Citation Report
List of articles citing

Photochemical green synthesis of calcium-alginate-stabilized Ag and Au nanoparticles and their catalytic application to 4-nitrophenol reduction

DOI: 10.1021/la902950x
Langmuir, 2010, 26, 2885-93.

Source: https://exaly.com/paper-pdf/47765735/citation-report.pdf
Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
861	Carboxylated Chitosan Nanocrystals: A Synthetic Route and Application as Superior Support for Gold-Catalyzed Reactions.		
860	Heterogeneous Catalysis On Demand: Mechanically Controlled Catalytic Activity of a Metal Surface.		
859	Immobilization of MetalOrganic Framework Nanocrystals for Advanced Design of Supported Nanocatalysts.		
858	Redox-active ionic-liquid-assisted one-step general method for preparing gold nanoparticle thin films: applications in refractive index sensing and catalysis. *Langmuir*, **2010**, 26, 17568-80	4	18
857	Formation of catalytic silver nanoparticles supported on branched polyethyleneimine derivatives. *Langmuir*, **2010**, 26, 17772-9	4	104
856	Kinetic Analysis of Catalytic Reduction of 4-Nitrophenol by Metallic Nanoparticles Immobilized in Spherical Polyelectrolyte Brushes. **2010**, 114, 8814-8820		938
855	Experimental evidence for the nanocage effect in catalysis with hollow nanoparticles. **2010**, 10, 3764-9		224
854	In situ assembly of well-dispersed Ag nanoparticles (AgNPs) on electrospun carbon nanofibers (CNFs) for catalytic reduction of 4-nitrophenol. **2011**, 3, 3357-63		501
853	Stimuli-responsive gels as reaction vessels and reusable catalysts. **2011**, 40, 427-48		342
852	Formation of Ag nanoparticle-doped foam-like polymer films at the liquid-liquid interface. **2011**, 115, 11113-8		25
851	Synthesis of gold nanoparticle catalysts based on a new water-soluble ionic polymer. **2011**, 50, 8038-45		51
850	NiCo2Alloys: Controllable Synthesis, Magnetic Properties, and Catalytic Applications in Reduction of 4-Nitrophenol. **2011**, 115, 16268-16274		174
849	In situ assembly of well-dispersed gold nanoparticles on electrospun silica nanotubes for catalytic reduction of 4-nitrophenol. **2011**, 47, 3906-8		264
848	Controlled synthesis of gold nanoparticles by fluorescent light irradiation. **2011**, 22, 285602		13
847	Catalytic Activity of Faceted Gold Nanoparticles Studied by a Model Reaction: Evidence for Substrate-Induced Surface Restructuring. **2011**, 1, 908-916		420
846	Preparation of Nickel Nanoparticles in Spherical Polyelectrolyte Brush Nanoreactor and Their Catalytic Activity. **2011**, 50, 13848-13853		66
845	Co-reduced Ag/Pd Bimetallic Nanoparticles: Surface Enrichment of Pd Revealed by Raman Spectroscopy. **2011**, 115, 14844-14851		41

844	Chitosan gelation induced by the in situ formation of gold nanoparticles and its processing into macroporous scaffolds. **2011**, 12, 179-86		56
843	One-step solvothermal synthesis of Ag-Fe3O4 composite as a magnetically recyclable catalyst for reduction of Rhodamine B. **2011**, 14, 68-73		101
842	In situ green synthesis of Au nanostructures on graphene oxide and their application for catalytic reduction of 4-nitrophenol. **2011**, 1, 1142		216
841	Green catalysts based on bio-inspired polymer coatings and electroless plating of silver nanoparticles. **2011**, 350, 97-102		27
840	Dry photochemical synthesis of hydrotalcite, Al2O3 and TiO2 supported gold nanoparticle catalysts. **2011**, 224, 8-15		22
839	Role of pH in the synthesis of 3-aminopropyl trimethoxysilane stabilized colloidal gold/silver and their alloy sols and their application to catalysis. *Materials Chemistry and Physics*, **2011**, 127, 203-207	4.4	29
838	Preparation of magnetic microspheres with thiol-containing polymer brushes and immobilization of gold nanoparticles in the brush layer. **2011**, 47, 1877-1884		20
837	Polysaccharides and phytochemicals: a natural reservoir for the green synthesis of gold and silver nanoparticles. **2011**, 5, 69-78		312
836	Biosynthesis of gold nanoparticles using diatoms silica-gold and EPS-gold bionanocomposite formation. *Journal of Nanoparticle Research*, **2011**, 13, 3207-3216	2.3	102
835	Protein-assisted synthesis route of metal nanoparticles: exploration of key chemistry of the biomolecule. *Journal of Nanoparticle Research*, **2011**, 13, 5485-5495	2.3	28
834	Supported quantum clusters of silver as enhanced catalysts for reduction. **2011**, 6, 123		72
833	Comparative study of amphiphilic hyperbranched and linear polymer stabilized organo-soluble gold nanoparticles as efficient recyclable catalysts in the biphasic reduction of 4-nitrophenol. **2011**, 49, 3826-3834		27
832	Metal-free-photocatalytic reduction of 4-nitrophenol by resin-supported dye under the visible irradiation. **2011**, 105, 317-325		136
831	Synthesis and assembly of gold nanoparticle-doped polymer solid foam films at the liquid/liquid interface and their catalytic properties. **2011**, 362, 81-8		38
830	Generation of alginate gel particles with AuNPs layers by polydimethylsiloxan template. **2011**, 5, 26502		5
829	Room Temperature Synthesis and Catalytic Properties of Surfactant-Modified Ag Nanoparticles. **2012**, 2012, 1-7		11
828	Synthesis, characterization and catalytic activity of gold nanoparticles biosynthesized with Rhizopus oryzae protein extract. **2012**, 14, 1322		287
827	Biogenic synthesis of photocatalytically active Ag/TiO2 and Au/TiO2 composites. **2012**, 14, 968		38

826	Formation of nano-plate silver particles in the presence of polyampholyte copolymer. **2012**, 414, 17-25		16
825	Photothermally enhanced catalytic activity of partially aggregated gold nanoparticles. *Journal of Nanoparticle Research*, **2012**, 14, 1	2.3	5
824	Thermally tunable catalytic and optical properties of gold-hydrogel nanocomposites. **2012**, 23, 275606		29
823	Amphiphilic hyperbranched copolymers bearing a hyperbranched core and a dendritic shell as novel stabilizers rendering gold nanoparticles with an unprecedentedly long lifetime in the catalytic reduction of 4-nitrophenol. **2012**, 22, 21173		57
822	Synthesis and Catalytic Properties of Silver Nanoparticle–linear Polyethylene Imine Colloidal Systems. **2012**, 116, 4594-4604		73
821	Tunable gold nanostructures with nanocapsules as template reaction vessels. **2012**, 2, 11668		6
820	Environmentally friendly light-driven synthesis of Ag nanoparticles in situ grown on magnetically separable biohydrogels as highly active and recyclable catalysts for 4-nitrophenol reduction. **2012**, 22, 23447		142
819	In situ loading of well-dispersed gold nanoparticles on two-dimensional graphene oxide/SiO2 composite nanosheets and their catalytic properties. **2012**, 4, 1641-6		110
818	Microfluidic one-step fabrication of radiopaque alginate microgels with in situ synthesized barium sulfate nanoparticles. **2012**, 12, 4781-6		28
817	In-situ formation of silver nanoparticles stabilized by amphiphilic star-shaped copolymer and their catalytic application. *Applied Surface Science*, **2012**, 258, 2655-2660	6.7	65
816	Synthesis of CuO@NiO core-shell nanoparticles by homogeneous precipitation method. *Journal of Alloys and Compounds*, **2012**, 537, 232-241	5.7	56
815	Catalysis using gold nanoparticles decorated on nanocrystalline cellulose. **2012**, 4, 997-1002		158
814	Synthesis of silicate sol–gel matrix embedded silver nanostructures: Efficient nanocatalyst for the reduction of 4-nitrophenol. **2012**, 204-206, 16-22		19
813	Palladium nanoparticles decorated carbon nanotubes: facile synthesis and their applications as highly efficient catalysts for the reduction of 4-nitrophenol. **2012**, 14, 586		137
812	Au/graphene hydrogel: synthesis, characterization and its use for catalytic reduction of 4-nitrophenol. **2012**, 22, 8426		748
811	Tubular nanocomposite catalysts based on size-controlled and highly dispersed silver nanoparticles assembled on electrospun silica nanotubes for catalytic reduction of 4-nitrophenol. **2012**, 22, 1387-1395		225
810	Synthesis and characterization of silver nanoparticles supported on surface-modified poly(N-vinylimidazale) as catalysts for the reduction of 4-nitrophenol. **2012**, 365, 128-135		70
809	Gold nanoparticles stabilized on nanocrystalline magnesium oxide as an active catalyst for reduction of nitroarenes in aqueous medium at room temperature. **2012**, 14, 3164		287

808	Facile route fabrication of nano-Ni core mesoporous-silica shell particles with high catalytic activity towards 4-nitrophenol reduction. **2012**, 14, 4601		99
807	Synthesis of green nanocatalysts and industrially important green reactions. **2012**, 5, 707-725		35
806	Ag-nanoparticle-loaded mesoporous silica: spontaneous formation of Ag nanoparticles and mesoporous silica SBA-15 by a one-pot strategy and their catalytic applications. *Langmuir*, **2012**, 28, 4768-4775		97
805	Charakterisierung Nanopartikel-katalysierter Reaktionen durch oberflächenverstärkte Raman-Streuung. **2012**, 124, 7712-7716		13
804	Characterizing the kinetics of nanoparticle-catalyzed reactions by surface-enhanced Raman scattering. **2012**, 51, 7592-6		143
803	Bismuth hexagons: facile mass synthesis, stability and applications. **2012**, 13, 2162-9		13
802	Environmentally Friendly Photocatalytic Synthesis of Porphyrin/Ag Nanoparticles/Reduced Graphene Oxide Ternary Nanohybrids Having Superior Catalytic Activity. **2012**, 77, 545-550		20
801	Cellulose/silver nanoparticles composite microspheres: eco-friendly synthesis and catalytic application. **2012**, 19, 1239-1249		100
800	Tailoring the structure, composition, optical properties and catalytic activity of Ag-Au nanoparticles by the galvanic replacement reaction. **2012**, 531, 188-192		40
799	Correlation between catalytic activity and surface ligands of monolayer protected gold nanoparticles. **2012**, 368, 77-85		26
798	Formation of Au nanoparticle-doped PVK microcapsules and foam-like structures at the liquid/liquid interface. *Materials Chemistry and Physics*, **2012**, 132, 916-922	4.4	8
797	Alginate hydrogel microbeads incorporated with Ag nanoparticles obtained by electrochemical method. *Materials Chemistry and Physics*, **2012**, 133, 182-189	4.4	43
796	Nano silver impregnation on commercial TiO2 and a comparative photocatalytic account to degrade malachite green. **2012**, 89, 147-159		72
795	Recyclable plant tannin-chelated Rh(III) complex catalysts for aqueous-organic biphasic hydrogenation of quinoline. **2012**, 87, 1104-1110		2
794	Novel alginate based nanocomposite hydrogels with incorporated silver nanoparticles. **2012**, 23, 99-107		44
793	Rod-Like Co2P Nanostructures: Improved Synthesis, Catalytic Property and Application in the Removal of Heavy Metal. **2013**, 24, 1067-1080		12
792	Bio-inspired fabrication of silver nanoparticles on nanostructured silica: characterization and application as a highly efficient hydrogenation catalyst. **2013**, 15, 2548		90
791	Identification of site requirements for reduction of 4-nitrophenol using gold nanoparticle catalysts. **2013**, 3, 2976		77

790	Photomorphogenesis of β-globulin: effect on sequential ordering and knock out of gold nanoparticles array. **2013**, 3, 13463		1
789	Aqueous synthesis of silver nanoparticles stabilized by cationic cellulose and their catalytic and antibacterial activities. **2013**, 3, 19319		22
788	A facile one-step way to anchor noble metal (Au, Ag, Pd) nanoparticles on a reduced graphene oxide mat with catalytic activity for selective reduction of nitroaromatic compounds. **2013**, 15, 6819		148
787	Investigation into the catalytic activity of porous platinum nanostructures. *Langmuir*, **2013**, 29, 11431-9	4	56
786	Revisiting catalytic model reaction p-nitrophenol/NaBH4 using metallic nanoparticles coated on polymeric spheres. **2013**, 5, 11919-27		142
785	Biosynthesis of silver nanoparticles using chitosan immobilized Bacillus cereus: Nanocatalytic studies. **2013**, 188, 81-88		20
784	Synthesis, characterization, and catalytic activity for hybrids of multi-walled carbon nanotube and amphiphilic poly(propyleneimine) dendrimer immobilized with silver and palladium nanoparticle. **2013**, 396, 101-11		24
783	Preparation of well-defined dendrimer encapsulated ruthenium nanoparticles and their evaluation in the reduction of 4-nitrophenol according to the Langmuir-Hinshelwood approach. *Langmuir*, **2013**, 29, 13433-42	4	131
782	Protein mediated synthesis of gold nanobiocatalyst by microwave: A high efficient catalytic activity for the selective oxidation of benzyl alcohol. **2013**, 380, 78-83		3
781	A Facile Synthesis of Multifunctional Iron Oxide@Ag Core-Shell Nanoparticles and Their Catalytic Applications. **2013**, 2013, 6126-6136		41
780	Gold-Based Core/Shell and Hollow Nanoparticles. **2013**, 1		
779	Room-temperature synthesis and enhanced catalytic performance of silver-reduced graphene oxide nanohybrids. *Journal of Nanoparticle Research*, **2013**, 15, 1	2.3	23
778	Reduced state carbon dots as both reductant and stabilizer for the synthesis of gold nanoparticles. **2013**, 64, 499-506		79
777	Size-Dependent Hydrogenation of p-Nitrophenol with Pd Nanoparticles Synthesized with Poly(amido)amine Dendrimer Templates. **2013**, 117, 22644-22651		150
776	Low cost nano materials crystallize in the NiAs structure type as an alternative to the noble metals in the hydrogenation process. **2013**, 3, 22887		16
775	Electrochemical biosensing platform based on a hemocyanin-Au@QC NP-carbon black hybrid nano-composite film. **2013**, 5, 3168		3
774	In situ preparation, characterization, magnetic and catalytic studies of surfactant free RGO/Fe(x)Co(100-x) nanocomposites. **2013**, 42, 7936-42		8
773	A facile approach to TiO2 colloidal spheres decorated with Au nanoparticles displaying well-defined sizes and uniform dispersion. *Langmuir*, **2013**, 29, 1642-9	4	89

772	Efficient electrosynthesis of highly active Cu3(BTC)2-MOF and its catalytic application to chemical reduction. *Microporous and Mesoporous Materials*, **2013**, 168, 57-64	5.3	151
771	Core-shell capsules based on supramolecular hydrogels show shell-related erosion and release due to confinement. **2013**, 13, 77-83		8
770	Honeycomb-like thin films of polystyrene-block-poly(2-vinylpyridine) embedded with gold or silver nanoparticles formed at the planer liquid/liquid interface. **2013**, 402, 75-85		30
769	Self-organized macroporous thin carbon films for supported metal catalysis. **2013**, 427, 83-94		23
768	Photocatalytic Degradation of Methyl Orange with Commercial Organic Pigment Sensitized TiO2. **2013**, 18, 478-485		16
767	Interfacial assembly of Pt nanoparticle-doped free-standing polymer foam films and their catalytic performance. **2013**, 419, 201-208		12
766	Assembly of foam and honeycomb films of a diblock copolymer doped with Au or Ag nanoparticles at the liquid/liquid interface and their catalytic properties. *Materials Chemistry and Physics*, **2013**, 142, 259-267	4.4	9
765	Catalytic reduction of 4-nitrophenol by silver nanoparticles stabilized on environmentally benign macroscopic biopolymer hydrogel. **2013**, 132, 374-7		146
764	Preparation and enhanced visible light catalytic activity of TiO2 sensitized with Benzimidazolone Yellow H3G. **2013**, 98, 358-366		26
763	Nanocomposite of montmorillonite and silver nanoparticles: Characterization and application in catalytic reduction of 4-nitrophenol. *Materials Chemistry and Physics*, **2013**, 140, 493-498	4.4	36
762	Silver nanoparticle-alginate composite beads for point-of-use drinking water disinfection. **2013**, 47, 3959-65		126
761	Hyperbranched polymer mediated fabrication of water soluble carbon nanotube-metal nanoparticle hybrids. **2013**, 5, 2915-20		27
760	Preparation of bimetallic nanoparticles using a facile green synthesis method and their application. *Langmuir*, **2013**, 29, 4901-7	4	132
759	Gold nanoparticles immobilized in hyperbranched polyethylenimine modified polyacrylonitrile fiber as highly efficient and recyclable heterogeneous catalysts for the reduction of 4-nitrophenol. **2013**, 1, 5923		120
758	Polymer nanoparticles with dendrimer-Ag shell and its application in catalysis. **2013**, 11, 346-352		20
757	Modifiers-assisted formation of nickel nanoparticles and their catalytic application to p-nitrophenol reduction. **2013**, 15, 560-569		221
756	Bimetallic AuAg nanoparticles: enhancing the catalytic activity of Au for reduction reactions in the liquid phase by addition of Ag. **2013**, 14, 1577-81		17
755	Influence of doping on semiconductor nanocrystals mediated charge transfer and photocatalytic organic reaction. **2013**, 49, 6018-20		28

754	Preparation of yolk-shell Fe(x)O(y)/Pd@mesoporous SiO2 composites with high stability and their application in catalytic reduction of 4-nitrophenol. **2013**, 5, 5896-904		90
753	Synthesis, properties and applications of flowerlike NiO composite microstructures. **2013**, 1, 8438		55
752	Titania-supported silver nanoparticles: An efficient and reusable catalyst for reduction of 4-nitrophenol. *Applied Surface Science*, **2013**, 273, 676-683	6.7	57
751	One-pot green synthesis of silver/iron oxide composite nanoparticles for 4-nitrophenol reduction. **2013**, 248-249, 394-400		238
750	Synthesis and characterization of Cu, Ag and Au dendrimer-encapsulated nanoparticles and their application in the reduction of 4-nitrophenol to 4-aminophenol. **2013**, 389, 260-7		214
749	CO2-Fixation on Aliphatic 1,2-Diamines to Form Cyclic Ureas, Catalyzed by Ceria Nanoparticles that were Obtained by Templating with Alginate. **2013**, 5, 1020-1023		27
748	Size effect of gold nanoparticles in catalytic reduction of p-nitrophenol with NaBH4. **2013**, 18, 12609-20		127
747	Extracellular polysaccharide production by a novel osmotolerant marine strain of Alteromonas macleodii and its application towards biomineralization of silver. **2014**, 9, e98798		28
746	Heparin assisted photochemical synthesis of gold nanoparticles and their performance as SERS substrates. **2014**, 15, 19239-52		17
745	Biological Synthesis of Metallic Nanoparticles by Bacteria, Fungi and Plants. **2014**, 05,		263
744	. **2014**,		10
743	Reduction of 4-Nitrophenol as a Model Reaction for Nanocatalysis. **2014**, 333-405		2
742	Unprecedented catalytic performance in disordered nickel niobate through photo-synergistic promotion. **2014**, 50, 4200-2		15
741	Effects of SC-560 in combination with cisplatin or taxol on angiogenesis in human ovarian cancer xenografts. **2014**, 15, 19265-80		9
740	Facile synthesis of reduced graphene oxide/Pt-Ni nanocatalysts: their magnetic and catalytic properties. **2014**, 4, 48563-48571		44
739	Facile synthesis of AuPt alloy nanoparticles in polyelectrolyte multilayers with enhanced catalytic activity for reduction of 4-nitrophenol. *Langmuir*, **2014**, 30, 15345-50	4	48
738	A novel magnetic Fe@Au core-shell nanoparticles anchored graphene oxide recyclable nanocatalyst for the reduction of nitrophenol compounds. **2014**, 48, 210-7		510
737	Au nanoparticles decorated Kapok fiber by a facile noncovalent approach for efficient catalytic decoloration of Congo Red and hydrogen production. **2014**, 237, 336-343		26

736	Surfactant-free synthesis of CuNi nanocrystals and their application for catalytic reduction of 4-nitrophenol. **2014**, 390, 29-36		44
735	Surface modification of cotton fabrics for antibacterial application by coating with AgNPs-alginate composite. **2014**, 108, 145-52		98
734	Multifunctional Co(0.85)Se-Fe(3)O(4) nanocomposites: controlled synthesis and their enhanced performances for efficient hydrogenation of p-nitrophenol and adsorbents. **2014**, 10, 717-24		68
733	A facile synthesis of graphene-like cobalt–nickel double hydroxide nanocomposites at room temperature and their excellent catalytic and adsorption properties. *Journal of Nanoparticle Research*, **2014**, 16, 1	2.3	17
732	Facile synthesis of highly catalytic activity NiCoPdP composite for reduction of the p-Nitrophenol. **2014**, 470, 89-96		47
731	Catalytic Reduction of 4-Nitrophenol Using Gold Nanoparticles Supported on Carbon Nanotubes. **2014**, 3, M18-M20		41
730	Dendrimer-templated Pd nanoparticles and Pd nanoparticles synthesized by reverse microemulsions as efficient nanocatalysts for the Heck reaction: A comparative study. **2014**, 415, 57-69		28
729	Main-chain organometallic microporous polymers bearing triphenylene-tris(N-heterocyclic carbene)-gold species: catalytic properties. **2014**, 20, 5746-51		37
728	One-pot synthesis of Ag-iron oxide/reduced graphene oxide nanocomposite via hydrothermal treatment. **2014**, 446, 102-108		39
727	Ag(I)-bovine serum albumin hydrosol-mediated formation of Ag3PO4/reduced graphene oxide composites for visible-light degradation of Rhodamine B solution. **2014**, 417, 293-300		12
726	One-pot synthesis of gelatin-based, slow-release polymer microparticles containing silver nanoparticles and their application in anti-fouling paint. **2014**, 77, 1226-1232		20
725	Palladium-Nanoparticle-Linked Organic Frameworks: Heterogeneous Recyclable Catalysts in Aqueous Medium. **2014**, 6, 1641-1651		12
724	Green synthesis of chondroitin sulfate-capped silver nanoparticles: characterization and surface modification. **2014**, 110, 195-202		45
723	RhNPs/SBA-NH2: a high-performance catalyst for aqueous phase reduction of nitroarenes to aminoarenes at room temperature. **2014**, 4, 1813-1819		33
722	Alginate mediate for synthesis controllable sized AgNPs. **2014**, 111, 10-7		49
721	Catalytic activity of Fe@Ag nanoparticle involved calcium alginate beads for the reduction of nitrophenols. **2014**, 190, 133-138		90
720	Biodegradable sodium alginate-based semi-interpenetrating polymer network hydrogels for antibacterial application. **2014**, 102, 3196-206		30
719	Functionalized Carbon Spheres for Extraction of Nanoparticles and Catalyst Support in Water. **2014** , 2, 2675-2682		48

718	Facile water-based synthesis and catalytic properties of platinum–gold alloy nanocubes. **2014**, 16, 1606-1610		58
717	Application of Nb2O5 nanowire supported Pd nanoparticles in reduction of nitro-aromatic compounds as efficient and stable catalysts. **2014**, 4, 45088-45094		7
716	Palladium nanoparticles immobilized on core–shell magnetic fibers as a highly efficient and recyclable heterogeneous catalyst for the reduction of 4-nitrophenol and Suzuki coupling reactions. **2014**, 2, 19696-19706		127
715	Urchin-like NixPy hollow superstructures: mild solvothermal synthesis and enhanced catalytic performance for the reduction of 4-nitrophenol. **2014**, 16, 2113		26
714	Versatile Ag dendrites: simple galvanostatic deposition and applications. *New Journal of Chemistry*, **2014**, 38, 1738	3.6	6
713	In situ generated copper nanoparticle catalyzed reduction of 4-nitrophenol. *New Journal of Chemistry*, **2014**, 38, 1789	3.6	171
712	CoMn2O4 hierarchical microspheres with high catalytic activity towards p-nitrophenol reduction. **2014**, 43, 13865-73		39
711	Graphene oxide supported Au nanoparticles as an efficient catalyst for reduction of nitro compounds and Suzuki–Miyaura coupling in water. **2014**, 4, 48691-48697		85
710	Silver-promoted gelation studies of an unorthodox chelating tripodal pyridine–pyrazole-based ligand: templated growth of catalytic silver nanoparticles, gas and dye adsorption. *New Journal of Chemistry*, **2014**, 38, 2470	3.6	20
709	Fabrication and catalytic activity of FeNi@Ni nanocables for the reduction of p-nitrophenol. **2014**, 43, 7924-9		23
708	Electrochemical formation of Cu/Ag surfaces and their applicability as heterogeneous catalysts. **2014**, 4, 7207		33
707	D-Glucopyranose-modified compound of Ruddlesden–Popper phases H2CaTa2O7: characterization and intercalation with Ag. **2014**, 2, 15590		8
706	Flowerlike Bi2S3 microspheres: facile synthesis and application in the catalytic reduction of 4-nitroaniline. *New Journal of Chemistry*, **2014**, 38, 5324-5330	3.6	30
705	Fabrication of high-density silver nanoparticles on the surface of alginate microspheres for application in catalytic reaction. **2014**, 2, 8491-8499		36
704	High performance Pd nanocrystals supported on SnO2-decorated graphene for aromatic nitro compound reduction. **2014**, 2, 3461-3467		39
703	Reduction of Hexavalent Chromium Using Recyclable Pt/Pd Nanoparticles Immobilized on Procyanidin-Grafted Eggshell Membrane. **2014**, 53, 13635-13643		79
702	Multiply twinned AgNi alloy nanoparticles as highly active catalyst for multiple reduction and degradation reactions. *ACS Applied Materials & Interfaces*, **2014**, 6, 16071-81	9.5	114
701	Reduction of 4-nitrophenol catalyzed by silver nanoparticles supported on polymer micelles and vesicles. **2014**, 4, 16425-16428		59

700	Environmentally benign magnetic chitosan/Fe3O4 composites as reductant and stabilizer for anchoring Au NPs and their catalytic reduction of 4-nitrophenol. **2014**, 2, 13471-13478		74
699	Ag nanoparticles supported on N-doped graphene hybrids for catalytic reduction of 4-nitrophenol. **2014**, 4, 43204-43211		47
698	Glucomannan-mediated facile synthesis of gold nanoparticles for catalytic reduction of 4-nitrophenol. **2014**, 9, 404		26
697	Sodium borohydride stabilizes very active gold nanoparticle catalysts. **2014**, 50, 14194-6		172
696	Catalytic evaluation of dendrimer-templated Pd nanoparticles in the reduction of 4-nitrophenol using Langmuir–Hinshelwood kinetics. *Applied Surface Science*, **2014**, 320, 400-413	6.7	61
695	Direct electrochemistry and electrocatalysis of hemoglobin on a glassy carbon electrode modified with poly(ethylene glycol diglycidyl ether) and gold nanoparticles on a quaternized cellulose support. A sensor for hydrogen peroxide and nitric oxide. **2014**, 181, 1541-1549		13
694	Eco-friendly synthesis and antibacterial activity of silver nanoparticles reduced by nano-wood materials. **2014**, 21, 2489-2496		13
693	Silver nanoparticles immobilized on fibrous nano-silica as highly efficient and recyclable heterogeneous catalyst for reduction of 4-nitrophenol and 2-nitroaniline. **2014**, 158-159, 129-135		291
692	Sunlight-induced synthesis of various gold nanoparticles and their heterogeneous catalytic properties on a paper-based substrate. *ACS Applied Materials & Interfaces*, **2014**, 6, 11514-22	9.5	34
691	PAM/graphene/Ag ternary hydrogel: synthesis, characterization and catalytic application. **2014**, 2, 11319-11333		31
690	Effect of ordered and disordered phases of unsupported Ag3In nanoparticles on the catalytic reduction of p-nitrophenol. **2014**, 318, 143-150		15
689	Gold nanoparticles as electron reservoir redox catalysts for 4-nitrophenol reduction: a strong stereoelectronic ligand influence. **2014**, 50, 10126-9		93
688	Unique self-assembly behavior of a triblock copolymer and fabrication of catalytically active gold nanoparticle/polymer thin films at the liquid/liquid interface. *Materials Chemistry and Physics*, **2014**, 146, 88-98	4.4	9
687	Facile synthesis of antimony selenide with lamellar nanostructures and their efficient catalysis for the hydrogenation of p-nitrophenol. *Journal of Alloys and Compounds*, **2014**, 585, 40-47	5.7	15
686	Recent advances in silver-based heterogeneous catalysts for green chemistry processes. **2014**, 160-161, 730-741		108
685	Ni/graphene Nanostructure and Its Electron-Enhanced Catalytic Action for Hydrogenation Reaction of Nitrophenol. **2014**, 118, 6307-6313		139
684	Preparation of Bismuth Nanoparticles in Aqueous Solution and Its Catalytic Performance for the Reduction of 4-Nitrophenol. **2014**, 53, 10576-10582		68
683	Screening the Formation of Silver Nanoparticles Using a New Reaction Kinetics Multivariate Analysis and Assessing Their Catalytic Activity in the Reduction of Nitroaromatic Compounds. **2014**, 118, 12962-12971		21

682	Localized synthesis of gold nanoparticles in anisotropic alginate structures. **2014**, 4, 20449		20
681	Synthesis and characterization of thermosensitive hydrogel with improved mechanical properties. **2015**, 30, 2400-2407		7
680	Catalytic Reduction of p-Nitrophenol and Hexacyanoferrate (III) by Borohydride Using Green Synthesized Gold Nanoparticles. **2015**, 62, 420-428		22
679	Green and energy-efficient methods for the production of metallic nanoparticles. **2015**, 6, 2354-76		37
678	Apoptosis Induction in Human Leukemia Cell Lines by Gold Nanoparticles Synthesized Using the Green Biosynthetic Approach. **2015**, 2015, 1-10		16
677	Caffeic Acid: Potential Applications in Nanotechnology as a Green Reducing Agent for Sustainable Synthesis of Gold Nanoparticles. **2015**, 10, 1934578X1501000		2
676	Alginate fibers embedded with silver nanoparticles as efficient catalysts for reduction of 4-nitrophenol. **2015**, 5, 49534-49540		49
675	Au decorated Fe3O4@TiO2 magnetic composites with visible light-assisted enhanced catalytic reduction of 4-nitrophenol. **2015**, 5, 50454-50461		36
674	Role of solvents on photocatalytic reduction of nitroarenes by sol-gel synthesized TiO2/zeolite-4A. **2015**, 22, 1105-1110		15
673	Surface Structure of Silver Nanoparticles as a Model for Understanding the Oxidative Dissolution of Silver Ions. *Langmuir*, **2015**, 31, 13361-72	4	56
672	Quantitative label-free and real-time surface-enhanced Raman scattering monitoring of reaction kinetics using self-assembled bifunctional nanoparticle arrays. **2015**, 87, 8702-8		28
671	Enhanced catalytic activity of Au nanoparticles self-assembled on thiophenol functionalized graphene. **2015**, 5, 2149-2156		19
670	Basic concepts and recent advances in nitrophenol reduction by gold- and other transition metal nanoparticles. **2015**, 287, 114-136		528
669	Plasma-assisted synthesis of Ag nanoparticles immobilized in mesoporous cellular foams and their catalytic properties for 4-nitrophenol reduction. *Microporous and Mesoporous Materials*, **2015**, 207, 149-155	53	28
668	Brawny Silver-Hydrogel Based Nanocatalyst for Reduction of Nitrophenols: Studies on Kinetics and Mechanism. **2015**, 54, 1197-1203		58
667	Fabrication of hollow Cu2O@CuO-supported Au-Pd alloy nanoparticles with high catalytic activity through the galvanic replacement reaction. **2015**, 3, 4578-4585		79
666	Surface-Selective Deposition of a Reusable Gold Catalyst on a Thin Film of Metal Hydroxide Nanocrystals. **2015**, 2015, 640-645		4
665	Hierarchical macrotube/mesopore carbon decorated with mono-dispersed Ag nanoparticles as a highly active catalyst. **2015**, 17, 2515-2523		90

664	Facile biological approach for immobilization, physicochemical characterization and antibacterial activity of noble metals nanocomposites. **2015**, 148, 86-90		7
663	PdO nanoparticles enhancing the catalytic activity of Pd/carbon nanotubes for 4-nitrophenol reduction. **2015**, 5, 27526-27532		55
662	DMAc used as a reducer for preparation of spherical silver nanoparticles with high dispersion. **2015**, 22, 445-449		3
661	Bioinspired Design of an Immobilization Interface for Highly Stable, Recyclable Nanosized Catalysts. *ACS Applied Materials & Interfaces*, **2015**, 7, 14415-22	9.5	37
660	Ag□SiO2 nanocomposites with plum-pudding structure as catalyst for hydrogenation of 4-nitrophenol. **2015**, 41, 14660-14667		29
659	Starch based biodegradable graft copolymer for the preparation of silver nanoparticles. **2015**, 81, 83-90		14
658	Quaternized chitosan/rectorite/AgNP nanocomposite catalyst for reduction of 4-nitrophenol. *Journal of Alloys and Compounds*, **2015**, 647, 463-470	5.7	18
657	A cheap and efficient catalyst with ultra-high activity for reduction of 4-nitrophenol. **2015**, 17, 5744-5750		19
656	Photocatalytic-degradation and reduction of organic compounds using SnO2 quantum dots (via a green route) under direct sunlight. **2015**, 5, 66122-66133		54
655	Silver nanoparticles stabilized by a polyaminocyclodextrin as catalysts for the reduction of nitroaromatic compounds. **2015**, 408, 250-261		20
654	Synthesis of glucose-mediated Ag□Fe2O3 multifunctional nanocomposites in aqueous medium □ a kinetic analysis of their catalytic activity for 4-nitrophenol reduction. **2015**, 17, 4786-4799		24
653	Kinetic studies of catalytic reduction of 4-nitrophenol with NaBH4 by means of Au nanoparticles dispersed in a conducting polymer matrix. **2015**, 19, 2849-2858		46
652	Synthesis of CeO2/Pd nanocomposites by pulsed laser ablation in liquids for the reduction of 4-nitrophenol to 4-aminophenol. **2015**, 41, 12432-12438		36
651	Synthesis and characterization of Cu2O/Au and its application in catalytic reduction of 4-nitrophenol. **2015**, 89, 1374-1380		10
650	Microwave-assisted facile green synthesis of silver nanoparticles and spectroscopic investigation of the catalytic activity. **2015**, 38, 659-666		18
649	Carbon dot reduced bimetallic nanoparticles: size and surface plasmon resonance tunability for enhanced catalytic applications. **2015**, 3, 16354-16360		49
648	Structural evolution of (Au2S)n (n = 1□8) clusters from first principles global optimization. **2015**, 5, 62543-62550		15
647	Synergetic catalytic effect of Cu2-xSe nanoparticles and reduced graphene oxide coembedded in electrospun nanofibers for the reduction of a typical refractory organic compound. *ACS Applied Materials & Interfaces*, **2015**, 7, 15447-57	9.5	25

646	Iridium Oxide Nanoparticles and Iridium/Iridium Oxide Nanocomposites: Photochemical Fabrication and Application in Catalytic Reduction of 4-Nitrophenol. *ACS Applied Materials & Interfaces*, **2015**, 7, 16738-49	9.5	94
645	Facile controlled synthesis of silver particles with high catalytic activity. **2015**, 481, 407-412		11
644	Silver nanoparticles on carboxyl-functionalized Fe3O4 with high catalytic activity for 4-nitrophenol reduction. **2015**, 5, 50505-50511		36
643	In Situ Synthesis of Monodisperse Silver Nanoparticles on Sulfhydryl-Functionalized Poly(glycidyl methacrylate) Microspheres for Catalytic Reduction of 4-Nitrophenol. **2015**, 54, 6480-6488		57
642	Synthesis of 1D Fe□/P(MBAAm-co-MAA) nanochains as stabilizers for Ag nanoparticles and templates for hollow mesoporous structure, and their applications in catalytic reaction and drug delivery. **2015**, 456, 145-54		13
641	Multifunctional cellulosic paper based on quaternized chitosan and gold nanoparticle□reduced graphene oxide via electrostatic self-assembly. **2015**, 3, 7422-7428		40
640	A facile approach to fabricate halloysite/metal nanocomposites with preformed and in situ synthesized metal nanoparticles: a comparative study of their enhanced catalytic activity. **2015**, 44, 8906-16		37
639	Synthesis of Gold Nanoparticles on Rice Husk Silica for Catalysis Applications. **2015**, 54, 5656-5663		35
638	Facile deposition of gold nanoparticles on core□shell Fe3O4@polydopamine as recyclable nanocatalyst. **2015**, 45, 9-14		47
637	Preparation of a magnetically separable CoFe2O4 supported Ag nanocatalyst and its catalytic reaction towards the decolorization of a variety of dyes. **2015**, 5, 40193-40198		18
636	In situ assembly of dispersed Ag nanoparticles on hierarchically porous organosilica microspheres for controllable reduction of 4-nitrophenol. **2015**, 50, 3399-3408		20
635	Biocompatible □carrageenan-□maghemite nanocomposite for biomedical applications - synthesis, characterization and in vitro anticancer efficacy. **2015**, 13, 18		26
634	Crumpled graphene nanoreactors. **2015**, 7, 10267-78		19
633	Synthesis and stabilization of metal nanocatalysts for reduction reactions □a review. **2015**, 3, 11157-11182		217
632	Size-controlled synthesis of Ag nanoparticles functionalized by heteroleptic dipyrrinato complexes having meso-pyridyl substituents and their catalytic applications. **2015**, 54, 2500-11		22
631	Facile reduction of aromatic nitro compounds to aromatic amines catalysed by support-free nanoporous silver. **2015**, 5, 30062-30066		17
630	Au/graphene oxide/carbon nanotube flexible catalyst film: synthesis, characterization and its application for catalytic reduction of 4-nitrophenol. **2015**, 5, 37710-37715		30
629	Nanoparticle Synthesis by Biogenic Approach. **2015**, 237-257		3

628	Nitroarene reduction: a trusted model reaction to test nanoparticle catalysts. **2015**, 51, 9410-31		537
627	Mussel-Inspired Green Metallization of Silver Nanoparticles on Cellulose Nanocrystals and Their Enhanced Catalytic Reduction of 4-Nitrophenol in the Presence of β-Cyclodextrin. **2015**, 54, 3299-3308		143
626	Green Processes for Nanotechnology. **2015**,		18
625	Reductant and sequence effects on the morphology and catalytic activity of peptide-capped Au nanoparticles. *ACS Applied Materials & Interfaces*, **2015**, 7, 8843-51	9.5	39
624	Facile preparation of reduced graphene oxide supported PtNi alloyed nanosnowflakes with high catalytic activity. **2015**, 5, 35551-35557		19
623	Magnetic alginate-Fe3O4 hydrogel fiber capable of ciprofloxacin hydrochloride adsorption/separation in aqueous solution. **2015**, 5, 81573-81582		39
622	"Clickable" thiol-functionalized nanoporous polymers: from their synthesis to further adsorption of gold nanoparticles and subsequent use as efficient catalytic supports. **2015**, 6, 8105-8111		20
621	Fabrication of hierarchically organized nanocomposites of Ba/alginate/carboxymethylcellulose/graphene oxide/Au nanoparticles and their catalytic efficiency in o-nitroaniline reduction. *New Journal of Chemistry*, **2015**, 39, 9761-9771	3.6	20
620	A new strategy to fabricate composite thin films with tunable micro- and nanostructures via self-assembly of block copolymers. **2015**, 51, 16687-90		17
619	Enhanced catalytic and antibacterial activities of silver nanoparticles immobilized on poly(N-vinyl pyrrolidone)-grafted graphene oxide. **2015**, 5, 81994-82004		25
618	A soft-template mediated approach for Au(0) formation on a heterosilica surface and synergism in the catalytic reduction of 4-nitrophenol. **2015**, 5, 78006-78016		16
617	Core-Corona Functionalization of Diblock Copolymer Micelles by Heterogeneous Metal Nanoparticles for Dual Modality in Chemical Reactions. *ACS Applied Materials & Interfaces*, **2015**, 7, 18778-85	9.5	13
616	Green synthesis of 2D CuO nanoleaves (NLs) and its application for the reduction of p-nitrophenol. **2015**, 161, 79-82		37
615	Green synthesis, characterization and antibacterial activity of gold nanoparticles using hydroxyethyl starch-g-poly (methylacrylate-co-sodium acrylate): A novel biodegradable graft copolymer. **2015**, 212, 259-265		16
614	Greenly Synthesized Gold-Alginate Nanocomposites Catalyst for Reducing Decoloration of Azo-Dyes. **2015**, 10, 1550108		24
613	Highly active spherical amorphous MoS2: facile synthesis and application in photocatalytic degradation of rose bengal dye and hydrogenation of nitroarenes. **2015**, 5, 88848-88856		33
612	Highly stable ruthenium nanoparticles on 3D mesoporous carbon: an excellent opportunity for reduction reactions. **2015**, 3, 23448-23457		34
611	Self-assembly of cuprous oxide nanoparticles supported on reduced graphene oxide and their enhanced performance for catalytic reduction of nitrophenols. **2015**, 5, 71259-71267		28

610	Copper nanoparticles supported on permeable monolith with carboxylic acid surface functionality: Stability and catalytic properties under reductive conditions. *Materials Chemistry and Physics*, **2015**, 163, 446-452	4.4	20
609	Novel synthesis of silver/reduced graphene oxide nanocomposite and its high catalytic activity towards hydrogenation of 4-nitrophenol. **2015**, 5, 70968-70971		38
608	Reduced graphene oxide supported AgxNi100-x alloy nanoparticles: a highly active and reusable catalyst for the reduction of nitroarenes. **2015**, 3, 19563-19574		43
607	Cathodic Corrosion of Cu Substrates as a Route to Nanostructured Cu/M (M=Ag, Au, Pd) Surfaces. **2015**, 2, 106-111		14
606	Sunlight-assisted route to antimicrobial plasmonic aminoclay catalysts. **2015**, 7, 86-91		21
605	Interfacial nanodroplets guided construction of hierarchical Au, Au-Pt, and Au-Pd particles as excellent catalysts. **2014**, 4, 4849		37
604	In situ generation of silver nanoparticles within crosslinked 3D guar gum networks for catalytic reduction. **2015**, 73, 39-44		23
603	New type of organic/gold nanohybrid material: Preparation, properties and application in catalysis. *Applied Surface Science*, **2015**, 325, 73-78	6.7	7
602	Branched Au nanostructures enriched with a uniform facet: facile synthesis and catalytic performances. **2014**, 4, 5259		33
601	Solar light-induced photocatalytic degradation of methyl red in an aqueous suspension of commercial ZnO: a green approach. **2015**, 53, 501-514		17
600	Biosynthesis of gold nanoparticles using plant extracts. **2015**, 38, 1-14		142
599	Morphology-controllable synthesis of CuO nanostructures and their catalytic activity for the reduction of 4-nitrophenol. *Journal of Physics and Chemistry of Solids*, **2015**, 77, 1-7	3.9	54
598	Preparation of Cu nanoparticle loaded SBA-15 and their excellent catalytic activity in reduction of variety of dyes. **2015**, 269, 371-378		186
597	Silver particle monolayers - Formation, stability, applications. **2015**, 222, 530-63		48
596	Efficient visible-light-driven photocatalytic degradation of nitrophenol by using graphene-encapsulated TiO2 nanowires. **2015**, 283, 400-9		73
595	Synergistic Action of Alginate Chemical Reduction and Laser Irradiation for the Formation of Au Nanoparticles with Controlled Dimensions. **2015**, 32, 389-397		5
594	Green synthesis, characterization and catalytic activity of palladium nanoparticles by xanthan gum. **2015**, 5, 315-320		57
593	Aminopolycarboxylic acids and alginate composite-mediated green synthesis of Au and Ag nanoparticles. **2015**, 5, 1-6		13

592	Silver nanoparticles loaded on Cu-doped TiO2 for the effective reduction of nitro-aromatic contaminants. **2015**, 261, 53-59		48
591	Gnidia glauca Leaf and Stem Extract Mediated Synthesis of Gold Nanocatalysts with Free Radical Scavenging Potential. **2016**, 07,		28
590	AuCu@Pt Nanoalloys for Catalytic Application in Reduction of 4-Nitrophenol. **2016**, 2016, 1-8		12
589	Synthesis of Chitosan-Mediated Silver Coated Fe2O3(AgFe2O3@Cs) Superparamagnetic Binary Nanohybrids for Multifunctional Applications. **2016**, 120, 17627-17644		28
588	Influence of Surfactant Bilayers on the Refractive Index Sensitivity and Catalytic Properties of Anisotropic Gold Nanoparticles. **2016**, 12, 330-42		59
587	Hydrazine assisted catalytic hydrogenation of PNP to PAP by NixPd100 nanocatalyst. **2016**, 6, 64364-64373		5
586	Natural polymers supported copper nanoparticles for pollutants degradation. *Applied Surface Science*, **2016**, 387, 1154-1161	6.7	94
585	Catalytic Reduction of 4-Nitrophenol Using Silver Nanoparticles with Adjustable Activity. *Langmuir*, **2016**, 32, 7383-91	4	181
584	A Green Route for Substrate-Independent Oil-Repellent Coatings. **2016**, 6, 38016		6
583	Synthesis of gold nanostructures using fruit extract of Garcinia Indica. **2016**,		0
582	Confined synthesis of three-dimensionally ordered arrays of multilamellar silica nanoparticles as a gold catalyst support. **2016**, 6, 102258-102263		2
581	Gum acaciaCuNpsilica hybrid: an effective, stable and recyclable catalyst for reduction of nitroarenes. **2016**, 6, 31074-31082		9
580	Highly active Ag clusters stabilized on TiO2 nanocrystals for catalytic reduction of p-nitrophenol. *Applied Surface Science*, **2016**, 385, 445-452	6.7	44
579	Hierarchical synthesis of silver monoliths and their efficient catalytic activity for the reduction of 4-nitrophenol to 4-aminophenol. *New Journal of Chemistry*, **2016**, 40, 6787-6795	3.6	44
578	Preparation of supported AuPd nanoalloys mediated by ionic liquid-like functionalized SBA-15: structural correlations concerning its catalytic activity. *New Journal of Chemistry*, **2016**, 40, 6636-6642	3.6	16
577	Enhanced photocatalytic and electrocatalytic applications of green synthesized silver nanoparticles. **2016**, 220, 248-257		56
576	Reduced graphene oxide-stabilized copper nanocrystals with enhanced catalytic activity and SERS properties. **2016**, 6, 50587-50594		12
575	Catalytic activity of mesoporous cobalt oxides with controlled porosity and crystallite sizes: Evaluation using the reduction of 4-nitrophenol. **2016**, 198, 74-82		87

574	Size dependence of silver nanoparticles in carboxylic acid functionalized mesoporous silica SBA-15 for catalytic reduction of 4-nitrophenol. **2016**, 6, 35167-35176		28
573	Functionalization of silica through thiol-yne radical chemistry: a catalytic system based on gold nanoparticles supported on amino-sulfide-branched silica. **2016**, 6, 25780-25788		8
572	Nitroarene Reduction by a Virus Protein Cage Based Nanoreactor. **2016**, 6, 3084-3091		48
571	A 1-D coordination polymer route to catalytically active Co@C nanoparticles. **2016**, 6, 38533-38540		7
570	In situ pore-forming alginate hydrogel beads loaded with in situ formed nano-silver and their catalytic activity. **2016**, 18, 12610-5		20
569	In situ generated nickel on cerium oxide nanoparticle for efficient catalytic reduction of 4-nitrophenol. **2016**, 6, 45947-45956		36
568	Shape-selective synthesis of Sn(MoO4)2 nanomaterials for catalysis and supercapacitor applications. **2016**, 45, 8897-915		19
567	From spent dye-loaded palygorskite to a multifunctional palygorskite/carbon/Ag nanocomposite. **2016**, 6, 41696-41706		10
566	A green chemistry approach for synthesizing thermostable antimicrobial peptide-coated gold nanoparticles immobilized in an alginate biohydrogel. **2016**, 6, 86808-86816		28
565	Hetero‐nanostructured Ni/‐Mn2O3 as Highly Active Catalyst for Aqueous Phase Reduction Reactions. *ChemistrySelect*, **2016**, 1, 4726-4735	1.8	7
564	Breathing catalyst-supports: CO2 adjustable and magnetic recyclable ‐smart‐hybrid nanoparticles. **2016**, 6, 97030-97035		7
563	Modulating the Catalytic Activity of Gold Nanoparticles through Surface Tailoring. *ChemistrySelect*, **2016**, 1, 4940-4948	1.8	17
562	PtNi nanoparticles embedded in porous silica microspheres as highly active catalysts for p-nitrophenol hydrogenation to p-aminophenol. **2016**, 128, 1355-1365		20
561	Physical chemistry of catalytic reduction of nitroarenes using various nanocatalytic systems: past, present, and future. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	67
560	Tuning the performance of Pt‐Ni alloy/reduced graphene oxide catalysts for 4-nitrophenol reduction. **2016**, 6, 79028-79036		17
559	Green-assisted tool for nanogold synthesis based on alginate as a biological macromolecule. **2016**, 6, 73974-73985		42
558	Ag‐Fe2O3nanocomposites with enhanced catalytic activity for reduction of 4-nitrophenol. **2016**, 3, 075024		2
557	Silver nanoparticle-embedded RGO-nanosponge for superior catalytic activity towards 4-nitrophenol reduction. **2016**, 6, 88837-88845		39

556	Laser-based in situ embedding of metal nanoparticles into bioextruded alginate hydrogel tubes enhances human endothelial cell adhesion. **2016**, 9, 3407-3427		34
555	Co9S8 nanotubes: facile synthesis and application in the catalytic reduction of 4-nitrophenol. **2016**, 39, 1501-1505		2
554	Spontaneous hydrolysis of borohydride required before its catalytic activation by metal nanoparticles. **2016**, 84, 80-84		28
553	Green preparation of Au nanoparticles for electrochemical detection of H2O2. **2016**, 37, 013003		3
552	Immobilization of Metal-Organic Framework Nanocrystals for Advanced Design of Supported Nanocatalysts. *ACS Applied Materials & Interfaces*, **2016**, 8, 29551-29564	9.5	45
551	Synthesis of Gold Nanoparticles Using Garcinia Indica Fruit Rind Extract. **2016**, 15, 1660015		6
550	One-pot microwave-assisted in situ reduction of Ag+ and Au3+ ions by Citrus limon extract and their carbon-dots based nanohybrids: a potential nano-bioprobe for cancer cellular imaging. **2016**, 6, 103482-103490		23
549	Green synthesis and catalytic application of curcumin stabilized silver nanoparticles. **2016**, 128, 1871-1878		25
548	Facile assembly of nanosheet array-like CuMgAl-layered double hydroxide/rGO nanohybrids for highly efficient reduction of 4-nitrophenol. **2016**, 4, 18990-19002		69
547	Enhanced catalytic performance of magnetic Fe3O4@MnO2 nanocomposites for the decolorization of rhodamine B, reduction of 4-nitroaniline, and sp3 C–H functionalization of 2-methylpyridines to isatins. **2016**, 344, 273-285		38
546	Highly efficient and simultaneous catalytic reduction of multiple dyes using recyclable RGO/Co dendritic nanocomposites as catalyst for wastewater treatment. **2016**, 6, 106723-106731		28
545	Amyloid Templated Gold Aerogels. **2016**, 28, 472-8		124
544	Development of Porous Alginate Microbeads Containing Silver Nanoparticles and Their Antibacterial Efficacy. **2016**, 35, 298-306		4
543	Porous Silica-Coated Gold Nanorods: A Highly Active Catalyst for the Reduction of 4-Nitrophenol. **2016**, 17, 364-8		33
542	In-situ reduction of monodisperse nanosilver on hierarchical wrinkled mesoporous silica with radial pore channels and its antibacterial performance. **2016**, 65, 323-30		32
541	Synthesis of TiO2-loaded Co0.85Se thin films with heterostructure and their enhanced catalytic activity for p-nitrophenol reduction and hydrazine hydrate decomposition. **2016**, 27, 145701		13
540	Solvothermal synthesis of CuO@MgO nanocomposite particles and their catalytic applications. **2016** , 6, 61927-61933		53
539	From Mono to Tris-1,2,3-triazole-Stabilized Gold Nanoparticles and Their Compared Catalytic Efficiency in 4-Nitrophenol Reduction. **2016**, 55, 6776-80		27

538	Reduced graphene oxide/gold nanoparticle aerogel for catalytic reduction of 4-nitrophenol. **2016**, 6, 64028-64038		18
537	Shape-dependent catalytic activity of CuO nanostructures. **2016**, 336, 11-22		64
536	Synthesis of a Ni0.8Zn0.2Fe2O4-RGO nanocomposite: an excellent magnetically separable catalyst for dye degradation and microwave absorber. **2016**, 6, 14090-14096		32
535	Kinetics and mechanism of reduction of nitrobenzene catalyzed by silver-poly(N-isopropylacryl amide-co-allylacetic acid) hybrid microgels. *Materials Chemistry and Physics*, **2016**, 171, 318-327	4.4	48
534	Facile approach to synthesize uniform Au@mesoporous SnO2 yolk-shell nanoparticles and their excellent catalytic activity in 4-nitrophenol reduction. *Journal of Nanoparticle Research*, **2016**, 18, 1	2.3	9
533	One-step sol-gel synthesis of hierarchically porous, flow-through carbon/silica monoliths. **2016**, 6, 12298-12310		16
532	A new facile strategy for the synthesis of 1-dimensional CuO nanostructures and their reduction performance. **2016**, 166, 171-174		7
531	A facile and green strategy for the synthesis of 1-dimensional luminescent ZnO nanorods and their reduction behavior for aromatic nitro-compounds. **2016**, 6, 527-533		6
530	In situ synthesized Au-Ag nanocages on graphene oxide nanosheets: a highly active and recyclable catalyst for the reduction of 4-nitrophenol. *New Journal of Chemistry*, **2016**, 40, 1685-1692	3.6	31
529	Facile synthesis of cubical Co3O4 supported Au nanocomposites with high activity for the reduction of 4-nitrophenol to 4-aminophenol. **2016**, 6, 32430-32433		28
528	In situ reduction of well-dispersed nickel nanoparticles on hierarchical nickel silicate hollow nanofibers as a highly efficient transition metal catalyst. **2016**, 6, 32580-32585		10
527	Direct evidence of plasmonic enhancement on catalytic reduction of 4-nitrophenol over silver nanoparticles supported on flexible fibrous networks. **2016**, 188, 245-252		129
526	Photocatalytic, antimicrobial activities of biogenic silver nanoparticles and electrochemical degradation of water soluble dyes at glassy carbon/silver modified past electrode using buffer solution. **2016**, 156, 100-7		31
525	Multiple approaches to control and assess the size of Pd nanoparticles synthesized via water-in-oil microemulsion. **2016**, 497, 28-34		15
524	Green Synthesis of Silver Nanoparticles with Exceptional Colloidal Stability and its Catalytic Activity Toward Nitrophenol Reduction. **2016**, 11, 1650046		9
523	Facile and green synthesis of cellulose nanocrystal-supported gold nanoparticles with superior catalytic activity. **2016**, 140, 66-73		49
522	Fabrication of thermosensitive hydrogel-supported Ni nanoparticles with tunable catalytic activity for 4-nitrophenol. **2016**, 51, 3200-3210		9
521	Copper nanoparticle@graphene composite arrays and their enhanced catalytic performance. **2016**, 105, 59-67		53

520	Green and simple synthesis of Ag nanoparticles loaded onto cellulosic fiber as efficient and low-cost catalyst for reduction of 4-nitrophenol. **2016**, 214, 270-275		37
519	Multifunctional dendritic mesoporous silica nanospheres loaded with silver nanoparticles as a highly active and recyclable heterogeneous catalyst. **2016**, 489, 142-153		24
518	Nitrogen-assisted electroless assembling of 3D nanodendrites consisting of Pd and N-doped carbon nanoparticles as bifunctional catalysts. **2016**, 18, 2115-2121		28
517	In-Situ Remediation Approaches for the Management of Contaminated Sites: A Comprehensive Overview. **2016**, 236, 1-115		44
516	Improving gold catalysis of nitroarene reduction with surface Pd. **2016**, 264, 31-36		16
515	Multifunctional magnetic core‐shell dendritic mesoporous silica nanospheres decorated with tiny Ag nanoparticles as a highly active heterogeneous catalyst. *Applied Surface Science*, **2016**, 360, 252-262	6.7	45
514	Silver nanoparticles coated with natural polysaccharides as models to study AgNP aggregation kinetics using UV-Visible spectrophotometry upon discharge in complex environments. **2016**, 539, 7-16		33
513	Pd-based nanoflowers catalysts: controlling size, composition, and structures for the 4-nitrophenol reduction and BTX oxidation reactions. **2016**, 51, 603-614		23
512	Polysaccharides templates for assembly of nanosilver. **2016**, 135, 300-7		92
511	Yolk/Shell AuNPs@Polyethyleneimine-Derived Carbon Nanoparticles as Nanoreactor for Catalytic Nitroarenes Reduction. **2016**, 146, 229-237		5
510	Starch-supported gold nanoparticles and their use in 4-nitrophenol reduction. **2017**, 21, 656-663		66
509	Synthesis of a hierarchical structured NiO/NiS composite catalyst for reduction of 4-nitrophenol and organic dyes. **2017**, 7, 4353-4362		34
508	Kinetic Analysis of the Reduction of 4-Nitrophenol Catalyzed by CeO2 Nanorods-Supported CuNi Nanoparticles. **2017**, 56, 1159-1167		76
507	Facile photochemical synthesis of ZnWO 4 /Ag yolk-shell microspheres with enhanced visible-light photocatalytic activity. **2017**, 190, 60-63		6
506	NiFe nanoalloys in-situ immobilized on coal based activated carbons through one-step pyrolysis as magnetically recoverable catalysts for reduction of 4-nitrophenol. *Journal of Alloys and Compounds*, **2017**, 702, 531-537	5.7	11
505	Hydrogenation of 4-nitrophenol to 4-aminophenol at room temperature: Boosting palladium nanocrystals efficiency by coupling with copper via liquid phase pulsed laser ablation. *Applied Surface Science*, **2017**, 401, 314-322	6.7	47
504	In situ redox deposition of palladium nanoparticles on oxygen-deficient tungsten oxide as efficient hydrogenation catalysts. **2017**, 7, 2351-2357		21
503	The role of OH in the formation of highly selective gold nanowires at extreme pH: multi-fold enhancement in the rate of the catalytic reduction reaction by gold nanowires. **2017**, 19, 5077-5090		25

502	A facile synthesis of CuNi bimetallic nanoparticle supported organo functionalized graphene oxide as a catalyst for selective hydrogenation of p-nitrophenol and cinnamaldehyde. **2017**, 7, 2869-2879		45
501	Silver/graphene nanocomposites as catalysts for the reduction of p-nitrophenol to p-aminophenol: Materials preparation and reaction kinetics studies. **2017**, 95, 1297-1304		15
500	Trimetallic FeAgPt alloy as a nanocatalyst for the reduction of 4-nitroaniline and decolorization of rhodamine B: A comparative study. *Journal of Alloys and Compounds*, **2017**, 701, 456-464	5.7	43
499	Multiple functionalities of Ni nanoparticles embedded in carboxymethyl guar gum polymer: catalytic activity and superparamagnetism. *Applied Surface Science*, **2017**, 405, 231-239	6.7	19
498	Phosphorus role on the enhancement in catalytic activity of magnetic Ni-P alloy. **2017**, 7, 58-68		6
497	Facile synthesis silver nanoparticles on different xerogel supports as highly efficient catalysts for the reduction of p-nitrophenol. **2017**, 520, 743-756		43
496	In situ preparation of magnetic Ni-Au/graphene nanocomposites with electron-enhanced catalytic performance. *Journal of Alloys and Compounds*, **2017**, 706, 377-386	5.7	20
495	Biosynthesis of Ag/reduced graphene oxide/Fe(3)O(4) using Lotus garcinii leaf extract and its application as a recyclable nanocatalyst for the reduction of 4-nitrophenol and organic dyes. **2017**, 497, 33-42		102
494	Au nanoparticles embedded on urchin-like TiO 2 nanosphere: An efficient catalyst for dyes degradation and 4-nitrophenol reduction. **2017**, 121, 167-175		49
493	Three-dimensional nitrogen-doped graphene foam as metal-free catalyst for the hydrogenation reduction of p-nitrophenol. **2017**, 497, 102-107		57
492	Surfactant modification of chitosan hydrogel beads for Ni@NiO core-shell nanoparticles formation and its catalysis to 4-nitrophenol reduction. **2017**, 5, 1321-1329		21
491	Strategic Green Synthesis, Characterization and Catalytic Application to 4-Nitrophenol Reduction of Palladium Nanoparticles. **2017**, 28, 2123-2131		18
490	Time, pH, and size dependency of silver nanoparticle dissolution: the road to equilibrium. **2017**, 4, 1314-1327		72
489	Instant green synthesis of silver-based herbo-metallic colloidal nanosuspension in Terminalia bellirica fruit aqueous extract for catalytic and antibacterial applications. **2017**, 7, 36		20
488	Protein-directed gold nanoparticles with excellent catalytic activity for 4-nitrophenol reduction. **2017**, 78, 429-434		23
487	Retracted Article: Recent advances of metal–metal oxide nanocomposites and their tailored nanostructures in numerous catalytic applications. **2017**, 5, 9465-9487		233
486	Fabrication of Highly Stable Metal Oxide Hollow Nanospheres and Their Catalytic Activity toward 4-Nitrophenol Reduction. *ACS Applied Materials & Interfaces*, **2017**, 9, 18207-18214	9.5	68
485	Confining Functional Nanoparticles into Colloidal Imine-Based COF Spheres by a Sequential Encapsulation-Crystallization Method. **2017**, 23, 8623-8627		42

484	Sonochemical green reduction to prepare Ag nanoparticles decorated graphene sheets for catalytic performance and antibacterial application. **2017**, 39, 577-588		101
483	RhAg/rGO nanocatalyst: ligand-controlled synthesis and superior catalytic performances for the reduction of 4-nitrophenol. **2017**, 52, 9465-9476		13
482	AgPt nanoparticles supported on magnetic graphene oxide nanosheets for catalytic reduction of 4-nitrophenol: Studies of kinetics and mechanism. **2017**, 31, e3806		29
481	Ternary Fe3O4@PANI@Au nanocomposites as a magnetic catalyst for degradation of organic dyes. **2017**, 60, 749-757		11
480	Microbial exopolysaccharide-mediated synthesis and stabilization of metal nanoparticles. **2017**, 43, 731-752		63
479	Constructing magnetic SiO2@Fe hybrid microspheres for room temperature nitroarenes reduction. **2017**, 5, 10986-10997		30
478	Colorimetric detection of manganese(II) ions using alginate-stabilized silver nanoparticles. **2017**, 43, 5665-5674		16
477	Promotion effects of alkali- and alkaline earth metals on catalytic activity of mesoporous Co3O4 for 4-nitrophenol reduction. **2017**, 218, 240-248		53
476	Facilely self-reduced generation of Ag nanowires in the confined reductive siliceous nanopores and its catalytic reduction property. *Journal of Alloys and Compounds*, **2017**, 719, 30-41	5.7	11
475	3,5-Diamino-1,2,4-triazole@electrochemically reduced graphene oxide film modified electrode for the electrochemical determination of 4-nitrophenol. **2017**, 246, 1131-1140		35
474	Bioinspired catecholic activation of marine chitin for immobilization of Ag nanoparticles as recyclable pollutant nanocatalysts. **2017**, 505, 220-229		11
473	Magnetic porous PtNi/SiO2 nanofibers for catalytic hydrogenation of p-nitrophenol. *Journal of Nanoparticle Research*, **2017**, 19, 1	2.3	18
472	Ice-templating synthesis of macroporous noble metal/3D-graphene nanocomposites: their fluorescence lifetimes and catalytic study. *New Journal of Chemistry*, **2017**, 41, 7861-7869	3.6	18
471	In situ synthesis of PEDOT:PSS@AgNPs nanocomposites. **2017**, 230, 1-6		5
470	Investigation on the catalytic activity of aminosilane stabilized gold nanocatalysts towards the reduction of nitroaromatics. **2017**, 528, 48-56		13
469	Synergistic effect of gold supported on redox active cerium oxide nanoparticles for the catalytic hydrogenation of 4-nitrophenol. *New Journal of Chemistry*, **2017**, 41, 6720-6729	3.6	18
468	One-step synthesis of a magnetoactive compound. **2017**, 27, 186-187		1
467	Synthesis of silver-anchored polyaniline@chitosan magnetic nanocomposite: a smart system for catalysis. **2017**, 7, 18553-18560		34

466	Size Dependent Catalytic Activity of Actinodaphne madraspatana Bedd Leaves Mediated Silver Nanoparticles. **2017**, 28, 1837-1856		5
465	Reactivity enhancement of iron sulfide nanoparticles stabilized by sodium alginate: Taking Cr (VI) removal as an example. **2017**, 333, 275-284		87
464	Bimetallic Au-Cu alloy nanoparticles on reduced graphene oxide support: Synthesis, catalytic activity and investigation of synergistic effect by DFT analysis. **2017**, 538, 107-122		65
463	Regulating the Catalytic Function of Reduced Graphene Oxides Using Capping Agents for Metal-Free Catalysis. *ACS Applied Materials & Interfaces*, **2017**, 9, 1692-1701	9.5	20
462	Biogenic silver nanoparticles from Trachyspermum ammi (Ajwain) seeds extract for catalytic reduction of p-nitrophenol to p-aminophenol in excess of NaBH4. **2017**, 230, 74-84		47
461	Investigation of structural, optical, catalytic, fluorescence studies of eco-friendly synthesized Bi2S3 nanostructures. **2017**, 102, 103-118		16
460	Natural cellulose fiber derived hollow-tubular-oriented polydopamine: In-situ formation of Ag nanoparticles for reduction of 4-nitrophenol. **2017**, 158, 44-50		48
459	An efficient parts-per-million FeO nanocluster/graphene oxide catalyst for Suzuki-Miyaura coupling reactions and 4-nitrophenol reduction in aqueous solution. **2017**, 53, 644-646		38
458	Biosynthesis of the CuO nanoparticles using Euphorbia Chamaesyce leaf extract and investigation of their catalytic activity for the reduction of 4-nitrophenol. **2017**, 11, 766-772		14
457	Composites of Graphene Quantum Dots and Reduced Graphene Oxide as Catalysts for Nitroarene Reduction. *ACS Omega*, **2017**, 2, 7293-7298	3.9	17
456	Au/Cu Bimetallic Nanoparticles via Double-Target Sputtering onto a Liquid Polymer. *Langmuir*, **2017**, 33, 12389-12397	4	26
455	Highly recyclable Ag NPs/alginate composite beads prepared via one-pot encapsulation method for efficient continuous reduction of p-nitrophenol. *New Journal of Chemistry*, **2017**, 41, 13327-13335	3.6	22
454	Cubic Gold Nanorattles with a Solid Octahedral Core and Porous Shell as Efficient Catalyst: Immobilization and Kinetic Analysis. **2017**, 121, 22914-22925		21
453	An antibacterial composite system based on multi-responsive microgels hosting monodisperse gold nanoparticles. **2017**, 24, 1		7
452	Para-nitrophenol reduction on solvothermally prepared cobalt@silica core shell catalysts. **2017**, 122, 1145-1158		7
451	Low-cost CuNi-CeO2/rGO as an efficient catalyst for hydrolysis of ammonia borane and tandem reduction of 4-nitrophenol. *Journal of Alloys and Compounds*, **2017**, 728, 902-909	5.7	22
450	Synthesis of heterogeneous Ag-Cu bimetallic monolith with different mass ratios and their performances for catalysis and antibacterial activity. **2017**, 28, 3085-3094		16
449	Monolithic Cu/C hybrid beads with well-developed porosity for the reduction of 4-nitrophenol to 4-aminophenol. *New Journal of Chemistry*, **2017**, 41, 13230-13234	3.6	17

448	Antiproliferation and antibacterial effect of biosynthesized AgNps from leaves extract of Guiera senegalensis and its catalytic reduction on some persistent organic pollutants. **2017**, 175, 99-108		36
447	High strength and catalytic activity of polyacrylamide/graphene oxide porous metal alginates aerogels for phenol hydroxylation with H2O2. **2017**, 101, 116-119		3
446	Polymer Encapsulated Self-Assemblies of Ultrasmall Rhenium Nanoparticles: Catalysis and SERS Applications. **2017**, 5, 10186-10198		13
445	Synthesis of a NiP/NiP bi-phase nanocomposite for the efficient catalytic reduction of 4-nitrophenol based on the unique n-n heterojunction effects. **2017**, 46, 14107-14113		27
444	Morphology Adjustable Silica Nanosheets for Immobilization of Gold Nanoparticles. *ChemistrySelect*, **2017**, 2, 5793-5799	1.8	8
443	Well-dispersed rhenium nanoparticles on three-dimensional carbon nanostructures: Efficient catalysts for the reduction of aromatic nitro compounds. **2017**, 506, 271-282		36
442	One-step synthesis of magnetically recyclable Co@BN core-shell nanocatalysts for catalytic reduction of nitroarenes. **2017**, 7, 35451-35459		18
441	Effect of a roughness factor on electrochemical reduction of 4-nitrophenol using porous gold. **2017**, 34, 2498-2501		4
440	Role of Water in the Dynamic Crystallization of CuTCNQ for Enhanced Redox Catalysis (TCNQ = Tetracyanoquinodimethane). **2017**, 4, 1700097		8
439	Optically active microspheres from helical substituted polyacetylene with pendent ferrocenyl amino-acid derivative. Preparation and recycling use for direct asymmetric aldol reaction in water. **2017**, 125, 200-207		11
438	Hierarchical porous N-doped carbon supported palladium (Pd/NHPC) as a sustainable catalyst for the reduction of 4-nitrophenol with good activity and lifetime. *New Journal of Chemistry*, **2017**, 41, 10245-10250	3.6	17
437	Fungal Nanotechnology and Biomedicine. **2017**, 207-233		1
436	Highly Efficient Regeneration of Deactivated Au/C Catalyst for 4-Nitrophenol Reduction. **2017**, 121, 25882-25887		37
435	Sheetlike gold nanostructures/graphene oxide composites via a one-pot green fabrication protocol and their interesting two-stage catalytic behaviors. **2017**, 7, 51838-51846		20
434	ZnO Nanoparticle Fortified Highly Permeable Carbon/Silica Monoliths as a Flow-Through Media. *Langmuir*, **2017**, 33, 7692-7700	4	5
433	The Langmuir-Hinshelwood approach for kinetic evaluation of cucurbit[7]uril-capped gold nanoparticles in the reduction of the antimicrobial nitrofurantoin. **2017**, 19, 18913-18923		11
432	Bioreductive deposition of highly dispersed Ag nanoparticles on carbon nanotubes with enhanced catalytic degradation for 4-nitrophenol assisted by Shewanella oneidensis MR-1. *Environmental Science and Pollution Research*, **2017**, 24, 3038-3044	5.1	9
431	One-Pot Green Synthesis of Ag-Decorated SnO Microsphere: an Efficient and Reusable Catalyst for Reduction of 4-Nitrophenol. **2017**, 12, 435		20

430	Microwave-irradiated green synthesis of gold nanoparticles for catalytic and anti-bacterial activity. **2017**, 8,		18
429	Solid ion transition route to 3D S-N-codoped hollow carbon nanosphere/graphene aerogel as a metal-free handheld nanocatalyst for organic reactions. **2017**, 10, 3486-3495		9
428	Controllable fabrication of a novel porous Ni-alginate hybrid material for hydrogenation. **2017**, 218, 721-730		22
427	Metallic cobalt nanoparticles imbedded into ordered mesoporous carbon: A non-precious metal catalyst with excellent hydrogenation performance. **2017**, 505, 789-795		42
426	One-Pot Synthesis of Cobalt-Doped Pt-Au Alloy Nanoparticles Supported on Ultrathin α-Co(OH)2 Nanosheets and Their Enhanced Performance in the Reduction of p-Nitrophenol. **2017**, 2017, 146-152		5
425	A review on green synthesis of silver nanoparticles and their applications. **2017**, 45, 1272-1291		326
424	A novel Au-loaded Na2Ta2O6 multifunctional catalyst: Thermocatalytic and photocatalytic elimination of the poisonous nitrobenzene derivatives from wastewater under natural condition. *Journal of Alloys and Compounds*, **2017**, 695, 60-69	5.7	12
423	Novel Ag 2 S nanoparticles on reduced graphene oxide sheets as a super-efficient catalyst for the reduction of 4-nitrophenol. **2017**, 28, 417-421		15
422	Trends in Asian Water Environmental Science and Technology. **2017**,		1
421	Catalytic Reduction of Water Contaminant 4-Nitrophenol over Manganese Oxide Supported Ni Nanoparticles. **2017**, 35-48		5
420	Metallogel templated synthesis and stabilization of silver-particles and its application in catalytic reduction of nitro-arene. **2017**, 490, 529-541		15
419	Enhanced catalytic and antibacterial activity of nanocasted mesoporous silver monoliths: kinetic and thermodynamic studies. **2017**, 81, 704-710		8
418	Dendrimer encapsulated Silver nanoparticles as novel catalysts for reduction of aromatic nitro compounds. **2017**, 263, 022010		4
417	Chitosan coated cotton cloth supported zero-valent nanoparticles: Simple but economically viable, efficient and easily retrievable catalysts. **2017**, 7, 16957		80
416	Fungal Nanotechnology. **2017**,		17
415	Facile Synthesis of Gold Nanoparticles with Alginate and Its Catalytic Activity for Reduction of 4-Nitrophenol and H2O2 Detection. **2017**, 10,		20
414	Exploiting Microbial Polysaccharides for Biosorption of Trace Elements in Aqueous Environments-Scope for Expansion via Nanomaterial Intervention. *Polymers*, **2017**, 9,	4.5	24
413	The Top Citation Classics in Alginates for Biomedicine. **2017**, 223-249		3

412	Sugar-based micro/mesoporous hypercross-linked polymers with in situ embedded silver nanoparticles for catalytic reduction. **2017**, 13, 1212-1221		5
411	Recent Advances in the Reduction of Nitro Compounds by Heterogenous Catalysts. **2017**, 21, 794-820		56
410	Construction of size-controllable gold nanoparticles immobilized on polysaccharide nanotubes by in situ one-pot synthesis. **2018**, 113, 240-247		11
409	Morphological control of gold nanoparticles on exfoliated layers of layered double hydroxide: A reusable hybrid catalyst for the reduction of p -nitrophenol. *Applied Clay Science*, **2018**, 156, 187-194	5.2	15
408	Catalytic behavior of magnetic Ni⍁n alloy. **2018**, 44, 4149-4161		2
407	Highly Efficient Au Nanocatalysts for Heterogeneous Continuous-Flow Reactions Using Hollow CeO2 Microspheres as a Functional Skeleton. **2018**, 57, 3575-3582		4
406	Platinized spherical supramolecular nanoassemblies of a porphyrin: facile synthesis and excellent catalytic recyclability. **2018**, 20, 8488-8497		9
405	A compact study on impact of multiplicative Streblus asper inspired biogenic silver nanoparticles as effective photocatalyst, good antibacterial agent and interplay upon interaction with human serum albumin. **2018**, 259, 18-29		27
404	Room temperature preparation of lignocellulosic biomass supported heterostructure (Cu+Co@OPF) as highly efficient multifunctional nanocatalyst using wetness co-impregnation. **2018**, 549, 184-195		22
403	Magnetic N-doped Co-carbon composites derived from metal organic frameworks as highly efficient catalysts for p-nitrophenol reduction reaction. **2018**, 47, 3321-3328		26
402	N,P-dual-doped multilayer graphene as an efficient carbocatalyst for nitroarene reduction: A mechanistic study of metal-free catalysis. **2018**, 359, 233-241		62
401	Development of SiO2@TiO2 core-shell nanospheres for catalytic applications. *Applied Surface Science*, **2018**, 441, 223-231	6.7	34
400	Performance of Preformed Au/Cu Nanoclusters Deposited on MgO Powders in the Catalytic Reduction of 4-Nitrophenol in Solution. **2018**, 14, e1703734		54
399	Surfactant-Induced Preparation of Highly Dispersed Ni-Nanoparticles Supported on Nanocrystalline ZrO2 for Chemoselective Reduction of Nitroarenes. *ChemistrySelect*, **2018**, 3, 1129-1141	1.8	12
398	Facile synthesis of dispersed Ag nanoparticles on chitosan-TiO composites as recyclable nanocatalysts for 4-nitrophenol reduction. **2018**, 29, 155601		36
397	Sono-synthesis approach in uniform loading of ultrafine Ag nanoparticles on reduced graphene oxide nanosheets: An efficient catalyst for the reduction of 4-Nitrophenol. **2018**, 44, 1-13		32
396	Green synthesis of silver nanoparticles using sun dried tulsi leaves and its catalytic application for 4-Nitrophenol reduction. **2018**, 6, 1468-1474		70
395	Engineering of responsive polymer based nano-reactors for facile mass transport and enhanced catalytic degradation of 4-nitrophenol. **2018**, 72, 43-52		30

394	Synergistic eminently active catalytic and recyclable Ag, Cu and Ag-Cu alloy nanoparticles supported on TiO2 for sustainable and cleaner environmental applications: A phytogenic mediated synthesis. **2018**, 177, 134-143		33
393	Electrochemical Characterization and Electrocatalytic Application of Gold Nanoparticles Synthesized with Different Stabilizing Agents. **2018**, 30, 386-396		10
392	Decolorization of textile dyes by combination of gold nanocatalysts obtained from Acinetobacter sp. SW30 and NaBH4. **2018**, 9, 186-197		10
391	The reduction of 4-nitrophenol and 2-nitroaniline by palladium catalyst based on a KCC-1/IL in aqueous solution. **2018**, 32, e4251		26
390	Green synthesis of antimicrobial and antitumor N,N,N-trimethyl chitosan chloride/poly (acrylic acid)/silver nanocomposites. **2018**, 111, 706-716		17
389	Silver nanoparticles supported on ionic-tagged magnetic hydroxyapatite as a highly efficient and reusable nanocatalyst for hydrogenation of nitroarenes in water. **2018**, 32, e4226		10
388	In situ prepared nanosized Pt-Ag/PDA/PVA-co-PE nanofibrous membrane for highly-efficient catalytic reduction of p-nitrophenol. **2018**, 9, 11-16		22
387	Silver-attached reduced graphene oxide nanocomposite as an eco-friendly photocatalyst for organic dye degradation. **2018**, 44, 5597-5621		20
386	Synthesis of shape and size-dependent CuAg bimetallic dumbbell structures for organic pollutant hydrogenation. **2018**, 102, 44-49		5
385	A Facile and Convenient Route for Synthesis of Silver Biopolymer Gel Bead Nanocomposites by Different Approach Towards Immobilization and Its Catalytic Applications. **2018**, 148, 1514-1524		9
384	Cuscuta reflexa leaf extract mediated green synthesis of the Cu nanoparticles on graphene oxide/manganese dioxide nanocomposite and its catalytic activity toward reduction of nitroarenes and organic dyes. **2018**, 86, 158-173		101
383	Reduction of 2,4-Dinitrophenol to 2,4-Diaminophenol Using AuNPs and AgNPs as Catalyst. **2018**, 271, 76-84		10
382	Green synthesis of plant supported CuAg and CuNi bimetallic nanoparticles in the reduction of nitrophenols and organic dyes for water treatment. **2018**, 260, 78-91		124
381	Catalytic reduction of 2,4-dinitrophenylhydrazine by cuttlebone supported Pd NPs prepared using Conium maculatum leaf extract. **2018**, 12, 217-222		9
380	APTES-functionalized Fe3O4 microspheres supported Cu atom-clusters with superior catalytic activity towards 4-nitrophenol reduction. **2018**, 547, 28-36		19
379	Preparation, characterization and excellent catalytic activity of Cu/SBA-15 nanomaterials. **2018**, 25, 207-214		8
378	Strongly coupled Ag/TiO2 heterojunctions for effective and stable photothermal catalytic reduction of 4-nitrophenol. **2018**, 11, 126-141		55
377	4-Nitrophenol reduction catalysed by Au-Ag bimetallic nanoparticles supported on LDH: Homogeneous vs. heterogeneous catalysis. *Applied Clay Science*, **2018**, 151, 1-9	5.2	108

376	Applications of nanocomposite hydrogels for biomedical engineering and environmental protection. **2018**, 16, 113-146		123
375	Enhanced catalytic activity of Ag nanoparticles supported on polyacrylamide/polypyrrole/graphene oxide nanosheets for the reduction of 4-nitrophenol. *Applied Surface Science*, **2018**, 434, 522-533	6.7	56
374	Effect of processing parameters on preparation of carrageenan aerogel microparticles. **2018**, 180, 264-275		45
373	Eco-friendly synthesis from industrial wastewater of Fe and Cu nanoparticles over NaX zeolite and activity in 4-nitrophenol reduction. **2018**, 96, 1566-1575		9
372	Effective reduction of p-nitrophenol by silver nanoparticle loaded on magnetic Fe3O4/ATO nano-composite. *Applied Surface Science*, **2018**, 435, 599-608	6.7	27
371	Catalytic reduction of Nitrophenols using silver nanoparticles-supported activated carbon derived from agro-waste. **2018**, 6, 28-36		37
370	The reduction of 4-nitrophenol and 2-nitroaniline by the incorporation of Ni@Pd MNPs into modified UiO-66-NH2 metal–organic frameworks (MOFs) with tetrathia-azacyclopentadecane. *New Journal of Chemistry*, **2018**, 42, 988-994	3.6	39
369	Microwave assisted facile and green route for synthesis of CuO nanoleaves and their efficacy as a catalyst for reduction and degradation of hazardous organic compounds. **2018**, 353, 215-228		42
368	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	3.6	13
367	Synthesis, characterization, and antibacterial property of eco-friendly Ag/cellulose nanocomposite film. **2018**, 67, 420-426		13
366	Green Synthesis, Characterization and Applications of Noble Metal Nanoparticles Using Myxopyrum serratulum A. W. Hill Leaf Extract. **2018**, 8, 105-117		21
365	One-step green synthesis of composition-tunable Pt-Cu alloy nanowire networks with high catalytic activity for 4-nitrophenol reduction. **2018**, 47, 17461-17468		18
364	A convenient and efficient precursor transformation route to well-dispersed, stable, and highly accessible supported Au nanocatalysts with excellent catalytic hydrogenation performances.. **2018**, 8, 39384-39393		1
363	Preparation of bimetallic Au/Pt nanotriangles with tunable plasmonic properties and improved photocatalytic activity. **2018**, 47, 16969-16976		11
362	Kinetic investigation for the catalytic reduction of nitrophenol using ionic liquid stabilized gold nanoparticles.. **2018**, 8, 38384-38390		51
361	A new class of organocobaloximes based FeNi3/DFNS for reduction of 4-nitrophenol and 2-nitroaniline. **2018**, 877, 21-31		7
360	Exploring the Inhibitory and Antioxidant Effects of Fullerene and Fullerenol on Ribonuclease A. *ACS Omega*, **2018**, 3, 12270-12283	3.9	16
359	Silver nanoparticles assembled on modified sepiolite nanofibers for enhanced catalytic reduction of 4-nitrophenol. *Applied Clay Science*, **2018**, 166, 166-173	5.2	30

358	Green Synthesis of Metallic Nanoparticles Using Biopolymers and Plant Extracts. **2018**, 293-319		7
357	Green Synthesis of Silver, Copper and Iron Nanoparticles: Synthesis, Characterization and Their Applications in Wastewater Treatment. **2018**, 441-466		2
356	Catalytic Activities of Mono- and Bimetallic (Gold/Silver) Nanoshell-Coated Gold Nanocubes toward Catalytic Reduction of Nitroaromatics. *Langmuir*, **2018**, 34, 13897-13904	4	10
355	Magnetic Au-Ag-□Fe□/□rGO Nanocomposites as an Efficient Catalyst for the Reduction of 4-Nitrophenol. **2018**, 8,		5
354	Green Synthesis of Metal, Metal Oxide Nanoparticles, and Their Various Applications. **2018**, 1-45		15
353	Hidden Treasures for Nanomaterials Synthesis!. **2018**, 171-198		
352	Optimizing the synthesis conditions of silver nanoparticles using corn starch and their catalytic reduction of 4-nitrophenol. **2018**, 9, 025013		2
351	A novel multifunctional Ag and Sr co-doped TiO@rGO ternary nanocomposite with enhanced -nitrophenol degradation, and bactericidal and hydrogen evolution activity.. **2018**, 8, 31822-31829		13
350	Guar gum mediated synthesis of NiO nanoparticles: An efficient catalyst for reduction of nitroarenes with sodium borohydride. **2018**, 120, 2431-2441		23
349	Green synthesis of sheet-like cellulose nanocrystal□zinc oxide nanohybrids with multifunctional performance through one-step hydrothermal method. **2018**, 25, 6433-6446		19
348	Highly Efficient Photo-Reduction of p-Nitrophenol by Protonated Graphitic Carbon Nitride Nanosheets. **2018**, 10, 4747-4754		27
347	Fabrication of Ag@TiO2 electrospinning nanofibrous felts as SERS substrate for direct and sensitive bacterial detection. **2018**, 273, 600-609		42
346	Fabrication of novel ternary Au/CeO2@g-C3N4 nanocomposite: kinetics and mechanism investigation of 4-nitrophenol reduction, and benzyl alcohol oxidation. *Applied Physics A: Materials Science and Processing*, **2018**, 124, 1	2.6	22
345	WO3-x based composite material with chitosan derived nitrogen doped mesoporous carbon as matrix for oxygen vacancy induced organic pollutants catalytic reduction and IR driven H2 production. *Journal of Solid State Chemistry*, **2018**, 266, 23-30	3.3	7
344	Visible-enhanced photocatalytic performance of CuWO4/WO3 hetero-structures: incorporation of plasmonic Ag nanostructures. *New Journal of Chemistry*, **2018**, 42, 11109-11116	3.6	18
343	Ternary Composite of Biomass Porous Carbon/SnO2/Pt: An Efficient Catalyst for Reduction of Aromatic Nitro Compounds. *ChemistrySelect*, **2018**, 3, 5066-5072	1.8	3
342	Biosynthesized AgNP capped on novel nanocomposite 2-hydroxypropyl-□cyclodextrin/alginate as a catalyst for degradation of pollutants. **2018**, 197, 29-37		40
341	Application of Nanomaterials Prepared by Thermolysis of Metal Chelates. **2018**, 459-541		

340	A facile strategy for synthesis of Ni@C(N) nanocapsules with enhanced catalytic activity for 4-nitrophenol reduction. **2018**, 555, 170-179		22
339	Polymer Gels. **2018**,		2
338	Encapsulation of Gold Nanostructures and Oil-in-Water Nanocarriers in Microgels with Biomedical Potential. **2018**, 23,		14
337	Trace determination of Ag(I) after reduction to Ag nanoparticles and sol-gel entrapment by alginic acid hydrogel. **2018**, 15, 2675-2688		0
336	Spherical nanosilver: Bio-inspired green synthesis, characterizations, and catalytic applications. **2018**, 16, 234-249		23
335	Nanosilver: new ageless and versatile biomedical therapeutic scaffold. **2018**, 13, 733-762		110
334	-Amino acid assisted facile synthesis of two-dimensional ZnO nanotriangles for removal of noxious pollutants from water phase. **2018**, 6, 4970-4979		3
333	Microwave assisted rapid green synthesis of gold nanoparticles using Annona squamosa L peel extract for the efficient catalytic reduction of organic pollutants. **2018**, 1167, 305-315		50
332	Sunlight driven photocatalytic reduction of 4-nitrophenol on Pt decorated ZnO-RGO nanoheterostructures. *Materials Chemistry and Physics*, **2018**, 214, 364-376	4.4	41
331	Copper mesoporous materials as highly efficient recyclable catalysts for the reduction of 4-nitrophenol in aqueous media. **2018**, 150, 69-76		15
330	Facile Fabrication of Nickel/Heazlewoodite@Carbon Nanosheets and their Superior Catalytic Performance of 4-Nitrophenol Reduction. **2018**, 10, 4143-4153		19
329	Identifying the True Catalyst in the Reduction of 4-Nitrophenol: A Case Study Showing the Effect of Leaching and Oxidative Etching Using Ag Catalysts. **2018**, 8, 8879-8888		38
328	One-Pot Fabrication of Perforated Graphitic Carbon Nitride Nanosheets Decorated with Copper Oxide by Controlled Ammonia and Sulfur Trioxide Release for Enhanced Catalytic Activity. *ACS Omega*, **2018**, 3, 9318-9332	3.9	17
327	Novel Synthesis of Cu@ZnO and Ag@ZnO Nanocomposite via Green Method: A Comparative Study for Ultra-Rapid Catalytic and Recyclable Effects. **2018**, 148, 2561-2571		16
326	Ecofriendly Synthesis of Metal/Metal Oxide Nanoparticles and Their Application in Food Packaging and Food Preservation. **2018**, 197-216		5
325	Enhanced catalytic reduction of nitrophenols by sodium borohydride over highly recyclable Au@graphitic carbon nitride nanocomposites. **2019**, 240, 337-347		102
324	Synthesis and Catalytic Activities of Metal Shells (Monolayer, Bilayer, and Alloy Layer)-Coated Gold Octahedra toward Catalytic Reduction of Nitroaromatics. **2019**, 123, 21066-21075		5
323	Reducing agent free synthesis of palladium nanoparticles using Schiff base complex and study of its catalytic activity towards reduction of p-nitrophenol to p-aminophenol. **2019**, 20, 100379		2

322	Reduction of 4-Nitrophenol Using Ficin Capped Gold Nanoclusters as Catalyst. **2019**, 35, 636-640		2
321	Facile thermal fabrication of CuO nanoparticles from Cu(II)-Schiff base complexes and its catalytic reduction of 4-nitrophenol, antioxidant, and antimicrobial studies. **2019**, 23, 100259		10
320	Developing Multicompartment Biopolymer Hydrogel Beads for Tandem Chemoenzymatic One-Pot Process. *Catalysts*, **2019**, 9, 547	4	8
319	Biomimetic strategies to produce catalytically reactive CuS nanodisks. **2019**, 1, 2857-2865		6
318	Carbon Supported Gold Nanoparticles for the Catalytic Reduction of 4-Nitrophenol. **2019**, 7, 548		15
317	Ag Nanoparticles/AgWO Composite Formed by Electron Beam and Femtosecond Irradiation as Potent Antifungal and Antitumor Agents. **2019**, 9, 9927		24
316	Raspberry-like gold-decorated silica (SSx AMPS Au) nanoparticles for the reductive discoloration of dyes. **2019**, 1, 1		2
315	Agarose biopolymer coating on polyurethane sponge as host for catalytic silver metal nanoparticles. **2019**, 78, 105983		35
314	Synthesis of graphene quantum dots stabilized bimetallic AgRh nanoparticles and their applications. **2019**, 496, 119031		9
313	Plant-Metal Interactions. **2019**,		7
312	Microwave-assisted synthesis of l-histidine capped silver nanoparticles for enhanced photocatalytic activity under visible light and effectual antibacterial performance. **2019**, 30, 15168-15183		6
311	In Planta Synthesis of Nanomaterials for Environmental Remediation. **2019**, 283-307		2
310	Alginate aerogels carrying calcium, zinc and silver cations for wound care: Fabrication and metal detection. **2019**, 153, 104545		28
309	Rapid Catalytic Reduction of 4-Nitrophenol and Clock Reaction of Methylene Blue using Copper Nanowires. **2019**, 9,		39
308	Nanotechnology and its applications in environmental remediation: an overview. **2019**, 32, 227-237		13
307	Characterization of Cellulose/Silver Nanocomposites Prepared by Vegetable Oil-Based Microemulsion Method and Their Catalytic Performance to 4-Nitrophenol Reduction. **2019**, 27, 2943-2955		5
306	Melastoma Malabathricum Flower Extract Mediated Rapid Synthesis of Spherical Gold Nanoparticles. **2019**, 9, 133-141		2
305	Transformation from 3D Boron Organic Polymers to 1D Nanorod Arrays: Loading Highly Dispersed Nanometal for Green Catalysis. *ACS Applied Materials & Interfaces*, **2019**, 11, 43214-43222	9.5	10

304	Ultra-low-loading palladium nanoparticles stabilized on nanocrystalline Polyaniline (Pd@PANI): A efficient, green, and recyclable catalyst for the reduction of nitroarenes. **2019**, 33, e5159		1
303	Recruitment of various biological macromolecules in fabrication of gold nanoparticles: Overview for preparation and applications. **2019**, 140, 265-277		11
302	Controlled Production of Monodisperse Plant-Mediated AgNP Catalysts Using Microwave Chemistry: A Desirability-Function-Based Multiple-Response Optimization Approach. *ChemistrySelect*, **2019**, 4, 9300-9308	1.8	5
301	One-pot synthesis of porous silica-supported ultrafine Ni nanoparticles as efficient and stable catalyst for selective hydrogenation of benzophenone. **2019**, 259, 118111		8
300	An efficient and blistering reduction of 4-nitrophenol by green synthesized silver nanoparticles. **2019**, 1, 1		13
299	SnO2 Co-doped with Co and Ni: Synthesis, Characterization, and Catalytic Properties in Reduction of 4-Nitrophenol. **2019**, 93, 1778-1782		2
298	PdxCuy decorate hypercrosslinked network: Synthesis and application as efficient catalysts for the reduction of 4-nitrophenol and Suzuki-Miyaura coupling reaction. *Applied Surface Science*, **2019**, 495, 143584	6.7	8
297	Costus speciosus rhizome extract mediated synthesis of silver and gold nanoparticles and their biological and catalytic properties. *Inorganic and Nano-Metal Chemistry*, **2019**, 49, 249-259	1.2	7
296	Self-healing and high reusability of Au nanoparticles catalyst based on supramolecular hydrogel. **2019**, 583, 123954		8
295	Anchoring nickel nanoparticles on three-dimensionally macro-/mesoporous titanium dioxide with a carbon layer from polydopamine using polymethylmethacrylate microspheres as sacrificial templates. **2019**, 3, 224-232		57
294	Green synthesis of the Ag/Al2O3 nanoparticles using Bryonia alba leaf extract and their catalytic application for the degradation of organic pollutants. **2019**, 30, 3847-3859		13
293	Green synthesis of metal/metal oxide nanoparticles toward biomedical applications: Boon or bane. **2019**, 265-301		16
292	Multifunctional ternary composite films based on PLA and Ag/alginate microbeads: Physical characterization and silver release kinetics. **2019**, 98, 1159-1168		12
291	Ag-Nanoparticle-Bearing Poly(vinylidene fluoride) Nanofiber Mats as Janus Filters for Catalysis and Separation. *ACS Applied Materials & Interfaces*, **2019**, 11, 7397-7404	9.5	26
290	Green synthesis of nano silver on TiO2 catalyst for application in oxidation of thiophene. *Chemical Engineering Science*, **2019**, 199, 332-341	4.4	18
289	Catalytic reduction of 4-nitrophenol over graphene supported Cu@Ni bimetallic nanowires. *Materials Chemistry and Physics*, **2019**, 227, 64-71	4.4	26
288	Synergistic effects of multi-active sites in silver modified Bi⁰-BiVO toward efficient reduction of aromatic nitrobenzene. **2019**, 368, 530-540		22
287	The recyclability of alginate hydrogel particles used as a palladium catalyst support. **2019**, 73, 306-315		26

286	The Effect of Poly(vinylpyrrolidone) (PVP) on the Au Catalyzed Reduction of p-nitrophenol: The Fundamental Role of NaBH4.. *ChemistrySelect*, **2019**, 4, 608-616	1.8	10
285	Synthesis of catalytically active bimetallic nanoparticles within solution-processable metal-organic-framework scaffolds. **2019**, 21, 3954-3960		5
284	Plant-supported silver nanoparticles: Efficient, economically viable and easily recoverable catalyst for the reduction of organic pollutants. **2019**, 33, e4971		20
283	Enhanced photocatalytic H2 evolution by plasmonic and piezotronic effects based on periodic Al/BaTiO3 heterostructures. **2019**, 62, 513-520		79
282	Catalytic Activity of Bimetallic (Ruthenium/Palladium) Nano-alloy Decorated Porous Carbons Toward Reduction of Toxic Compounds. *Chemistry - an Asian Journal*, **2019**, 14, 2662-2675	4.5	19
281	Catalytic reduction of nitrophenols and dyes using silver nanoparticles @ cellulose polymer paper for the resolution of waste water treatment challenges. **2019**, 577, 548-561		85
280	A carboxylic acid functionalized SBA-15 supported Pd nanocatalyst: an efficient catalyst for hydrogenation of nitrobenzene to aniline in water. *New Journal of Chemistry*, **2019**, 43, 11871-11875	3.6	12
279	Synthesis of gold nanoparticles supported at graphene derivatives using green reductants and evaluation of their catalytic activity in 4-nitrophenol reduction. **2019**, 52, 165-174		1
278	Metallosurfactants derived Pd-NiO nanocomposite for remediation of nitrophenol in water. **2019**, 288, 111018		11
277	Catalytic Hydrogel Membrane Reactor for Treatment of Aqueous Contaminants. **2019**, 53, 6492-6500		11
276	Catalytic reduction of 4-nitrophenol and photocatalytic degradation of organic pollutants in water by copper oxide nanosheets. **2019**, 93, 58-69		36
275	Confinement of Cu nanoparticles in the nanocages of large pore SBA-16 functionalized with carboxylic acid: enhanced activity and improved durability for 4-nitrophenol reduction. **2019**, 48, 8227-8237		10
274	Facile Synthesis and Phase-Dependent Catalytic Activity of Cabbage-Type Copper Oxide Nanostructures for Highly Efficient Reduction of 4-Nitrophenol. **2019**, 149, 2519-2527		18
273	Synergistic catalysis of monometallic (Ag, Au, Pd) and bimetallic (Ag Au, Au Pd) versus trimetallic (Ag-Au-Pd) nanostructures effloresced via analogical techniques. **2019**, 287, 110975		54
272	Alginate-nanoparticles composites: kinds, reactions and applications. **2019**, 6, 092001		12
271	Antimicrobial and antibiofilm activity of biopolymer-Ni, Zn nanoparticle biocomposites synthesized using UANL-001L exopolysaccharide as a capping agent. **2019**, 14, 2557-2571		22
270	Deposition of Au nanoparticles on PDA-functionalized PVA beads as a recyclable catalyst for degradation of organic pollutants with NaBH4 in aqueous solution. *Journal of Alloys and Compounds*, **2019**, 793, 115-126	5.7	17
269	Novel approach to immobilize Au nanoclusters on micro/nanostructured carbonized natural lotus leaf as green catalyst with highly efficient catalytic activity. **2019**, 371, 876-884		23

268	Iron-loaded amine/thiol functionalized polyester fibers with high catalytic activities: a comparative study. **2019**, 48, 8384-8399		19
267	Synthesis of Fe3O4-DOPA-Cu Magnetically Separable Nanocatalyst: A Versatile and Robust Catalyst for an Array of Sustainable Multicomponent Reactions under Microwave Irradiation. **2019**, 149, 2180-2194		15
266	Cryochemical Approach To Develop Catalysts for Intensification of the Hydrodesulfurization Reaction. **2019**, 58, 6266-6277		4
265	Development of nickel-incorporated MCM-41 carbon composites and their application in nitrophenol reduction. **2019**, 7, 9618-9628		32
264	Ruthenium Supported on Ionically Cross-linked Chitosan-Carrageenan Hybrid MnFe2O4 Catalysts for 4-Nitrophenol Reduction. *Catalysts*, **2019**, 9, 254	4	11
263	Alginate: A Versatile Biopolymer for Functional Advanced Materials for Catalysis. **2019**, 357-375		6
262	Catalytic hydrogenation of p-nitrophenol using a metal-free catalyst of porous crimped graphitic carbon nitride. *Applied Surface Science*, **2019**, 480, 888-895	6.7	24
261	On the kinetics of catalytic hydrogenation over Pd nanoparticles regulated by various nucleosides. *Chemical Engineering Science*, **2019**, 201, 15-24	4.4	3
260	A comparative study of hexacyanoferrate-based Prussian blue analogue nanocrystals for catalytic reduction of 4-nitrophenol to 4-aminophenol. **2019**, 218, 138-145		23
259	Flexible Conductors from Brown Algae for Green Electronics. **2019**, 3, 1900001		5
258	One-pot green synthesis of gold nanoparticles and its supportive role in surface activation of non-woven fibers as heterogeneous catalyst. **2019**, 571, 101-109		12
257	A review on frontiers in plasmonic nano-photocatalysts for hydrogen production. **2019**, 44, 10453-10472		148
256	Insight into Catalytic Mechanisms for the Reduction of Nitrophenol via Heterojunctions of Gold Nanoclusters on 2D Boron Nitride Nanosheets. **2019**, 5, 784-791		18
255	Coral-like Au/TiO Hollow Nanofibers with Through-Holes as a High-Efficient Catalyst through Mass Transfer Enhancement. *Langmuir*, **2019**, 35, 4843-4848	4	18
254	Green synthesis, characterization and catalytic activity of 4-nitrophenol reduction and formation of benzimidazoles using bentonite supported zero valent iron nanoparticles. **2019**, 2, 298-307		29
253	Highly efficient reduction of 4-nitrophenolate to 4-aminophenolate by Au/FeO@HAP magnetic composites.. **2019**, 9, 10272-10281		2
252	Design of experiment for optimization of nitrophenol reduction by green synthesized silver nanocatalyst. **2019**, 144, 494-504		14
251	Development of a novel nanoprobe from alginate functionlized gold nanoparticles and 3-(dansylamino)phenylboronic acid for glucose detection and enhanced 4-nitrophenol reduction. **2019**, 475, 11-16		3

250	Green Synthesis of Metal, Metal Oxide Nanoparticles, and Their Various Applications. **2019**, 2281-2325		2
249	Influence of g-C3N4 and g-C3N4 nanosheets supported CuS coupled system with effect of pH on the catalytic activity of 4-NP reduction using NaBH4. **2019**, 14, 100088		29
248	Chemistry, Biology, and Surface Engineering of Sustainable Nanostructural Materials. **2019**, 25-52		
247	Best practices for reporting nanocatalytic performance: lessons learned from nitroarene reduction as a model reaction. *New Journal of Chemistry*, **2019**, 43, 17932-17936	3.6	9
246	Ni/NiO Nanocomposites with Rich Oxygen Vacancies as High-Performance Catalysts for Nitrophenol Hydrogenation. *Catalysts*, **2019**, 9, 944	4	4
245	Copper nanoparticles selectively encapsulated in an ultrathin carbon cage loaded on SrTiO as stable photocatalysts for visible-light H evolution via water splitting. **2019**, 55, 12900-12903		24
244	Synergetic effect of polydopamine particles and in-situ fabricated gold nanoparticles on charge-dependent catalytic behaviors. **2019**, 44, 63-70		5
243	One-pot green synthesis of bimetallic hollow palladium-platinum nanotubes for enhanced catalytic reduction of p-nitrophenol. **2019**, 539, 161-167		66
242	Encapsulation of AgNPs within Zwitterionic Hydrogels for Highly Efficient and Antifouling Catalysis in Biological Environments. *Langmuir*, **2019**, 35, 1563-1570	4	13
241	Hierarchically porous poly(ethylenimine) modified poly(styrene-co-divinylbenzene) microspheres for the adsorption of gold nanoparticles and simultaneously being transformed as the nanoparticles immobilized catalyst. **2019**, 366, 529-537		21
240	Chitosan nanocomposite fibers supported copper nanoparticles based perceptive sensor and active catalyst for nitrophenol in real water. **2019**, 207, 650-662		31
239	Time and temperature dependent formation of hollow gold nanoparticles via galvanic replacement reaction of As(0) and its catalytic application. **2019**, 9, 270-279		5
238	Fabrication of ultrafine nickel nanoparticles anchoring carbon fabric composites and their High catalytic performance. **2019**, 562, 146-153		15
237	Insight into the Catalytic Behavior in Nitroarenes Reduction over Non-Noble Metals Modified Polymer Carbon Nitride. *ChemistrySelect*, **2019**, 4, 190-195	1.8	4
236	Zeolitic imidazolate framework-derived Ag/C/ZnO for rapid reduction of organic pollutant. **2019**, 16, 1105-1111		6
235	Synthetic strategies and application of gold-based nanocatalysts for nitroaromatics reduction. **2019**, 652, 93-116		31
234	Highly chemoselective hydrogenation of nitroarenes catalyzed by 3,6-di(pyridin-2-yl)-1,2,4,5-s-tetrazine capped-silver nanoparticles in aqueous medium at room temperature. **2019**, 119, 62-66		4
233	Sub-nanometric Rh decorated magnetic nanoparticles as reusable catalysts for nitroarene reduction in water. **2019**, 119, 134-138		12

232	Preparation of highly-stable and recyclable novel Au/ZrP composite catalyst for 4-nitrophenol reduction. **2019**, 95, 525-531		7
231	Regular arrangement of Pt nanoparticles on S-layer proteins isolated from Lactobacillus kefiri: synthesis and catalytic application. **2020**, 481, 110262		7
230	Comparative study of different chitosan solutions to assist the green synthesis of gold nanoparticles under irradiation. **2020**, 169, 108250		9
229	Palladium Based-Polysaccharide Hydrogels as Catalysts in the Suzuki Cross-Coupling Reaction. **2020** , 30, 622-636		9
228	Acoustic cavitation assisted destratified clay tactoid reinforced in situ elastomer-mimetic semi-IPN hydrogel for catalytic and bactericidal application. **2020**, 60, 104797		33
227	A high performance recyclable magnetic CuFe2O4 nanocatalyst for facile reduction of 4-nitrophenol. *Materials Chemistry and Physics*, **2020**, 242, 122237	4.4	10
226	Pd nanoparticle incorporated mesoporous silicas with excellent catalytic activity and dual responsivity. **2020**, 585, 124074		14
225	Catalytic conversing heavy concentrations of nitroarenes to aminoarenes over Cu2O/Cu/SrTiO3 three-phase hybrid under flow conditions. **2020**, 245, 118919		3
224	Palladium nanoparticles supported on amine-functionalized alginate foams for hydrogenation of 3-nitrophenol. **2020**, 55, 2032-2051		6
223	Enhanced catalytic activity of CuO/Cu2O hybrid nanowires for reduction of 4-nitrophenol in water. *Journal of Physics and Chemistry of Solids*, **2020**, 136, 109143	3.9	24
222	Nanocatalytic Assemblies for Catalytic Reduction of Nitrophenols: A Critical Review. **2020**, 50, 322-338		35
221	Ultrasonic synthesis of g-C3N4/CdS composites and their photodegradation, catalytic reduction, antioxidant and antimicrobial studies. **2020**, 24, 210-228		9
220	Catalytic activity of gold for the electrochemical reduction of p-nitrophenol: analytical application. *International Journal of Environmental Analytical Chemistry*, **2020**, 100, 1566-1577	1.8	7
219	Morphology Controlled CuO Nanostructures for Efficient Catalytic Reduction of 4-Nitrophenol. **2020**, 150, 471-481		13
218	Heterostructured Nanocomposites of Ag Doped Fe3O4 Embedded in ZnO for Antibacterial Applications and Catalytic Conversion of Hazardous Wastes. **2020**, 30, 1944-1955		8
217	Magnetically recoverable nanocatalyst based on N-heterocyclic ligands: efficient treatment of environmental pollutants in aqueous media. **2020**, 22, 423-440		5
216	Metal-dependent nano-catalysis in reduction of aromatic pollutants. *Environmental Science and Pollution Research*, **2020**, 27, 6459-6475	5.1	17
215	Synthesis of MIL-101(Fe)/SiO2 composites with improved catalytic activity for reduction of nitroaromatic compounds. *Journal of Solid State Chemistry*, **2020**, 283, 121150	3.3	13

214	Mussel chemistry inspired synthesis of Pd/SBA-15 for the efficient reduction of 4-nitrophenol. *Journal of Physics and Chemistry of Solids*, **2020**, 138, 109250	3.9	2
213	Hemoglobin self-assembly and antibacterial activities of bio-modified Ag-MgO nanocomposites by different concentrations of Artemisia haussknechtii and Protoparmeliopsis muralis extracts. **2020**, 152, 1174-1185		18
212	Gold nanoparticles immobilised in a superabsorbent hydrogel matrix: facile synthesis and application for the catalytic reduction of toxic compounds. **2020**, 56, 1263-1266		7
211	Applications of layered double hydroxide biopolymer nanocomposites. **2020**, 599-676		1
210	On-Line Analysis of the Heterogeneous Pd-Catalyzed Transfer Hydrogenation of p-Nitrophenol in Water with Formic Acid in a Flow Reactor. **2020**, 24, 686-694		3
209	Synergistic effect of Cu loading on Fe sites of fly ash for enhanced catalytic reduction of nitrophenol. **2020**, 705, 134544		11
208	Noble metal nanoparticles-based heterogeneous bionano-catalysts supported on S-layer protein/polyurethane system. **2020**,		6
207	Star-shaped amino-functionalized poly(glycerol methacrylate)-stabilized gold nanoparticle composites with catalytic activity for reduction of 4-nitrophenol. **2020**, 319, 114119		2
206	Supported metal and metal oxide particles with proximity effect for catalysis.. **2020**, 10, 35449-35472		13
205	Peanut shell biotemplate to fabricate porous magnetic Co3O4 coral reef and its catalytic properties for p-nitrophenol reduction and oxidative dye degradation. **2020**, 604, 125328		10
204	A One-Step Facile Encapsulation of Zeolite Microcrystallites in Ordered Mesoporous Microspheres. **2020**, 59, 13923-13931		4
203	Mechanistic insights for efficient inactivation of antibiotic resistance genes: a synergistic interfacial adsorption and photocatalytic-oxidation process. **2020**, 65, 2107-2119		14
202	Energetic decomposition yields efficient bimetallic Cu MOF-derived catalysts. **2020**, 8, 15066-15073		5
201	Structural and catalytic properties of Fe3O4 doped Bi2S3 novel magnetic nanocomposites: p-Nitrophenol case. **2020**, 8, 104258		15
200	Fly ash supported Pd-Ag bimetallic nanoparticles exhibiting a synergistic catalytic effect for the reduction of nitrophenol. **2020**, 49, 11019-11026		5
199	Highly efficient, economic, and recyclable glutathione decorated magnetically separable nanocomposite for uranium(VI) adsorption from aqueous solution. **2020**, 18, 100379		5
198	Energy-Efficient Rational Designing of Multifunctional Nanocomposites by Preferential Anchoring of Metal Ions via Fermi Level Positioning of Carbon Nanostructures. *ACS Applied Materials & Interfaces*, **2020**,	9.5	4
197	Nano-biomaterials in-focus as sensing/detection cues for environmental pollutants. **2020**, 2, 100055		21

196	Influencing the Electron Density of Nanosized Au Colloids via Immobilization on MgO to Stimulate Surface Reaction Activities. *Langmuir*, **2020**, 36, 14203-14213	4	0
195	Controlled syntheses of Ag nanoparticles inside MOFs by using amine-borans as vapour phase reductants. **2020**, 49, 17169-17172		1
194	Gold/Konjac glucomannan bionanocomposites for catalytic degradation of mono-azo and di-azo dyes. **2020**, 120, 108156		14
193	Photocatalytic Materials for Reduction of Nitroarenes and Nitrates. **2020**, 124, 28345-28358		12
192	Simple Method for Directly Synthesizing Ag Nanoparticles with Silver Ammonia and Polydopamine in a Microreactor toward the Conversion of 4-NP to 4-AP. **2020**, 59, 16205-16216		3
191	Role of dissolved oxygen in nitroarene reduction by a heterogeneous silver textile catalyst in water. *New Journal of Chemistry*, **2020**, 44, 17780-17790	3.6	3
190	Efficient reduction of environmental pollutants using metal nanoparticles catalyst on calcium alginate surface. *International Journal of Environmental Analytical Chemistry*, **2020**, 1-17	1.8	2
189	Green Synthesis and Catalytic Activity of Silver Nanoparticles Based on Stem Extracts. **2020**, 10,		22
188	Photocatalytic activity of composites in an AgBrAg2CrO4 system prepared by a grinding method with and without washing. **2020**, 31, 14203-14212		
187	Green Synthesis of Metallic Nanoparticles and Their Potential Applications to Treat Cancer. **2020**, 8, 799		112
186	Facile Synthesis, Characterization, Anti-Microbial and Anti-Oxidant Properties of Alkylamine Functionalized Dumb-Bell Shaped Copper-Silver Nanostructures. **2020**, 10, 966		1
185	Characterization of coatings on metallic nanoparticles by surface-enhanced Raman scattering (SERS) for environmental purposes. **2020**, 19, e20076		1
184	Ag nanoparticles stabilized on cubic polyhedral oligomeric silsesquioxane cross-linked poly(N-isopropyl acrylamide-co-itaconic acid): An efficient catalyst for 4-nitrophenol reduction. **2020**, 13, 2051040		2
183	Ag doped CuO thin film prepared via pulsed laser deposition for 4-nitrophenol degradation. **2020**, 8, 104104		43
182	Scale-Up of Cluster Beam Deposition to the Gram Scale with the Matrix Assembly Cluster Source for Heterogeneous Catalysis (Catalytic Ozonation of Nitrophenol in Aqueous Solution). *ACS Applied Materials & Interfaces*, **2020**, 12, 24877-24882	9.5	5
181	Electrospun Foamlike NiO/CuO Nanocomposites with Superior Catalytic Activity toward the Reduction of 4-Nitrophenol. *ACS Omega*, **2020**, 5, 11324-11332	3.9	10
180	Green synthesis of nanomaterials - A scientometric assessment. **2020**, 267, 122036		30
179	Bioinspired synthesis of multifunctional silver nanoparticles for enhanced antimicrobial and catalytic applications with tailored SPR properties. **2020**, 17, 100285		11

178	Recent progress in controlling the synthesis and assembly of nanostructures: Application for electrochemical determination of p-nitroaniline in water. **2020**, 219, 121234	7
177	Synthesis and catalytic practicality of CeO2 nanoparticle: an excellent heterogenous candidate for 4-nitrophenol reduction. **2020**, 10, 3443-3455	8
176	On the Remarkable Performance of Silver-based Alloy Nanoparticles in 4-Nitrophenol Catalytic Reduction. **2020**, 12, 4680-4688	9
175	Facile green synthesis of silver nanoparticles using Terminalia bellerica kernel extract for catalytic reduction of anthropogenic water pollutants. **2020**, 37, 100276	35
174	Fabrication of efficient CuO / graphitic carbon nitride based heterogeneous photo-Fenton like catalyst for degradation of 2, 4 dimethyl phenol. **2020**, 142, 63-75	41
173	Green Nanomaterials. **2020**,	3
172	Synthesis and crystal structure of a new copper (II) complex, designed to produce efficient successor of Cu2O, toward synergy of adsorption and photodegradation of MB. **2020**, 34, e5639	2
171	Synthesis, characterisation and photocatalytic activity of silver nanoparticles stabilised by Punica granatum seeds extract. **2020**, 1-10	7
170	Low-cost synthesis of Cu/Fe2O3 from natural HFeO2: Application in 4-nitrophenol reduction. **2020**, 8, 104214	9
169	Evaluation of catalytic activity of cellulose films decorated with gold nanoparticles in the reduction of 4-nitrophenol. **2020**, 27, 3919-3929	10
168	Morphology-dependent interfacial interactions of FeO with Ag nanoparticles for determining the catalytic reduction of p-nitrophenol. **2020**, 92, 1-10	5
167	Superparamagnetic alginate-based nanocomposite modified by L-arginine: An eco-friendly bifunctional catalysts and an efficient antibacterial agent. **2020**, 152, 834-845	12
166	Activity and stability of the catalytic hydrogel membrane reactor for treating oxidized contaminants. **2020**, 174, 115593	6
165	Catalytic reduction of 4-nitrophenol using gold-silver alloy nanoparticles coated on alkali activated sand. **2020**, 28, 1097-1100	2
164	Novel hybrid materials based on alginate-boehmite-riboflavin for photogeneration of reactive oxygen species in aqueous media. Potential environmental implications. **2020**, 177, 108281	4
163	On the Overlooked Critical Role of the pH Value on the Kinetics of the 4-Nitrophenol NaBH4-Reduction Catalyzed by Noble-Metal Nanoparticles (Pt, Pd, and Au). **2020**, 124,	38
162	Band-gap engineering using metal-semiconductor interfaces for photocatalysis and supercapacitor application. **2020**, 391-451	
161	In situ immobilization of ultra-fine Ag NPs onto magnetic Ag@RF@FeO core-satellite nanocomposites for the rapid catalytic reduction of nitrophenols. **2020**, 179, 115882	32

160	Microwave-mediated synthesis of silver nanoparticles on various metal-alginate composites: evaluation of catalytic activity and thermal stability of the composites in solvent-free acylation reaction of amine and alcohols. **2020**, 2, 1		2
159	Ag(I)-Hived Fullerene Microcube as an Enhanced Catalytic Substrate for the Reduction of 4-Nitrophenol and the Photodegradation of Orange G Dye. *Langmuir*, **2020**, 36, 5236-5242	4	6
158	Preparation and catalytic evaluation of Au/AlO nanoparticles for the conversion of 4-nitrophenol to 4-aminophenol by spectrophotometric method. **2020**, 44, 448-460		1
157	A green method to prepare magnetically recyclable Bi/Bi25FeO40-C nanocomposites for photocatalytic hydrogen generation. *Applied Surface Science*, **2020**, 521, 146342	6.7	6
156	Critical analysis of various supporting mediums employed for the incapacitation of silver nanomaterial for aniline and phenolic pollutants: A review. **2021**, 38, 248-263		7
155	One pot synthesis of nano Ag in calcium alginate beads and its catalytic application in p -Nitrophenol reduction with kinetic parameter estimation and model fitting. **2021**, 99, 359-373		2
154	Sodium borohydride assisted reduction of toxic pollutants by silver coordinated melamine based polymeric material. **2021**, 44, 444-452		1
153	Simple and Efficient Synthesis of Various Sized Gold Nanoparticles for the Selective Electrochemical Determination of Dopamine. **2021**, 54, 1068-1084		1
152	Facile synthesis of Ce-doped SnO2 nanoparticles with enhanced performance for photocatalytic degradation of organic dye. **2021**, 18, 13-27		7
151	In situ synthesis of gold nanoparticles on novel nanocomposite lactose/alginate: Recyclable catalysis and colorimetric detection of Fe(III). **2021**, 251, 116998		15
150	Green synthesis of nano-silver-titanium nanotube array (Ag/TNA) composite for concurrent ibuprofen degradation and hydrogen generation. **2021**, 264, 128407		12
149	A copper diimine-based honeycomb-like porous network as an efficient reduction catalyst. **2021**, 35,		2
148	A novel strategy to construct supported silver nanocomposite as an ultra-high efficient catalyst. **2021**, 283, 119592		10
147	One-Pot Biosynthesis of Maghemite (Fe2O3) Nanoparticles in Aqueous Extract of Ficus carica Fruit and Their Application for Antioxidant and 4-Nitrophenol Reduction. **2021**, 12, 3575-3587		4
146	UiO-66/btb/Pd as a stable catalyst reduction of 4-nitrophenol into 4-aminophenol. **2021**, 124, 108382		3
145	4-Nitrophenol imprinted core-shell poly(N-isopropylacrylamide-acrylic acid)/poly(acrylic acid) microgels loaded with cadmium nanoparticles: A novel catalyst. *Materials Chemistry and Physics*, **2021**, 260, 124156	4.4	3
144	Copper triazine polycarboxylic acid crystalline framework materials: Synthesis, structure and multifunctional properties with the luminescent and catalytic reduction of 4-NP. **2021**, 195, 114966		1
143	Biomolecule-assisted synthesis of biomimetic nanocomposite hydrogel for hemostatic and wound healing applications. **2021**, 23, 629-669		26

142	Fabrication of Nitrogen-Enriched Graphene Oxide on the DFNS/Metal NPs as a Nanocatalysts for the Reduction of 4-Nitrophenol and 2-Nitroaniline. **2021**, 151, 1882-1893		1
141	Study on catalytic efficiency of platinum and silver nanoparticles confined in nanosized channels of a 3-D mesostructured silica. **2021**, 28, 65-79		2
140	Simultaneous catalytic reduction of p-nitrophenol and hydrogen production on MIL-101(Fe)-based composites. *New Journal of Chemistry*, **2021**, 45, 3120-3127	3.6	5
139	Green Synthesis and Application of Metal and Metal Oxide Nanoparticles. **2021**, 831-857		
138	Halometallic ionic liquid incorporated graphene nanosheets (IMD-Si/FeCl4@GNS): A highly efficient catalyst for the reduction of 4-nitrophenol and nonenzymatic glucose sensing. **2021**, 4, 100101		2
137	Synthesis of biopolymer-based metal nanoparticles. **2021**, 255-316		3
136	Green Synthesis and Application of Metal and Metal Oxide Nanoparticles. **2021**, 1-27		0
135	Tuning of structural and optical properties with enhanced catalytic activity in chemically synthesized Co-doped MoS nanosheets.. **2021**, 11, 1303-1319		9
134	Green Synthesis of Reduced Graphene Oxide-Supported Palladium Nanoparticles by Coleus amboinicus and Its Enhanced Catalytic Efficiency and Antibacterial Activity. **2021**, 11, 134		2
133	Mechanistic aspects and rate-limiting steps in green synthesis of metal and metal oxide nanoparticles and their potential in photocatalytic degradation of textile dye. **2021**, 605-630		4
132	Biodegradability properties of biopolymers. **2021**, 231-251		
131	Designing heterostructured core@satellite Prussian Blue Analogue@Au/Ag nanoparticles: Effect on the magnetic properties and catalytic activity. **2021**, 8, 2248-2260		2
130	Spectrophotometric analysis of stability of gold nanoparticles during catalytic reduction of 4-nitrophenol. **2021**, 45, 82-91		1
129	Green synthesis of highly dispersed Ag nanoparticles on polydopamine-functionalized graphene oxide and their high catalytic reduction reaction. *Microporous and Mesoporous Materials*, **2021**, 314, 110861	5.3	3
128	One-Pot Synthesis of a Three-Dimensional Au-Decorated Cellulose Nanocomposite as a Surface-Enhanced Raman Scattering Sensor for Selective Detection and in Situ Monitoring. **2021**, 9, 3324-3336		5
127	Metal-Immobilized Micellar Aggregates of a Block Copolymer from a Mixed Solvent for a SERS-Active Sensing Substrate and Versatile Dip Catalysis. *Langmuir*, **2021**, 37, 2445-2456	4	3
126	Purification and immobilization of His-tagged organophosphohydrolase on yolk-shell Co/C@SiO2@Ni/C nanoparticles for cascade degradation and detection of organophosphates. **2021**, 167, 107895		4
125	Kinetics of the Reduction of 4-Nitrophenol by Silver Nanoparticles Immobilized in Thermoresponsive Core-Shell Nanoreactors. **2021**, 60, 3922-3935		8

124	Development of sustainable and efficient nanocatalyst based on polyoxometalate/nickel oxide nanocomposite: A simple and recyclable catalyst for reduction of nitroaromatic compounds. **2021**, 68, 1487-1495		0
123	Ferrocene-based metal-organic framework for highly efficient recovery of gold from WEEE. **2021**, 410, 128360		15
122	Enhanced Catalysis of Plasmonic Silver Nanoparticles by a Combination of Macro-/Mesoporous Nanostructured Silica Support. **2021**, 125, 9150-9157		2
121	Magnetite-Silica core-shell nanocomposites decorated with silver nanoparticles for enhanced catalytic reduction of 4-nitrophenol and degradation of methylene blue dye in the water. **2021**, 9, 104948		13
120	A facile and green synthesis of CuO/NiO nanoparticles and their removal activity of toxic nitro compounds in aqueous medium. **2021**, 271, 129475		22
119	Ag Microplasma-Engineered Nanoassemblies on Cellulose Papers for Surface-Enhanced Raman Scattering and Catalytic Nitrophenol Reduction. *ACS Applied Nano Materials*, **2021**, 4, 6364-6375	5.6	2
118	Preparation of Noble Metal Nanoparticles and Hydrogel Composite Materials and Their Application in Analytical Chemistry. **2021**, 49, 676-685		3
117	Bioprospecting of Natural Compounds for Industrial and Medical Applications. **2021**, 53-71		0
116	Biogenic Synthesis of Gold Nanoparticles on a Green Support as a Reusable Catalyst for the Hydrogenation of Nitroarene and Quinoline. *Chemistry - an Asian Journal*, **2021**, 16, 1956-1966	4.5	8
115	Carbon-Dots-Initiated Photopolymerization: An Synthetic Approach for MXene/Poly(norepinephrine)/Copper Hybrid and its Application for Mitigating Water Pollution. *ACS Applied Materials & Interfaces*, **2021**, 13, 31038-31050	9.5	23
114	Green synthesis of NiO nanoparticles using Nigella sativa extract and their enhanced electro-catalytic activity for the 4-nitrophenol degradation. *Journal of Physics and Chemistry of Solids*, **2021**, 153, 110020	3.9	14
113	Au/Ag nanoparticles-decorated TiO2 with enhanced catalytic activity for nitroarenes reduction. **2021**, 621, 126614		4
112	Facile and green fabrication of efficient Au nanoparticles catalysts using plant extract via a mesoporous silica-assisted strategy. **2021**, 621, 126580		3
111	Biogenic Synthesis and Catalytic Efficacy of Silver Nanoparticles Based on Peel Extracts of Fruit. *ACS Omega*, **2021**, 6, 18260-18268	3.9	6
110	Elimination of dyes by catalytic reduction in the absence of light: A review. **2021**, 56, 15572-15608		8
109	The Polymeric Matrix Composition of Biofilms Modulate Resistance to Silver Nanoparticles Prepared by Hydrothermal Synthesis. *ACS Applied Materials & Interfaces*, **2021**, 13, 35356-35364	9.5	3
108	Ultrasound-assisted wet-impregnation of AgCo nanoparticles on cellulose nanofibers: Enhanced catalytic hydrogenation of 4-nitrophenol. **2021**, 9, 105719		3
107	Solvent-free synthesis of N-doped carbon-based catalyst for high-efficient reduction of 4-nitrophenol. **2021**, 9, 105649		1

106	Copper-based composites derived from metal-organic frameworks on carbohydrates-rich corncobs as efficient catalysts for organic compounds removal. *Applied Surface Science*, **2021**, 151396	6.7	1
105	Iron oxide-loaded alginate-bentonite hydrogel beads as a green and sustainable catalyst for 4-nitrophenol reduction. *Materials Today Communications*, **2021**, 28, 102588	2.5	2
104	Nanoflakes-like nickel cobaltite as active electrode material for 4-nitrophenol reduction and supercapacitor applications. **2021**, 419, 126453		15
103	Immobilization of size variable Au nanoparticles on surfactant-modified silica and their catalytic application toward 4-nitrophenol reduction: A comparative account of catalysis. **2021**, 26, 101423		1
102	Spectroscopic and morphological characterization of Nephelium lappaceum peel extract synthesized gold nanoflowers and its catalytic activity. **2021**, 133, 108868		4
101	Tannic Acid: A green and efficient stabilizer of Au, Ag, Cu and Pd nanoparticles for the 4-Nitrophenol Reduction, Suzuki-Miyaura coupling reactions and click reactions in aqueous solution. **2021**, 604, 281-291		3
100	Catalytic applications of biopolymer-based metal nanoparticles. **2021**, 423-516		3
99	Diagnosing metabolic diseases by nanoparticle immobilization. **2021**, 211-222		
98	Biosynthesis and Applications of Metal Nanomaterials. **2020**, 139-157		2
97	Metal nanoparticles containing chitosan wrapped cellulose nanocomposites for catalytic hydrogen production and reduction of environmental pollutants. **2020**, 242, 116286		23
96	Enzyme-mimetic activity of sugar cane juice stabilized CuO nanospheres and CuO/GO nanocomposite: Green synthesis and applications. **2020**, 35, 100239		8
95	Impact of nanoceria shape on degradation of diethyl paraoxon: Synthesis, catalytic mechanism, and water remediation application. **2020**, 188, 109653		3
94	Reduction of 4-nitrophenol and 2-nitroaniline using immobilized CoMnO NPs on lignin supported on FPS.. **2020**, 10, 19553-19561		9
93	Matrix-specific mechanism of Fe ion release from laser-generated 3D-printable nanoparticle-polymer composites and their protein adsorption properties. **2020**, 31, 405703		6
92	Efficient synthesis of palladium nanoparticles using guar gum as stabilizer and their applications as catalyst in reduction reactions and degradation of azo dyes. **2019**, 9, 63-76		17
91	Metal Nanoparticles from Algae: A Green Approach for the Synthesis, Characterization and their Biological Activity. **2020**, 10, 185-202		4
90	Amine functional silica-supported bimetallic Cu-Ni nanocatalyst and investigation of some typical reductions of aromatic nitro-substituents. 1		2
89	Fabrication of Ag nanoparticles supported on amino-functionalized peeled-watermelon structured silica-coated nano-Fe3O4 with enhanced catalytic activity for reduction of 4-nitrophenol. **2021**, 45, 100521		1

88	Progresses in chitin, chitosan, starch, cellulose, pectin, alginate, gelatin and gum based (nano)catalysts for the Heck coupling reactions: A review. **2021**, 192, 771-819		9
87	Structural Study of a Gold Nanoparticle/Sugar-type Surfactant Complex by SANS, SAXS, TEM, and EXAFS Techniques. **2015**,		
86	Alginates: Micro- and Nanoparticles. 112-125		
85	Catalytic Activity of BiVO4-graphene Nanocomposites for the Reduction of Nitrophenols and the Photocatalytic Degradation of Organic Dyes. **2016**, 51, 240-249		
84	Polysaccharide-Based Polymer Gels. **2018**, 147-229		0
83	DL-Valine assisted fabrication of quercetin loaded CuO nanoleaves through microwave irradiation method: Augmentation in its catalytic and antimicrobial efficiencies. **2020**, 14, 100306		3
82	Catalytic reduction of 4-nitrophenol to 4-aminphenol in water using metal nanoparticles. **2022**, 237-261		0
81	Different Confined Noble-Metal Nanoparticles Catalysts on Porous g-C3N4 and Enhanced Catalytic Activity. **2020**, 10, 495-505		
80	Gold-Loaded Mesoporous Organosilica-Silica Core-Shell Nanoparticles as Catalytic Nanoreactors. **2020**, 2020, 3967-3976		2
79	Antibacterial Films of Alginate-CoNi-Coated Cellulose Paper Stabilized Co NPs for Dyes and Nitrophenol Degradation. *Polymers*, **2021**, 13,	4.5	3
78	Advancement of Microwave-Assisted Biosynthesis for Preparing Au Nanoparticles Using Extract and Evaluation of Their Catalytic Reduction of 4-Nitrophenol. *ACS Omega*, **2021**, 6, 32198-32207	3.9	2
77	Synthesis of bimetallic CoPt/cellulose nanocomposites for catalytic reduction of p-nitrophenol. *Reaction Chemistry and Engineering*,	4.9	0
76	Benign by design: porous spherical ZnO-alginate family via a dual-template synthesis. *Applied Surface Science*, **2022**, 580, 152231	6.7	0
75	Construction of novel Ag@SrNbO/LDH ternary hybrid with high catalytic performance towards the reduction of 4-nitrophenol. *Applied Surface Science*, **2022**, 581, 152425	6.7	4
74	Catalytic reduction of 4-nitrophenol using CuO@NaTi(PO)?HO.. **2022**, 1-15		1
73	Green nanomaterials for environmental applications. **2022**, 365-396		2
72	Silver monoliths and their applications in catalytic reduction of 4-NP to 4-AP and sensing against As3+. **2022**, 29, 459		0
71	Discretization and Encapsulation of Palladium inside the Cavity of Crown Ether within the Interlayer of Layered Double Hydroxide for Enhanced Activity: A Case Study with Hydrogenation Reaction. 2101712		0

70	Advances on catalytic reduction of 4-nitrophenol by nanostructured materials as benchmark reaction. 1		5
69	Cobalt with porous carbon architecture: Towards of 4-nitrophenol degradation and reduction. **2022** , 288, 120595		3
68	Morphology-controlled synthesis of gold nanoparticles with chitosan for catalytic reduction of nitrophenol. **2022**, 640, 128471		1
67	Two-dimensional MXene enabled carbon quantum dots@Ag with enhanced catalytic activity towards the reduction of -nitrophenol.. **2022**, 12, 4836-4842		2
66	Functionalized hybrid magnetic catalytic systems on micro- and nanoscale utilized in organic synthesis and degradation of dyes.		10
65	Fabrication of tailored rod-shaped carbon nitride, g-C3N4, decorated with MoSe2 flowers for catalytic reduction of nitrophenol, organic dye degradation and biocompatibility studies. *New Journal of Chemistry*,	3.6	
64	Coumarin Derivative Induced 3D Organo-Silver(I) Complex with Tandem Hydrazine Detection and 4-Nitrophenol Catalysis. 2100186		0
63	Biodegradable Polymeric Nanocomposites for Wastewater Treatment. **2022**, 245-298		1
62	Ultrathin g-PAN/PANI-encapsulated Cu nanoparticles decorated on SrTiO3 with high stability as an efficient photocatalyst for the H2 evolution and degradation of 4-nitrophenol under visible-light irradiation.		0
61	Biosynthesis of zerovalent iron nanoparticles for catalytic reduction of 4-Nitrophenol and decoloration of textile dyes.. *Biotechnology and Applied Biochemistry*, **2022**,	2.8	0
60	Effect of Europium, Yttrium and Lutetium Doping on the Photocatalytic Property of CeO 2 Nanoparticles in the Reduction of p-nitrophenol under Visible Light. *ChemistrySelect*, **2022**, 7,	1.8	1
59	Sidechain Metallopolymers with Precisely Controlled Structures: Synthesis and Application in Catalysis.. *Polymers*, **2022**, 14,	4.5	0
58	Antibacterial, Cytotoxic, and Catalytic Potential of Aqueous Amaranthus tricolorMediated Green Gold Nanoparticles. *Plasmonics*, 1	2.4	1
57	Functional Materials for DLP-SLA 3D Printing Using Thiol–Acrylate Chemistry: Resin Design and Postprint Applications. *ACS Applied Polymer Materials*,	4.3	3
56	Spherical covalent organic framework supported Cu/Ag bimetallic nanoparticles with highly catalytic activity for reduction of 4-nitrophenol. *Journal of Solid State Chemistry*, **2022**, 123116	3.3	0
55	Investigation of two bioinspired reaction mechanisms for the optimization of nano catalysts generated from hyperbranched polymer matrices. *Reactive and Functional Polymers*, **2022**, 174, 105238	4.6	1
54	Plasmon assisted optical absorption and reduced charge recombination for improved device performance in polymer solar cell. *Journal of Physics and Chemistry of Solids*, **2022**, 165, 110662	3.9	1
53	Effect of Structural Features of Polymer Gels Containing Au Nanoparticles on Their Catalytic Properties. *Journal of Chemical Engineering of Japan*, **2021**, 54, 648-656	0.8	

52	Palladium Nanoparticles Supported on Cellulosic Paper as Multifunctional Catalyst for Coupling and Hydrogenation Reactions.. *Chemistry - an Asian Journal*, **2021**, e202101195	4.5	0
51	Self-Supporting g-C3N4 Nanosheets/Ag Nanoparticles Embedded onto Polyester Fabric as Dip-Catalyst for Synergic 4-Nitrophenol Hydrogenation. *Catalysts*, **2021**, 11, 1533	4	0
50	Synthesis of Biogenic Silver Nanocatalyst and their Antibacterial and Organic Pollutants Reduction Ability.. *ACS Omega*, **2022**, 7, 14723-14734	3.9	2
49	Compatible with excellent gold/palladium trap and open sites for green Suzuki coupling by an imidazole-modified MOF. *Microporous and Mesoporous Materials*, **2022**, 337, 111877	5.3	0
48	Recyclable Ag/halloysite nanotubes/polyvinyl alcohol sponges for enhanced reduction of 4-nitrophenol. *Applied Clay Science*, **2022**, 223, 106510	5.2	2
47	Distinguished performance of biogenically synthesized reduced-graphene-oxide-based mesoporous Au-Cu2O/RGO ternary nanocomposites for sonocatalytic reduction of nitrophenols in water. *New Journal of Chemistry*,	3.6	1
46	Solvent effects on the kinetics of 4-nitrophenol reduction by NaBH4 in the presence of Ag and Au nanoparticles. *Reaction Chemistry and Engineering*,	4.9	0
45	Green synthesis, characterization, and catalytic application of a supported and magnetically isolable copper-iron oxide-sodium alginate. *Green Synthesis and Catalysis*, **2022**,	9.3	0
44	Photocatalytic Removal of Cr(VI) by Thiourea Modified Sodium Alginate/Biochar Composite Gel. *Gels*, **2022**, 8, 293	4.2	0
43	The Co3O4 nanosheet hybridized with silver nanoparticles affords long-acting synergetic antimicrobial and catalytic degradation activity. *Journal of Alloys and Compounds*, **2022**, 165284	5.7	0
42	Silver nanostructures prepared via novel green approach as an effective platform for biological and environmental applications.. *Saudi Journal of Biological Sciences*, **2022**, 29, 103296	4	2
41	An Overview of Green Synthesis and Potential Pharmaceutical Applications of Nanoparticles as Targeted Drug Delivery System in Biomedicines.. *Drug Research*, **2022**,	1.8	0
40	Controllable Synthesis of Cobalt-Containing Nanosheet Array-Like Ternary CuCoAl-LDH/rGO Hybrids To Boost the Catalytic Efficiency for 4-Nitrophenol Reduction. *ACS Applied Materials & Interfaces*,	9.5	2
39	Synthesis, characterization and catalytic studies of bimetallic heteronuclear complexes for the reduction of nitroaromatic compounds. *Inorganic and Nano-Metal Chemistry*, 1-12	1.2	
38	Facile synthesis of nanomaterials as nanofertilizers: a novel way for sustainable crop production. *Environmental Science and Pollution Research*,	5.1	0
37	Plasma-enabled synthesis of Pd/GO rich in oxygen-containing groups and defects for highly efficient 4-nitrophenol reduction. *Applied Surface Science*, **2022**, 597, 153727	6.7	1
36	Efficient AuPd catalysts with layered material supporters for the reduction of 4-nitrophenol. *Journal of Nanoparticle Research*, **2022**, 24,	2.3	
35	Chapter 1. Introduction of Nanotechnology and Sustainability. *RSC Nanoscience and Nanotechnology*, **2022**, 1-32		0

34	Exploring the catalytic activity of Nb4C3Tx MXene towards degradation of nitro compounds and organic dyes by in situ decoration of palladium nanoparticles. *New Journal of Chemistry*,	3.6	
33	Optimization strategy for green synthesis of silver nanoparticles (AgNPs) as catalyst for the reduction of 2,4-dinitrophenol via supported mechanism. *Applied Physics A: Materials Science and Processing*, **2022**, 128,	2.6	0
32	In situ deposition of Ag nanoparticles onto PE/rGO hybrids for the dip-catalytic hydrogenation of 4-nitrophenol into 4-aminophenol. *International Journal of Environmental Analytical Chemistry*, 1-19	1.8	0
31	Kinetics of light assisted catalytic reduction of 4-NP over Ag/PDA. *Chemical Engineering Science*, **2022**, 259, 117778	4.4	1
30	Preparation of Fe3O4-Cys-Cu magnetic nanocatalyst for expedient synthesis of tripodal C3 symmetric chromofluorogenic receptor for sensing of fluoride ion selectively: An experimental and computational slant. *Materials Chemistry and Physics*, **2022**, 288, 126360	4.4	0
29	Photocatalytic Reduction of 4-Nitrophenol over Bismuth Sulfur/Titanium Dioxide Heterojunction: Influence of Bismuth Sulfur Content on the Reaction Efficiency. *Journal of Nano Research*, 74, 47-57	1	
28	Reduction of 4-nitrophenol using copper loaded surfactant-modified chitosan beads: An approach towards sludge management. *Materials Today Communications*, **2022**, 104044	2.5	1
27	Efficient reduction of organic pollutants and H2 generation using bimetallic nanoparticles coated alginate hydrogel beads. *Microporous and Mesoporous Materials*, **2022**, 341, 112065	5.3	0
26	Temperature- and pH-Responsive Hydrogel Nanoparticles with Embedded Au Nanoparticles as Catalysts for the Reduction of Dyes. *ACS Applied Nano Materials*,	5.6	1
25	Studies of surface plasmon resonance of silver nanoparticles reduced by aqueous extract of shortleaf spikesedge and their catalytic activity. *International Journal of Phytoremediation*, 1-12	3.9	0
24	Role of Surface Oxygen Vacancies and Oxygen Species on CuO Nanostructured Surfaces in Model Catalytic Oxidation and Reductions: Insight into the Structure–Activity Relationship Toward the Performance.		0
23	Synthesis of Ag nanoparticles by Celery leaves extract supported on magnetic biochar substrate, as a catalyst for the reduction reactions. **2022**, 12,		1
22	CuAu bimetallic plasmonic-enhanced catalysts supported on alginate biohydrogels. **2022**, 120021		0
21	Hybrid Alginate–Brushite Beads Easily Catalyze the Knoevenagel Condensation On-Water. **2022**, 7, 27831-27838		0
20	Nickel on Oxidatively Modified Carbon as a Promising Cost-Efficient Catalyst for Reduction of P-Nitrophenol. **2022**, 27, 5637		0
19	Use of surfactant bilayer modified silica for evolution and application of size variable solid Ag nanoparticle catalyst. **2022**, 290, 126579		0
18	Facile synthesis of green and efficient copper-based magnetically recoverable nanocatalyst for the reduction of nitrophenol derivatives. **2022**, 365, 120189		0
17	Amyloid-templated polydopamine nanofibers for catecholic immobilization of catalytic noble metal nanoparticles. **2022**, 58, 9156-9159		0

16	Application of the Ugi reaction for preparation of submicron capsules based on sugar beet pectin.	0
15	Green Synthesis and Applications of Silver Nanoparticles: A Systematic Review. 247234442211198	2
14	Food additives for the synthesis of metal nanoparticles: a review.	0
13	DFT supported experimental investigation of strain induced interfacial modification in Au-Ag bimetallic nanoparticles coated on activated sand. **2022**, 11, 100315	0
12	Preparation of Highly Concentrated Uniform-Sized Silver Nanoparticles via Use of Thermoresponsive Zwitterionic Surfactants.	0
11	Catalytic efficiency of copper nanoparticles modified silica-alginate hydrogel nanocomposite towards reduction of water pollutants and H2 generation. **2022**,	0
10	Fabrication of Ag/TiO2 membrane on Ti substrate with integral structure for catalytic reduction of 4-nitrophenol. **2022**, 168, 792-799	0
9	Screen-printed electrochemical sensors for environmental monitoring of heavy metal ion detection. **2022**,	1
8	Cyclodextrin functionalized gold nanoparticles as an effective nanocatalyst for reducing toxic nitroaromatics. **2023**, 135, 113294	1
7	Solvated electron-induced synthesis of cyclodextrin-coated Pd nanoparticles: mechanistic, catalytic, and anticancer studies.	0
6	Facile one-pot synthesis of silver nanoparticles embedded alginate beads: synthesis, characterization and antimicrobial activity.	0
5	Cysteamine-decorated gold nanoparticles for plasmon-based colorimetric on-site sensors for detecting cyanide ions using the smart-phone color ratio and for catalytic reduction of 4-nitrophenol. **2023**, 137836	0
4	One-step biogenic synthesis of bismuth/reduced graphene oxide nanocomposites using lemon juice and their applications as recyclable nanocatalyst for the reduction of 4-nitrophenol. **2023**, 22, 100383	0
3	A comprehensive DFT study of the stabilization of methyl-mercury over Ag nanoparticles. **2023**, 35, 105933	0
2	Green Synthesis of Electrochemically Active Silver Nanoparticles. **2023**, 39, 82-94	0
1	Green Synthesis of Silver Nanoparticles Using the Leaf Extract of the Medicinal Plant, Uvaria narum and Its Antibacterial, Antiangiogenic, Anticancer and Catalytic Properties. **2023**, 12, 564	0