Neerish Revaprasadu

List of Publications by Year
in descending order

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191	4,838	101496	149623
papers	citations	36 h-index	56 g-index

198	198	198	4659
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Air-Stable Single-Source Precursors for the Synthesis of Chalcogenide Semiconductor Nanoparticles. Chemistry of Materials, 2001, 13, 913-920.	3.2	269
2	A Simple Route to the Synthesis of Core/Shell Nanoparticles of Chalcogenides. Chemistry of Materials, 2002, 14, 2004-2010.	3.2	201
3	Synthesis of TOPO-capped Mn-doped ZnS and CdS quantum dots. Journal of Materials Chemistry, 2001, 11, 2382-2386.	6.7	148
4	Cadmium ethylxanthate: A novel single-source precursor for the preparation of CdS nanoparticles. Journal of Materials Chemistry, 2002, 12, 2722-2725.	6.7	144
5	Routes to Nanostructured Inorganic Materials with Potential for Solar Energy Applications. Chemistry of Materials, 2013, 25, 3551-3569.	3.2	129
6	The effect of Cu-doping on CdS thin films deposited by the spray pyrolysis technique. Journal of Materials Research and Technology, 2019, 8, 2021-2030.	2.6	78
7	Cadmium(ii) complexes of N,N-diethyl-Nâ€²-benzoylthio(seleno)urea as single-source precursors for the preparation of CdS and CdSe nanoparticles. New Journal of Chemistry, 2007, 31, 1647.	1.4	77
8	A single-source route to CdS nanorods. Chemical Communications, 2002, , 564-565.	2.2	76
9	Cashew nut shell: a potential bio-resource for the production of bio-sourced chemicals, materials and fuels. Green Chemistry, 2019, 21, 1186-1201.	4.6	75
10	Direct solvent free synthesis of bare Î±-NiS, Î²-NiS and Î±-Î²-NiS composite as excellent electrocatalysts: Effect of self-capping on supercapacitance and overall water splitting activity. Scientific Reports, 2020, 10, 3260.	1.6	73
11	Effect of Cu, Ni and Pb doping on the photo-electrochemical activity of ZnO thin films. RSC Advances, 2019, 9, 7729-7736.	1.7	71
12	A novel one-pot route for the synthesis of water-soluble cadmium selenide nanoparticles. Journal of Crystal Growth, 2008, 310, 3230-3234.	0.7	62
13	Surface enhanced Raman spectroscopy (SERS) and density functional theory (DFT) study for understanding the regioselective adsorption of pyrrolidinone on the surface of silver and gold colloids. Journal of Molecular Structure, 2009, 935, 32-38.	1.8	62
14	Novel single source precursor for synthesis of Sb2Se3 nanorods and deposition of thin films by AACVD: Photo-electrochemical study for water reduction catalysis. Solar Energy, 2018, 169, 526-534.	2.9	62
15	Novel singleÂmolecule precursor routes for the direct synthesis of InS and InSe quantum dots. Journal of Materials Chemistry, 1999, 9, 2885-2888.	6.7	58
16	A simple route to synthesise nanodimensional CdSeâ€“CdS coreâ€“shell structures from single molecule precursors. Chemical Communications, 1999, , 1573-1574.	2.2	57
17	Bis(piperidinedithiocarbamato)pyridinecadmium(<scp>ii</scp>) as a single-source precursor for the synthesis of CdS nanoparticles and aerosol-assisted chemical vapour deposition (AACVD) of CdS thin films. New Journal of Chemistry, 2014, 38, 6073-6080.	1.4	55
18	Fabrication of planar heterojunction CsPbBr₂I perovskite solar cells using ZnO as an electron transport layer and improved solar energy conversion efficiency. New Journal of Chemistry, 2018, 42, 14104-14110.	1.4	55

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19	Synthesis and characterization of Z-scheme Î±-Fe2O3 NTs/ruptured tubular g-C3N4 for enhanced photoelectrochemical water oxidation. Solar Energy, 2019, 193, 403-412.	2.9	55
20	Preparation of CdS nanoparticles using the cadmium(II) complex of N,Nâ€²Âbis(thiocarbamoyl)hydrazine as a simple singleÂsource precursor. Journal of Materials Chemistry, 2001, 11, 1555-1556.	6.7	54
21	Heterocyclic dithiocarbamates: precursors for shape controlled growth of CdS nanoparticles. New Journal of Chemistry, 2011, 35, 1133.	1.4	52
22	Progress in selenium based metal-organic precursors for main group and transition metal selenide thin films and nanomaterials. Coordination Chemistry Reviews, 2019, 388, 24-47.	9.5	50
23	Use of metal complexes to synthesize semiconductor nanoparticles. Pure and Applied Chemistry, 2006, 78, 1691-1702.	0.9	49
24	Heterocyclic dithiocarbamato-iron(<scp>iii</scp>) complexes: single-source precursors for aerosol-assisted chemical vapour deposition (AACVD) of iron sulfide thin films. Dalton Transactions, 2016, 45, 2647-2655.	1.6	49
25	ZnCr-CO3 LDH/ruptured tubular g-C3N4 composite with increased specific surface area for enhanced photoelectrochemical water splitting. Applied Surface Science, 2020, 508, 145100.	3.1	48
26	Synthesis of TOPO-capped PtS and PdS nanoparticles from [Pt(S2CNMe(Hex))2] and [Pd(S2CNMe(Hex))2]. Journal of Materials Chemistry, 2002, 12, 92-97.	6.7	44
27	Bis(selenobenzoato)dibutyltin(<scp>iv</scp>) as a single source precursor for the synthesis of SnSe nanosheets and their photo-electrochemical study for water splitting. Dalton Transactions, 2018, 47, 5465-5473.	1.6	44
28	Synthesis of anisotropic PbS nanoparticles using heterocyclic dithiocarbamate complexes. Dalton Transactions, 2012, 41, 8297.	1.6	43
29	Phase-pure fabrication and shape evolution studies of SnS nanosheets. New Journal of Chemistry, 2015, 39, 9569-9574.	1.4	43
30	Cd(NH2CSNHNHCSNH2)Cl2: a new single-source precursor for the preparation of CdS nanoparticles. Polyhedron, 2003, 22, 3129-3135.	1.0	42
31	Synthesis of hexadecylamine capped CdS nanoparticles using heterocyclic cadmium dithiocarbamates as single source precursors. Polyhedron, 2009, 28, 2977-2982.	1.0	42
32	Synthetic routes to iron chalcogenide nanoparticles and thin films. Dalton Transactions, 2016, 45, 18803-18812.	1.6	41
33	Simple Route to Dots and Rods of PbTe Nanocrystals. Chemistry of Materials, 2010, 22, 3817-3819.	3.2	40
34	Synthesis of Offâ€Stoichiometric CoS Nanoplates from a Molecular Precursor for Efficient H₂O₂ Evolution and Supercapacitance. ChemElectroChem, 2019, 6, 2560-2569.	1.7	40
35	Thermal Degradation Kinetics of Sugarcane Bagasse and Soft Wood Cellulose. Materials, 2017, 10, 1246.	1.3	39
36	A chemodosimetric approach for the selective detection of Pb²⁺ions using a cesium based perovskite. New Journal of Chemistry, 2016, 40, 9719-9724.	1.4	37

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37	Microwave-assisted synthesis of thymine-functionalized graphitic carbon nitride quantum dots as a fluorescent nanoprobe for mercury(II). Mikrochimica Acta, 2018, 185, 461.	2.5	37
38	Synthesis of rare pure phase Ni3S4 and Ni3S2 nanoparticles in different primary amine coordinating solvents. Polyhedron, 2017, 122, 16-24.	1.0	36
39	Structural investigations of SnS_{1â^'x}Se_xsolid solution synthesized from chalcogeno-carboxylate complexes of organo-tin by colloidal and solvent-less routes. Dalton Transactions, 2018, 47, 10025-10034.	1.6	36
40	Time dependant evolution of silver nanodendrites. Materials Letters, 2009, 63, 447-450.	1.3	34
41	Strontium aluminate/polymer composites: Morphology, luminescent properties, and durability. Journal of Applied Polymer Science, 2009, 112, 3347-3354.	1.3	34
42	Electrochemical investigation of uncapped AgBiS₂ (schapbachite) synthesized using in situ melts of xanthate precursors. Dalton Transactions, 2019, 48, 3714-3722.	1.6	34
43	Characterization of polystyrene filled with HgS nanoparticles. Materials Letters, 2004, 58, 361-364.	1.3	33
44	Phase pure deposition of flower-like thin films by aerosol assisted chemical vapor deposition and solvent mediated structural transformation in copper sulfide nanostructures. Thin Solid Films, 2017, 638, 338-344.	0.8	33
45	Synthesis and characterization of PbS nanoparticles in an ionic liquid using single and dual source precursors. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2018, 227, 116-121.	1.7	33
46	A Facile Route to Cesium Lead Bromoiodide Perovskite Microcrystals and Their Potential Application as Sensors for Nitrophenol Explosives. European Journal of Inorganic Chemistry, 2017, 2017, 3755-3760.	1.0	32
47	Synthesis of chalcopyrite-type and thiospinel minerals/materials by low temperature melts of xanthates. Dalton Transactions, 2018, 47, 8870-8873.	1.6	31
48	Controlled Synthesis of Sb₂(S_{1â€“x}Se_x)₃ (0 â‰¤ x â‰¤ 1) Solid Solution and the Effect of Composition Variation on Electrocatalytic Energy Conversion and Storage. ACS Applied Energy Materials, 2020, 3, 1448-1460.	2.5	31
49	N,Nâ€²-Diisopropyl- and N,Nâ€²-dicyclohexylthiourea cadmium(II) complexes as precursors for the synthesis of CdS nanoparticles. Polyhedron, 2007, 26, 3947-3955.	1.0	30
50	Synthesis and characterization of castor oil and ricinoleic acid capped CdS nanoparticles using single source precursors. Materials Science in Semiconductor Processing, 2016, 43, 230-237.	1.9	30
51	Flexible Molecular Precursors for Selective Decomposition to Nickel Sulfide or Nickel Phosphide for Water Splitting and Supercapacitance. Chemistry - A European Journal, 2020, 26, 2693-2704.	1.7	30
52	Controlled synthesis of all inorganic CsPbBr 2 I perovskite by non-template and aerosol assisted chemical vapour deposition. Materials Letters, 2017, 190, 244-247.	1.3	29
53	Effect of cationic disorder on the energy generation and energy storage applications of Ni_xCo_{3â^'x}S₄ thiospinel. RSC Advances, 2018, 8, 24049-24058.	1.7	29
54	Cobalt sulfide nanoparticles: Synthesis, water splitting and supercapacitance studies. Materials Science in Semiconductor Processing, 2020, 109, 104925.	1.9	29

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55	Structure and properties of PbSâ€“polyacrylamide nanocomposites. Applied Physics A: Materials Science and Processing, 2005, 81, 835-838.	1.1	28
56	Synthesis of multi-podal CdS nanostructures using heterocyclic dithiocarbamato complexes as precursors. Polyhedron, 2013, 56, 62-70.	1.0	28
57	The syntheses and structures of Zn(II) heterocyclic piperidine and tetrahydroquinoline dithiocarbamates and their use as single source precursors for ZnS nanoparticles. Polyhedron, 2014, 67, 129-135.	1.0	28
58	Fabrication of a Graphene@TiO₂@Porphyrin Hybrid Material and Its Photocatalytic Properties under Simulated Sunlight Irradiation. ChemistrySelect, 2017, 2, 3329-3333.	0.7	28
59	Selective Synthesis of Bismuth or Bismuth Selenide Nanosheets from a Metal Organic Precursor: Investigation of their Catalytic Performance for Water Splitting. Inorganic Chemistry, 2021, 60, 1449-1461.	1.9	28
60	Deposition of cobalt and nickel sulfide thin films from thio- and alkylthio-urea complexes as precursors via the aerosol assisted chemical vapour deposition technique. Thin Solid Films, 2014, 564, 51-57.	0.8	27
61	Heterocyclic Bismuth(III) Dithiocarbamato Complexes as Singleâ€Source Precursors for the Synthesis of Anisotropic Bi₂S₃ Nanoparticles. Chemistry - A European Journal, 2016, 22, 13127-13135.	1.7	27
62	Facile synthesis of a PbS_{1â^'x}Se_x (0 â‰¤ x â‰¤ 1) solid solution using bis(N,N-diethyl-Nâ€²-naphthoylchalcogenoureato)lead(<scp>ii</scp>) complexes. New Journal of Chemistry, 2018, 42, 16602-16607.	1.4	27
63	Aerosol assisted chemical vapor deposition (AACVD) of CdS thin films from heterocyclic cadmium(II) complexes. Inorganica Chimica Acta, 2015, 434, 181-187.	1.2	26
64	Preparation of CdS Nanoparticles from Thiosemicarbazone Complexes: Morphological Influence of Chlorido and Iodido Ligands. European Journal of Inorganic Chemistry, 2016, 2016, 366-372.	1.0	26
65	Enhanced photocatalytic activity of water stable hydroxyl ammonium lead halide perovskites. Materials Science in Semiconductor Processing, 2017, 63, 6-11.	1.9	26
66	Zinc thiosemicarbazone complexes: Single source precursors for alkylamine capped ZnS nanoparticles. Inorganica Chimica Acta, 2017, 463, 7-13.	1.2	26
67	The use of dithio- and diselenocarbamates as precursors to nanoscale materials. Materials Science and Engineering C, 2001, 16, 129-133.	3.8	25
68	Precursor Routes to Semiconductor Quantum Dots. Phosphorus, Sulfur and Silicon and the Related Elements, 2005, 180, 689-712.	0.8	25
69	An improved N,N-dimethylformamide and polyvinyl pyrrolidone approach for the synthesis of long silver nanowires. Journal of Alloys and Compounds, 2009, 469, 519-522.	2.8	25
70	Cysteineâ€capped gold nanoparticles suppress aggregation of proteins exposed to heat stress. IUBMB Life, 2013, 65, 454-461.	1.5	25
71	CdSe quantum dots capped with naturally occurring biobased oils. New Journal of Chemistry, 2015, 39, 7251-7259.	1.4	25
72	A facile approach for selective and sensitive detection of aqueous contamination in DMF by using perovskite material. Materials Letters, 2016, 183, 135-138.	1.3	25

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73	Design, green synthesis, anti-microbial, and anti-oxidant activities of novelÎ±-aminophosphonates via Kabachnik-Fields reaction. Phosphorus, Sulfur and Silicon and the Related Elements, 2016, 191, 1081-1085.	0.8	25
74	Tannic acid-derivatized graphitic carbon nitride quantum dots as an â€œon-off-onâ€•fluorescent nanoprobe for ascorbic acid via copper(II) mediation. Mikrochimica Acta, 2019, 186, 87.	2.5	25
75	Synergistically enhanced performance of transition-metal doped Ni₂P for supercapacitance and overall water splitting. Dalton Transactions, 2021, 50, 11821-11833.	1.6	25
76	A facile â€œgreenâ€•synthesis of ascorbic acid-capped ZnSe nanoparticles. Colloids and Surfaces B: Biointerfaces, 2010, 79, 126-130.	2.5	24
77	An in vitro assessment of the interaction of cadmium selenide quantum dots with DNA, iron, and blood platelets. IUBMB Life, 2012, 64, 995-1002.	1.5	24
78	Aerosol assisted chemical vapor deposition of Sb2S3 thin films: Environmentally benign solar energy material. Materials Science in Semiconductor Processing, 2015, 40, 643-649.	1.9	24
79	Deposition of cadmium sulfide and zinc sulfide thin films by aerosol-assisted chemical vapors from molecular precursors. Turkish Journal of Chemistry, 2015, 39, 169-178.	0.5	24
80	N-alkylthioureacadmium (II) complexes as novel precursors for the synthesis of CdS nanoparticles. Journal of Materials Science: Materials in Electronics, 2004, 15, 313-316.	1.1	23
81	Tuning the Phase and Shape of Copper Sulfide Nanostructures Using Mixed Solvent Systems. ChemistrySelect, 2016, 1, 5982-5989.	0.7	23
82	Colloidal synthesis of metal chalcogenide nanomaterials from metalâ€“organic precursors and capping ligand effect on electrocatalytic performance: progress, challenges and future perspectives. Dalton Transactions, 2021, 50, 11347-11359.	1.6	23
83	The Effect of Precursor Concentration, Temperature and Capping Group on the Morphology of CdS Nanoparticles. Journal of Nanoscience and Nanotechnology, 2009, 9, 4760-4766.	0.9	21
84	Synthesis of PVP capped gold nanoparticles by the UV-irradiation technique. Materials Letters, 2011, 65, 2844-2847.	1.3	21
85	Low temperature synthesis of PbS and CdS nanoparticles in olive oil. Materials Science in Semiconductor Processing, 2014, 27, 191-196.	1.9	21
86	New Examples of Phase Control in the Preparation of Copper Sulfide Nanoparticles and Deposition of Thin Films by AACVD from Bis(piperidinedithiocarbamato)copper(II) Complex. ChemistrySelect, 2018, 3, 2943-2950.	0.7	21
87	Single precursor-based synthesis of transition metal sulfide nanoparticles and evaluation of their antimicrobial, antioxidant and cytotoxic potentials. Applied Nanoscience (Switzerland), 2021, 11, 2489-2502.	1.6	21
88	A new synthetic route to organically capped cadmium selenide nanoparticles. New Journal of Chemistry, 2008, 32, 1432.	1.4	20
89	Nanoparticles and Thin Films of Silver from Complexes of Derivatives of N-(Diisopropylthiophosphoryl)thioureas. Chemistry of Materials, 2009, 21, 4233-4240.	3.2	19
90	A new synthesis of hexadecylamine-capped Mn-doped wurtzite CdSe nanoparticles. Materials Letters, 2010, 64, 1513-1516.	1.3	19

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91	Lead chalcogenides stabilized by anacardic acid. Materials Science in Semiconductor Processing, 2013, 16, 263-268.	1.9	19
92	Designing the morphology of PbS nanoparticles through a single source precursor method. Journal of Saudi Chemical Society, 2017, 21, 593-598.	2.4	19
93	A simple route to alkylamine capped antimony nanoparticles. Materials Letters, 2015, 145, 239-242.	1.3	18
94	Structural and gas sensing properties of greigite (Fe 3 S 4) and pyrrhotite (Fe 1-x S) nanoparticles. Materials Chemistry and Physics, 2017, 198, 167-176.	2.0	18
95	Phase pure Ni₃S₂ and NiS from bis(Nâ€²-ethyl-N-piperazinylcarbodithioato-S,Sâ€²)â€“nickel(<scp>ii</scp>) via solvent thermolysis and aerosol assisted chemical vapour deposition. New Journal of Chemistry, 2018, 42, 6203-6209.	1.4	18
96	Unusual doping induced phase transitions in NiS via solventless synthesis enabling superior bifunctional electrocatalytic activity. Sustainable Energy and Fuels, 2020, 4, 5132-5143.	2.5	18
97	Heterocyclic lead(II) thioureato complexes as single-source precursors for the aerosol assisted chemical vapour deposition of PbS thin films. Inorganica Chimica Acta, 2018, 479, 42-48.	1.2	17
98	Deposition of Bi2S3 thin films from heterocyclic bismuth(III) dithiocarbamato complexes. Polyhedron, 2018, 154, 173-181.	1.0	17
99	Solventless synthesis of nanospinel Ni_{1â^'x}Co_xFe₂O₄ (0 â‰¤ x â‰¤ 1) solid solutions for efficient electrochemical water splitting and supercapacitance. RSC Advances, 2021, 11, 31002-31014.	1.7	17
100	The influence of the cadmium source on the shape of CdSe nanoparticles. Materials Letters, 2010, 64, 1037-1040.	1.3	16
101	Facile synthesis of cysteine and triethanolamine capped CdTe nanoparticles. Colloids and Surfaces B: Biointerfaces, 2013, 101, 450-456.	2.5	16
102	Deposition of phase pure nickel sulfide thin films from bis(O-alkylxanthato)â€“nickel(II) complexes by the aerosol assisted chemical vapour deposition (AACVD) method. Materials Science in Semiconductor Processing, 2015, 30, 368-375.	1.9	16
103	Synthesis and characterization of CdS nanocrystallites and OMWCNT-supported cadmium sulfide composite and their photocatalytic activity under visible light irradiation. Materials Chemistry and Physics, 2016, 183, 366-374.	2.0	16
104	Phase transition in Cu_{2+x}SnS_{3+y} (0 â‰¤ x â‰¤ 2; 0 â‰¤ y â‰¤ 1) ternary systems synthesized from complexes of coumarin derived thiocarbamate motifs: optical and morphological properties. RSC Advances, 2019, 9, 35706-35716.	1.7	16
105	A simple route to Bi2Se3 and Bi2Te3 nanocrystals. Superlattices and Microstructures, 2014, 69, 226-230.	1.4	15
106	PbS x Se1â^'x thin films from the thermal decomposition of lead(II) dodecylxanthate and bis(N,N-diethyl-Nâ€²-naphthoylselenoureato)lead(II) precursors. Journal of Materials Science, 2018, 53, 4283-4293.	1.7	15
107	Broadband emission in a new lead free all-inorganic 3D CsZnCl2I perovskite. New Journal of Chemistry, 2018, 42, 17181-17184.	1.4	15
108	Surface Engineered Peroxidase-Mimicking Gold Nanoparticles to Subside Cell Inflammation. Langmuir, 2022, 38, 1877-1887.	1.6	15

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109	Study on growth kinetics of hexadecylamine capped CdSe nanoparticles using its electronic properties. Physica B: Condensed Matter, 2009, 404, 1204-1208.	1.3	14
110	A facile route to shape controlled CdTe nanoparticles. Materials Chemistry and Physics, 2011, 126, 500-506.	2.0	14
111	Phase controlled synthesis of copper sulfide nanoparticles by colloidal and non-colloidal methods. Materials Chemistry and Physics, 2016, 180, 404-412.	2.0	14
112	CdS thin films deposition by AACVD: effect of precursor type, decomposition temperature and solvent. Journal of Materials Science: Materials in Electronics, 2018, 29, 14462-14470.	1.1	14
113	Synthesis of (Bi_{1â^'x}Sb_x)₂S₃solid solutionsviathermal decomposition of bismuth and antimony piperidinedithiocarbamates. RSC Advances, 2019, 9, 15836-15844.	1.7	14
114	Tuning composition of CuCo₂S₄â€“NiCo₂S₄ solid solutions via solvent-less pyrolysis of molecular precursors for efficient supercapacitance and water splitting. RSC Advances, 2022, 12, 10675-10685.	1.7	14
115	Facile Attachment of TAT Peptide on Gold Monolayer Protected Clusters: Synthesis and Characterization. Nanomaterials, 2015, 5, 1211-1222.	1.9	13
116	Cadmium sulfide quantum dots stabilized by castor oil and ricinoleic acid. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 76, 95-102.	1.3	13
117	Band Structure, Morphology, Functionality, and Size- Dependent Properties of Metal Nanoparticles. , 2018, , .		13
118	The electrokinetic characterization of gold nanoparticles, functionalized with cationic functional groups, and itsâ€™ interaction with DNA. Colloids and Surfaces B: Biointerfaces, 2014, 121, 425-431.	2.5	12
119	Functionalized mesoporous organo-silica nanosorbents for removal of chromium (III) ions from tanneries wastewater. Journal of Porous Materials, 2016, 23, 83-93.	1.3	12
120	Facile synthesis of organically capped PbS nanoparticles. Journal of Alloys and Compounds, 2012, 537, 19-23.	2.8	11
121	Investigation of PbS nanocrystals sensitized extremely thin absorber (ETA) solar cell. Materials Science in Semiconductor Processing, 2015, 36, 20-26.	1.9	11
122	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
123	Important Phase Control of Indium Sulfide Nanomaterials by Choice of Indium(III) Xanthate Precursor and Thermolysis Temperature. European Journal of Inorganic Chemistry, 2019, 2019, 1421-1432.	1.0	11
124	Polystyrene-co-maleic acid/CdS nanocomposites: Preparation and properties. Journal of Physics and Chemistry of Solids, 2005, 66, 1302-1306.	1.9	10
125	Synthesis of triethanolamine (TEA) capped CdSe nanoparticles. Materials Letters, 2011, 65, 1283-1286.	1.3	10
126	A New Route to Lead Chalcogenide Nanocrystals. European Journal of Inorganic Chemistry, 2011, 2011, 5196-5201.	1.0	10

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127	Magnetic Iron Sulfide Nanoparticles for Potential Applications in Gas Sensing. MRS Advances, 2016, 1, 235-240.	0.5	10
128	Synthesis of CdS quantum dots in an imidazolium based ionic liquid. Materials Science in Semiconductor Processing, 2017, 71, 258-262.	1.9	10
129	A facile approach to synthesis graphene oxide/bismuth oxide nanocomposites and their superior sunlight driven photocatalytic activity. Optik, 2019, 197, 163035.	1.4	10
130	A facile hybrid route to luminescent ZnTe nanoparticles. Materials Letters, 2012, 81, 108-111.	1.3	9
131	A convenient synthesis of antimony sulfide and antimony phosphate nanorods using single source dithiolatoantimony(III) dialkyldithiophosphate precursors. Polyhedron, 2014, 80, 216-222.	1.0	9
132	Preparation of Iron Sulfide Nanomaterials from Iron(II) Thiosemicarbazone Complexes and Their Application in Photodegradation of Methylene Blue. Journal of Inorganic and Organometallic Polymers and Materials, 2018, 28, 603-611.	1.9	9
133	Synthesis and characterization of rhodium sulfide nanoparticles and thin films. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2008, 150, 111-115.	1.7	8
134	A novel route to cysteine capped Auâ€“CdSe hybrid nanoparticles. Materials Letters, 2009, 63, 2097-2099.	1.3	8
135	Synthesis, density functional theory, molecular dynamics and electrochemical studies of 3-thiopheneacetic acid-capped gold nanoparticles. Journal of Molecular Structure, 2011, 1006, 494-501.	1.8	8
136	Synthesis of Hybrid to Inorganic Quasi 2D-Layered Perovskite Nanoparticles. ChemistrySelect, 2017, 2, 5595-5599.	0.7	8
137	Lead(II) halide cinnamaldehyde thiosemicarbazone complexes as single source precursors for oleylamine-capped lead sulfide nanoparticles. Journal of Materials Science: Materials in Electronics, 2018, 29, 1479-1488.	1.1	8
138	Crystal structures and physicochemical studies of some novel divalent and trivalent transition metal chelates of N-morpholine-N'-benzoylthiourea. Journal of Molecular Structure, 2021, 1229, 129791.	1.8	8
139	The oriented self-assembly of small PbSe nanocrystals into extended structures â€˜nanowormsâ€™. Materials Letters, 2012, 77, 78-81.	1.3	7
140	Evidence of oriented attachment in the growth of functionalized ZnTe nanoparticles for potential applications in bio-imaging. New Journal of Chemistry, 2014, 38, 6002-6007.	1.4	7
141	Synthesis of hierarchical PbS nanostructures capped with castor oil. Materials Letters, 2016, 185, 17-20.	1.3	7
142	Morphological influence of deposition routes on lead sulfide thin films. Inorganica Chimica Acta, 2019, 498, 119116.	1.2	7
143	Tailoring Shape and Crystallographic Phase of Copper Sulfide Nanostructures Using Novel Thiourea Complexes as Single Source Precursors. Journal of Inorganic and Organometallic Polymers and Materials, 2019, 29, 917-927.	1.9	7
144	DnaK Protein Alleviates Toxicity Induced by Citrate-Coated Gold Nanoparticles in Escherichia coli. PLoS ONE, 2015, 10, e0121243.	1.1	7

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145	Phase transformations in the nickel phosphide system induced by transition-metal doping and their electro-catalytic study. Sustainable Energy and Fuels, 2022, 6, 1319-1331.	2.5	7
146	Facile Synthesis of Organically Capped CdTe Nanoparticles. Journal of Nanoscience and Nanotechnology, 2012, 12, 2640-2644.	0.9	6
147	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
148	Synthesis of biocompatible Auâ€“ZnTe coreâ€“shell nanoparticles. Journal of Materials Chemistry B, 2015, 3, 2826-2833.	2.9	6
149	Facile route to the synthesis and characterization of novel coreâ€“shell and Ag/Ru allied nanoparticles. Physica E: Low-Dimensional Systems and Nanostructures, 2015, 71, 70-78.	1.3	6
150	Synthesis of CdS and PbS nanoparticles by the thermal decomposition of ethyl xanthate complexes in castor oil using the heat-up technique. Materials Science in Semiconductor Processing, 2021, 122, 105493.	1.9	6
151	Low temperature scalable synthetic approach enabling high bifunctional electrocatalytic performance of NiCo₂S₄ and CuCo₂S₄ thiospinels. RSC Advances, 2021, 11, 31533-31546.	1.7	6
152	A Facile, â€œGreenâ€•One â€“ Step, Room Temperature Synthesis of a Series of monodispersed MSe(M = Cd or) Tj ETQq0 0 0 rgBT /Ove	0.1	5
153	Synthesis and Characterization of Optically Active Fractal Seed Mediated Silver Nickel Bimetallic Nanoparticles. Journal of Materials, 2014, 2014, 1-9.	0.1	5
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