Shashank Mishra

List of Publications by Year in Descending Order

80 papers	1,377 citations	22 h-index	34 g-index
89 ext. papers	1,501 ext. citations	5.4 avg, IF	4.84 L-index

#	Paper	IF	Citations
80	Accessing cationic zirconium phosphonate nanosheets for anion exchange applications. *Inorganica Chimica Acta*, **2022**, 531, 120706	2.7	
79	An anhydrous precursor approach to BaYF5-based upconverting nanocrystals. *Journal of the Indian Chemical Society*, **2022**, 99, 100322		1
78	Chalcogenoethers as convenient synthons for low-temperature solution-phase synthesis of metal chalcogenide nanocrystals **2022**, 201-218		1
77	Syntheses and characterizations of calcium and strontium based coordination compounds with the 5-(2-pyridyl)tetrazolate ligand, respectively exhibiting extended 1 D and 2 D structures. *Journal of Molecular Structure*, **2022**, 1260, 132757	3.4	
76	Towards Robust Object Detection in Floor Plan Images: A Data Augmentation Approach. *Applied Sciences (Switzerland)*, **2021**, 11, 11174	2.6	0
75	Single source precursor route to nanometric tin chalcogenides. *Dalton Transactions*, **2021**, 50, 17346-17360	4.3	0
74	Synthesis and Thermal Behavior of Heteroleptic β-Substituted Acetylacetonate-Alkoxides of Titanium. *European Journal of Inorganic Chemistry*, **2021**, 2021, 1976-1983	2.3	0
73	Coinage Metal Complexes with Di-tertiary-butyl Sulfide as Precursors with Ultra-Low Decomposition Temperature. *Chemistry - A European Journal*, **2021**, 27, 10826-10832	4.8	7
72	Influence of the choice of precursors on the synthesis of two-dimensional transition metal dichalcogenides. *Dalton Transactions*, **2021**, 50, 12365-12385	4.3	7
71	High surface area g-C3N4 and g-C3N4-TiO2 photocatalytic activity under UV and Visible light: Impact of individual component. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105587	6.8	9
70	Designed sol-gel precursors for atomically dispersed Nb and Pb within TiO as catalysts for dihydroxyacetone transformation. *Dalton Transactions*, **2021**, 50, 1604-1609	4.3	2
69	Molecular Engineering of Metal Alkoxides for Solution Phase Synthesis of High-Tech Metal Oxide Nanomaterials. *Chemistry - A European Journal*, **2020**, 26, 9292-9303	4.8	22
68	Heteroleptic Tin(IV) Aminoalkoxides and Aminofluoroalkoxides as MOCVD Precursors for Undoped and F-Doped SnO Thin Films. *Inorganic Chemistry*, **2020**, 59, 7167-7180	5.1	13
67	Molecules versus Nanoparticles: Identifying a Reactive Molecular Intermediate in the Synthesis of Ternary Coinage Metal Chalcogenides. *Inorganic Chemistry*, **2020**, 59, 7727-7738	5.1	8
66	Optimum in the thermoelectric efficiency of nanostructured Nb-doped TiO ceramics: from polarons to Nb-Nb dimers. *Physical Chemistry Chemical Physics*, **2020**, 22, 13008-13016	3.6	5
65	Room-temperature conversion of CuSe to CuAgSe nanoparticles to enhance the photocatalytic performance of their composites with TiO. *Dalton Transactions*, **2020**, 49, 3580-3591	4.3	9
64	Quest to enhance up-conversion efficiency: a comparison of anhydrous vs. hydrous synthesis of NaGdF4: Yb3+ and Tm3+ nanoparticles. *Materials Today Chemistry*, **2020**, 17, 100326	6.2	4

63	Effect of High Pressure Spark Plasma Sintering on the Densification of a Nb-Doped TiO2 Nanopowder. *Ceramics*, **2020**, 3, 507-520	1.7	0
62	Rapid Suzuki-Miyaura cross-coupling reaction catalyzed by zirconium carboxyphosphonate supported mixed valent Pd(0)/Pd(II) catalyst. *Applied Organometallic Chemistry*, **2019**, 33, e5017	3.1	5
61	Nanometric NaYF as an Unconventional Support for Gold Catalysts for Oxidation Reactions. *ACS Omega*, **2019**, 4, 5852-5861	3.9	4
60	Multicolor Solar Absorption as a Synergetic UV Upconversion Enhancement Mechanism in LiYF4:Yb3+,Tm3+ Nanocrystals. *ACS Photonics*, **2019**, 6, 3126-3131	6.3	8
59	Synthesis, characterization and thermal transport properties of heteroleptic N-alkyl triazenide complexes of titanium(IV) and niobium(V). *Polyhedron*, **2018**, 152, 84-89	2.7	5
58	Precursor-mediated synthesis of CuSe nanoparticles and their composites with TiO for improved photocatalysis. *Dalton Transactions*, **2018**, 47, 8897-8905	4.3	26
57	Modeling Energy Migration for Upconversion Materials. *Journal of Physical Chemistry C*, **2018**, 122, 888-898	3.3	12
56	Chemical Vapor Deposition of Al13Fe4 Highly Selective Catalytic Films for the Semi-Hydrogenation of Acetylene. *Physica Status Solidi (A) Applications and Materials Science*, **2018**, 215, 1700692	1.6	5
55	Pd Nanoparticles Dispersed on ZrIV Organophosphonate: A Robust and Reusable Catalyst for Suzuki Miyaura Cross-Coupling Reactions. *European Journal of Inorganic Chemistry*, **2018**, 2018, 751-758	2.3	2
54	Reduced {001}-TiO photocatalysts: noble-metal-free CO photoreduction for selective CH evolution. *Physical Chemistry Chemical Physics*, **2017**, 19, 13875-13881	3.6	42
53	Enhanced catalytic activity and near room temperature gas sensing properties of SnO nanoclusters@mesoporous Sn(iv) organophosphonate composite. *Dalton Transactions*, **2017**, 46, 8664-8672	4.2	11
52	Asymmetrically substituted triazenes as poor electron donor ligands in the precursor chemistry of iron(ii) for iron-based metallic and intermetallic nanocrystals. *Dalton Transactions*, **2017**, 46, 13055-13064	4.3	9
51	Zn-Assisted TiO2 Photocatalyst with Efficient Charge Separation for Enhanced Photocatalytic Activities. *Journal of Physical Chemistry C*, **2017**, 121, 17068-17076	3.8	22
50	Upconversion Phenomena in Nanofluorides **2016**, 35-63		4
49	A Facile Molecular Precursor-based Synthesis of Ag2 Se Nanoparticles and Its Composites with TiO2 for Enhanced Photocatalytic Activity. *Chemistry - an Asian Journal*, **2016**, 11, 1658-63	4.5	19
48	Homometallic glycolates containing hydroxyl functionality for anchoring another metal: synthesis and characterization of heterometallic alkoxide glycolates of Ti and Zr incorporating Al and Nb. *Journal of Coordination Chemistry*, **2016**, 69, 135-148	1.6	1
47	Structural isomers of iron(III) N-methyl diethanolaminate as sol gel precursors for iron-based oxide nanomaterials. *RSC Advances*, **2016**, 6, 1738-1743	3.7	17
46	Metal-Organic Derivatives with Fluorinated Ligands as Precursors for Inorganic Nanomaterials. *Chemical Reviews*, **2015**, 115, 8379-448	68.1	112

45	Influence of Na+ ion doping on the phase change and upconversion emissions of the GdF3: Yb3+, Tm3+ nanocrystals obtained from the designed molecular precursors. *RSC Advances*, **2015**, 5, 100535-100545	3.7	18
44	A convenient and quantitative route to Sn(IV)-M [M = Ti(IV), Nb(V), Ta(V)] heterobimetallic precursors for dense mixed-metal oxide ceramics. *Dalton Transactions*, **2015**, 44, 6848-62	4.3	17
43	Thermodynamics of nanoparticles: experimental protocol based on a comprehensive Ginzburg-Landau interpretation. *Nano Letters*, **2014**, 14, 269-76	11.5	14
42	Novel barium-organic incorporated iodometalates: do they have template properties for constructing rare heterotrimetallic hybrids?. *Inorganic Chemistry*, **2014**, 53, 11721-31	5.1	52
41	Direct synthesis of hexagonal NaGdF□nanocrystals from a single-source precursor: upconverting NaGdF□Yb□+ ,Tm□+ and its composites with TiO□for near-IR-driven photocatalysis. *Chemistry - an Asian Journal*, **2014**, 9, 2415-21	4.5	39
40	A Single Source Precursor Route to Group 13 Homo- and Heterometallic Oxides as Highly Active Supports for Gold-Catalyzed Aerobic Epoxidation of trans-Stilbene. *European Journal of Inorganic Chemistry*, **2013**, 2013, 500-510	2.3	23
39	A molecular precursor approach to monodisperse scintillating CeF3 nanocrystals. *Dalton Transactions*, **2013**, 42, 12633-43	4.3	28
38	Solid-state structural transformations in metal organic-inorganic hybrids constructed from terbium(III) complexes and iodocuprate clusters. *CrystEngComm*, **2012**, 14, 3894	3.3	19
37	Novel heterometal-organic complexes as first single source precursors for up-converting NaY(Ln)F4 (Ln = Yb, Er, Tm) nanomaterials. *Dalton Transactions*, **2012**, 41, 1490-502	4.3	49
36	Heterometallic, Hybrid, Heavy Main-Group Iodometallates Containing Lanthanide Complexes: Template Synthesis, Structures, Thermal, Optical, Luminescent and Magnetic Properties. *European Journal of Inorganic Chemistry*, **2012**, 2012, 2749-2758	2.3	32
35	Novel heteroleptic heterobimetallic alkoxide complexes as facile single-source precursors for Ta(5+) doped TiO(2)-SnO(2) nanoparticles. *Inorganic Chemistry*, **2010**, 49, 11184-9	5.1	29
34	Heterometallic Na-Y(Ln) trifluoroacetate diglyme complexes as novel single-source precursors for upconverting NaYF4 nanocrystals co-doped with Yb and Er/Tm ions. *Chemical Communications*, **2010**, 46, 3756-8	5.8	41
33	Aminoalkoxo-supported heteroleptic hexanuclear gallium(III) wheel as a synthon for group 13 heterometallics: a rare sol-gel precursor for mixed Al-Ga oxide as support for gold catalysts. *Dalton Transactions*, **2010**, 39, 7440-3	4.3	22
32	Dimethyl selenide complexes of copper, gallium and indium halides as potential precursors for selenium-containing chalcopyrite semiconducting materials. *Polyhedron*, **2010**, 29, 500-506	2.7	29
31	Synthesis and Spectroscopic Characterization of the First Mixed Six- and Seven-Membered Heterocyclic Boron Compounds With Intramolecular N□ B Bond. *Main Group Metal Chemistry*, **2009**, 32, 55-64	1.6	
30	Thermal dehydration of Y(TFA)3(H2O)3: Synthesis and molecular structures of [Y(□1:□1-TFA)3(THF)(H2O)]1□THF and [Y4(□3-OH)4(□1:□1-TFA)6(□1-TFA)(□2-TFA)(THF)3(DMSO)(H2O)]□6THF (TFA=trifluoroacetate). *Inorganic Chemistry Communication*, **2009**, 12, 97-100	3.1	22
29	Homoleptic gallium(III) and indium(III) aminoalkoxides as precursors for sol-gel routes to metal oxide nanomaterials. *Dalton Transactions*, **2009**, 2569-77	4.3	30
28	Lanthanide complexes in hybrid halometallate materials: interconversion between a novel 2D microporous framework and a 1D zigzag chain structure of iodoargentates templated by octakis-solvated terbium(III) cation. *Dalton Transactions*, **2009**, 4954-61	4.3	41

27	Reactions of metal iodides as a simple route to heterometallics: synthesis, structural transformations, thermal and luminescent properties of novel hybrid iodoargentate derivatives templated by [YL8]3+ or [YL7]3+ cations (L = DMF or DMSO). *Dalton Transactions*, **2008**, 6296-304	4.3	51
26	Rare example of a polynuclear heterometallic yttrium(III)□copper(I) iodide cluster with a [Y6(□-O)(□3-OH)8]8+ core structure showing single crystal-to-single crystal transformation. *CrystEngComm*, **2008**, 10, 814	3.3	29
25	Crystal-to-crystal transformations in heterometallic yttrium(III)-copper(I) iodide derivatives in a confined solvent-free environment: influence of solvated yttrium cations on the nuclearity and dimensionality of iodocuprate clusters. *Dalton Transactions*, **2008**, 620-30	4.3	40
24	Solid- and solution phase transformations in novel hybrid iodoplumbate derivatives templated by solvated yttrium complexes. *Inorganic Chemistry*, **2008**, 47, 9333-43	5.1	47
23	Anhydrous scandium, yttrium, lanthanide and actinide halide complexes with neutral oxygen and nitrogen donor ligands. *Coordination Chemistry Reviews*, **2008**, 252, 1996-2025	23.2	70
22	From discrete [Y(DMF)8][Cu4(mu3-I)2(mu-I)3I2] ion pairs to extended [Y(DMF)6(H2O)2][Cu7(mu4-I)3(mu3-I)2(mu-I)4(I)]1infinity and [Y(DMF)6(H2O)3][Cu(I)7Cu(II)2(mu3-I)8(mu-I)6]2infinity arrays by H-bond templating in a confined solvent-free environment. *Dalton Transactions*, **2007**, 410-3	4.3	36
21	Metal 2-ethylhexanoates and related compounds as useful precursors in materials science. *Chemical Society Reviews*, **2007**, 36, 1770-87	58.5	69
20	The Interplay between Yttrium and Barium or Copper Trifluoroacetates and N-Methyldiethanolamine: Synthesis of a Heterometallic Y3Cu Trifluoroacetate Complex and a Homometallic Ba-TFA 1D Polymer. *European Journal of Inorganic Chemistry*, **2007**, 2007, 602-608	2.3	30
19	Hydrolysis of a (2-Propanol)yttrium Triiodide Complex in the Presence of Glymes: Synthesis and X-ray Structures of Hydroxo-Bridged Dinuclear Yttrium Complexes and Their Applications in Materials Science. *European Journal of Inorganic Chemistry*, **2007**, 2007, 2208-2215	2.3	6
18	Activation of dioxygen by an yttrium iodide adduct: First example of an yttrium superoxide displaying also a rare 1,1-bridging mode of the superoxide ligand. *Inorganic Chemistry Communication*, **2007**, 10, 15-19	3.1	8
17	Redistribution reactions of heteroleptic barium iodide derivatives: Synthesis and structures of trans-BaI2(DME)(triglyme), cis-BaI2(DME)(tetraglyme) and [Ba(tetraglyme)2]I2 □C7H8. *Polyhedron*, **2007**, 26, 66-72	2.7	16
16	Synthesis and spectroscopic characterization of aryloxide derivatives of titanium(IV) and zirconium(IV). *Transition Metal Chemistry*, **2005**, 30, 163-169	2.1	10
15	Di-□aqua-bis({N-[(2-dimethylamino-□N)ethyl]-N,N?,N?-trimethylethane-1,2-diamine-□2N,N?}sodium(I)) diiodide. *Acta Crystallographica Section E: Structure Reports Online*, **2005**, 61, o1528-o1530		1
14	The Chemistry and Spectroscopy of Nonaisopropoxodistannate and Tetradecaisopropoxotristannate Complexes of Yttrium(III) and Lanthanides(III). *Main Group Metal Chemistry*, **2004**, 27,	1.6	1
13	Synthesis and spectroscopic studies of homo- and heteroleptic N-arylsalicylaldiminates of titanium(IV), zirconium(IV) and chromium(III). *Transition Metal Chemistry*, **2004**, 29, 164-169	2.1	8
12	Synthesis and Physico-Chemical Studies of New Types of Heteroleptic Isopropoxometallates of Chromium(III). *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2003**, 33, 761-773		
11	Heterotri- and -tetrametallic alkoxides of chromium(III) containing aluminium(III), gallium(III) and niobium(V). *Transition Metal Chemistry*, **2002**, 27, 541-545	2.1	3
10	Four novel classes of heterobimetallic isopropoxides of chromium(III). *Transition Metal Chemistry*, **2002**, 27, 712-715	2.1	2

9	SYNTHESIS AND SPECTROSCOPIC (IR, 1H, 13C, AND 119Sn NMR) CHARACTERIZATION OF MONO- AND DIORGANOTIN(IV) COMPLEXES CONTAINING STERICALLY HINDERED N-ARYLSALICYLALDIMINATE GROUPS. *Main Group Metal Chemistry*, **2002**, 25,	1.6	17
8	Synthesis and Spectroscopic [Electronic, IR, NMR (1H, 13C, 89Y)] Characterization of Hexaisopropoxoniobates and -Tantalates of Yttrium(III) and Lanthanides(III). *Journal of the Chinese Chemical Society*, **2002**, 49, 335-339	1.5	4
7	SYNTHESIS AND CHARACTERISATION OF VOLATILE, NOVEL HETEROTRIMETALLIC DERIVATIVES OF LANTHANIDES(III) CONTAINING NONAISOPROPOXODIZIRCONATE AND TETRAISOPROPOXOALUMINATE LIGANDS. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2002**, 32, 689-702		6
6	SYNTHESIS AND CHARACTERIZATION OF A NOVEL CLASS OF HETEROBIMETALLIC DERIVATIVES OF YTTRIUM AND LANTHANIDES BASED ON {Zr2(OPri)8Cl}UNITS. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2001**, 31, 569-577		2
5	SYNTHESIS AND SPECTROSCOPIC (1R AND 1H, 13C, 27Al NMR) CHARACTERIZATION OF SEVERAL ALUMINIUM AND GALLIUM N-ARYLSALICYLALDIMINATE DERIVATIVES. *Main Group Metal Chemistry* , **2001**, 24,	1.6	5
4	SYNTHESIS AND SPECTRAL CHARACTERIZATION OF FOUR-COORDINATE CYCLIC BORON COMPOUNDS CONTAINING FIVE-AND SIX-MEMBERED RING SYSTEMS. *Main Group Metal Chemistry*, **2001**, 24,	1.6	1
3	SYNTHESIS AND SPECTROSCOPIC [IR, NMR (1H, 13C, 29Si)] CHARACTERIZATION OF METHYLSILYL N-ARYLSALICYLALDIMINATES. *Phosphorus, Sulfur and Silicon and the Related Elements*, **2001**, 175, 143-152	1	8
2	SYNTHESIS, REACTIONS, AND SPECTRAL [NMR (1H, 13C, 29Si), IR] STUDIES OF TRIMETHYLSILYL-SUBSTITUTED N-ARYLSALICYLALDIMINATES. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2001**, 31, 1705-1715		10
1	Asymmetry-Induced Redistribution in Sn(IV)Ti(IV) Hetero-Bimetallic Alkoxide Precursors and Its Impact on Thin-Film Deposition by MetalOrganic Chemical Vapor Deposition. *Crystal Growth and Design*,	3.5	0