.6	14
59	Synthesis of Hybrid to Inorganic Quasi 2D-Layered Perovskite Nanoparticles. <i>ChemistrySelect</i> , 2017 , 2, 5595-5599	1.8	7
58	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	2.2	30
57	Green synthesis of silver nanoparticles from grape and tomato juices and evaluation of biological activities. <i>IET Nanobiotechnology</i> , 2017 , 11, 193-199	2	37
56	Synthesis of Ag-NPs impregnated cellulose composite material: its possible role in wound healing and photocatalysis. <i>IET Nanobiotechnology</i> , 2017 , 11, 477-484	2	16
55	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	3.3	18
54	Phase controlled synthesis of copper sulfide nanoparticles by colloidal and non-colloidal methods. <i>Materials Chemistry and Physics</i> , 2016 , 180, 404-412	4.4	14
53	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)carbamoithioly]thiophene-2-carboxamide and its copper(II) complex. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016 , 31, 590-6	5.6	25
52	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	4.3	36
51	Tuning the Phase and Shape of Copper Sulfide Nanostructures Using Mixed Solvent Systems. <i>ChemistrySelect</i> , 2016 , 1, 5982-5989	1.8	22
50	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	3.6	24
49	Management of citrus waste by switching in the production of nanocellulose. <i>IET Nanobiotechnology</i> , 2016 , 10, 395-399	2	25

48	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	1	20
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	1.8	11
46	Investigation of PbS nanocrystals sensitized extremely thin absorber (ETA) solar cell. <i>Materials Science in Semiconductor Processing</i> , 2015 , 36, 20-26	4.3	9
45	Phase-pure fabrication and shape evolution studies of SnS nanosheets. <i>New Journal of Chemistry</i> , 2015 , 39, 9569-9574	3.6	37
44	2-Aminoethanol-mediated wet chemical synthesis of ZnO nanostructures. <i>Applied Nanoscience (Switzerland)</i> , 2015 , 5, 425-433	3.3	6
43	Phase-Controlled Deposition of Copper Sulfide Thin Films by Using Single-Molecular Precursors. <i>European Journal of Inorganic Chemistry</i> , 2014 , 2014, 533-538	2.3	16
42	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	2.2	24
41	Facile synthesis of phosphine free ultra-small PbSe nanocrystals and their light harvesting studies in ETA solar cells. <i>Dalton Transactions</i> , 2014 , 43, 16424-30	4.3	6
40	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	2.2	29
39	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	2.7	22
38	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> , 2014 , 171, 275-98	3.6	15
37	Metal-based carboxamide-derived compounds endowed with antibacterial and antifungal activity. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2014 , 29, 517-26	5.6	6
36	Adsorption of Cd(II) by Sol-Gel Silica Doped with N-(dipropylcarbamothioyl)thiophene-2-carboxamide. <i>Journal of Dispersion Science and Technology</i> , 2013 , 34, 153-160	1.5	9
35	The oriented self-assembly of small PbSe nanocrystals into extended structures [nanoworms]. <i>Materials Letters</i> , 2012 , 77, 78-81	3.3	7
34	Deposition of iron selenide nanocrystals and thin films from tris(N,N-diethyl-N?-naphthoylselenoureato)iron(III). <i>Journal of Materials Chemistry</i> , 2012 , 22, 14970		23
33	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, 2485-7	16.4	39
32	Deposition of iron sulfide nanocrystals from single source precursors. <i>Journal of Materials Chemistry</i> , 2011 , 21, 9737		70
31	Electronic and surface properties of PbS nanoparticles exhibiting efficient multiple exciton generation. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 20275-83	3.6	68

30	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> , 2011 , 2011, 2984-2990	2.3	21
29	Crystalline CuPbO ceramic composite thin films from Pb ₂ (OAc) ₄ (ED) ₃ Cu ₆ (dmae) ₄ Cl ₄ [(C ₇ H ₈) ₂].7(H ₂ O). <i>Inorganic Chemistry Communication</i> , 2011 , 14, 288-291	3.1	12
28	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> , 2011 , 47, 1899-901	5.8	21
27	Low temperature CVD growth of PbS films on plastic substrates. <i>Chemical Communications</i> , 2011 , 47, 1991-3	5.8	37
26	Controlled synthesis of tuned bandgap nanodimensional alloys of PbS(x)Se(1-x). <i>Journal of the American Chemical Society</i> , 2011 , 133, 5602-9	16.4	54
25	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	3.8	36
24	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, 2743-50	16.4	103
23	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		45
22	A greener route to photoelectrochemically active PbS nanoparticles. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2336		83
21	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> , 2009 , 65, o329		
20	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> , 2009 , 65, o429		
19	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> , 2009 , 131, 15106-7	16.4	67
18	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> , 2009 , 65, o387		3
17	3-(3-Fluoro-benz-yl)isochroman-1-one. <i>Acta Crystallographica Section E: Structure Reports Online</i> , 2009 , 65, o418		1
16	Microstructure and hardness of electron beam molten surface of DSX40M alloy. <i>Journal of Alloys and Compounds</i> , 2008 , 461, 102-105	5.7	6
15	Nickel(II) complexes of heterodichalcogenido and monochalcogenido imidodiphosphinate ligands: AACVD synthesis of nickel ditelluride. <i>Dalton Transactions</i> , 2008 , 7004-11	4.3	24
14	Effect of thermal treatment on yttria doped zirconia coated DIN 1.4306. <i>Transactions of the Institute of Metal Finishing</i> , 2008 , 86, 162-166	1.3	1
13	catena-Poly[[tetra-kis(μ ₂)-acetato-μ ₂ O']dicopper(II)(Cu-Cu)]-[(μ ₂)-acetato-μ ₂ O']-[bis-[(μ ₂)-3-(dimethyl-amino)propan-1-olato]]		4

- 12 3-(4-Methoxyphenyl)propanohydrazide. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o3061-o3061
- 11 3-(3,4,5-Trimethoxyphenyl)-1H-isochromen-1-one. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o3447-o3447
- 10 1-[2-(2,4-Dichlorophenoxy)acetyl]-4-cyclohexylthiosemicarbazide. *Acta Crystallographica Section E: Structure Reports Online*, **2007**, 63, o3503-o3503
- 9 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
- 8 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
- 7 Synthesis and characterization of low density calcia stabilized zirconia ceramic for high temperature furnace application. *Materials Chemistry and Physics*, **2006**, 100, 324-328 4.4 22
- 6 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 2.2 2
- 5 Development of Ytria-doped Zirconia Thin Films on Mild Steel by a Sol-Gel Process. *Transactions of the Institute of Metal Finishing*, **2001**, 79, 209-212 1.3 1
- 4 Post-irradiation examinations of a Zr_{2.5}Nb pressure tube of the Karachi nuclear power plant (KANUPP). *Journal of Nuclear Materials*, **1996**, 232, 248-252 3.3
- 3 Identification of surface carbides and spinels in welded austenitic stainless steels. *Journal of Materials Science*, **1994**, 29, 1169-1173 4.3 2
- 2 Precipitation study of heat-treated Incoloy 825 by scanning electron microscopy. *Journal of Materials Science Letters*, **1992**, 11, 1009-1011 16
- 1 Synthesis of Cu-doped ZnO for bulk heterojunction hybrid solar cells. *Chemical Papers*, **1** 1.9