# Bhagavatula L V Prasad

List of Publications by Year
in descending order



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|---|---|---|---|
| 79 papers | 3,871 citations | 32 h-index (136950) | 61 g-index (123424) |
| 84 all docs | 84 docs citations | 84 times ranked | 5572 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Digestive-Ripening Agents for Gold Nanoparticles:Â Alternatives to Thiols. Chemistry of Materials, 2003, 15, 935-942. | 6.7 | 297 |
| 2 | Wet chemical synthesis of metal oxide nanoparticles: a review. CrystEngComm, 2018, 20, 5091-5107. | 2.6 | 296 |
| 3 | Digestive Ripening of Thiolated Gold Nanoparticles:Â The Effect of Alkyl Chain Length. Langmuir, 2002, 18, 7515-7520. | 3.5 | 283 |
| 4 | Face-Centered Cubic and Hexagonal Closed-Packed Nanocrystal Superlattices of Gold Nanoparticles Prepared by Different Methodsâ€. Journal of Physical Chemistry B, 2003, 107, 7441-7448. | 2.6 | 225 |
| 5 | Natural Gum Reduced/Stabilized Gold Nanoparticles for Drug Delivery Formulations. Chemistry - A European Journal, 2008, 14, 10244-10250. | 3.3 | 203 |
| 6 | Gold nanoparticle superlattices. Chemical Society Reviews, 2008, 37, 1871. | 38.1 | 190 |
| 7 | Synthesis of gold, silver and their alloy nanoparticles using bovine serum albumin as foaming and stabilizing agent. Journal of Materials Chemistry, 2005, 15, 5115. | 6.7 | 168 |
| 8 | A direct method for the preparation of glycolipidâ€"metal nanoparticle conjugates: sophorolipids as reducing and capping agents for the synthesis of water re-dispersible silver nanoparticles and their antibacterial activity. New Journal of Chemistry, 2009, 33, 646-652. | 2.8 | 113 |
| 9 | Synthesis of silver nanoparticles by sophorolipids: Effect of temperature and sophorolipid structure on the size of particles. Journal of Chemical Sciences, 2008, 120, 515-520. | 1.5 | 103 |
| 10 | Digestive Ripening: A Fine Chemical Machining Process on the Nanoscale. Langmuir, 2017, 33, 9491-9507. | 3.5 | 96 |
| 11 | Gold Nanoparticles as Catalysts for Polymerization of Alkylsilanes to Siloxane Nanowires, Filaments, and Tubes. Journal of the American Chemical Society, 2003, 125, 10488-10489. | 13.7 | 95 |
| 12 | In situ synthesized BSA capped gold nanoparticles: Effective carrier of anticancer drug Methotrexate to MCF-7 breast cancer cells. Materials Science and Engineering C, 2014, 34, 158-167. | 7.3 | 89 |
| 13 | Cytotoxic and genotoxic assessment of glycolipid-reduced and -capped gold and silver nanoparticles. New Journal of Chemistry, 2010, 34, 294-301. | 2.8 | 87 |
| 14 | Multiutility Sophorolipids as Nanoparticle Capping Agents:â€‰ Synthesis of Stable and Water Dispersible Co Nanoparticles. Langmuir, 2007, 23, 11409-11412. | 3.5 | 82 |
| 15 | Time and Temperature Effects on the Digestive Ripening of Gold Nanoparticles: Is There a Crossover from Digestive Ripening to Ostwald Ripening?. Langmuir, 2014, 30, 10143-10150. | 3.5 | 79 |
| 16 | Reversible Transformations of Gold Nanoparticle Morphology. Langmuir, 2005, 21, 10280-10283. | 3.5 | 70 |
| 17 | A facile liquid foam based synthesis of nickel nanoparticles and their subsequent conversion to NicoreAgshell particles: structural characterization and investigation of magnetic properties. Journal of Materials Chemistry, 2004, 14, 2941. | 6.7 | 65 |
| 18 | Foam-based synthesis of cobalt nanoparticles and their subsequent conversion to CocoreAgshell nanoparticles by a simple transmetallation reaction. Journal of Materials Chemistry, 2004, 14, 1057. | 6.7 | 61 |

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|---|---|---|---|
| 19 | Nanogoldâ€Loaded Sharpâ€Edged Carbon Bullets as Plantâ€Gene Carriers. Advanced Functional Materials, 2010, 20, 2416-2423. | 14.9 | 61 |
| 20 | Biocompatible gellan gumâ€•reduced gold nanoparticles: cellular uptake and subacute oral toxicity studies. Journal of Applied Toxicology, 2011, 31, 411-420. | 2.8 | 59 |
| 21 | Field dependence of the magnetocaloric effect in core-shell nanoparticles. Journal of Applied Physics, 2010, 107, . | 2.5 | 58 |
| 22 | Bacterial synthesis of silicon/silica nanocomposites. Journal of Materials Chemistry, 2008, 18, 2601. | 6.7 | 57 |
| 23 | Many manifestations of digestive ripening: monodispersity, superlattices and nanomachining. New Journal of Chemistry, 2011, 35, 755-763. | 2.8 | 55 |
| 24 | pH-Dependent Single-Step Rapid Synthesis of CuO and Cu<sub>2</sub>O Nanoparticles from the Same Precursor. Crystal Growth and Design, 2014, 14, 4329-4334. | 3.0 | 55 |
| 25 | Preparation of Nearly Monodisperse Nickel Nanoparticles by a Facile Solution Based Methodology and Their Ordered Assemblies. Journal of Physical Chemistry C, 2009, 113, 3426-3429. | 3.1 | 54 |
| 26 | Solvent-Adaptable Silver Nanoparticles. Langmuir, 2005, 21, 822-826. | 3.5 | 48 |
| 27 | Effect of halogen addition to monolayer protected gold nanoparticles. Journal of Materials Chemistry, 2007, 17, 1614. | 6.7 | 46 |
| 28 | Fine control of nanoparticle sizes and size distributions: temperature and ligand effects on the digestive ripening process. Nanoscale, 2013, 5, 1768-1771. | 5.6 | 41 |
| 29 | Effect of digestive ripening agent on nanoparticle size in the digestive ripening process. Chemical Physics Letters, 2012, 525-526, 101-104. | 2.6 | 37 |
| 30 | Silver nanoparticle studded porous polyethylene scaffolds: bacteria struggle to grow on them while mammalian cells thrive. Nanoscale, 2011, 3, 2957. | 5.6 | 35 |
| 31 | Selfâ€Assembly of Bolaamphiphilic Molecules. Chemical Record, 2017, 17, 597-610. | 5.8 | 34 |
| 32 | Amphi-functional mesoporous silica nanoparticles for dye separation. Journal of Materials Chemistry A, 2017, 5, 14914-14921. | 10.3 | 33 |
| 33 | Impinging Jet Micromixer for Flow Synthesis of Nanocrystalline MgO: Role of Mixing/Impingement Zone. Industrial & Engineering Chemistry Research, 2013, 52, 17376-17382. | 3.7 | 32 |
| 34 | Influence of the Sophorolipid Molecular Geometry on their Selfâ€Assembled Structures. Chemistry - an Asian Journal, 2013, 8, 369-372. | 3.3 | 32 |
| 35 | Melting Characteristics of Superlattices of Alkanethiol-Capped Gold Nanoparticles: The â€œExcludedâ€• Story of Excess Thiol. Chemistry of Materials, 2010, 22, 1680-1685. | 6.7 | 31 |
| 36 | Vesicle Structures from Bolaamphiphilic Biosurfactants: Experimental and Molecular Dynamics Simulation Studies on the Effect of Unsaturation on Sophorolipid Self-Assemblies. Chemistry - A European Journal, 2014, 20, 6246-6250. | 3.3 | 31 |

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|---|---|---|---|
| 37 | Micelles versus Ribbons: How Congeners Drive the Selfâ€Assembly of Acidic Sophorolipid Biosurfactants. ChemPhysChem, 2017, 18, 643-652. | 2.1 | 29 |
| 38 | â€˜Clickingâ€™ molecular hooks on silica nanoparticles to immobilize catalytically important metal complexes: the case of gold catalyst immobilization. New Journal of Chemistry, 2010, 34, 2662. | 2.8 | 25 |
| 39 | Development of a multifunctional catalyst for a â€œrelayâ€•reaction. RSC Advances, 2013, 3, 2186. | 3.6 | 25 |
| 40 | Ultrathin Sheets of Metal or Metal Sulfide from Molecularly Thin Sheets of Metal Thiolates in Solution. Chemistry of Materials, 2014, 26, 3436-3442. | 6.7 | 23 |
| 41 | Surface Modification of Polymers for Tissue Engineering Applications: Arginine Acts as a Sticky Protein Equivalent for Viable Cell Accommodation. ACS Omega, 2018, 3, 4242-4251. | 3.5 | 23 |
| 42 | Synthesis of triangular gold nanoplates: Role of bromide ion and temperature. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 422, 181-190. | 4.7 | 21 |
| 43 | A nanocomposite of silver and thermo-associating polymer by a green route: a potential softâ€“hard material for controlled drug release. RSC Advances, 2014, 4, 10261. | 3.6 | 21 |
| 44 | Nearly Complete Oxidation of AuÂ° in Hydrophobized Nanoparticles to Au<sup>3+</sup> Ions by <i>N</i>-Bromosuccinimide. Journal of Physical Chemistry C, 2007, 111, 14348-14352. | 3.1 | 20 |
| 45 | A simple method for the preparation of ultra-small palladium nanoparticles and their utilization for the hydrogenation of terminal alkyne groups to alkanes. Nanoscale, 2015, 7, 872-876. | 5.6 | 20 |
| 46 | Digestive Ripening of Au Nanoparticles Using Multidentate Ligands. Langmuir, 2017, 33, 1943-1950. | 3.5 | 20 |
| 47 | Bromide ion mediated modification to digestive ripening process: Preparation of ultra-small Pd, Pt, Rh and Ru nanoparticles. Nano Research, 2016, 9, 2007-2017. | 10.4 | 18 |
| 48 | Surface Modification of Polymeric Scaffolds for Tissue Engineering Applications. Regenerative Engineering and Translational Medicine, 2018, 4, 75-91. | 2.9 | 18 |
| 49 | Preparation of metal oxide supported catalysts and their utilization for understanding the effect of a support on the catalytic activity. New Journal of Chemistry, 2018, 42, 402-410. | 2.8 | 17 |
| 50 | pH- and Time-Resolved <i>in Situ</i> SAXS Study of Self-Assembled Twisted Ribbons Formed by Elaidic Acid Sophorolipids. Langmuir, 2018, 34, 2121-2131. | 3.5 | 15 |
| 51 | Composites of plasma treated poly(etherimide) films with gold nanoparticles and lysine through layer by layer assembly: a â€œfriendly-roughâ€•surface for cell adhesion and proliferation for tissue engineering applications. Journal of Materials Chemistry, 2009, 19, 544-550. | 6.7 | 13 |
| 52 | Microwave-Assisted Batch and Continuous Flow Synthesis of Palladium Supported on Magnetic Nickel Nanocrystals and Their Evaluation as Reusable Catalyst. Crystal Growth and Design, 2017, 17, 5163-5169. | 3.0 | 13 |
| 53 | Generic and Scalable Method for the Preparation of Monodispersed Metal Sulfide Nanocrystals with Tunable Optical Properties. Langmuir, 2018, 34, 5788-5797. | 3.5 | 12 |
| 54 | <i>In situ</i> Electrochemical Transformation of Ni<sub>3</sub>S<sub>2</sub> and Ni<sub>3</sub>S<sub>2</sub>â€Ni from Sheets to Nanodisks: Towards Efficient Electrocatalysis for Hydrogen Evolution Reaction (HER). ChemistrySelect, 2016, 1, 6708-6712. | 1.5 | 11 |

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| 55 | Mechanistic Aspects of Methanol Electroâ€Oxidation Reaction through Cyclic Voltammetry: Is It Correct to Blame Carbon Monoxide for Catalyst Poisoning?. Energy Technology, 2020, 8, 1900955. | 3.8 | 11 |
| 56 | Microfluidic platform for continuous flow synthesis of triangular gold nanoplates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 443, 149-155. | 4.7 | 10 |
| 57 | Solvent-Less Solid State Synthesis of Dispersible Metal and Semiconducting Metal Sulfide Nanocrystals. ACS Sustainable Chemistry and Engineering, 2018, 6, 12006-12016. | 6.7 | 10 |
| 58 | Interfacialâ€Active Polymer Nanoparticles, Their Assemblies, and SERS Application. Macromolecular Chemistry and Physics, 2017, 218, 1700261. | 2.2 | 9 |
| 59 | Synthesis of Ag-glyconanoparticles using C-glycosides, their lectin binding studies and antibacterial activity. New Journal of Chemistry, 2013, 37, 3716. | 2.8 | 8 |
| 60 | Optical limiting properties of hydrophobic poly(etherimide) membranes embedded with isolated and aggregated gold nanostructures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 352, 79-83. | 4.7 | 7 |
| 61 | Surfactant-free synthesis of anisotropic gold nanostructures: can dicarboxylic acids alone act as shape directing agents?. RSC Advances, 2013, 3, 21641. | 3.6 | 7 |
| 62 | Dilution does the trick: Role of mixed solvent evaporation in controlling nanoparticle self-assembly. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2014, 447, 142-147. | 4.7 | 7 |
| 63 | Disordered but Efficient: Understanding the Role of Structure and Composition of the Coâ€“Pt Alloy on the Electrocatalytic Methanol Oxidation Reaction. Journal of Physical Chemistry C, 2021, 125, 7611-7624. | 3.1 | 7 |
| 64 | Preparation of Ni<sub>3</sub>S<sub>2</sub> and Ni<sub>3</sub>S<sub>2</sub>â€“Ni Nanosheets via Solution Based Processes. Crystal Growth and Design, 2015, 15, 2584-2588. | 3.0 | 6 |
| 65 | Preparation of Ag(Shell)â€“Au(Core) nanoparticles by anti-Galvanic reactions: Are capping agents the â€œreal heroesâ€• of reduction?. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 478, 30-35. | 4.7 | 6 |
| 66 | Carbon nano horn and bovine serum albumin hierarchical composite: towards bio-friendly superhydrophobic protein film surfaces. Journal of Materials Chemistry, 2008, 18, 3422. | 6.7 | 5 |
| 67 | Ligandâ€“Solvent Compatibility: The Unsung Hero in the Digestive Ripening Story. Langmuir, 2018, 34, 13680-13689. | 3.5 | 5 |
| 68 | Self-assembly of isomannide-based monoesters of C<sub>18</sub>-fatty acids and their cellular uptake studies. RSC Advances, 2016, 6, 72074-72079. | 3.6 | 4 |
| 69 | Development of a Smart Scaffold for Sequential Cancer Chemotherapy and Tissue Engineering. ACS Omega, 2020, 5, 20724-20733. | 3.5 | 4 |
| 70 | Unraveling the Role of Excess Ligand in Nanoparticle Pattern Formation from an Evaporatively Dewetting Nanofluid Droplet. Journal of Physical Chemistry C, 2020, 124, 23446-23453. | 3.1 | 4 |
| 71 | Selective electro-oxidation of phenol to 1,4-hydroquinone employing carbonaceous electrodes: surface modification is the key. New Journal of Chemistry, 2022, 46, 2518-2525. | 2.8 | 4 |
| 72 | 2D molecular precursor for a one-pot synthesis of semiconducting metal sulphide nanocrystals. Bulletin of Materials Science, 2018, 41, 1. | 1.7 | 3 |

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| 73 | Lamellar Bimetallic Thiolates: Synthesis, Characterization, and Their Utilization for the Preparation of Bimetallic Chalcogenide Nanocrystals through Mechanochemical Grinding. Advanced Materials Interfaces, 2021, 8, 2100898. | 3.7 | 3 |
| 74 | Amphifunctional Mesoporous Silica Nanoparticles with â€œMolecular Gatesâ€• for Controlled Drug Uptake and Release. Particle and Particle Systems Characterization, 0, , 2100185. | 2.3 | 2 |
| 75 | Nickel-catalyzed direct synthesis of dialkoxymethane ethers. Journal of Chemical Sciences, 2017, 129, 1153-1159. | 1.5 | 1 |
| 76 | Mechanistic Aspects of Methanol Electroâ€Oxidation Reaction through Cyclic Voltammetry: Is It Correct to Blame Carbon Monoxide for Catalyst Poisoning?. Energy Technology, 2020, 8, 2070054. | 3.8 | 1 |
| 77 | Synthesis of anisotropic rod-like gold nanostructures in organic media. Journal of Chemical Sciences, 2021, 133, 1. | 1.5 | 1 |
| 78 | Chemistry of Materials Celebrates the 80th Birthday of One of the Premier â€œChemists of Materialsâ€. Chemistry of Materials, 2014, 26, 3593-3594. | 6.7 | 0 |
| 79 | Accelerated in vitro model for occlusion of biliary stents: investigating the role played by dietary fibre. BMJ Innovations, 2018, 4, 39-45. | 1.7 | 0 |