

Pawan Kumar Khanna

List of Publications by Year in descending order

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70
papers

2,489
citations

236925

25
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206112

48
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71
all docs

71
docs citations

71
times ranked

3278
citing authors

#	ARTICLE	IF	CITATIONS
1	Synthesis and characterization of Ag/PVA nanocomposite by chemical reduction method. <i>Materials Chemistry and Physics</i> , 2005, 93, 117-121.	4.0	352
2	Alumina-supported iron oxide nanoparticles as Fischer-Tropsch catalysts: Effect of particle size of iron oxide. <i>Journal of Molecular Catalysis A</i> , 2010, 323, 84-90.	4.8	188
3	Metal complexes driven from Schiff bases and semicarbazones for biomedical and allied applications: a review. <i>Materials Today Chemistry</i> , 2019, 14, 100195.	3.5	166
4	In situ synthesis of silver nano-particles in polymethylmethacrylate. <i>Materials Chemistry and Physics</i> , 2007, 104, 367-372.	4.0	165
5	Photodegradation of organic dyes based on anatase and rutile TiO ₂ nanoparticles. <i>RSC Advances</i> , 2016, 6, 2746-2759.	3.6	117
6	Selenium nanoparticles: a review on synthesis and biomedical applications. <i>Materials Advances</i> , 2022, 3, 1415-1431.	5.4	108
7	Production and luminescent properties of CdSe and CdS nanoparticle-polymer composites. <i>Journal of Luminescence</i> , 2004, 109, 163-172.	3.1	73
8	Synthesis and optical properties of CdS/PVA nanocomposites. <i>Materials Chemistry and Physics</i> , 2005, 94, 454-459.	4.0	71
9	Polyaniline-CdS nanocomposite from organometallic cadmium precursor. <i>Materials Chemistry and Physics</i> , 2004, 87, 49-52.	4.0	66
10	Synthesis of oleic acid capped copper nano-particles via reduction of copper salt by SFS. <i>Materials Chemistry and Physics</i> , 2008, 110, 21-25.	4.0	55
11	Synthesis, Characterization, and Studies of PVA/Co-Doped ZnO Nanocomposite Films. <i>International Journal of Green Nanotechnology</i> , 2012, 4, 408-416.	0.3	45
12	Transparent ZnO/polycarbonate nanocomposite for food packaging application. <i>Nanocomposites</i> , 2015, 1, 106-112.	4.2	45
13	A graphene titanium dioxide nanocomposite (GTNC): one pot green synthesis and its application in a solid rocket propellant. <i>RSC Advances</i> , 2015, 5, 63777-63785.	3.6	44
14	Dinuclear diselenolones derived from cycloalkeno-1,2,3-selenadiazoles and tetrakis(triphenylphosphine)palladium. <i>Journal of the Chemical Society Dalton Transactions</i> , 1999, , 791-794.	1.1	41
15	Silver nanoparticles embedded polymer sorbent for preconcentration of uranium from bio-aggressive aqueous media. <i>Journal of Hazardous Materials</i> , 2011, 186, 2051-2059.	12.4	41
16	Novel synthesis of silver selenide nano-powder from silver nitrate and organo-selenium compound. <i>Materials Letters</i> , 2004, 58, 1030-1034.	2.6	40
17	The processing of CdSe/Polymer nanocomposites via solution organometallic chemistry. <i>Materials Chemistry and Physics</i> , 2006, 97, 288-294.	4.0	37
18	Effect of reducing agent on the synthesis of nickel nanoparticles. <i>Materials Letters</i> , 2009, 63, 1384-1386.	2.6	34

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19	Probing the real-time photocatalytic activity of CdS QDs sensitized conducting polymers: Featured PTh, PPy and PANI. <i>Vacuum</i> , 2018, 155, 159-168.	3.5	34
20	Chemically designed Pt/PPy nano-composite for effective LPG gas sensor. <i>Nanoscale</i> , 2014, 6, 2746.	5.6	33
21	Polymer based graphene/titanium dioxide nanocomposite (GTNC): an emerging and efficient thermoelectric material. <i>Dalton Transactions</i> , 2015, 44, 19248-19255.	3.3	33
22	Impact of microwave irradiation on cyclo-octeno-1,2,3-selenadiazole: formation of selenium nanoparticles and their polymorphs. <i>RSC Advances</i> , 2015, 5, 44756-44763.	3.6	32
23	Magic-sized CdSe nanoclusters: a review on synthesis, properties and white light potential. <i>Materials Advances</i> , 2021, 2, 1204-1228.	5.4	32
24	BaTiO ₃ nanostructures for H ₂ S gas sensor: Influence of band-gap, size and shape on sensing mechanism. <i>Vacuum</i> , 2017, 146, 455-461.	3.5	30
25	Band engineered p-type RGO@CdS@PANI ternary nanocomposites for thermoelectric applications. <i>Sustainable Energy and Fuels</i> , 2017, 1, 1766-1773.	4.9	26
26	Synthesis of Nanosilver Using a Vitamin C Derivative and Studies on Radiation Protection. <i>Cancer Biotherapy and Radiopharmaceuticals</i> , 2011, 26, 249-257.	1.0	24
27	Single Step Synthesis of Nitro-Functionalized Hydroxyl-Terminated Polybutadiene. <i>Propellants, Explosives, Pyrotechnics</i> , 2013, 38, 748-753.	1.6	24
28	Synthesis and characterisation of new 2-bromovinyl selenides and their platinum group metal complexes. <i>Journal of Organometallic Chemistry</i> , 1993, 450, 109-114.	1.8	23
29	La doped BaTiO ₃ nanostructures for room temperature sensing of NO ₂ /NH ₃ : Focus on La concentration and sensing mechanism. <i>Vacuum</i> , 2019, 166, 37-44.	3.5	23
30	CuSbSe ₂ /TiO ₂ : novel type-II heterojunction nano-photocatalyst. <i>Materials Chemistry Frontiers</i> , 2019, 3, 437-449.	5.9	22
31	Progress of hybrid nanocomposite materials for thermoelectric applications. <i>Materials Advances</i> , 2021, 2, 1927-1956.	5.4	22
32	Synthesis of novel Zn(II) and Cd(II) complexes of semicarbazones and their utility as precursors for respective metal selenide quantum dots. <i>Polyhedron</i> , 2017, 123, 99-110.	2.2	21
33	Modified iron oxide nanoparticles as burn rate enhancer in composite solid propellants. <i>Vacuum</i> , 2018, 156, 483-491.	3.5	21
34	Band Engineered I/III-VI Binary Metal Selenide/MWCNT/PANI Nanocomposites for Potential Room Temperature Thermoelectric Applications. <i>ACS Applied Energy Materials</i> , 2019, 2, 2680-2691.	5.1	21
35	An efficient solventless synthesis of cycloalkeno-1,2,3-selenadiazoles, their antimicrobial studies, and comparison with parent semicarbazones. <i>Chemistry of Heterocyclic Compounds</i> , 2015, 51, 102-106.	1.2	20
36	Rapid microwave synthesis of white light emitting magic sized nano clusters of CdSe: role of oleic acid. <i>RSC Advances</i> , 2015, 5, 76733-76742.	3.6	19

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37	The reactions of tetrakis(triphenylphosphine)platinum and -palladium with selenium: X-Ray crystal structure of [Pt(Se ₂ CH ₂)(PPh ₃) ₂]. Heteroatom Chemistry, 1995, 6, 519-524.	0.7	18
38	Synthesis of shape and size controlled copper indium diselenide (CuInSe ₂) via extrusion of selenium from 1,2,3-selenadiazole. RSC Advances, 2016, 6, 86137-86150.	3.6	18
39	Efficient photo-catalytic oxidative degradation of organic dyes using CuInSe ₂ /TiO ₂ hybrid hetero-nanostructures. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 349, 73-90.	3.9	18
40	Cellular radioprotecting potential of glycyrrhizic acid, silver nanoparticle and their complex. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2011, 723, 51-57.	1.7	17
41	Core-shell ZnSe-CdSe quantum dots: a facile approach via decomposition of cyclohexeno-1,2,3-selenadiazole. RSC Advances, 2014, 4, 17526-17532.	3.6	17
42	Titanium dioxide (TiO ₂)-decorated silver indium diselenide (AgInSe ₂): novel nano-photocatalyst for oxidative dye degradation. Inorganic Chemistry Frontiers, 2018, 5, 2242-2256.	6.0	17
43	Nanostructured molybdenum dichalcogenides: a review. Materials Advances, 2022, 3, 5672-5697.	5.4	16
44	Synthesis and In-Vitro Antimycobacterial Studies of Cysteine Capped silver Nano-Particles. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2009, 39, 554-558.	0.6	15
45	In situ SeO ₂ -promoted synthesis of CdSe/PPy and Se/PPy nanocomposites and their utility in optical sensing for detection of Hg ²⁺ ions. RSC Advances, 2015, 5, 92818-92828.	3.6	15
46	Reaction Tailoring for Synthesis of Phase-Pure Nanocrystals of AgInSe ₂ , Cu ₃ SbSe ₃ and CuSbSe ₂ . ChemistrySelect, 2018, 3, 2854-2866.	1.5	14
47	Green and controlled synthesis of single family magic-size-cadmium selenide nanocrystals by the use of cyclo-hexeno-1,2,3-selenadiazole an organoselenium compound. CrystEngComm, 2010, 12, 2762.	2.6	13
48	Yellow emitting magic-size cadmium selenide nanocrystals via a simplified spray pyrolysis method. Current Applied Physics, 2011, 11, 809-811.	2.4	13
49	Solventless synthesis of new 4,5-disubstituted 1,2,3-selenadiazole derivatives and their antimicrobial studies. Cogent Chemistry, 2016, 2, 1144670.	2.5	12
50	Green Synthesis of Silver Nano-Particles by Use of Edible Oils. Journal of Nanoscience and Nanotechnology, 2018, 18, 386-393.	0.9	12
51	Synthesis of Azide-Functionalized Hydroxyl-Terminated Polybutadiene. Journal of Energetic Materials, 2016, 34, 440-449.	2.0	11
52	1,2,3-Selenadiazole-driven single family MSNCs of CdSe. New Journal of Chemistry, 2017, 41, 14713-14722.	2.8	11
53	Ternary metal selenide/MWCNT/PANI: potential n-type nano hybrids for room-temperature thermoelectric applications. Dalton Transactions, 2019, 48, 14497-14504.	3.3	11
54	Green-Synthesis of Cadmium Selenide Nanocrystals: The Scope of 1,2,3-Selendiazoles in the Synthesis of Magic-Size Nanocrystals and Quantum Dots. Journal of Nanoscience and Nanotechnology, 2011, 11, 5137-5142.	0.9	10

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55	Microwave synthesis of bis(cycloalkeno)-1,4-diselenins: a novel source of Se for CdSe QDs. <i>New Journal of Chemistry</i> , 2017, 41, 7438-7446.	2.8	10
56	Preparation of CdSe Quantum Dots via Thermolysis of a Novel Single Source Cd/Se Precursor Derived from Cyclohexeno-1,2,3-selenadiazole. <i>Chemistry Letters</i> , 2009, 38, 676-677.	1.3	9
57	Co/Co ₃ O ₄ Based Nanoparticles and Their Polymer Composites for Tuned Electromagnetic Interference Shielding Application. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2847-2857.	0.9	8
58	Biotoxicity of CdS/CdSe Core-Shell Nano-Structures. <i>Advances in Nanoparticles</i> , 2016, 05, 1-8.	1.0	8
59	Particle size-independent induction of leucism in <i>Drosophila melanogaster</i> by silver: nano vs. micro. <i>Metallomics</i> , 2016, 8, 1243-1254.	2.4	7
60	Surface Engineering of CdS Quantum Dots for Photocatalytic Applications under Direct Sunlight. <i>ChemistrySelect</i> , 2018, 3, 8491-8500.	1.5	6
61	Improved and Efficient Synthesis of Bis(cycloocteno)â€1,4â€Diselenin in Highâ€Boiling Solvents. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2006, 36, 787-791.	0.6	5
62	CdSeâ€PVP QDs for Degradation of Methylene Blue via Photocatalytic Oxidative Cleavage Under Mild Visible Light. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 143-155.	0.9	5
63	White Emitting Magic Sized CdSe Nanoclusters Using Edible Oils: A Green Approach. <i>Journal of Nanoscience and Nanotechnology</i> , 2020, 20, 2946-2954.	0.9	5
64	Instant Synthesis of White Lightâ€Emitting Cd Chalcogenide Nanoclusters Using Homogenization Method. <i>ChemistrySelect</i> , 2017, 2, 11775-11782.	1.5	4
65	Schiff base metal complexes driven quantum dots of ZnSe and CdSe. <i>Inorganic Chemistry Communication</i> , 2022, 135, 109070.	3.9	4
66	Synthesis, Characterization and Nanochemistry of Novel Antibacterial Copper (II) Semicarbazone Complexes. <i>ChemistrySelect</i> , 2018, 3, 7548-7560.	1.5	3
67	Synthesis of biologically active silver nanoparticles using N-containing compounds: the dual role of semicarbazones. <i>New Journal of Chemistry</i> , 2021, 45, 22369-22377.	2.8	3
68	Synthesis, Characterization And Bio-Evaluation Of Core-Shell QDs With ZnSe, CdS And CdSe Combinations. <i>Advanced Materials Letters</i> , 2017, 8, 352-361.	0.6	3
69	Ternary metal selenides by use of 4-nitroacetophenone selenosemicarbazone: Application of selenium Schiff base in nanotechnology. <i>Inorganic Chemistry Communication</i> , 2022, 139, 109334.	3.9	2
70	Studies on Effect of Nitrogen Rich Explosives on the Morphology, Thermal and Combustion Behaviour of B/KNO ₃ Composition. <i>Propellants, Explosives, Pyrotechnics</i> , 2022, 47, .	1.6	1