

Tarasankar Pal

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260 papers	18,298 citations	65 h-index	129 g-index
266 ext. papers	19,565 ext. citations	5 avg, IF	6.97 L-index

#	Paper	IF	Citations
260	Interparticle coupling effect on the surface plasmon resonance of gold nanoparticles: from theory to applications. <i>Chemical Reviews</i> , 2007 , 107, 4797-862	68.1	2094
259	Photochemical green synthesis of calcium-alginate-stabilized Ag and Au nanoparticles and their catalytic application to 4-nitrophenol reduction. <i>Langmuir</i> , 2010 , 26, 2885-93	4	813
258	Silver nanoparticle catalyzed reduction of aromatic nitro compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002 , 196, 247-257	5.1	758
257	Synthesis and Size-Selective Catalysis by Supported Gold Nanoparticles: Study on Heterogeneous and Homogeneous Catalytic Process. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 4596-4605	3.8	688
256	Nitroarene reduction: a trusted model reaction to test nanoparticle catalysts. <i>Chemical Communications</i> , 2015 , 51, 9410-31	5.8	537
255	Catalytic Reduction of Aromatic Nitro Compounds by Coinage Metal Nanoparticles. <i>Langmuir</i> , 2001 , 17, 1800-1802	4	491
254	Bimetallic PtNi nanoparticles can catalyze reduction of aromatic nitro compounds by sodium borohydride in aqueous solution. <i>Applied Catalysis A: General</i> , 2004 , 268, 61-66	5.1	413
253	Growing Small Silver Particle as Redox Catalyst. <i>Journal of Physical Chemistry B</i> , 1999 , 103, 115-121	3.4	318
252	Synthesis of plant-mediated gold nanoparticles and catalytic role of biomatrix-embedded nanomaterials. <i>Environmental Science & Technology</i> , 2007 , 41, 5137-42	10.3	307
251	Solvent and Ligand Effects on the Localized Surface Plasmon Resonance (LSPR) of Gold Colloids. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 13963-13971	3.4	286
250	Immobilization and recovery of au nanoparticles from anion exchange resin: resin-bound nanoparticle matrix as a catalyst for the reduction of 4-nitrophenol. <i>Langmuir</i> , 2004 , 20, 9889-92	4	285
249	General method of synthesis for metal nanoparticles. <i>Journal of Nanoparticle Research</i> , 2004 , 6, 411-414	2.3	263
248	Synthesis of silver nanoshell-coated cationic polystyrene beads: A solid phase catalyst for the reduction of 4-nitrophenol. <i>Applied Catalysis A: General</i> , 2006 , 313, 41-48	5.1	255
247	Synthesis of Normal and Inverted GoldSilver CoreShell Architectures in β -Cyclodextrin and Their Applications in SERS. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 10806-10813	3.8	249
246	Magnetite nanoparticles with tunable gold or silver shell. <i>Journal of Colloid and Interface Science</i> , 2005 , 286, 187-94	9.3	246
245	Evolution of hierarchical hexagonal stacked plates of CuS from liquid-liquid interface and its photocatalytic application for oxidative degradation of different dyes under indoor lighting. <i>Environmental Science & Technology</i> , 2010 , 44, 6313-8	10.3	232
244	Reversible Formation and Dissolution of Silver Nanoparticles in Aqueous Surfactant Media. <i>Langmuir</i> , 1997 , 13, 1481-1485	4	231

243	Size Regime Dependent Catalysis by Gold Nanoparticles for the Reduction of Eosin. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 9266-9272	3.4	225
242	Size Controlled Synthesis of Gold Nanoparticles using Photochemically Prepared Seed Particles. <i>Journal of Nanoparticle Research</i> , 2001 , 3, 257-261	2.3	223
241	Silver nanoparticle decorated reduced graphene oxide (rGO) nanosheet: a platform for SERS based low-level detection of uranyl ion. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 8724-32	9.5	222
240	Seed Mediated Formation of Bimetallic Nanoparticles by UV Irradiation: A Photochemical Approach for the Preparation of Core-Shell Type Structures. <i>Nano Letters</i> , 2001 , 1, 319-322	11.5	197
239	Biomolecule induced nanoparticle aggregation: effect of particle size on interparticle coupling. <i>Journal of Colloid and Interface Science</i> , 2007 , 313, 724-34	9.3	178
238	Redox Catalytic Properties of Palladium Nanoparticles: Surfactant and Electron Donor/Acceptor Effects. <i>Langmuir</i> , 2000 , 16, 2457-2463	4	159
237	Morphology controlled synthesis of SnS nanomaterial for promoting photocatalytic reduction of aqueous Cr(VI) under visible light. <i>Langmuir</i> , 2014 , 30, 4157-64	4	155
236	Fluorescence quenching of 1-methylaminopyrene near gold nanoparticles: size regime dependence of the small metallic particles. <i>Chemical Physics Letters</i> , 2004 , 395, 366-372	2.5	153
235	Faceted metal and metal oxide nanoparticles: design, fabrication and catalysis. <i>Nanoscale</i> , 2015 , 7, 14159-90	7.90	146
234	A ternary Cu ₂ O-Cu-CuO nanocomposite: a catalyst with intriguing activity. <i>Dalton Transactions</i> , 2016 , 45, 3139-50	4.3	139
233	Fabrication of porous Co(OH) ₂ architecture at room temperature: a high performance supercapacitor. <i>Langmuir</i> , 2013 , 29, 9179-87	4	133
232	Silver and Gold Nanocluster Catalyzed Reduction of Methylene Blue by Arsine in a Micellar Medium. <i>Langmuir</i> , 2002 , 18, 8756-8760	4	132
231	Interaction of DNA bases with silver nanoparticles: assembly quantified through SPRs and SERS. <i>Journal of Colloid and Interface Science</i> , 2008 , 321, 288-93	9.3	122
230	Enlightening surface plasmon resonance effect of metal nanoparticles for practical spectroscopic application. <i>RSC Advances</i> , 2016 , 6, 86174-86211	3.7	121
229	Arsenic removal from real-life groundwater by adsorption on laterite soil. <i>Journal of Hazardous Materials</i> , 2008 , 151, 811-20	12.8	118
228	Self-assembly of silver nanoparticles: synthesis, stabilization, optical properties, and application in surface-enhanced Raman scattering. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 13436-44	3.4	118
227	Seed-mediated successive growth of gold particles accomplished by UV irradiation: a photochemical approach for size-controlled synthesis. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2001 , 140, 75-80	4.7	117
226	Morphological Evolution of Two-Dimensional MnO ₂ Nanosheets and Their Shape Transformation to One-Dimensional Ultralong MnO ₂ Nanowires for Robust Catalytic Activity. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 23976-23986	3.8	113

225	Redox-switchable copper(I) metallogel: a metal-organic material for selective and naked-eye sensing of picric acid. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 6308-16	9.5	112
224	Redox Transmetalation of Prickly Nickel Nanowires for Morphology Controlled Hierarchical Synthesis of Nickel/Gold Nanostructures for Enhanced Catalytic Activity and SERS Responsive Functional Material. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 1659-1673	3.8	112
223	Photochemical deposition of SERS active silver nanoparticles on silica gel and their application as catalysts for the reduction of aromatic nitro compounds. <i>Journal of Colloid and Interface Science</i> , 2004 , 272, 134-44	9.3	112
222	Preparation of nanosized gold particles in a biopolymer using UV photoactivation. <i>Journal of Colloid and Interface Science</i> , 2005 , 288, 396-401	9.3	108
221	UV Photoactivation for Size and Shape Controlled Synthesis and Coalescence of Gold Nanoparticles in Micelles. <i>Langmuir</i> , 2002 , 18, 7792-7797	4	107
220	Organized Media as Redox Catalysts. <i>Langmuir</i> , 1998 , 14, 4724-4730	4	104
219	A Gel-Based Approach To Design Hierarchical CuS Decorated Reduced Graphene Oxide Nanosheets for Enhanced Peroxidase-like Activity Leading to Colorimetric Detection of Dopamine. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 23790-23800	3.8	103
218	Improved photocatalytic activity of ZnO coupled CuO nanocomposites synthesized by reflux condensation method. <i>Journal of Alloys and Compounds</i> , 2015 , 625, 362-370	5.7	101
217	Removal of arsenic using hardened paste of Portland cement: batch adsorption and column study. <i>Water Research</i> , 2004 , 38, 3780-90	12.5	100
216	Redox Catalytic Property of Still-Growing and Final Palladium Particles: A Comparative Study. <i>Langmuir</i> , 1999 , 15, 3458-3463	4	100
215	Fabrication of superhydrophobic copper surface on various substrates for roll-off, self-cleaning, and water/oil separation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 22034-43	9.5	99
214	A Green Chemistry Approach for the Synthesis of Flower-like Ag-Doped MnO ₂ Nanostructures Probed by Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 1386-1392 ^{3.8}	3.8	94
213	Intrinsic peroxidase-like activity of mesoporous nickel oxide for selective cysteine sensing. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 6097-6105	7.3	91
212	Large-scale solid-state synthesis of Sn-SnO ₂ nanoparticles from layered SnO by sunlight: a material for dye degradation in water by photocatalytic reaction. <i>Environmental Science & Technology</i> , 2013 , 47, 2339-45	10.3	91
211	Studies on the Evolution of Silver Nanoparticles in Micelle by UV-Photoactivation. <i>Journal of Nanoparticle Research</i> , 2003 , 5, 577-587	2.3	89
210	Selective one-pot synthesis of copper nanorods under surfactantless condition. <i>Polyhedron</i> , 2006 , 25, 1263-1269	2.7	84
209	Mesoporous gold and palladium nanoleaves from liquid-liquid interface: enhanced catalytic activity of the palladium analogue toward hydrazine-assisted room-temperature 4-nitrophenol reduction. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9134-43	9.5	79
208	Shape-Selective Synthesis, Magnetic Properties, and Catalytic Activity of Single Crystalline MnO ₂ Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 16272-16277	3.8	79

207	A one pot synthesis of AuZnO nanocomposites for plasmon-enhanced sunlight driven photocatalytic activity. <i>New Journal of Chemistry</i> , 2014 , 38, 2999	3.6	73
206	Hierarchical Gold Flower with Sharp Tips from Controlled Galvanic Replacement Reaction for High Surface Enhanced Raman Scattering Activity. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 24301-24313	3.8	72
205	2D materials for renewable energy storage devices: Outlook and challenges. <i>Chemical Communications</i> , 2016 , 52, 13528-13542	5.8	71
204	Synthesis and Characterization of Superparamagnetic NiPt Nanoalloy. <i>Chemistry of Materials</i> , 2003 , 15, 3710-3715	9.6	71
203	Controlled interparticle spacing for surface-modified gold nanoparticle aggregates. <i>Langmuir</i> , 2008 , 24, 5562-8	4	69
202	Is Gold Really Softer than Silver? HSAB Principle Revisited. <i>Journal of Nanoparticle Research</i> , 2006 , 8, 111-116	2.3	68
201	Synthesis of selenium nanoparticle and its photocatalytic application for decolorization of methylene blue under UV irradiation. <i>Langmuir</i> , 2004 , 20, 7880-3	4	68
200	Remarkable Facet Selective Reduction of 4-Nitrophenol by Morphologically Tailored (111) Faceted CuO Nanocatalyst. <i>ACS Omega</i> , 2017 , 2, 1968-1984	3.9	67
199	Account of nitroarene reduction with size- and facet-controlled CuO-MnO ₂ nanocomposites. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9173-84	9.5	66
198	Fabrication of large-scale hierarchical ZnO hollow spheroids for hydrophobicity and photocatalysis. <i>Chemistry - A European Journal</i> , 2010 , 16, 7865-74	4.8	66
197	Au@Pd core-shell nanoparticles-decorated reduced graphene oxide: a highly sensitive and selective platform for electrochemical detection of hydrazine. <i>RSC Advances</i> , 2015 , 5, 51690-51700	3.7	65
196	An aminolytic approach toward hierarchical Ni(OH) ₂ nanoporous architectures: a bimodal forum for photocatalytic and surface-enhanced raman scattering activity. <i>Inorganic Chemistry</i> , 2010 , 49, 8813-27	5.1	64
195	Tin oxide with a p-n heterojunction ensures both UV and visible light photocatalytic activity. <i>RSC Advances</i> , 2014 , 4, 208-211	3.7	62
194	Silver nanoparticle aggregate formation by a photochemical method and its application to SERS analysis □ <i>Journal of Raman Spectroscopy</i> , 1999 , 30, 199-204	2.3	61
193	Redox-responsive copper(I) metallogel: a metal-organic hybrid sorbent for reductive removal of chromium(VI) from aqueous solution. <i>Langmuir</i> , 2014 , 30, 7833-41	4	60
192	Surface Plasmon Effect of Cu and Presence of n-p Heterojunction in Oxide Nanocomposites for Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 3780-3790	3.8	59
191	Synthesis of Au@Ag shell type bimetallic nanoparticles for single molecule detection in solution by SERS method. <i>Journal of Nanoparticle Research</i> , 2004 , 6, 53-61	2.3	58
190	Hierarchical AuCuO nanocomposite from redox transformation reaction for surface enhanced Raman scattering and clock reaction. <i>CrystEngComm</i> , 2014 , 16, 883-893	3.3	57

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- 188 Preformed ZnS nanoflower prompted evolution of CuS/ZnS p-n heterojunctions for exceptional visible-light driven photocatalytic activity. *New Journal of Chemistry*, **2015**, 39, 5628-5635 3.6 55
- 187 Fabrication of dog-bone shaped Au NR-core-Pt/Pd-shell trimetallic nanoparticle-decorated reduced graphene oxide nanosheets for excellent electrocatalysis. *Journal of Materials Chemistry A*, **2016**, 4, 3765-3776 4.3 54
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- 182 Fabrication and Functionalization of CuO for Tuning Superhydrophobic Thin Film and Cotton Wool. *Journal of Physical Chemistry C*, **2011**, 115, 20953-20963 3.8 52
- 181 Synthesis of highly fluorescent silver clusters on gold(I) surface. *Langmuir*, **2013**, 29, 2033-43 4 51
- 180 Resin-immobilized CuO and Cu nanocomposites for alcohol oxidation. *Organic Letters*, **2008**, 10, 5179-816.2 51
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171	New hydrothermal process for hierarchical TiO ₂ nanostructures. <i>CrystEngComm</i> , 2009 , 11, 1210	3.3	44
170	Sugar assisted evolution of mono- and bimetallic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005 , 264, 133-138	5.1	44
169	Spectrophotometric determination of arsenic via arsine generation and in-situ colour bleaching of methylene blue (MB) in micellar medium. <i>Talanta</i> , 2002 , 58, 935-42	6.2	44
168	Suitable Morphology Makes CoSn(OH) ₆ Nanostructure a Superior Electrochemical Pseudocapacitor. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 17987-98	9.5	43
167	Crystal-Plane-Dependent Etching of Cuprous Oxide Nanoparticles of Varied Shapes and Their Application in Visible Light Photocatalysis. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 24640-24653	3.8	43
166	Robust cubooctahedron Zn ₃ V ₂ O ₈ in gram quantity: a material for photocatalytic dye degradation in water. <i>CrystEngComm</i> , 2013 , 15, 6745	3.3	42
165	Synthesis of gold nanochains via photoactivation technique and their catalytic applications. <i>Journal of Colloid and Interface Science</i> , 2013 , 398, 13-21	9.3	40
164	Silver Hydrosol, Organosol, and Reverse Micelle-Stabilized Sol ^A Comparative Study. <i>Journal of Colloid and Interface Science</i> , 1998 , 202, 30-36	9.3	40
163	Selective and sensitive recognition of Cu ²⁺ in an aqueous medium: a surface-enhanced Raman scattering (SERS)-based analysis with a low-cost Raman reporter. <i>Chemistry - A European Journal</i> , 2012 , 18, 6335-42	4.8	39
162	Reduction of methylene blue (MB) by ammonia in micelles catalyzed by metal nanoparticles. <i>New Journal of Chemistry</i> , 2003 , 27, 656-662	3.6	39
161	Synergism of gold and silver invites enhanced fluorescence for practical applications. <i>RSC Advances</i> , 2016 , 6, 17683-17703	3.7	38
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159	A new stable Pd-Mn ₃ O ₄ nanocomposite as an efficient electrocatalyst for the hydrogen evolution reaction. <i>Chemical Communications</i> , 2016 , 52, 6095-8	5.8	38
158	Reversible generation of gold nanoparticle aggregates with changeable interparticle interactions by UV photoactivation. <i>Langmuir</i> , 2004 , 20, 575-8	4	37
157	Boron Precursor-Dependent Evolution of Differently Emitting Carbon Dots. <i>Langmuir</i> , 2017 , 33, 573-584		36
156	A facile synthesis of 1D nano structured selenium and Au decorated nano selenium: catalysts for the clock reaction. <i>RSC Advances</i> , 2013 , 3, 24313	3.7	36
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- ¹⁵¹ Silver organosol: synthesis, characterisation and localised surface plasmon resonance study. *New Journal of Chemistry*, **2005**, 29, 1527 3.6 35
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- ¹⁴⁹ Decoration of Fe₃O₄ Base Material with Pd Loaded CdS Nanoparticle for Superior Photocatalytic Efficiency. *Journal of Physical Chemistry C*, **2014**, 118, 11485-11494 3.8 33
- ¹⁴⁸ Understanding the Enhancement Mechanisms in the Surface-Enhanced Raman Spectra of the 1,10-Phenanthroline Molecule Adsorbed on a Bimetallic Nanocolloid. *Journal of Physical Chemistry C*, **2011**, 115, 10497-10509 3.8 33
- ¹⁴⁷ Synthesis of superparamagnetic beta-MnO₂ organosol: a photocatalyst for the oxidative phenol coupling reaction. *Inorganic Chemistry*, **2008**, 47, 5558-60 5.1 32
- ¹⁴⁶ Reduction of methylene blue by thiocyanate: kinetic and thermodynamic aspects. *Journal of Colloid and Interface Science*, **2006**, 299, 421-7 9.3 32
- ¹⁴⁵ Enhanced Catalytic Activity of Ag/Rh Bimetallic Nanomaterial: Evidence of an Ensemble Effect. *Journal of Physical Chemistry C*, **2016**, 120, 5457-5467 3.8 31
- ¹⁴⁴ Fluorescent Au(I)@Ag₂S Giant cluster for selective sensing of mercury(II) ion. *Dalton Transactions*, **2014**, 43, 11557-65 4.3 31
- ¹⁴³ Morphology controlled uranium oxide hydroxide hydrate for catalysis, luminescence and SERS studies. *CrystEngComm*, **2011**, 13, 2878 3.3 31
- ¹⁴² Solvent effect on the electronic spectra of azine dyes under alkaline condition. *Journal of Physical Chemistry A*, **2007**, 111, 578-83 2.8 31
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- ¹⁴⁰ Molecular Photonic Switches Employing Ions and Nanoparticles of Coinage and Platinum Metals. *Langmuir*, **2000**, 16, 6855-6861 4 31
- ¹³⁹ Soft template induced phase selective synthesis of Fe₂O₃ nanomagnets: one step towards peroxidase-mimic activity allowing colorimetric sensing of thioglycolic acid. *RSC Advances*, **2016**, 6, 32308-32318 3.7 30
- ¹³⁸ Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. *RSC Advances*, **2013**, 3, 21475 3.7 30
- ¹³⁷ Fabrication of a ZnO nanocolumnar thin film on a glass slide and its reversible switching from a superhydrophobic to a superhydrophilic state. *RSC Advances*, **2013**, 3, 5937 3.7 30
- ¹³⁶ Micelle-mediated UV-photoactivation route for the evolution of Pd_{core}Ag_{shell} and Pd_{core}Ag_{shell} bimetallics from photogenerated Pd nanoparticles. *Journal of Photochemistry and Photobiology A: Chemistry*, **2004**, 167, 17-22 4.7 30

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134	Exploration of Electrostatic Field Force in Surface-Enhanced Raman Scattering: An Experimental Investigation Aided by Density Functional Calculations. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 17862-17876	3.8	29
133	Light-induced hydrolysis of nitriles by photoproducted alpha-MnO ₂ nanorods on polystyrene beads. <i>Organic Letters</i> , 2007 , 9, 2191-3	6.2	29
132	Dipole-dipole plasmon interactions in self-assembly of gold organosol induced by glutathione. <i>New Journal of Chemistry</i> , 2006 , 30, 1333-1339	3.6	29
131	The tuning of metal enhanced fluorescence for sensing applications. <i>Dalton Transactions</i> , 2014 , 43, 10324-10327	4.7	28
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126	Dimerization of eosin on nanostructured gold surfaces: Size regime dependence of the small metallic particles. <i>Chemical Physics Letters</i> , 2005 , 412, 5-11	2.5	27
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119	Thermodynamic and Kinetics Aspects of Spherical MnO ₂ Nanoparticle Synthesis in Isoamyl Alcohol: An Ex Situ Study of Particles to One-Dimensional Shape Transformation. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 21173-21183	3.8	23
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114	Sensing trace arsenate by surface enhanced Raman scattering using a FeOOH doped dendritic Ag nanostructure. <i>Journal of Materials Chemistry A</i> , 2015 , 3, 10254-10257	13	21
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