

# Tarasankar Pal

## List of Publications by Year in descending order

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260  
papers

20,951  
citations

13087

68  
h-index

10724

138  
g-index

266  
all docs

266  
docs citations

266  
times ranked

24436  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interparticle Coupling Effect on the Surface Plasmon Resonance of Gold Nanoparticles: From Theory to Applications. <i>Chemical Reviews</i> , 2007, 107, 4797-4862.	23.0	2,396
2	Photochemical Green Synthesis of Calcium-Alginate-Stabilized Ag and Au Nanoparticles and Their Catalytic Application to 4-Nitrophenol Reduction. <i>Langmuir</i> , 2010, 26, 2885-2893.	1.6	908
3	Silver nanoparticle catalyzed reduction of aromatic nitro compounds. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2002, 196, 247-257.	2.3	850
4	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.	1.5	736
5	Nitroarene reduction: a trusted model reaction to test nanoparticle catalysts. <i>Chemical Communications</i> , 2015, 51, 9410-9431.	2.2	634
6	Catalytic Reduction of Aromatic Nitro Compounds by Coinage Metal Nanoparticles. <i>Langmuir</i> , 2001, 17, 1800-1802.	1.6	534
7	Bimetallic Pt?Ni nanoparticles can catalyze reduction of aromatic nitro compounds by sodium borohydride in aqueous solution. <i>Applied Catalysis A: General</i> , 2004, 268, 61-66.	2.2	454
8	Synthesis of Plant-Mediated Gold Nanoparticles and Catalytic Role of Biomatrix-Embedded Nanomaterials. <i>Environmental Science &amp; Technology</i> , 2007, 41, 5137-5142.	4.6	349
9	Growing Small Silver Particle as Redox Catalyst. <i>Journal of Physical Chemistry B</i> , 1999, 103, 115-121.	1.2	340
10	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.	1.2	331
11	General method of synthesis for metal nanoparticles. <i>Journal of Nanoparticle Research</i> , 2004, 6, 411-414.	0.8	328
12	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, 9889-9892.	1.6	304
13	Synthesis of Normal and Inverted Gold-Silver Core-Shell Architectures in $\beta$ -Cyclodextrin and Their Applications in SERS. <i>Journal of Physical Chemistry C</i> , 2007, 111, 10806-10813.	1.5	286
14	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.	2.2	273
15	Magnetite nanoparticles with tunable gold or silver shell. <i>Journal of Colloid and Interface Science</i> , 2005, 286, 187-194.	5.0	272
16	Silver Nanoparticle Decorated Reduced Graphene Oxide (rGO) Nanosheet: A Platform for SERS Based Low-Level Detection of Uranyl Ion. <i>ACS Applied Materials &amp; Interfaces</i> , 2013, 5, 8724-8732.	4.0	256
17	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 &amp; Technology</i> , 2010, 44, 6313-6318.	4.6	255
18	Size Controlled Synthesis of Gold Nanoparticles using Photochemically Prepared Seed Particles. <i>Journal of Nanoparticle Research</i> , 2001, 3, 257-261.	0.8	251

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19	Reversible Formation and Dissolution of Silver Nanoparticles in Aqueous Surfactant Media. Langmuir, 1997, 13, 1481-1485.	1.6	248
20	Size Regime Dependent Catalysis by Gold Nanoparticles for the Reduction of Eosin. Journal of Physical Chemistry B, 2001, 105, 9266-9272.	1.2	246
21	Seed Mediated Formation of Bimetallic Nanoparticles by UV Irradiation: A Photochemical Approach for the Preparation of "Core-Shell" Type Structures. Nano Letters, 2001, 1, 319-322.	4.5	218
22	Enlightening surface plasmon resonance effect of metal nanoparticles for practical spectroscopic application. RSC Advances, 2016, 6, 86174-86211.	1.7	201
23	Biomolecule induced nanoparticle aggregation: Effect of particle size on interparticle coupling. Journal of Colloid and Interface Science, 2007, 313, 724-734.	5.0	200
24	A ternary Cu <sub>2</sub> O@CuO nanocomposite: a catalyst with intriguing activity. Dalton Transactions, 2016, 45, 3139-3150.	1.6	178
25	Redox Catalytic Properties of Palladium Nanoparticles: A Surfactant and Electron Donor/Acceptor Effects. Langmuir, 2000, 16, 2457-2463.	1.6	171
26	Morphology Controlled Synthesis of SnS <sub>2</sub> Nanomaterial for Promoting Photocatalytic Reduction of Aqueous Cr(VI) under Visible Light. Langmuir, 2014, 30, 4157-4164.	1.6	171
27	Faceted metal and metal oxide nanoparticles: design, fabrication and catalysis. Nanoscale, 2015, 7, 14159-14190.	2.8	164
28	Fluorescence quenching of 1-methylaminopyrene near gold nanoparticles: size regime dependence of the small metallic particles. Chemical Physics Letters, 2004, 395, 366-372.	1.2	163
29	Fabrication of Porous γ-Co(OH) <sub>2</sub> Architecture at Room Temperature: A High Performance Supercapacitor. Langmuir, 2013, 29, 9179-9187.	1.6	147
30	Silver and Gold Nanocluster Catalyzed Reduction of Methylene Blue by Arsine in a Micellar Medium. Langmuir, 2002, 18, 8756-8760.	1.6	142
31	Interaction of DNA bases with silver nanoparticles: Assembly quantified through SPRS and SERS. Journal of Colloid and Interface Science, 2008, 321, 288-293.	5.0	139
32	Arsenic removal from real-life groundwater by adsorption on laterite soil. Journal of Hazardous Materials, 2008, 151, 811-820.	6.5	138
33	Redox-Switchable Copper(I) Metallogel: A Metal-Organic Material for Selective and Naked-Eye Sensing of Picric Acid. ACS Applied Materials & Interfaces, 2014, 6, 6308-6316.	4.0	137
34	Seed-mediated successive growth of gold particles accomplished by UV irradiation: a photochemical approach for size-controlled synthesis. Journal of Photochemistry and Photobiology A: Chemistry, 2001, 140, 75-80.	2.0	131
35	Improved photocatalytic activity of ZnO coupled CuO nanocomposites synthesized by reflux condensation method. Journal of Alloys and Compounds, 2015, 625, 362-370.	2.8	130
36	Morphological Evolution of Two-Dimensional MnO <sub>2</sub> Nanosheets and Their Shape Transformation to One-Dimensional Ultralong MnO <sub>2</sub> Nanowires for Robust Catalytic Activity. Journal of Physical Chemistry C, 2013, 117, 23976-23986.	1.5	126

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37	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.	1.5	124
38	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, 13436-13444.	1.2	123
39	Preparation of nanosized gold particles in a biopolymer using UV photoactivation. <i>Journal of Colloid and Interface Science</i> , 2005, 288, 396-401.	5.0	121
40	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.	1.5	120
41	Fabrication of Superhydrophobic Copper Surface on Various Substrates for Roll-off, Self-Cleaning, and Water/Oil Separation. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 22034-22043.	4.0	119
42	UV Photoactivation for Size and Shape Controlled Synthesis and Coalescence of Gold Nanoparticles in Micelles. <i>Langmuir</i> , 2002, 18, 7792-7797.	1.6	118
43	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, 134-144.	5.0	116
44	Removal of arsenic using hardened paste of Portland cement: batch adsorption and column study. <i>Water Research</i> , 2004, 38, 3780-3790.	5.3	116
45	Organized Media as Redox Catalysts. <i>Langmuir</i> , 1998, 14, 4724-4730.	1.6	112
46	A Green Chemistry Approach for the Synthesis of Flower-like Ag-Doped MnO <sub>2</sub> Nanostructures Probed by Surface-Enhanced Raman Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 1386-1392.	1.5	111
47	Redox Catalytic Property of Still-Growing and Final Palladium Particles: A Comparative Study. <i>Langmuir</i> , 1999, 15, 3458-3463.	1.6	105
48	Large-Scale Solid-State Synthesis of SnO <sub>2</sub> Nanoparticles from Layered SnO by Sunlight: a Material for Dye Degradation in Water by Photocatalytic Reaction. <i>Environmental Science &amp; Technology</i> , 2013, 47, 2339-2345.	4.6	105
49	Intrinsic peroxidase-like activity of mesoporous nickel oxide for selective cysteine sensing. <i>Journal of Materials Chemistry B</i> , 2014, 2, 6097.	2.9	105
50	Remarkable Facet Selective Reduction of 4-Nitrophenol by Morphologically Tailored (111) Faceted Cu <sub>2</sub> O Nanocatalyst. <i>ACS Omega</i> , 2017, 2, 1968-1984.	1.6	101
51	2D materials for renewable energy storage devices: Outlook and challenges. <i>Chemical Communications</i> , 2016, 52, 13528-13542.	2.2	96
52	Studies on the Evolution of Silver Nanoparticles in Micelle by UV-Photoactivation. <i>Journal of Nanoparticle Research</i> , 2003, 5, 577-587.	0.8	94
53	Selective one-pot synthesis of copper nanorods under surfactantless condition. <i>Polyhedron</i> , 2006, 25, 1263-1269.	1.0	92
54	Shape-Selective Synthesis, Magnetic Properties, and Catalytic Activity of Single Crystalline $\beta$ -MnO <sub>2</sub> Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2007, 111, 16272-16277.	1.5	92

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55	A one pot synthesis of Au@ZnO nanocomposites for plasmon-enhanced sunlight driven photocatalytic activity. <i>New Journal of Chemistry</i> , 2014, 38, 2999.	1.4	91
56	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 &amp; Interfaces</i> , 2014, 6, 9134-9143.	4.0	85
57	Account of Nitroarene Reduction with Size- and Facet-Controlled CuO-MnO <sub>2</sub> Nanocomposites. <i>ACS Applied Materials &amp; Interfaces</i> , 2014, 6, 9173-9184.	4.0	79
58	Synthesis of Selenium Nanoparticle and Its Photocatalytic Application for Decolorization of Methylene Blue under UV Irradiation. <i>Langmuir</i> , 2004, 20, 7880-7883.	1.6	77
59	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.	1.5	77
60	Redox-Responsive Copper(I) Metallogel: A Metal-Organic Hybrid Sorbent for Reductive Removal of Chromium(VI) from Aqueous Solution. <i>Langmuir</i> , 2014, 30, 7833-7841.	1.6	77
61	Tin oxide with a p-n heterojunction ensures both UV and visible light photocatalytic activity. <i>RSC Advances</i> , 2014, 4, 208-211.	1.7	76
62	Synthesis and Characterization of Superparamagnetic Ni~Pt Nanoalloy. <i>Chemistry of Materials</i> , 2003, 15, 3710-3715.	3.2	75
63	Controlled Interparticle Spacing for Surface-Modified Gold Nanoparticle Aggregates. <i>Langmuir</i> , 2008, 24, 5562-5568.	1.6	75
64	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.	1.5	75
65	Is Gold Really Softer than Silver? HSAB Principle Revisited. <i>Journal of Nanoparticle Research</i> , 2006, 8, 111-116.	0.8	74
66	An Aminolytic Approach toward Hierarchical Î <sup>2</sup> -Ni(OH) <sub>2</sub> Nanoporous Architectures: A Bimodal Forum for Photocatalytic and Surface-Enhanced Raman Scattering Activity. <i>Inorganic Chemistry</i> , 2010, 49, 8813-8827.	1.9	71
67	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.	1.7	71
68	Fabrication of Large-Scale Hierarchical ZnO Hollow Spheroids for Hydrophobicity and Photocatalysis. <i>Chemistry - A European Journal</i> , 2010, 16, 7865-7874.	1.7	68
69	Preformed ZnS nanoflower prompted evolution of CuS/ZnS p-n heterojunctions for exceptional visible-light driven photocatalytic activity. <i>New Journal of Chemistry</i> , 2015, 39, 5628-5635.	1.4	67
70	Synthesis of Au@Ag shelltype bimetallic nanoparticles for single molecule detection in solution by SERS method. <i>Journal of Nanoparticle Research</i> , 2004, 6, 53-61.	0.8	66
71	Hierarchical Au@CuO nanocomposite from redox transformation reaction for surface enhanced Raman scattering and clock reaction. <i>CrystEngComm</i> , 2014, 16, 883-893.	1.3	65
72	Silver nanoparticle aggregate formation by a photochemical method and its application to SERS analysis. <i>Journal of Raman Spectroscopy</i> , 1999, 30, 199-204.	1.2	64

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73	One pot synthesis of intriguing fluorescent carbon dots for sensing and live cell imaging. <i>Talanta</i> , 2016, 150, 253-264.	2.9	61
74	Dopamine Molecules on Au <sub>core</sub> Ag <sub>shell</sub> Bimetallic Nanocolloids: Fourier Transform Infrared, Raman, and Surface-Enhanced Raman Spectroscopy Study Aided by Density Functional Theory. <i>Journal of Physical Chemistry C</i> , 2009, 113, 6989-7002.	1.5	60
75	Fabrication of dog-bone shaped Au NR <sub>core</sub> Pt/Pd <sub>shell</sub> trimetallic nanoparticle-decorated reduced graphene oxide nanosheets for excellent electrocatalysis. <i>Journal of Materials Chemistry A</i> , 2016, 4, 3765-3776.	5.2	60
76	Anion effect in linear silver nanoparticle aggregation as evidenced by efficient fluorescence quenching and SERS enhancement. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2000, 131, 111-123.	2.0	59
77	Ligand-stabilized metal nanoparticles in organic solvent. <i>Journal of Colloid and Interface Science</i> , 2010, 341, 333-352.	5.0	59
78	Suitable Morphology Makes CoSn(OH) <sub>6</sub> Nanostructure a Superior Electrochemical Pseudocapacitor. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 17987-17998.	4.0	58
79	Resin-Immobilized CuO and Cu Nanocomposites for Alcohol Oxidation. <i>Organic Letters</i> , 2008, 10, 5179-5181.	2.4	57
80	Fabrication and Functionalization of CuO for Tuning Superhydrophobic Thin Film and Cotton Wool. <i>Journal of Physical Chemistry C</i> , 2011, 115, 20953-20963.	1.5	57
81	Alginate Gel-Mediated Photochemical Growth of Mono- and Bimetallic Gold and Silver Nanoclusters and Their Application to Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2009, 113, 7553-7560.	1.5	56
82	Methylene Blue-Cu <sub>2</sub> O Reaction Made Easy in Acidic Medium. <i>Journal of Physical Chemistry C</i> , 2012, 116, 25741-25747.	1.5	55
83	Spectrophotometric determination of arsenic via arsine generation and in-situ colour bleaching of methylene blue (MB) in micellar medium. <i>Talanta</i> , 2002, 58, 935-942.	2.9	54
84	Synthesis of Highly Fluorescent Silver Clusters on Gold(I) Surface. <i>Langmuir</i> , 2013, 29, 2033-2043.	1.6	54
85	Facile Synthesis of Unique Hexagonal Nanoplates of Zn/Co Hydroxy Sulfate for Efficient Electrocatalytic Oxygen Evolution Reaction. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 8134-8141.	4.0	53
86	Sugar assisted evolution of mono- and bimetallic nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2005, 264, 133-138.	2.3	52
87	Liquor ammonia mediated V( <sup>v</sup> ) insertion in thin Co <sub>3</sub> O <sub>4</sub> sheets for improved pseudocapacitors with high energy density and high specific capacitance value. <i>Chemical Communications</i> , 2015, 51, 15986-15989.	2.2	52
88	Biomolecule-mediated CdS-TiO <sub>2</sub> -reduced graphene oxide ternary nanocomposites for efficient visible light-driven photocatalysis. <i>Dalton Transactions</i> , 2015, 44, 193-201.	1.6	51
89	Facile Synthesis of Bimetallic Au-Pt, Pd-Pt, and Au-Pd Nanostructures: Enhanced Catalytic Performance of Pd-Pt Analogue towards Fuel Cell Application and Electrochemical Sensing. <i>Electrochimica Acta</i> , 2015, 180, 1075-1084.	2.6	51
90	Polarity Dependent Positional Shift of Probe in a Micellar Environment. <i>Langmuir</i> , 1996, 12, 3114-3121.	1.6	50

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91	Nanoparticle-Catalyzed Clock Reaction. <i>Journal of Physical Chemistry C</i> , 2008, 112, 3619-3626.	1.5	49
92	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.	1.5	49
93	Robust cubooctahedron Zn <sub>3</sub> V <sub>2</sub> O <sub>8</sub> in gram quantity: a material for photocatalytic dye degradation in water. <i>CrystEngComm</i> , 2013, 15, 6745.	1.3	49
94	Boron Precursor-Dependent Evolution of Differently Emitting Carbon Dots. <i>Langmuir</i> , 2017, 33, 573-584.	1.6	49
95	New hydrothermal process for hierarchical TiO <sub>2</sub> nanostructures. <i>CrystEngComm</i> , 2009, 11, 1210.	1.3	47
96	Selective and Sensitive Recognition of Cu <sup>2+</sup> 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, 6335-6342.	1.7	47
97	Synergism of gold and silver invites enhanced fluorescence for practical applications. <i>RSC Advances</i> , 2016, 6, 17683-17703.	1.7	47
98	Superb Dye Adsorption and Dye-Sensitized Change in Cu <sub>2</sub> O@Ag Crystal Faces in the Dark. <i>Journal of Physical Chemistry C</i> , 2016, 120, 21580-21588.	1.5	46
99	A New Route to Obtain Shape-Controlled Gold Nanoparticles from Au(III)- $\beta$ -diketonates. <i>Inorganic Chemistry</i> , 2004, 43, 5489-5491.	1.9	45
100	Synthesis of gold nanochains via photoactivation technique and their catalytic applications. <i>Journal of Colloid and Interface Science</i> , 2013, 398, 13-21.	5.0	45
101	Reduction of methylene blue (MB) by ammonia in micelles catalyzed by metal nanoparticles Presented at the national conference on "Self Aggregating System" Recent Advances held March 16th, 2002 in Calcutta, India.. <i>New Journal of Chemistry</i> , 2003, 27, 656-662.	1.4	44
102	A new stable Pd-Mn <sub>3</sub> O <sub>4</sub> nanocomposite as an efficient electrocatalyst for the hydrogen evolution reaction. <i>Chemical Communications</i> , 2016, 52, 6095-6098.	2.2	43
103	Silver Hydrosol, Organosol, and Reverse Micelle-Stabilized Sol-A Comparative Study. <i>Journal of Colloid and Interface Science</i> , 1998, 202, 30-36.	5.0	42
104	Size-Selective Synthesis and Stabilization of Gold Organosol in CnTAC-Enhanced Molecular Fluorescence from Gold-Bound Fluorophores. <i>Journal of Physical Chemistry B</i> , 2005, 109, 13166-13174.	1.2	42
105	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.	1.7	42
106	Silver organosol: synthesis, characterisation and localised surface plasmon resonance study. <i>New Journal of Chemistry</i> , 2005, 29, 1527.	1.4	41
107	Solvent Effect on the Electronic Spectra of Azine Dyes under Alkaline Condition. <i>Journal of Physical Chemistry A</i> , 2007, 111, 578-583.	1.1	41
108	Reversible Generation of Gold Nanoparticle Aggregates with Changeable Interparticle Interactions by UV Photoactivation. <i>Langmuir</i> , 2004, 20, 575-578.	1.6	40

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109	Synthesis and Characterization of N,N-Dimethyldodecylamine-Capped Au@Pd Core-Shell Nanoparticles in Toluene. <i>Langmuir</i> , 2005, 21, 10405-10408.	1.6	40
110	Silver nanoparticle anchored carbon dots for improved sensing, catalytic and intriguing antimicrobial activity. <i>Dalton Transactions</i> , 2015, 44, 20692-20707.	1.6	40
111	Exploitation of Electrostatic Field Force for Immobilization and Catalytic Reduction of o-Nitrobenzoic Acid to Anthranilic Acid on Resin-bound Silver Nanocomposites. <i>Langmuir</i> , 2006, 22, 7091-7095.	1.6	38
112	Reduction of methylene blue by thiocyanate: Kinetic and thermodynamic aspects. <i>Journal of Colloid and Interface Science</i> , 2006, 299, 421-427.	5.0	38
113	Hierarchical growth of ZnFe <sub>2</sub> O <sub>4</sub> for sensing applications. <i>New Journal of Chemistry</i> , 2016, 40, 1861-1871.	1.4	38
114	Micelle-mediated UV-photoactivation route for the evolution of Pd@Ag shell and Pd@Ag shell bimetallics from photogenerated Pd nanoparticles. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 167, 17-22.	2.0	37
115	Emission Behavior of 1-Methylaminopyrene in Aqueous Solution of Anionic Surfactants. <i>Langmuir</i> , 2004, 20, 5209-5213.	1.6	37
116	Synthesis, Characterization and Catalytic Application of Silver Nanoshell Coated Functionalized Polystyrene Beads. <i>Journal of Nanoscience and Nanotechnology</i> , 2007, 7, 2151-2156.	0.9	37
117	Understanding the Enhancement Mechanisms in the Surface-Enhanced Raman Spectra of the 1,10-Phenanthroline Molecule Adsorbed on a Au@Ag Bimetallic Nanocolloid. <i>Journal of Physical Chemistry C</i> , 2011, 115, 10497-10509.	1.5	37
118	Fluorescent Au@Ag <sub>2</sub> /Ag <sub>3</sub> giant cluster for selective sensing of mercury(II) ion. <i>Dalton Transactions</i> , 2014, 43, 11557.	1.6	37
119	Enhanced Catalytic Activity of Ag/Rh Bimetallic Nanomaterial: Evidence of an Ensemble Effect. <i>Journal of Physical Chemistry C</i> , 2016, 120, 5457-5467.	1.5	37
120	Decoration of Fe <sub>3</sub> O <sub>4</sub> Base Material with Pd Loaded CdS Nanoparticle for Superior Photocatalytic Efficiency. <i>Journal of Physical Chemistry C</i> , 2014, 118, 11485-11494.	1.5	36
121	Morphology controlled uranium oxide hydroxide hydrate for catalysis, luminescence and SERS studies. <i>CrystEngComm</i> , 2011, 13, 2878.	1.3	35
122	Benzoin derived reduced graphene oxide (rGO) and its nanocomposite: application in dye removal and peroxidase-like activity. <i>RSC Advances</i> , 2013, 3, 21475.	1.7	34
123	Mn <sub>3</sub> O <sub>4</sub> nanoparticles anchored to multiwall carbon nanotubes: a distinctive synergism for high-performance supercapacitors. <i>New Journal of Chemistry</i> , 2015, 39, 8373-8380.	1.4	34
124	Soft template induced phase selective synthesis of Fe <sub>2</sub> O <sub>3</sub> nanomagnets: one step towards peroxidase-mimic activity allowing colorimetric sensing of thioglycolic acid. <i>RSC Advances</i> , 2016, 6, 32308-32318.	1.7	34
125	Photochemical deposition of SERS active silver nanoparticles on silica gel. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2004, 162, 625-632.	2.0	33
126	Dipole-dipole plasmon interactions in self-assembly of gold organosol induced by glutathione. <i>New Journal of Chemistry</i> , 2006, 30, 1333-1339.	1.4	33



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127	Synthesis of Superparamagnetic $\text{Fe}_2\text{-MnO}_2$ Organosol: a Photocatalyst for the Oxidative Phenol Coupling Reaction. <i>Inorganic Chemistry</i> , 2008, 47, 5558-5560.	1.9	33
128	Photophysical aspects of molecular probes near nanostructured gold surfaces. <i>Physical Chemistry Chemical Physics</i> , 2009, 11, 3831.	1.3	33
129	Cysteine functionalized copper organosol: synthesis, characterization and catalytic application. <i>Nanotechnology</i> , 2006, 17, 5461-5468.	1.3	32
130	Light-Induced Hydrolysis of Nitriles by Photoproduced $\text{Fe-MnO}_2$ Nanorods on Polystyrene Beads. <i>Organic Letters</i> , 2007, 9, 2191-2193.	2.4	32
131	Selective Dopamine Chemosensing Using Silver-Enhanced Fluorescence. <i>Langmuir</i> , 2014, 30, 4120-4128.	1.6	32
132	Supported metal and metal oxide particles with proximity effect for catalysis. <i>RSC Advances</i> , 2020, 10, 35449-35472.	1.7	32
133	Molecular Photonic Switches Employing Ions and Nanoparticles of Coinage and Platinum Metals. <i>Langmuir</i> , 2000, 16, 6855-6861.	1.6	31
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.	1.5	31
135	The tuning of metal enhanced fluorescence for sensing applications. <i>Dalton Transactions</i> , 2014, 43, 1032-1047.	1.6	31
136	Enzyme mimicking inorganic hybrid $\text{Ni@MnO}_2$ for colorimetric detection of uric acid in serum samples. <i>RSC Advances</i> , 2016, 6, 83738-83747.	1.7	31
137	Fabrication of a ZnO nanocolumnar thin film on a glass slide and its reversible switching from a superhydrophobic to a superhydrophilic state. <i>RSC Advances</i> , 2013, 3, 5937.	1.7	30
138	Fabrication of MoS <sub>2</sub> decorated reduced graphene oxide sheets from solid Mo-precursor for electrocatalytic hydrogen evolution reaction. <i>Electrochimica Acta</i> , 2019, 313, 341-351.	2.6	30
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