# Pawan Kumar Khanna

List of Publications by Year
in descending order

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|---|---|---|---|
| 70<br>papers | 2,489<br>citations | 236925<br>25<br>h-index | 206112<br>48<br>g-index |
| 71<br>all docs | 71<br>docs citations | 71<br>times ranked | 3278<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Schiff base metal complexes driven quantum dots of ZnSe and CdSe. Inorganic Chemistry Communication, 2022, 135, 109070. | 3.9 | 4 |
| 2 | Selenium nanoparticles: a review on synthesis and biomedical applications. Materials Advances, 2022, 3, 1415-1431. | 5.4 | 108 |
| 3 | Ternary metal selenides by use of 4-nitroacetophenone selenosemicarbazone: Application of selenium Schiff base in nanotechnology. Inorganic Chemistry Communication, 2022, 139, 109334. | 3.9 | 2 |
| 4 | Studies on Effect of Nitrogen Rich Explosives on the Morphology, Thermal and Combustion Behaviour of B/KNO<sub>3</sub> Composition. Propellants, Explosives, Pyrotechnics, 2022, 47, . | 1.6 | 1 |
| 5 | Nanostructured molybdenum dichalcogenides: a review. Materials Advances, 2022, 3, 5672-5697. | 5.4 | 16 |
| 6 | Synthesis of biologically active silver nanoparticles using N-containing compounds: the dual role of semicarbazones. New Journal of Chemistry, 2021, 45, 22369-22377. | 2.8 | 3 |
| 7 | Progress of hybrid nanocomposite materials for thermoelectric applications. Materials Advances, 2021, 2, 1927-1956. | 5.4 | 22 |
| 8 | Magic-sized CdSe nanoclusters: a review on synthesis, properties and white light potential. Materials Advances, 2021, 2, 1204-1228. | 5.4 | 32 |
| 9 | White Emitting Magic Sized CdSe Nanoclusters Using Edible Oils: A Green Approach. Journal of Nanoscience and Nanotechnology, 2020, 20, 2946-2954. | 0.9 | 5 |
| 10 | Co/Co<sub>3</sub>O<sub>4</sub> Based Nanoparticles and Their Polymer Composites for Tuned Electromagnetic Interference Shielding Application. Journal of Nanoscience and Nanotechnology, 2020, 20, 2847-2857. | 0.9 | 8 |
| 11 | Ternary metal selenide/MWCNT/PANI: potential n-type nanohybrids for room-temperature thermoelectric applications. Dalton Transactions, 2019, 48, 14497-14504. | 3.3 | 11 |
| 12 | CuSbSe<sub>2</sub>/TiO<sub>2</sub>: novel type-II heterojunction nano-photocatalyst. Materials Chemistry Frontiers, 2019, 3, 437-449. | 5.9 | 22 |
| 13 | La doped BaTiO3 nanostructures for room temperature sensing of NO2/NH3: Focus on La concentration and sensing mechanism. Vacuum, 2019, 166, 37-44. | 3.5 | 23 |
| 14 | Band Engineered I/III/Vâ€“VI Binary Metal Selenide/MWCNT/PANI Nanocomposites for Potential Room Temperature Thermoelectric Applications. ACS Applied Energy Materials, 2019, 2, 2680-2691. | 5.1 | 21 |
| 15 | Metal complexes driven from Schiff bases and semicarbazones forÂbiomedical and allied applications: a review. Materials Today Chemistry, 2019, 14, 100195. | 3.5 | 166 |
| 16 | Reaction Tailoring for Synthesis of Phaseâ€Pure Nanocrystals of AgInSe<sub>2</sub>, Cu<sub>3</sub>SbSe<sub>3</sub> and CuSbSe<sub>2</sub>. ChemistrySelect, 2018, 3, 2854-2866. | 1.5 | 14 |
| 17 | CdSeâ€“PVP QDs for Degradation of Methylene Blue via Photocatalytic Oxidative Cleavage Under Mild Visible Light. Journal of Nanoscience and Nanotechnology, 2018, 18, 143-155. | 0.9 | 5 |
| 18 | Surface Engineering of CdS Quantum Dots for Photocatalytic Applications under Direct Sunlight. ChemistrySelect, 2018, 3, 8491-8500. | 1.5 | 6 |

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|---|---|---|---|
| 19 | Titanium dioxide (TiO<sub>2</sub>)-decorated silver indium diselenide (AgInSe<sub>2</sub>): novel nano-photocatalyst for oxidative dye degradation. Inorganic Chemistry Frontiers, 2018, 5, 2242-2256. | 6.0 | 17 |
| 20 | Synthesis, Characterization and Nanochemistry of Novel Antibacterial Copper (II) Semicarbazone Complexes. ChemistrySelect, 2018, 3, 7548-7560. | 1.5 | 3 |
| 21 | Modified iron oxide nanoparticles as burn rate enhancer in composite solid propellants. Vacuum, 2018, 156, 483-491. | 3.5 | 21 |
| 22 | Probing the real-time photocatalytic activity of CdS QDs sensitized conducting polymers: Featured PTh, PPy and PANI. Vacuum, 2018, 155, 159-168. | 3.5 | 34 |
| 23 | Green Synthesis of Silver Nano-Particles by Use of Edible Oils. Journal of Nanoscience and Nanotechnology, 2018, 18, 386-393. | 0.9 | 12 |
| 24 | Efficient photo-catalytic oxidative degradation of organic dyes using CuInSe2/TiO2 hybrid hetero-nanostructures. Journal of Photochemistry and Photobiology A: Chemistry, 2017, 349, 73-90. | 3.9 | 18 |
| 25 | BaTiO3 nanostructures for H2S gas sensor: Influence of band-gap, size and shape on sensing mechanism. Vacuum, 2017, 146, 455-461. | 3.5 | 30 |
| 26 | Band engineered p-type RGOâ€“CdSâ€“PANI ternary nanocomposites for thermoelectric applications. Sustainable Energy and Fuels, 2017, 1, 1766-1773. | 4.9 | 26 |
| 27 | 1,2,3-Selenadiazole-driven single family MSNCs of CdSe. New Journal of Chemistry, 2017, 41, 14713-14722. | 2.8 | 11 |
| 28 | Microwave synthesis of bis(cycloalkeno)-1,4-diselenins: a novel source of Se for CdSe QDs. New Journal of Chemistry, 2017, 41, 7438-7446. | 2.8 | 10 |
| 29 | Synthesis of novel Zn(II) and Cd(II) complexes of semicarbazones and their utility as precursors for respective metal selenide quantum dots. Polyhedron, 2017, 123, 99-110. | 2.2 | 21 |
| 30 | Instant Synthesis of White Lightâ€Emitting Cd Chalcogenide Nanoclusters Using Homogenization Method. ChemistrySelect, 2017, 2, 11775-11782. | 1.5 | 4 |
| 31 | Synthesis, Characterization And Bio-Evaluation Of Core-Shell QDs With ZnSe, CdS And CdSe Combinations. Advanced Materials Letters, 2017, 8, 352-361. | 0.6 | 3 |
| 32 | Synthesis of shape and size controlled copper indium diselenide (CuInSe<sub>2</sub>) via extrusion of selenium from 1,2,3-selenadiazole. RSC Advances, 2016, 6, 86137-86150. | 3.6 | 18 |
| 33 | Particle size-independent induction of leucism in Drosophila melanogaster by silver: nano vs. micro. Metallomics, 2016, 8, 1243-1254. | 2.4 | 7 |
| 34 | Synthesis of Azide-Functionalized Hydroxyl-Terminated Polybutadiene. Journal of Energetic Materials, 2016, 34, 440-449. | 2.0 | 11 |
| 35 | Solventless synthesis of new 4,5-disubstituted 1,2,3-selenadiazole derivatives and their antimicrobial studies. Cogent Chemistry, 2016, 2, 1144670. | 2.5 | 12 |
| 36 | Photodegradation of organic dyes based on anatase and rutile TiO<sub>2</sub>nanoparticles. RSC Advances, 2016, 6, 2746-2759. | 3.6 | 117 |

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|---|---|---|---|
| 37 | Biotoxicity of CdS/CdSe Core-Shell Nano-Structures. Advances in Nanoparticles, 2016, 05, 1-8. | 1.0 | 8 |
| 38 | Impact of microwave irradiation on cyclo-octeno-1,2,3-selenadiazole: formation of selenium nanoparticles and their polymorphs. RSC Advances, 2015, 5, 44756-44763. | 3.6 | 32 |
| 39 | Transparent ZnO/polycarbonate nanocomposite for food packaging application. Nanocomposites, 2015, 1, 106-112. | 4.2 | 45 |
| 40 | A graphene titanium dioxide nanocomposite (GTNC): one pot green synthesis and its application in a solid rocket propellant. RSC Advances, 2015, 5, 63777-63785. | 3.6 | 44 |
| 41 | An efficient solventless synthesis of cycloalkeno-1,2,3-selenadiazoles, their antimicrobial studies, and comparison with parent semicarbazones. Chemistry of Heterocyclic Compounds, 2015, 51, 102-106. | 1.2 | 20 |
| 42 | In situ SeO<sub>2</sub>promoted synthesis of CdSe/PPy and Se/PPy nanocomposites and their utility in optical sensing for detection of Hg<sup>2+</sup>ions. RSC Advances, 2015, 5, 92818-92828. | 3.6 | 15 |
| 43 | Polymer based graphene/titanium dioxide nanocomposite (GTNC): an emerging and efficient thermoelectric material. Dalton Transactions, 2015, 44, 19248-19255. | 3.3 | 33 |
| 44 | Rapid microwave synthesis of white light emitting magic sized nano clusters of CdSe: role of oleic acid. RSC Advances, 2015, 5, 76733-76742. | 3.6 | 19 |
| 45 | Coreâ€“shell ZnSeâ€“CdSe quantum dots: a facile approach via decomposition of cyclohexeno-1,2,3-selenadiazole. RSC Advances, 2014, 4, 17526-17532. | 3.6 | 17 |
| 46 | Chemically designed Pt/PPy nano-composite for effective LPG gas sensor. Nanoscale, 2014, 6, 2746. | 5.6 | 33 |
| 47 | Single Step Synthesis of Nitroâ€Functionalized Hydroxylâ€Terminated Polybutadiene. Propellants, Explosives, Pyrotechnics, 2013, 38, 748-753. | 1.6 | 24 |
| 48 | Synthesis, Characterization, and Studies of PVA/Co-Doped ZnO Nanocomposite Films. International Journal of Green Nanotechnology, 2012, 4, 408-416. | 0.3 | 45 |
| 49 | Synthesis of Nanosilver Using a Vitamin C Derivative and Studies on Radiation Protection. Cancer Biotherapy and Radiopharmaceuticals, 2011, 26, 249-257. | 1.0 | 24 |
| 50 | Cellular radioprotecting potential of glyzyrrhizic acid, silver nanoparticle and their complex. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2011, 723, 51-57. | 1.7 | 17 |
| 51 | Silver nanoparticles embedded polymer sorbent for preconcentration of uranium from bio-aggressive aqueous media. Journal of Hazardous Materials, 2011, 186, 2051-2059. | 12.4 | 41 |
| 52 | â€œYellow emittingâ€•magic-size cadmium selenide nanocrystals via a simplified spray pyrolysis method. Current Applied Physics, 2011, 11, 809-811. | 2.4 | 13 |
| 53 | â€œGreenâ€•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 |
| 54 | Alumina-supported iron oxide nanoparticles as Fischerâ€“Tropsch catalysts: Effect of particle size of iron oxide. Journal of Molecular Catalysis A, 2010, 323, 84-90. | 4.8 | 188 |

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|---|---|---|---|
| 55 | â€œGreenâ€•and controlled synthesis of single family â€œmagic-sizeâ€•cadmium selenide nanocrystals by the use of cyclo-hexeno-1,2,3-selenadiazole an organoselenium compound. CrystEngComm, 2010, 12, 2762. | 2.6 | 13 |
| 56 | Effect of reducing agent on the synthesis of nickel nanoparticles. Materials Letters, 2009, 63, 1384-1386. | 2.6 | 34 |
| 57 | 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 |
| 58 | Preparation of CdSe Quantum Dots via Thermolysis of a Novel Single Source Cd/Se Precursor Derived from Cyclohexeno-1,2,3-selenadiazole. Chemistry Letters, 2009, 38, 676-677. | 1.3 | 9 |
| 59 | Synthesis of oleic acid capped copper nano-particles via reduction of copper salt by SFS. Materials Chemistry and Physics, 2008, 110, 21-25. | 4.0 | 55 |
| 60 | In situ synthesis of silver nano-particles in polymethylmethacrylate. Materials Chemistry and Physics, 2007, 104, 367-372. | 4.0 | 165 |
| 61 | The processing of CdSe/Polymer nanocomposites via solution organometallic chemistry. Materials Chemistry and Physics, 2006, 97, 288-294. | 4.0 | 37 |
| 62 | Improved and Efficient Synthesis of Bis(cycloocteno)â€1,4â€Diselenin in Highâ€Boiling Solvents. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 2006, 36, 787-791. | 0.6 | 5 |
| 63 | Synthesis and characterization of Ag/PVA nanocomposite by chemical reduction method. Materials Chemistry and Physics, 2005, 93, 117-121. | 4.0 | 352 |
| 64 | Synthesis and optical properties of CdS/PVA nanocomposites. Materials Chemistry and Physics, 2005, 94, 454-459. | 4.0 | 71 |
| 65 | Polyanilineâ€“CdS nanocomposite from organometallic cadmium precursor. Materials Chemistry and Physics, 2004, 87, 49-52. | 4.0 | 66 |
| 66 | Novel synthesis of silver selenide nano-powder from silver nitrate and organo-selenium compound. Materials Letters, 2004, 58, 1030-1034. | 2.6 | 40 |
| 67 | Production and luminescent properties of CdSe and CdS nanoparticleâ€“polymer composites. Journal of Luminescence, 2004, 109, 163-172. | 3.1 | 73 |
| 68 | Dinuclear diselenolenes derived from cycloalkeno-1,2,3-selenadiazoles and tetrakis(triphenylphosphine)palladium. Journal of the Chemical Society Dalton Transactions, 1999, , 791-794. | 1.1 | 41 |
| 69 | The reactions of tetrakis(triphenylphosphine)platinum and -palladium with selenium: X-Ray crystal structure of [Pt(Se2CH2)(PPh3)2]. Heteroatom Chemistry, 1995, 6, 519-524. | 0.7 | 18 |
| 70 | Synthesis and characterisation of new 2-bromovinyl selenides and their platinum group metal complexes. Journal of Organometallic Chemistry, 1993, 450, 109-114. | 1.8 | 23 |