

CITATION REPORT

List of articles citing

Colloidal heterostructured nanocrystals: Synthesis and growth mechanisms

DOI: 10.1016/j.nantod.2010.08.006
Nano Today, 2010, 5, 449-493.

Source: <https://exaly.com/paper-pdf/48285305/citation-report.pdf>

Version: 2024-04-17

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
605	One-dimensional carbon/SnO ₂ and SnO ₂ nanostructures via single-spinneret electrospinning: tunable morphology and the underlying mechanism. 2011 , 21, 15928		22
604	Controlling phase formation in solids: rational synthesis of phase separated Co@Fe ₂ O ₃ heteroparticles and CoFe ₂ O ₄ nanoparticles. 2011 , 47, 8898-900		21
603	Facile synthesis of hybrid nanostructures from nanoparticles, nanorods and nanowires. 2011 , 21, 11478		30
602	A symmetry-adapted shell transformation of core-shell nanoparticles for binary nanoassembly. 2011 , 47, 12533-5		10
601	Oligomerization of cadmium chalcogenide nanocrystals into CdTe-containing superlattice chains. 2011 , 47, 11270-2		5
600	Pt nanocrystal evolution in the presence of Au(III)-salts at room temperature: spontaneous formation of AuPt heterodimers. 2011 , 21, 11518		33
599	Chemically induced self-assembly of spherical and anisotropic inorganic nanocrystals. 2011 , 21, 16694		38
598	A new route to size and population control of silver clusters on colloidal TiO ₂ nanocrystals. 2011 , 3, 2228-34		48
597	Formation of heterodimer nanocrystals: UO ₂ /In ₂ O ₃ and FePt/In ₂ O ₃ . 2011 , 133, 14327-37		67
596	Octopods versus concave nanocrystals: control of morphology by manipulating the kinetics of seeded growth via co-reduction. 2011 , 11, 2164-8		143
595	One-pot synthesis of liquid Hg/solid HgS metal-semiconductor heterostructures with unique electrical properties. 2011 , 5, 2224-30		30
594	Investigation of the Effects of Polyhedral Gold Nanocrystal Morphology and Facets on the Formation of Au/Cu ₂ O Core/Shell Heterostructures. 2011 , 23, 2677-2684		94
593	Transverse oxidation of gold nanorods assisted by selective end capping of silver oxide. 2011 , 21, 11537		23
592	Superparamagnetic plasmonic nanohybrids: shape-controlled synthesis, TEM-induced structure evolution, and efficient sunlight-driven inactivation of bacteria. 2011 , 5, 8562-70		66
591	Au/Cu ₂ O Core/Shell Nanoparticles: A Hybrid Metal-Semiconductor Heteronanostructure with Geometrically Tunable Optical Properties. 2011 , 23, 4587-4598		246
590	Facile in situ synthesis of visible-light plasmonic photocatalysts M@TiO ₂ (M = Au, Pt, Ag) and evaluation of their photocatalytic oxidation of benzene to phenol. 2011 , 21, 9079		494
589	High-performance visible-light-driven SnS ₂ /SnO ₂ nanocomposite photocatalyst prepared via in situ hydrothermal oxidation of SnS ₂ nanoparticles. 2011 , 3, 1528-37		275

588	Formation mechanisms of gold-zinc oxide hexagonal nanopyramids by heterogeneous nucleation using microwave synthesis. 2011 , 27, 15146-54	87
587	Hyperbranched anatase TiO ₂ nanocrystals: nonaqueous synthesis, growth mechanism, and exploitation in dye-sensitized solar cells. 2011 , 133, 19216-39	106
586	Magnetically separable nanocomposites with photocatalytic activity under visible light for the selective transformation of biomass-derived platform molecules. 2011 , 13, 2750	80
585	The role of hole localization in sacrificial hydrogen production by semiconductor-metal heterostructured nanocrystals. 2011 , 11, 2919-26	174
584	Chemical transformation of Au-tipped CdS nanorods into AuS/Cd core/shell particles by electron beam irradiation. 2011 , 11, 4555-61	31
583	Electrochemical Growth of Silver Nanobelts in Cylindrical Alumina Nanochannels. 2011 , 11, 3731-3734	23
582	Spontaneous formation of wurzite-CdS/zinc blende-CdTe heterodimers through a partial anion exchange reaction. 2011 , 133, 17598-601	96
581	Two-, three-, and four-component magnetic multilayer onion nanoparticles based on iron oxides and manganese oxides. 2011 , 133, 16738-41	50
580	Thermal Evolution of Pt-Rich FePt/Fe ₃ O ₄ Heterodimers Studied Using X-ray Absorption Near-Edge Spectroscopy. 2011 , 115, 5500-5508	25
579	Sequential cation exchange in nanocrystals: preservation of crystal phase and formation of metastable phases. 2011 , 11, 4964-70	264
578	Facet-selective growth and optical properties of CdTe/CdSe tetrapod-shaped nanocrystal heterostructures. 2011 , 26, 1621-1626	6
577	Synthesis and characterization of PtPd nanoparticles with core-shell morphology: Nucleation and overgrowth of the Pd shells on the as-prepared and defined Pt seeds. 2011 , 509, 7702-7709	23
576	Nanocrystals composed of alternating shells of Pd and Pt can be obtained by sequentially adding different precursors. 2011 , 133, 10422-5	102
575	Shape-controlled synthesis of PtPd core-shell nanoparticles exhibiting polyhedral morphologies by modified polyol method. 2011 , 59, 2901-2907	51
574	Heterogeneous nucleation and growth of CdSe on magnetite seed nanocrystals: The influence of ligand and morphology. 2011 , 44, 597-604	4
573	A comparative study of Pt and PtPd core-shell nanocatalysts. 2011 , 56, 9133-9143	57
572	Absorption properties of metal-semiconductor hybrid nanoparticles. 2011 , 5, 4712-9	177
571	Preparation of functional magnetic nanocomposites and hybrid materials: recent progress and future directions. 2011 , 3, 877-92	195

570	Synthesis and characterization of polyhedral and quasi-sphere non-polyhedral Pt nanoparticles: effects of their various surface morphologies and sizes on electrocatalytic activity for fuel cell applications. 2011 , 13, 5177-5191		15
569	From individual to collective chirality in metal nanoparticles. <i>Nano Today</i> , 2011 , 6, 381-400	17.9	245
568	Physical properties of elongated inorganic nanoparticles. 2011 , 501, 75-221		118
567	Engineering fluorescence in Au-tipped, CdSe-seeded CdS nanoheterostructures. 2011 , 7, 2847-52		22
566	Mikrowellen-unterstützte Synthese von kolloidalen anorganischen Nanokristallen. 2011 , 123, 11510-11561		32
565	Triple-Layer (Au@Perylene)@Polyaniline Nanocomposite: Unconventional Growth of Faceted Organic Nanocrystals on Polycrystalline Au. 2011 , 123, 10072-10076		7
564	Purification and Magnetic Interrogation of Hybrid Au-Fe ₃ O ₄ and FePt-Fe ₃ O ₄ Nanoparticles. 2011 , 123, 10049-10053		6
563	Anisotropic Growth of Titania onto Various Gold Nanostructures: Synthesis, Theoretical Understanding, and Optimization for Catalysis. 2011 , 123, 10322-10325		39
562	Molecular Camouflage: Making Use of Protecting Groups To Control the Self-Assembly of Inorganic Janus Particles onto Metal-Chalcogenide Nanotubes by Pearson Hardness. 2011 , 123, 12479-12483		7
561	Microwave-assisted synthesis of colloidal inorganic nanocrystals. 2011 , 50, 11312-59		610
560	Triple-layer (au@perylene)@polyaniline nanocomposite: unconventional growth of faceted organic nanocrystals on polycrystalline Au. 2011 , 50, 9898-902		55
559	Purification and magnetic interrogation of hybrid Au-Fe ₃ O ₄ and FePt-Fe ₃ O ₄ nanoparticles. 2011 , 50, 9875-9		42
558	Anisotropic growth of titania onto various gold nanostructures: synthesis, theoretical understanding, and optimization for catalysis. 2011 , 50, 10140-3		131
557	Molecular camouflage: making use of protecting groups to control the self-assembly of inorganic Janus particles onto metal-chalcogenide nanotubes by Pearson hardness. 2011 , 50, 12271-5		26
556	Synthesis and characterization of PtPd alloy and core-shell bimetallic nanoparticles for direct methanol fuel cells (DMFCs): Enhanced electrocatalytic properties of well-shaped core-shell morphologies and nanostructures. 2011 , 36, 8478-8491		131
555	Chemical transformations of nanostructured materials. <i>Nano Today</i> , 2011 , 6, 186-203	17.9	215
554	Synthesis, properties and applications of Janus nanoparticles. <i>Nano Today</i> , 2011 , 6, 286-308	17.9	420
553	Seed-mediated synthesis, properties and application of γ -Fe ₂ O ₃ @CdSe magnetic quantum dots. 2011 , 184, 2150-2158		11

552	CuInS ₂ Thin Films Obtained by Spray Pyrolysis Deposition Using Sodium Dodecyl Sulfate Additive in Precursors Solution. 2011 , 295-297, 1526-1531	
551	Facile one-pot synthesis of copper sulfide-metal chalcogenide anisotropic heteronanostructures in a noncoordinating solvent. 2011 , 47, 9089-91	39
550	Nanoscale materials for organohalide degradation via reduction pathways. 2012 , 1, 147-171	4
549	An unconventional role of ligand in continuously tuning of metal-metal interfacial strain. 2012 , 134, 2004-7	158
548	Inorganic nanoparticles prepared in miniemulsion. 2012 , 17, 212-224	68
547	Linearly arranged polytypic CZTSSe nanocrystals. 2012 , 2, 952	41
546	Directed self-assembly of hetero-nanoparticles using a polymer single crystal template. 2012 , 4, 7641-5	20
545	Synthesis of monodispersed Au@B ₂ S ₃ hybrid nanocrystals via a solid-liquid interfacial reaction. 2012 , 14, 7552	2
544	Au-Cu alloy bridged synthesis and optoelectronic properties of Au@CuInSe ₂ core-shell hybrid nanostructures. 2012 , 22, 1765-1769	20
543	Shape-controlled synthesis of Au@Pd core-shell nanoparticles and their corresponding electrochemical properties. 2012 , 2, 3621	12
542	Seed-mediated co-reduction: a versatile route to architecturally controlled bimetallic nanostructures. 2012 , 6, 2617-28	127
541	Spectral Isolation and Measurement of Surface-Trapped State Multidimensional Nonlinear Susceptibility in Colloidal Quantum Dots. 2012 , 116, 5546-5553	10
540	Selective etching induces selective growth and controlled formation of various platinum nanostructures by modifying seed surface free energy. 2012 , 6, 4072-82	61
539	Electrostatic repulsion-controlled formation of polydopamine-gold Janus particles. 2012 , 28, 13060-5	51
538	Structures and Mechanisms in the Growth of Hybrid Ru-Cu ₂ S Nanoparticles: From Cages to Nanonets. 2012 , 24, 1822-1827	33
537	Aqueous-phase reactions on hollow silica-encapsulated semiconductor nanoheterostructures. 2012 , 134, 8754-7	34
536	Photocatalytic Activity of Core/Shell Semiconductor Nanocrystals Featuring Spatial Separation of Charges. 2012 , 116, 22786-22793	34
535	A facile method for gold decoration of Te@CdTe nanorods in aqueous solution. 2012 , 383, 43-8	1

534	Composite MetalOxide Nanocatalysts. 2012 , 4, 1462-1484	57
533	Particle Networks from Powder Mixtures: Generation of TiO(2)-SnO(2) Heterojunctions via Surface Charge-Induced Heteroaggregation. 2012 , 116, 22967-22973	57
532	Photochemical deposition of Ag nanocrystals on hierarchical ZnO microspheres and their enhanced gas-sensing properties. 2012 , 14, 719-725	75
531	Colloidal Anisotropic ZnOxOy Nanoarchitectures with Interface-Mediated Exchange-Bias and Band-Edge Ultraviolet Fluorescence. 2012 , 24, 2722-2732	27
530	Microwave-assisted synthesis of CdSe quantum dots: can the electromagnetic field influence the formation and quality of the resulting nanocrystals?. 2012 , 4, 7435-42	21
529	Generalized syntheses of nanocrystal-graphene hybrids in high-boiling-point organic solvents. 2012 , 4, 4562-70	21
528	Remarkable optical and magnetic properties of ultra-thin europium oxysulfide nanorods. 2012 , 22, 16728	31
527	Chapter 2:Design, Synthesis and Applications of Dumbbell-like Nanoparticles. 2012 , 29-53	
526	Nanomaterials: Laser-Based Processing in Gas Phase. 2012 , 105-201	
525	Seed Size-Dependent Formation of Fe ₃ O ₄ /MnO Hybrid Nanocrystals: Selective, Magnetically Recyclable Catalyst Systems. 2012 , 24, 682-687	48
524	AuCu ₂ S heterodimer formation via oxidization of AuCu alloy nanoparticles and in situ formed copper thiolate. 2012 , 22, 23169	43
523	Wavefunction engineering in quantum confined semiconductor nanoheterostructures for efficient charge separation and solar energy conversion. 2012 , 5, 9406	114
522	The effect of the charge-separating interface on exciton dynamics in photocatalytic colloidal heteronanocrystals. 2012 , 6, 8156-65	94
521	A general approach to synthesize asymmetric hybrid nanoparticles by interfacial reactions. 2012 , 134, 3639-42	66
520	Epitaxial Heterostructures of Lead Selenide Quantum Dots on Hematite Nanowires. 2012 , 3, 1649-56	16
519	Full disclosure: the practical side of nanoscale total synthesis. 2012 , 6, 8492-7	29
518	One-pot synthesis of (Au nanorod)-(metal sulfide) core-shell nanostructures with enhanced gas-sensing property. 2012 , 8, 1167-72, 1124	59
517	Ultrafast photoinduced charge separation in metal-semiconductor nanohybrids. 2012 , 6, 7034-43	98

516	3D morphology of Au and Au@Ag nanobipyramids. 2012 , 4, 1299-303	29
515	Mesoscopic model for the simulation of large arrays of bi-magnetic core/shell nanoparticles. 2012 , 24, 4331-6	37
514	Selective Heteroepitaxial Nanocrystal Growth of Rare Earth Fluorides on Sodium Chloride: Synthesis and Density Functional Calculations. 2012 , 124, 8926-8929	3
513	Selective heteroepitaxial nanocrystal growth of rare earth fluorides on sodium chloride: synthesis and density functional calculations. 2012 , 51, 8796-9	25
512	Synthesis of Colloidal Au ₂ Cu ₂ S Heterodimers via Chemically Triggered Phase Segregation of AuCu Nanoparticles. 2012 , 24, 1552-1554	84
511	A total-synthesis framework for the construction of high-order colloidal hybrid nanoparticles. 2011 , 4, 37-44	294
510	Strongly exchange coupled inverse ferrimagnetic soft/hard, Mn(x)Fe(3-x)O ₄ /Fe(x)Mn(3-x)O ₄ , core/shell heterostructured nanoparticles. 2012 , 4, 5138-47	66
509	Physical Properties of Nanorods. 2013 ,	14
508	CuS ₂ -passivated Au-core, Au ₃ Cu-shell nanoparticles analyzed by atomistic-resolution Cs-corrected STEM. 2013 , 29, 9231-9	21
507	Radiofrequency characterization of polydimethylsiloxane /Iron oxide based nanocomposites. 2013 , 111, 46-51	8
506	The development of mixture, alloy, and core-shell nanocatalysts with nanomaterial supports for energy conversion in low-temperature fuel cells. 2013 , 2, 636-676	227
505	Pt ₂ CuS heterodimers by sulfidation of CuPt alloy nanoparticles and their selective catalytic activity toward methanol oxidation. 2013 , 1, 11880	43
504	Controlled synthesis of linear and branched Au@ZnO hybrid nanocrystals and their photocatalytic properties. 2013 , 5, 9944-9	97
503	Chemical synthesis of metal nanoparticles and nanoalloys. 2013 , 1-37	0
502	Sodium lanthanide fluoride core-shell nanocrystals: A general perspective on epitaxial shell growth. 2013 , 6, 547-561	82
501	Controlled synthesis of FePt-Au hybrid nanoparticles triggered by reaction atmosphere and FePt seeds. 2013 , 5, 9141-9	30
500	Cation Exchange: A Versatile Tool for Nanomaterials Synthesis. 2013 , 117, 19759-19770	343
499	Charge Separation in Type-II Semiconductor Heterodimers. 2013 , 4, 2867-2873	46

498	Cell-derived vesicles as a bioplatform for the encapsulation of theranostic nanomaterials. 2013 , 5, 11374-84	66
497	Chemical synthesis of magnetic nanocrystals: Recent progress. 2013 , 22, 107503	11
496	Toward the Electrochemical Valorization of Glycerol: Fourier Transform Infrared Spectroscopic and Chromatographic Studies. 2013 , 3, 2403-2411	96
495	Controlled synthesis of non-epitaxially grown Pd@Ag core-shell nanocrystals of interesting optical performance. 2013 , 49, 4379-81	33
494	Robust antiferromagnetic coupling in hard-soft bi-magnetic core/shell nanoparticles. 2013 , 4, 2960	132
493	The growth of metal sulfideAu/Ag nanocomposites in a nonpolar organic solvent. 2013 , 15, 7740	15
492	Non-blinking single-photon generation with anisotropic colloidal nanocrystals: towards room-temperature, efficient, colloidal quantum sources. 2013 , 25, 1974-80	42
491	Spin-polarization transfer in colloidal magnetic-plasmonic Au/iron oxide hetero-nanocrystals. 2013 , 7, 857-66	61
490	Nanostructured metal chalcogenides: synthesis, modification, and applications in energy conversion and storage devices. 2013 , 42, 2986-3017	1208
489	Multifunctional semiconductor nanoheterostructures via site-selective silica encapsulation. 2013 , 9, 1908-15	14
488	Resolving material-specific structures within Fe ₃ O ₄ /MnO ₂ core shell nanoparticles using anomalous small-angle X-ray scattering. 2013 , 7, 921-31	35
487	Controlled Growth of Ag/Au Bimetallic Nanorods through Kinetics Control. 2013 , 25, 34-41	69
486	Rational Tuning the Optical Properties of Metal Sulfide Nanocrystals and Their Applications. 2013 , 25, 1166-1178	145
485	Metallic Janus and Patchy Particles. 2013 , 30, 46-60	75
484	Chloride Anion Triggered Synthesis and Assembly of Gold Nanoparticle-Ultrathin Cadmium Selenide Nanowire Networks with Enhanced Photoconductivity. 2013 , 30, 97-101	6
483	Selective growth of dual-color-emitting heterogeneous microdumbbells composed of organic charge-transfer complexes. 2013 , 135, 3744-7	100
482	Quantum dot nanoscale heterostructures for solar energy conversion. 2013 , 42, 2963-85	190
481	Compression stiffness of porous nanostructures from self-assembly of branched nanocrystals. 2013 , 5, 681-6	8

480	Composite magnetic plasmonic nanoparticles for biomedicine: Manipulation and imaging. <i>Nano Today</i> , 2013 , 8, 98-113	17.9	76
479	Surfactant-free solution-based synthesis of metallic nanoparticles toward efficient use of the nanoparticles surfaces and their application in catalysis and chemo-/biosensing. 2013 , 2, 5-25		33
478	Exploiting core-shell synergy for nanosynthesis and mechanistic investigation. 2013 , 46, 1636-46		166
477	Janus particles: synthesis, self-assembly, physical properties, and applications. 2013 , 113, 5194-261		1304
476	Emerging strategies for the total synthesis of inorganic nanostructures. 2013 , 52, 6154-78		170
475	Facile one-step synthesis and transformation of Cu(I)-doped zinc sulfide nanocrystals to Cu(1.94)S-ZnS heterostructured nanocrystals. 2013 , 29, 8728-35		43
474	Magnetic separation of colloidal nanoparticle mixtures using a material specific peptide. 2013 , 49, 5471-3		13
473	Surface and interface control of noble metal nanocrystals for catalytic and electrocatalytic applications. <i>Nano Today</i> , 2013 , 8, 168-197	17.9	376
472	Studying the chemical, optical and catalytic properties of noble metal (Pt, Pd, Ag, Au)@Cu ₂ O core-shell nanostructures grown via a general approach. 2013 , 1, 1763-1769		90
471	Aqueous-Phase Synthesis of Sub 10 nm Pd _{core} @Pt _{shell} Nanocatalysts for Oxygen Reduction Reaction Using Amphiphilic Triblock Copolymers as the Reductant and Capping Agent. 2013 , 117, 13413-13423 ³⁷		37
470	Asymmetric organic/metal(oxide) hybrid nanoparticles: synthesis and applications. 2013 , 5, 5151-66		42
469	Efficient solution-processed small molecule: Cadmium selenide quantum dot bulk heterojunction solar cells. 2013 , 103, 253901		0
468	Surface-Enhanced Raman Scattering. 2013 , 339-372		
467	Neue Strategien zur Totalsynthese von anorganischen Nanostrukturen. 2013 , 125, 6270-6297		11
466	Growth Mechanism and Surface Functionalization of Metal Chalcogenides Nanostructures. 2014 , 83-121		1
465	Strong metal-support interaction in size-controlled monodisperse palladium-hematite nano-heterostructures during a liquid-solid heterogeneous catalysis. 2014 , 57, 34-41		17
464	Gas-phase generation of noble metal-tipped NiO nanorods by rapid thermal oxidation. 2014 , 1, 045021		6
463	Heterogeneous nanostructures for plasmonic interaction with luminescence and quantitative surface-enhanced Raman spectroscopy. 2014 ,		

462	Tunable near-infrared localized surface plasmon resonances of heterostructured Cu ₁₉₄ S-ZnS nanocrystals. 2014 , 4, 220	11
461	The Challenge of Colloidal Nanoparticle Synthesis. 2014 , 145-189	2
460	Controlling structural symmetry of a hybrid nanostructure and its effect on efficient photocatalytic hydrogen evolution. 2014 , 26, 1387-92	125
459	Ethylenediamine and ethylene glycol stabilized colloidal PbX (X=S, Se, Te) nanocrystals via amide- and ester-derivatives of 1-(propanoic acid)-3-methylimidazolium bromide ionic liquid. 2014 , 136, 420-423	
458	Ag ₂ S@CoS ₂ hetero-nanostructures: One-pot colloidal synthesis and improved magnetic properties. 2014 , 07, 1450024	2
457	COLLOIDAL PREPARATION OF MONODISPERSE NANOCRYSTALS. 2014 , 02, 1430001	5
456	Inorganic Janus particles for biomedical applications. 2014 , 5, 2346-62	48
455	Magnetic-plasmonic bifunctional CoO@Ag heterostructure nanoparticles. 2014 , 1, 015022	3
454	Pd@Pt core-shell tetrapods as highly active and stable electrocatalysts for the oxygen reduction reaction. 2014 , 2, 20855-20860	60
453	Hybrid Semiconductor/Metal Nanoparticles: From Architecture to Function. 2014 , 26, 97-110	288
452	Strictly biphasic soft and hard Janus structures: synthesis, properties, and applications. 2014 , 53, 5524-38	147
451	Colloidal synthesis and formation mechanism of calcium molybdate notched microspheres. 2014 , 16, 2598	9
450	Characterization of interfacially electronic structures of gold-magnetite heterostructures using X-ray absorption spectroscopy. 2014 , 417, 325-32	23
449	Metal/Semiconductor hybrid nanostructures for plasmon-enhanced applications. 2014 , 26, 5274-309	780
448	One-step hydrothermal synthesis of high-performance visible-light-driven SnS ₂ /SnO ₂ nanoheterojunction photocatalyst for the reduction of aqueous Cr(VI). 2014 , 144, 730-738	255
447	Highly uniform matchstick-like Ag ₂ S@ZnS hetero-nanorods using dodecanethiol as a sulfur source. 2014 , 126, 67-70	8
446	Physicochemical Studies of Complex Silver/Magnetite Nanoheterodimers with Controlled Morphology. 2014 , 118, 13168-13176	15
445	Ternary hybrid nanoparticle isomers: directing the nucleation of Ag on Pt-Fe(3)O(4) using a solid-state protecting group. 2014 , 8, 1047-55	35

444	Molecular Engineering of Functional Inorganic and Hybrid Materials. 2014 , 26, 221-238	127
443	Magnetism of iron oxide based core-shell nanoparticles from interface mixing with enhanced spin-orbit coupling. 2014 , 89,	44
442	AgNi Janus nanoparticles by mechanochemical decomposition of Ag and Ni oxalates. 2014 , 66, 388-395	9
441	Lanthanide-based heteroepitaxial core-shell nanostructures: compressive versus tensile strain asymmetry. 2014 , 8, 10517-27	63
440	Sn cation valency dependence in cation exchange reactions involving Cu(2-x)Se nanocrystals. 2014 , 136, 16277-84	92
439	Nanoparticles. 2014 ,	15
438	Self-assembled supracrystals and hetero-structures made from colloidal nanocrystals. 2014 , 16, 9365-9367	4
437	Phase transfer-based synthesis of HgS nanocrystals. 2014 , 43, 11981-7	9
436	Charge separation in Pt-decorated CdSe@CdS octapod nanocrystals. 2014 , 6, 2238-43	15
435	Surfactant-free synthesis of a Fe ₃ O ₄ @ZIF-8 core-shell heterostructure for adsorption of methylene blue. 2014 , 16, 3960	124
434	Solution-phase catalytic synthesis, characterization and growth kinetics of Ag ₂ S-CdS matchstick-like heteronanostructures. 2014 , 43, 3990-8	27
433	Anisotropic growth-induced synthesis of dual-compartment Janus mesoporous silica nanoparticles for bimodal triggered drugs delivery. 2014 , 136, 15086-92	298
432	Nonstoichiometric nucleation and growth of multicomponent nanocrystals in solution. 2014 , 47, 2887-93	30
431	Cation exchange synthesis and optoelectronic properties of type II CdTe/Cu ₂ Te nano-heterostructures. 2014 , 2, 3189	23
430	Seeded-growth, nanocrystal-fusion, ion-exchange and inorganic-ligand mediated formation of semiconductor-based colloidal heterostructured nanocrystals. 2014 , 16, 9391-9407	18
429	Shape-defined nanodimers by tailored heterometallic epitaxy. 2014 , 6, 11090-7	12
428	Synthesis of ferromagnetic cobalt nanoparticle tipped CdSe@CdS nanorods: critical role of Pt-activation. 2014 , 16, 9461-9468	12
427	Recent development of core-shell SnO ₂ nanostructures and their potential applications. 2014 , 2, 6706-6722	68

426	Interplay of chemical structure and magnetic order coupling at the interface between CrO ₂ and Fe ₃ O ₄ hybrid nanocomposites. 2014 , 16, 22337-42	12
425	Fe ₂ O ₃ /Cu ₂ O heterostructured nanocrystals. 2014 , 2, 8525-8533	18
424	Ruthenium oxide-based nanocomposites with high specific surface area and improved capacitance as a supercapacitor. 2014 , 4, 42839-42845	33
423	Rhodium growth on Cu ₂ S nanocrystals yielding hybrid nanoscale inorganic cages and their synergistic properties. 2014 , 16, 9506-9512	18
422	Facile synthesis of asymmetric Ag-organosilica hybrid nanoparticles with tunable morphologies and optical properties. 2014 , 50, 5767-70	13
421	Size dependence of the lattice parameters of carbon supported platinum nanoparticles: X-ray diffraction analysis and theoretical considerations. 2014 , 4, 35959-35965	61
420	Core-shell and asymmetric polystyrene-gold composite particles via one-step Pickering emulsion polymerization. 2014 , 30, 75-82	33
419	Design and Observation of Biphasic TiO ₂ Crystal with Perfect Junction. 2014 , 5, 3162-8	29
418	Co-Fe nanodumbbells: synthesis, structure, and magnetic properties. 2014 , 14, 2747-54	28
417	Bimetallic Ag@Pt hollow Pt heterodimers via inside-out migration of Ag in core-shell Ag@Pt nanoparticles at elevated temperature. 2014 , 2, 7075-7081	39
416	Kinetically controlled nucleation of silver on surfactant-free gold seeds. 2014 , 136, 15337-45	50
415	Characterization and photocatalytic activity of ZnSe nanoparticles synthesized by a facile solvothermal method, and the effects of different solvents on these properties. 2014 , 60, 794-801	36
414	Catalytic performance of TiO ₂ @Ag composites prepared by modified photodeposition method. 2014 , 258, 247-253	38
413	Bottom-Up Synthesis of Nanosized Objects. 2014 , 47-80	1
412	General synthetic approach to heterostructured nanocrystals based on noble metals and I-VI, II-VI, and I-III-VI metal chalcogenides. 2014 , 30, 9838-49	25
411	In situ optical and structural studies on photoluminescence quenching in CdSe/CdS/Au heterostructures. 2014 , 136, 2342-50	56
410	A Quantitative Analysis of Anions and pH on the Growth of Bimetallic Nanostructures. 2014 , 118, 18762-18770	21
409	Heteroepitaxial Junction in Au-ZnSe Nanostructure: Experiment versus First-Principle Simulation. 2014 , 5, 1892-8	26

408	Colloidal assemblies of oriented maghemite nanocrystals and their NMR relaxometric properties. 2014 , 43, 8395-404	34
407	Au/Ni ₁₂ P ₅ core/shell nanocrystals from bimetallic heterostructures: in situ synthesis, evolution and supercapacitor properties. 2014 , 6, e122-e122	74
406	Cu ₂ ZnSnS ₄ /Au Heterostructures: Toward Greener Chalcogenide-Based Photocatalysts. 2014 , 118, 21226-21234	38
405	Magnetically engineered semiconductor quantum dots as multimodal imaging probes. 2014 , 26, 6367-86	125
404	Infrared Emitting PbS Nanocrystal Solids through Matrix Encapsulation. 2014 , 26, 4256-4264	42
403	One-dimensional titanium dioxide nanomaterials: nanowires, nanorods, and nanobelts. 2014 , 114, 9346-84	504
402	Controlled surface modification of various substrates with SnO ₂ nanoparticles. 2014 , 16, 139-143	4
401	Characterization and Optimization of the Fluorescence of Nanoscale Iron Oxide/Quantum Dot Complexes. 2014 , 118, 14606-14616	22
400	Mechanisms of nucleation and growth of nanoparticles in solution. 2014 , 114, 7610-30	1552
399	Janus nanoparticles: materials, preparation and recent advances in drug delivery. 2014 , 11, 1061-74	64
398	Sustainable one-pot aqueous route to hierarchical carbon/MoO ₂ electrodes for Li-ion batteries. 2014 , 4, 21208	14
397	Synthesis of copper sulphide-based hybrid nanostructures and their application in shape control of colloidal semiconductor nanocrystals. 2014 , 16, 9381-9390	37
396	Sequential cation exchange generated superlattice nanowires forming multiple p-n heterojunctions. 2014 , 8, 9422-6	29
395	How Robust are Semiconductor Nanorods? Investigating the Stability and Chemical Decomposition Pathways of Photoactive Nanocrystals. 2014 , 26, 3900-3908	8
394	Silver-Based Metal Sulfide Heterostructures: Synthetic Approaches, Characterization, and Application Prospects. 2014 , 26, 3485-3494	31
393	Seeded growth of metal-doped plasmonic oxide heterodimer nanocrystals and their chemical transformation. 2014 , 136, 5106-15	60
392	Shape Evolution of CdSe Nanoparticles Controlled by Halogen Compounds. 2014 , 26, 1813-1821	59
391	Solid state synthesis and characterization of ferromagnetic nanocomposite Fe ₃ O ₄ /ZnO thin films. 2014 , 612, 189-194	24

390	Streng zweiphasige weiche und harte Janus-Strukturen Synthese, Eigenschaften und Anwendungen. 2014 , 126, 5630-5644	17
389	Heterostructures Based on TiO ₂ and Silicon for Solar Hydrogen Generation. 2015 , 219-281	3
388	First Fifty Years of Chemoresistive Gas Sensors. 2015 , 3, 1-20	268
387	Modular Synthesis of a Dual MetalDual Semiconductor Nano-Heterostructure. 2015 , 127, 7113-7117	5
386	Alloyed ZnS-CuInS ₂ Semiconductor Nanorods and Their Nanoscale Heterostructures for Visible-Light-Driven Photocatalytic Hydrogen Generation. 2015 , 21, 9514-9	39
385	Controllable Self-Assembled Microstructures of La _{0.7} Ca _{0.3} MnO ₃ :NiO Nanocomposite Thin Films and Their Tunable Functional Properties. 2015 , 2, 1500302	15
384	A Unique Ternary Semiconductor-(Semiconductor/Metal) Nano-Architecture for Efficient Photocatalytic Hydrogen Evolution. 2015 , 54, 11495-500	104
383	Facile Synthesis of Quasi-One-Dimensional Au/PtAu Heterojunction Nanotubes and Their Application as Catalysts in an Oxygen-Reduction Reaction. 2015 , 21, 7556-61	11
382	Role of Self-Polarization in a Single-Step Controlled Synthesis of Linear and Branched Polymer Nanoparticles. 2015 , 216, 1212-1219	14
381	Strong orientational coordinates and orientational order parameters for symmetric objects. 2015 , 48, 485201	15
380	A Unique Ternary Semiconductor-(Semiconductor/Metal) Nano-Architecture for Efficient Photocatalytic Hydrogen Evolution. 2015 , 127, 11657-11662	19
379	. 2015 ,	12
378	Rational synthesis and the structure-property relationships of nanoheterostructures: a combinative study of experiments and theory. 2015 , 7, e164-e164	16
377	In situ crystallization for fabrication of a core-satellite structured BiOBr-CdS heterostructure with excellent visible-light-responsive photoreactivity. 2015 , 7, 11702-11	115
376	Further reading. 2015 , 275-276	0
375	A Synthetic Exploration of MetalSemiconductor Hybrid Particles of CuInS ₂ . 2015 , 27, 7969-7976	25
374	A dewetting route to grow heterostructured nanoparticles based on thin film heterojunctions. 2015 , 7, 19977-84	3
373	Synthesis of ZnOAg Hybrids and Their Gas-Sensing Performance toward Ethanol. 2015 , 54, 8947-8953	63

- 372 AuPd Alloy Octapods with High Electrocatalytic Activity for the Oxidation of Formic Acid. **2015**, 32, 295-300 21
- 371 High-Resolution Metal Nanopatterning by Means of Switchable Block Copolymer Templates. **2015**, 7, 12559-69 31
- 370 Developing functionalized Fe₃O₄-Au nanoparticles: a physico-chemical insight. **2015**, 17, 6087-97 21
- 369 Silica-coated Au@ZnO Janus particles and their stability in epithelial cells. **2015**, 3, 1813-1822 15
- 368 Chemical synthesis and application of palladium nanoparticles. **2015**, 50, 2337-2354 120
- 367 Noble metal-based composite nanomaterials fabricated via solution-based approaches. **2015**, 3, 3182-3223 82
- 366 Coincident Site Epitaxy at the Junction of AuCu₂ZnSnS₄ Heteronanostructures. **2015**, 27, 650-657 48
- 365 Synthesis of biocompatible Au-ZnTe core-shell nanoparticles. **2015**, 3, 2826-2833 4
- 364 Substrate-bound growth of Au-Pd diblock nanowire and hybrid nanorod-plate. **2015**, 7, 8115-21 8
- 363 Encyclopedia of Polymeric Nanomaterials. **2015**, 1-12
- 362 Zwitterion-Coated Iron Oxide Nanoparticles: Surface Chemistry and Intracellular Uptake by Hepatocarcinoma (HepG2) Cells. **2015**, 31, 7381-90 35
- 361 Atomic Structure of Heterophase Junction from Theoretical Prediction. **2015**, 58, 644-654 15
- 360 Encyclopedia of Polymeric Nanomaterials. **2015**, 1027-1037
- 359 Synthesis of Multishell Nanoplates by Consecutive Epitaxial Growth of Bi₂Se₃ and Bi₂Te₃ Nanoplates and Enhanced Thermoelectric Properties. **2015**, 9, 6843-53 72
- 358 Morphology control synthesis of AuCu₂S metal-semiconductor hybrid nanostructures by modulating reaction constituents. **2015**, 5, 56629-56635 3
- 357 Peanut shaped ZnO microstructures: controlled synthesis and nucleation growth toward low-cost dye sensitized solar cells. **2015**, 2, 066202 20
- 356 Scanning Probe Characterization of Heterostructured Colloidal Nanomaterials. **2015**, 115, 8157-81 27
- 355 Formation of composite dimers consisting of Ag₂S and hollow structured Pd nanoparticles. **2015**, 17, 6155-6162 9

- 354 Pt₂Au Nanoparticle Heterodimers as Seeds for Pt₃Au Metal Sulfide Heterotrimers: Thermal Stability and Chemoselective Growth Characteristics. **2015**, 119, 8952-8959 21
- 353 Carbon-supported Pt-based alloy electrocatalysts for the oxygen reduction reaction in polymer electrolyte membrane fuel cells: particle size, shape, and composition manipulation and their impact to activity. **2015**, 115, 3433-67 907
- 352 A trialkylphosphine-driven chemical transformation route to Ag- and Bi-based chalcogenides. **2015**, 137, 5390-6 33
- 351 Cadmium Selenide/Platinum Nanocomposites with a Core/Shell Construction. **2015**, 115-141
- 350 Air- and water-resistant noble metal coated ferromagnetic cobalt nanorods. **2015**, 9, 2792-804 25
- 349 Modular synthesis of a dual metal-dual semiconductor nano-heterostructure. **2015**, 54, 7007-11 45
- 348 Structure, morphology and catalytic properties of pure and alloyed Au/ZnO hierarchical nanostructures. **2015**, 5, 41920-41922 5
- 347 Efficient removal of organic ligands from supported nanocrystals by fast thermal annealing enables catalytic studies on well-defined active phases. **2015**, 137, 6906-11 156
- 346 Hybrid magnetic/plasmonic nanocomposite: embedding cobalt clusters in gold nanorods. **2015**, 5, 34696-34703 9
- 345 Nanocomposites of Gold and Semiconductors. **2015**, 31-91
- 344 3D Atomic Arrangement at Functional Interfaces Inside Nanoparticles by Resonant High-Energy X-ray Diffraction. **2015**, 7, 23265-77 9
- 343 Measuring the Time-Dependent Monomer Concentration during the Hot-Injection Synthesis of Colloidal Nanocrystals. **2015**, 27, 6102-6108 9
- 342 Facile Synthesis of Bimetallic Au-Pt, Pd-Pt, and Au-Pd Nanostructures: Enhanced Catalytic Performance of Pd-Pt Analogue towards Fuel Cell Application and Electrochemical Sensing. **2015**, 180, 1075-1084 44
- 341 A new approach for crystallization of copper(II) oxide hollow nanostructures with superior catalytic and magnetic response. **2015**, 7, 19250-8 37
- 340 Solid-State Conversion Chemistry of Multicomponent Nanocrystals Cast in a Hollow Silica Nanosphere: Morphology-Controlled Syntheses of Hybrid Nanocrystals. **2015**, 9, 10719-28 18
- 339 Uniform Bimetallic Nanocrystals by High-Temperature Seed-Mediated Colloidal Synthesis and Their Catalytic Properties for Semiconducting Nanowire Growth. **2015**, 27, 5833-5838 23
- 338 Synthesis of porous magnetic Fe₃O₄/Fe@ZnO core/shell heterostructure with superior capability for water treatment. **2015**, 650, 463-469 23
- 337 Single Site Metal Ions on the Surface of TiO₂ Nanorods - A Platform for Theoretical and Experimental Investigation. **2015**, 103-116 3

336	Pt/Fe ₃ O ₄ Core/Shell Triangular Nanoprisms by Heteroepitaxy: Facet Selectivity at the Pt-Fe ₃ O ₄ Interface and the Fe ₃ O ₄ Outer Surface. 2015 , 9, 10950-60	27
335	Engineering Structural Diversity in Gold Nanocrystals by Ligand-Mediated Interface Control. 2015 , 27, 8032-8040	13
334	Oriented Metallic Nano-Objects on Crystalline Surfaces by Solution Epitaxial Growth. 2015 , 9, 9665-77	12
333	Hybrid nanostructures: synthesis, morphology and functional properties. 2015 , 84, 579-600	24
332	Universal chitosan-assisted synthesis of Ag-including heterostructured nanocrystals for label-free in situ SERS monitoring. 2015 , 7, 18878-82	9
331	Bioinspired Au@CuS coupled photothermal materials: enhanced infrared absorption and photothermal conversion from butterfly wings. 2015 , 17, 52-62	43
330	Pinpointing the Cause of Platinum Tipping on CdS Nanorods. 2015 , 119, 22663-22668	2
329	Self-limiting adsorption of Eu ³⁺ on the surface of rod-shape anatase TiO ₂ nanocrystals and post-synthetic sensitization of the europium-based emission. 2015 , 459, 63-69	8
328	Excited-State Charge Transfer within Covalently Linked Quantum Dot Heterostructures. 2015 , 119, 27737-27748	48
327	Controllable Synthesis and Surface Wettability of Flower-Shaped Silver Nanocube-Organosilica Hybrid Colloidal Nanoparticles. 2015 , 9, 12513-20	29
326	Mechanism of versatile catalytic activities of quaternary CuZnFeS nanocrystals designed by a rapid synthesis route. 2015 , 11, 1829-39	16
325	Metal-Based Composite Nanomaterials. 2015 ,	5
324	Seed-induced growth of flower-like Au-Ni-ZnO metal-semiconductor hybrid nanocrystals for photocatalytic applications. 2015 , 11, 1460-9	50
323	Highly active Au-CeO ₂ @ZrO ₂ yolk-shell nanoreactors for the reduction of 4-nitrophenol to 4-aminophenol. 2015 , 166-167, 518-528	95
322	Applications of exchange coupled bi-magnetic hard/soft and soft/hard magnetic core/shell nanoparticles. 2015 , 553, 1-32	310
321	Heterogeneous nucleation and shape transformation of multicomponent metallic nanostructures. 2015 , 14, 215-23	155
320	Inorganic Core-Shell Nanoparticles. 2016 , 171-186	1
319	Colloidal Magnetic Heterostructured Nanocrystals with Asymmetric Topologies: Seeded-Growth Synthetic Routes and Formation Mechanisms. 2016 , 3,	31

318	Micro- and Nanotechnologies for Optical Neural Interfaces. 2016 , 10, 70	31
317	Structural and Magnetic Response in Bimetallic Core/Shell Magnetic Nanoparticles. 2016 , 6,	11
316	Thermal Ligand Desorption in CdSe Quantum Dots by Correlated XPS and STM. 2016 , 33, 358-362	3
315	Highly improved synthesis of gold nanobipyramids by tuning the concentration of hydrochloric acid. 2016 , 18, 1	13
314	Chloride Ion Mediated Synthesis of Metal/Semiconductor Hybrid Nanocrystals. 2016 , 12, 2588-94	7
313	Synthesis of colloidal NiO nanocrystals by a hot-injection approach with a protecting ligand. 2016 , 51, 313-317	6
312	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. 2016 , 116, 10414-72	1046
311	Design Advances in Particulate Systems for Biomedical Applications. 2016 , 5, 1687-723	15
310	Carbon-coated nanoparticle superlattices for energy applications. 2016 , 8, 14359-68	9
309	Shell or Dots Precursor Controlled Morphology of AuSe Deposits on CdSe Nanoparticles. 2016 , 28, 2704-2714	6
308	Quantum confined colloidal nanorod heterostructures for solar-to-fuel conversion. 2016 , 45, 3781-810	198
307	Controlling Au Photodeposition on Large ZnO Nanoparticles. 2016 , 8, 14271-83	50
306	A review of significant factors in the synthesis of hetero-structured dumbbell-like nanoparticles. 2016 , 37, 681-691	8
305	Chemical Tailoring of Band Offsets at the Interface of ZnSe/CdS Heterostructures for Delocalized Photoexcited Charge Carriers. 2016 , 120, 10118-10128	12
304	Small Angle X-ray Scattering for Nanoparticle Research. 2016 , 116, 11128-80	477
303	The formation mechanism of Janus nanostructures in one-pot reactions: the case of Ag ₂ Ag ₈ GeS ₆ . 2016 , 4, 7060-7070	5
302	Controllably self-assembled graphene-supported Au@Pt bimetallic nanodendrites as superior electrocatalysts for methanol oxidation in direct methanol fuel cells. 2016 , 4, 7352-7364	51
301	An and bio-interaction responses and biosafety evaluation of novel Au-ZnTe core-shell nanoparticles. 2016 , 5, 1078-1089	4

300	Shape-controlled cobalt phosphide nanoparticles as volatile organic solvent sensor. 2016 , 4, 4967-4977	15
299	Pt-Containing Heterogeneous Nanomaterials for Methanol Oxidation and Oxygen Reduction Reactions. 2016 , 93-168	
298	A facile in situ synthesis of highly active and reusable ternary Ag-PPy-GO nanocomposite for catalytic oxidation of hydroquinone in aqueous solution. 2016 , 344, 795-805	41
297	Competitive Effect in The Growth of Pd/Au Pd Segmental Nanorods. 2016 , 28, 7394-7403	19
296	Hybrid Semiconductor-Metal Nanorods as Photocatalysts. 2016 , 374, 54	47
295	Structure and water oxidation activity of 3d metal oxides. 2016 , 6, 47-64	17
294	Self-Assembly of Colloidal Nanocrystals: From Intricate Structures to Functional Materials. 2016 , 116, 11220-89	1067
293	Active particles in complex and crowded environments. 2016 , 88,	1228
292	Pt Submonolayers on Au Nanoparticles: Coverage-Dependent Atomic Structures and Electrocatalytic Stability on Methanol Oxidation. 2016 , 120, 28664-28671	13
291	Au ₂₀ Pd ₁ @SiO ₂ nanoreactors highly effective in CO oxidation. 2016 , 13, 168	3
290	Heterostructured palladium-platinum core-shell nanocubes for use in a nonenzymatic amperometric glucose sensor. 2016 , 183, 3311-3320	23
289	Controlled synthesis of PVP-based carbon-supported Ru nanoparticles: synthesis approaches, characterization, capping agent removal and catalytic behavior. 2016 , 6, 8490-8504	11
288	Collapsed polymer-directed synthesis of multicomponent coaxial-like nanostructures. 2016 , 7, 12147	29
287	Nonclassical nucleation and growth of inorganic nanoparticles. 2016 , 1,	240
286	Interfacial strain and defects in asymmetric Fe-Mn oxide hybrid nanoparticles. 2016 , 8, 14171-7	6
285	Mastering heterostructured colloidal nanocrystal properties for light-emitting diodes and solar cells. 2016 , 4, 6430-6446	20
284	Simple synthesis of PbSe nanocrystals and their self-assembly into 2D "flakes" and 1D "ribbons" structures. 2016 , 80, 96-101	8
283	A controllable asymmetrical/symmetrical coating strategy for architectural mesoporous organosilica nanostructures. 2016 , 8, 13581-8	28

282	Organic Phase Syntheses of Magnetic Nanoparticles and Their Applications. 2016 , 116, 10473-512	402
281	Synthesis of Water Dispersible and Catalytically Active Gold-Decorated Cobalt Ferrite Nanoparticles. 2016 , 32, 7117-26	15
280	Hierarchical Ni@Fe ₂ O ₃ superparticles through epitaxial growth of γ -Fe ₂ O ₃ nanorods on in situ formed Ni nanoplates. 2016 , 8, 9548-55	18
279	Platinum-based heterogeneous nanomaterials via wet-chemistry approaches toward electrocatalytic applications. 2016 , 230, 29-53	44
278	Optoelectronic Properties of CuInS ₂ Nanocrystals and Their Origin. 2016 , 7, 572-83	170
277	The core contribution of transmission electron microscopy to functional nanomaterials engineering. 2016 , 8, 1260-79	19
276	Unravelling Thiol's Role in Directing Asymmetric Growth of Au Nanorod-Au Nanoparticle Dimers. 2016 , 16, 617-23	46
275	Shape-controlled synthesis of Cu ₃₁ S ₁₆ -metal sulfide heteronanostructures via a two-phase approach. 2016 , 52, 2039-42	11
274	Gold nanotriangles decorated with superparamagnetic iron oxide nanoparticles: a compositional and microstructural study. 2016 , 191, 215-227	16
273	Slow-Injection Growth of Seeded CdSe/CdS Nanorods with Unity Fluorescence Quantum Yield and Complete Shell to Core Energy Transfer. 2016 , 10, 3295-301	77
272	Size-controlled synthesis of Ni and Co metal nanoparticles by the modified polyol method. 2016 , 13, 3	5
271	Au Nanowire-Striped Cu ₃ P Platelet Photoelectrocatalysts. 2016 , 7, 1077-82	8
270	Tuning surface properties of amino-functionalized silica for metal nanoparticle loading: The vital role of an annealing process. 2016 , 648, 299-306	18
269	Harnessing structural darkness in the visible and infrared wavelengths for a new source of light. 2016 , 11, 60-6	94
268	Electromagnetic wave absorption of silicon carbide based materials. 2017 , 7, 595-605	36
267	Materials aspects of semiconductor nanocrystals for optoelectronic applications. 2017 , 4, 155-205	59
266	Shape-controlled fabrication of magnetite silver hybrid nanoparticles with high performance magnetic hyperthermia. 2017 , 124, 35-46	65
265	Nanocomposites from Solution-Synthesized PbTe-BiSbTe Nanoheterostructure with Unity Figure of Merit at Low-Medium Temperatures (500-600 K). 2017 , 29, 1605140	53

264	1D Colloidal Hetero-Nanomaterials with Programmed Semiconductor Morphology and Metal Location for Enhancing Solar Energy Conversion. 2017 , 13, 1602629	14
263	Mechanistic Insight into the Conversion Chemistry between Au-CuO Heterostructured Nanocrystals Confined inside SiO ₂ Nanospheres. 2017 , 29, 1788-1795	13
262	3D Hierarchical Co-Al Layered Double Hydroxides with Long-Term Stabilities and High Rate Performances in Supercapacitors. 2017 , 9, 21	43
261	Structural and electronic investigation of metal-semiconductor hybrid tetrapod hetero-structures. 2017 , 50, 105-110	5
260	A two-phase synthesis of metal sulfide-gold nanocomposites. 2017 , 520, 722-728	2
259	Engineered Au Core@Prussian Blue Analogous Shell Nanoheterostructures: Their Magnetic and Optical Properties. 2017 , 23, 7483-7496	9
258	Double 2-dimensional H ₂ -evolving catalyst tipped photocatalyst nanowires: A new avenue for high-efficiency solar to H ₂ generation. 2017 , 34, 481-490	38
257	Morphology-Controlled Synthesis of Hybrid Nanocrystals via a Selenium-Mediated Strategy with Ligand Shielding Effect: The Case of Dual Plasmonic Au-CuSe. 2017 , 11, 3776-3785	33
256	Robust raspberry-like metallo-dielectric nanoclusters of critical sizes as SERS substrates. 2017 , 9, 5725-5736	26
255	Dumbbell-Shaped Bi-component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. 2017 , 129, 8579-8583	23
254	Strategies to initiate and control the nucleation behavior of bimetallic nanoparticles. 2017 , 9, 8149-8156	13
253	Dumbbell-Shaped Bi-component Mesoporous Janus Solid Nanoparticles for Biphasic Interface Catalysis. 2017 , 56, 8459-8463	152
252	Enhanced Electrocatalytic Activity of Ethanol Oxidation Reaction on Palladium-Silver Nanoparticles via Removable Surface Ligands. 2017 , 9, 16635-16643	32
251	Ga for Zn Cation Exchange Allows for Highly Luminescent and Photostable InZnP-Based Quantum Dots. 2017 , 29, 5192-5199	46
250	Phonon-Plasmon Coupling and Active Cu Dopants in Indium Arsenide Nanocrystals Studied by Resonance Raman Spectroscopy. 2017 , 8, 2519-2525	7
249	Magnetic structures synthesized by controlled oxidative etching: Structural characterization and magnetic behavior. 2017 , 7, 1828-1832	13
248	Materials and 3D Designs of Helix Nanostructures for Chirality at Optical Frequencies. 2017 , 5, 1601079	46
247	Recent progress in thermoelectric nanocomposites based on solution-synthesized nanoheterostructures. 2017 , 10, 1498-1509	6

246	The emergence of solar thermal utilization: solar-driven steam generation. 2017 , 5, 7691-7709	188
245	Colloidal nanorod heterostructures for photovoltaics and optoelectronics. 2017 , 50, 173002	11
244	Seeded Growth Synthesis of Au@Fe ₃ O ₄ Heterostructured Nanocrystals: Rational Design and Mechanistic Insights. 2017 , 29, 4022-4035	53
243	Synthesis of Janus Au@periodic mesoporous organosilica (PMO) nanostructures with precisely controllable morphology: a seed-shape defined growth mechanism. 2017 , 9, 4826-4834	36
242	High-yield colloidal synthesis of monometallic Au nanorod/Au nanoparticle dimers and their application in SERS. 2017 , 7, 12322-12328	6
241	Eventual Chemical Transformation of Metals and Chalcogens into Metal Chalcogenide Nanoplates through a Surface Nucleation-Detachment-Reorganization Mechanism. 2017 , 29, 3219-3227	7
240	Electric-field-induced assembly of Ag nanoparticles on a CuO nanowire using ambient electro spray ionization. 2017 , 41, 2878-2882	8
239	Synthesis of Cobalt Phosphide Nanoparticles Supported on Pristine Graphene by Dynamically Self-Assembled Graphene Quantum Dots for Hydrogen Evolution. 2017 , 10, 1014-1021	38
238	Observation of enhanced photocurrent response in M@CuInS ₂ (M = Au, Ag) heteronanostructures: phase selective synthesis and application. 2017 , 41, 692-701	16
237	Facet-Selective Growth of Organic Heterostructured Architectures via Sequential Crystallization of Structurally Complementary Conjugated Molecules. 2017 , 17, 695-701	28
236	Enhanced Emission of Nanocrystal Solids Featuring Slowly Diffusive Excitons. 2017 , 121, 1477-1487	17
235	Anti-bacterial activity of graphene oxide as a new weapon nanomaterial to combat multidrug-resistance bacteria. 2017 , 74, 568-581	145
234	Using ATTO Dyes To Probe the Photocatalytic Activity of Au@CdS Nanoparticles. 2017 , 121, 676-683	11
233	Phase Separation Prior to Alloying Observed in Vacuum Heating of Hybrid Au/Cu ₂ O Core/Shell Nanoparticles. 2017 , 121, 1387-1392	4
232	Recent advances in noble metal-based nanocomposites for electrochemical reactions. 2017 , 6, 115-127	34
231	Hierarchical Multicomponent Nanoheterostructures via Facet-to-Facet Attachment of Anisotropic Semiconductor Nanoparticles. 2017 , 29, 9075-9083	3
230	Multiscale Nanoparticle Assembly: From Particulate Precise Manufacturing to Colloidal Processing. 2017 , 27, 1703647	47
229	Ternary hybrid nanostructures of Au-CdS-ZnO grown via a solution-liquid-solid route using Au-ZnO catalysts. 2017 , 9, 16138-16142	8

228	Synthesis and physicochemical characterization of Cu _x S-Ni _y S _z /FNBR and CuS-Ni _y S _z /FNBR nanocomposites from NiS/FNBR by ion exchange method: (x=1; 1.8); (y=1; 3); (z=1; 4). 2017 , 201, 42-49	2
227	Pd/Au heterostructured nanonecklaces with adjustable interval and size as a superior catalyst for degradation of 4-nitrophenol. 2017 , 19, 5686-5691	3
226	Nanotechnology for Neuroscience: Promising Approaches for Diagnostics, Therapeutics and Brain Activity Mapping. 2017 , 27, 1700489	28
225	Heteroaggregation Approach for Depositing Magnetite Nanoparticles onto Silica-Overcoated Gold Nanorods. 2017 , 29, 10362-10368	17
224	Selective Cation Exchange Enabled Growth of Lanthanide Core/Shell Nanoparticles with Dissimilar Structure. 2017 , 139, 18492-18495	71
223	Synthesis of Fe-based core@ZnO shell nanopowders by laser pyrolysis for biomedical applications. 2017 , 123, 1	4
222	The synthesis of Ru/CNF colloidal catalysts: Comparison of ex-situ and in-situ methods. 2017 , 4, 11364-11370	2
221	Magnetic Multicomponent Heterostructured Nanocrystals. 2017 , 217-290	
220	Wet-Phase Synthesis of Typical Magnetic Nanoparticles with Controlled Morphologies. 2017 , 291-326	1
219	Opportunities and Challenges in the Synthesis, Characterization, and Catalytic Properties of Controlled Nanostructures. 2017 , 177, 1-56	0
218	Depletion sphere: Explaining the number of Ag islands on Au nanoparticles. 2017 , 8, 430-436	33
217	Controlled growth of Au/Ni bimetallic nanocrystals with different nanostructures. 2017 , 36, 229-235	8
216	Insights into the Seeded-Growth Synthesis of Colloidal Hybrid Nanoparticles. 2017 , 29, 106-119	28
215	Pretreatment impact on the morphology and the catalytic performance of hybrid heterodimers nanoparticles applied to CO oxidation. 2017 , 282, 151-158	5
214	Visible-Light-Active TiO ₂ -Based Hybrid Nanocatalysts for Environmental Applications. 2017 , 7, 100	72
213	Functionalisation of Colloidal Transition Metal Sulphides Nanocrystals: A Fascinating and Challenging Playground for the Chemist. 2017 , 7, 110	17
212	Luminomagnetic Silica-Coated Heterodimers of Core/Shell FePt/Fe ₃ O ₄ and CdSe Quantum Dots as Potential Biomedical Sensor. 2017 , 2017, 1-9	4
211	Overcoming the Interfacial Lattice Mismatch: Geometry Control of Gold/Nickel Bimetallic Heteronanostructures. 2018 , 35, 1700361	4

210	Bioinspired Engineering of Photothermal Materials. 2018 , 99-128	
209	A Unique Ternary Semiconductor-(Semiconductor/Metal) Nano-Architecture for Efficient Photocatalytic Hydrogen Evolution. 2018 , 53-75	
208	Design, Synthesis and Applications of One-Dimensional Chalcogenide Hetero-Nanostructures. 2018	2
207	Keys for Designing Hematite/Plasmonic Metal Hybrid Nanostructures with Enhanced Photoactive Properties. 2018 , 122, 4589-4599	6
206	Magneto-plasmonic Au-Coated Co nanoparticles synthesized via hot-injection method. 2018 , 29, 065604	12
205	Mechanistic formation of drug-encapsulated Janus particles through emulsion solvent evaporation.. 2018 , 8, 16032-16042	12
204	Quantitative Attachment of Bimetal Combinations of Transition-Metal Ions to the Surface of TiO Nanorods. 2018 , 34, 5422-5434	5
203	One-dimensional magnetic nanocomposites with attapulgites as templates: Growth, formation mechanism and magnetic alignment. 2018 , 441, 239-250	15
202	Metal@semiconductor core-shell nanocrystals with atomically organized interfaces for efficient hot electron-mediated photocatalysis. 2018 , 48, 44-52	75
201	Kolloidale Quantennanostrukturen: neue Materialien für Displayanwendungen. 2018 , 130, 4354-4376	11
200	Colloidal Quantum Nanostructures: Emerging Materials for Display Applications. 2018 , 57, 4274-4295	120
199	Electronic transport study of PbSe pellets prepared from self-assembled 2D-PbSe nanostructures. 2018 , 18, 226-230	3
198	Formation of uniform carrot-like CuS-CuInS heteronanostructures assisted by citric acid at the oil/aqueous interface. 2018 , 47, 67-73	5
197	Efficient Electrosteric Assembly of Nanoparticle Heterodimers and Linear Heteroassemblies. 2018 , 34, 826-836	7
196	Colloidal Au/iron oxide nanocrystal heterostructures: magnetic, plasmonic and magnetic hyperthermia properties. 2018 , 6, 12329-12340	6
195	4. Size and shape-controlled synthesis of Ru nanocrystals. 2018 , 199-278	
194	Nanostructure Optimization of Platinum-Based Nanomaterials for Catalytic Applications. 2018 , 8,	24
193	Pulsed axial epitaxy of colloidal quantum dots in nanowires enables facet-selective passivation. 2018 , 9, 4947	15

192	Controlling the Morphology of Au-Pd Heterodimer Nanoparticles by Surface Ligands. 2018 , 57, 13640-13652	7
191	Size and shape-controlled synthesis of Ru nanocrystals. 2018 , 3,	
190	Complex assembly from planar and twisted π -conjugated molecules towards alloy helices and core-shell structures. 2018 , 9, 4358	24
189	Vibrational spectroscopy of compound semiconductor nanocrystals. 2018 , 51, 503001	40
188	Bio-nano: Theranostic at Cellular Level. 2018 , 85-170	1
187	Photocatalysis with Pt-Au-ZnO and Au-ZnO Hybrids: Effect of Charge Accumulation and Discharge Properties of Metal Nanoparticles. 2018 , 34, 7334-7345	32
186	Phase segregation enabled scandium fluoride/lanthanide fluoride Janus nanoparticles. 2018 , 5, 1800-1804	5
185	Solar light active plasmonic Au@TiO ₂ nanocomposite with superior photocatalytic performance for H ₂ production and pollutant degradation. 2018 , 42, 10958-10968	47
184	On the high response towards TEA of gas sensors based on Ag-loaded 3D porous ZnO microspheres. 2018 , 270, 492-499	82
183	Engineered nanomaterials: nanofabrication and surface functionalization. 2018 , 305-340	12
182	Combining X-Ray Whole Powder Pattern Modeling, Rietveld and Pair Distribution Function Analyses as a Novel Bulk Approach to Study Interfaces in Heteronanostructures: Oxidation Front in FeO/Fe ₂ O ₃ Core/Shell Nanoparticles as a Case Study. 2018 , 14, e1800804	8
181	Understanding the formation of nanocomposites consisting of silver sulfide and platinum hollow nanostructures. 2018 , 265, 387-392	2
180	Tuning the Valency of Heterogeneous Au/Silica Nanostructure via Controlled Ostwald Ripening Process. 2018 , 122, 18077-18085	4
179	Template-Guided Programmable Janus Heteronanostructure Arrays for Efficient Plasmonic Photocatalysis. 2018 , 18, 4914-4921	34
178	Modulated Triple-Material Nano-Heterostructures: Where Gold Influenced the Chemical Activity of Silver in Nanocrystals. 2018 , 14, e1801598	5
177	Plasma catalysis application of gold nanoparticles for acetaldehyde decomposition. 2018 , 347, 913-922	26
176	Synthesis and Biomedical Applications of Multifunctional Nanoparticles. 2018 , 30, e1802309	154
175	Recent advances in syntheses, properties and applications of TiO ₂ nanostructures.. 2018 , 8, 30125-30147	124

174	Large-Scale, Solution-Synthesized Nanostructured Composites for Thermoelectric Applications. 2018 , 30, e1801904	12
173	A simple strategy to achieve shape control of Au-CuS colloidal heterostructured nanocrystals and their preliminary use in organic photovoltaics. 2018 , 10, 11745-11749	10
172	A facile synthetic approach and optical properties of AuNPs/CdSe tetrapod and AuNPs/CdSe@rGO nanocomposites. 2019 , 293, 111493	9
171	Water-guided synthesis of well-defined inorganic micro-/nanostructures. 2019 , 55, 9418-9431	1
170	Structural and magnetic properties of Pd doped h-NiS nanoparticles prepared via seeding method. 2019 , 45, 22344-22350	1
169	Engineering of Ruthenium-Iron Oxide Colloidal Heterostructures: Improved Yields in CO Hydrogenation to Hydrocarbons. 2019 , 58, 17451-17457	28
168	Synthesis of Ag-Ag ₂ S Heterodimers with Enhanced Violet Emission. 2019 , 2019, 4048-4053	1
167	Engineering of Ruthenium-Iron Oxide Colloidal Heterostructures: Improved Yields in CO ₂ Hydrogenation to Hydrocarbons. 2019 , 131, 17612-17618	4
166	Stepwise Synthesis of Au@CdS-CdS Nanoflowers and Their Enhanced Photocatalytic Properties. 2019 , 14, 148	9
165	. 2019 ,	0
164	Nonradiative Excited-State Decay via Conical Intersection in Graphene Nanostructures. 2019 , 20, 2754-2758	4
163	Wet-Chemical Synthesis and Applications of Semiconductor Nanomaterial-Based Epitaxial Heterostructures. 2019 , 11, 86	20
162	Epitaxial growth of dual-color-emitting organic heterostructures via binary solvent synergism driven sequential crystallization. 2019 , 11, 7111-7116	20
161	Revisiting the Polyol Synthesis of Silver Nanostructures: Role of Chloride in Nanocube Formation. 2019 , 13, 1849-1860	44
160	Exploring the synthesis conditions to control the morphology of gold-iron oxide heterostructures. 2019 , 12, 1781-1788	11
159	A perspective of chalcogenide semiconductor-noble metal nanocomposites through structural transformations. 2019 , 1, 184-197	5
158	High-efficiency CdSe/CdS nanorod-based red light-emitting diodes. 2019 , 27, 7935-7944	20
157	Heterostructures in two-dimensional colloidal metal chalcogenides: Synthetic fundamentals and applications. 2019 , 12, 1750-1769	19

156	Core-Shell NaHoF@TiO NPs: A Labeling Method to Trace Engineered Nanomaterials of Ubiquitous Elements in the Environment. 2019 , 11, 19452-19461	3
155	High Nd(III)-Sensitizer Concentrations for 800 nm Wavelength Excitation Using Isotropic CoreShell Upconversion Nanoparticles. 2019 , 31, 3103-3110	15
154	Ethanol-Mediated Phase Transfer of Metal Ions and Nanoparticles. 2019 , 35-67	
153	An Introduction to Noble Metal-Based Composite Nanomaterials. 2019 , 1-33	1
152	Scientific Issues Derived from Noble Metal-Based Nanocomposites. 2019 , 383-418	
151	Conclusion and Perspectives. 2019 , 419-422	
150	Nanocomposites Consisting of Chalcogenide Semiconductors and Gold. 2019 , 69-147	
149	Nanocomposites Consisting of Chalcogenide Semiconductors and Other Noble Metals. 2019 , 149-192	1
148	Nanocomposites Consisting of Chalcogenide Semiconductors and Noble Metals by Structural Transformations. 2019 , 217-247	
147	CoreShell-Structured Cadmium SelenidePlatinum Nanocomposites. 2019 , 249-276	
146	Nanocomposites Consisting of Metal Oxides and Noble Metals. 2019 , 301-381	
145	Nanocomposites Consisting of Silver Sulfide and Noble Metals. 2019 , 193-216	
144	Symmetry-Breaking Synthesis of Multicomponent Nanoparticles. 2019 , 52, 1125-1133	40
143	Advanced Catalysts Derived from Composition-Segregated PlatinumNickel Nanostructures: New Opportunities and Challenges. 2019 , 29, 1808161	30
142	Synthesis of Au/CdSe Janus Nanoparticles with Efficient Charge Transfer for Improving Photocatalytic Hydrogen Generation. 2019 , 14, 349	10
141	Inorganic and organicInorganic composite nanoparticles with potential biomedical applications: synthesis challenges for enhanced performance. 2019 , 47-99	5
140	Near-Field Enhancement Contribution to the Photoactivity in MagnetiteGold Hybrid Nanostructures. 2019 , 123, 29891-29899	3
139	Multicomponent Plasmonic Nanoparticles: From Heterostructured Nanoparticles to Colloidal Composite Nanostructures. 2019 , 119, 12208-12278	153

138	ZnO Colloid Crystal Facet-Type Determines both Au Photodeposition and Photocatalytic Activity. 2019 , 2, 7856-7869	12
137	Electronic coupling in colloidal quantum dot molecules; the case of CdSe/CdS core/shell homodimers. 2019 , 151, 224501	11
136	Synthesis and Optical Properties of Cubic Chalcopyrite/Hexagonal Wurtzite Core/Shell Copper Indium Sulfide Nanocrystals. 2019 , 141, 20516-20524	10
135	Electronic doping-enabled transition from n- to p-type conductivity over Au@CdS core-shell nanocrystals toward unassisted photoelectrochemical water splitting. 2019 , 7, 23038-23045	25
134	Plasmonic noble metal@metal oxide core-shell nanoparticles for dye-sensitized solar cell applications. 2019 , 3, 63-91	28
133	Size Control at Maximum Yield and Growth Kinetics of Colloidal III-VI Semiconductor Nanocrystals. 2019 , 123, 1421-1428	5
132	Bionic SiO ₂ @Fc(COCH ₃) ₂ core-shell nanostructure for enhancing the electrochromic properties of ferrocene. 2019 , 360, 591-599	5
131	Au/CdSe hybrid nanoflowers: a high photocurrent generating photoelectrochemical cells. 2019 , 52, 1-7	3
130	A welding phenomenon of dissimilar nanoparticles in dispersion. 2019 , 10, 219	11
129	Multisegmented Metallic Nanorods: Sub-10 nm Growth, Nanoscale Manipulation, and Subwavelength Imaging. 2019 , 31, e1804958	5
128	Colloidal nanocrystals for heterogeneous catalysis. <i>Nano Today</i> , 2019 , 24, 15-47	17.9 68
127	Anisotropic Growth of Silver Nanoparticles Is Kinetically Controlled by Polyvinylpyrrolidone Binding. 2019 , 141, 4328-4337	46
126	Colloidal Nanocrystals as Building Blocks for Well-Defined Heterogeneous Catalysts. 2019 , 31, 576-596	44
125	Unraveling the Interfacial Structure-Performance Correlation of Flexible Metal-Organic Framework Membranes on Polymeric Substrates. 2019 , 11, 5570-5577	20
124	Colloidal Nanoparticles for Heterogeneous Catalysis. 2019 ,	
123	Systematic optimization of promoters in trace SnS ₂ coating SnO ₂ nano-heterostructure for high performance Cr(VI) photoreduction. 2019 , 471, 813-821	12
122	Ruthenium Nanomaterials: An Overview of Recent Developments in Colloidal Synthesis, Properties, and Potential Applications. 2019 , 99-141	0
121	Emission layer of F4TCNQ-Doped nanorods for high-efficient red light-emitting diodes. 2020 , 76, 105460	4

120	Colloidal oxide-based heterostructured nanocrystals. 2020 , 401-470	0
119	Selective Growth of Metal Sulfide, Metal, and Metal-Alloy on 2D CdS Nanoplates. 2020 , 6,	3
118	Environmental Nanotechnology Volume 3. 2020 ,	1
117	Fractal-in-a-Sphere: Confined Self-Assembly of Fractal Silica Nanoparticles. 2020 , 32, 341-347	21
116	Sequential Chemistry Toward Core-Shell Structured Metal Sulfides as Stable and Highly Efficient Visible-Light Photocatalysts. 2020 , 59, 3287-3293	44
115	Sequential Chemistry Toward Core-Shell Structured Metal Sulfides as Stable and Highly Efficient Visible-Light Photocatalysts. 2020 , 132, 3313-3319	13
114	Highly Stable Pt-Based Ternary Systems for Oxygen Reduction Reaction in Acidic Electrolytes. 2020 , 10, 2002049	24
113	Structure-oriented catalytic radiosensitization for cancer radiotherapy. <i>Nano Today</i> , 2020 , 35, 100988	17.9 13
112	Control over Structure and Properties in Nanocrystal Aerogels at the Nano-, Micro-, and Macroscale. 2020 , 53, 2414-2424	22
111	Inhibitor-self-gated stimuli-responsive anticorrosion system based on π -stacking. 2020 , 400, 125917	2
110	Plasmonic Metallic Heteromeric Nanostructures. 2020 , 16, e2002588	18
109	Branched Heterostructured Semiconductor Nanocrystals with Various Branch Orders a Facet-to-Facet Linking Process. 2020 , 14, 10337-10345	3
108	Janus nanoparticles for cellular delivery chemotherapy: Recent advances and challenges. 2020 , 422, 213467	19
107	Resonant plasmon enhancement of light emission from CdSe/CdS nanoplatelets on Au nanodisk arrays. 2020 , 153, 164708	3
106	Construction and optoelectronic applications of organic core/shell micro/nanostructures. 2020 , 7, 3161-3175	9
105	Axially Segmented Semiconductor Heteronanowires. 2020 , 1, 126-136	5
104	Metal chalcogenide semiconductor nanocrystals synthesized from ion-conducting seeds and their applications. 2020 , 8, 13868-13895	4
103	Auxetic, Partially Auxetic, and Nonauxetic Behaviour in 2D Crystals of Hard Cyclic Tetramers. 2020 , 14, 2000198	22

102	Coupled hard/soft spinel ferrite-based core/shell nanoarchitectures: magnetic properties and heating abilities. 2020 , 2, 3191-3201	21
101	Surface passivation enabled-structural engineering of I-III-VI ₂ nanocrystal photocatalysts. 2020 , 8, 9951-9962	7
100	A General Synthetic Strategy to a Library of Luminescent All-Organic Core/Shell Microstructures. 2020 , 32, 5162-5172	16
99	Misfit stresses and their relaxation by misfit dislocation loops in core-shell nanoparticles with truncated spherical cores. 2020 , 81, 103967	5
98	Metal/semiconductor interfaces in nanoscale objects: synthesis, emerging properties and applications of hybrid nanostructures. 2020 , 2, 930-961	25
97	Engine-Trailer-Structured Nanotrucks for Efficient Nano-Bio Interactions and Bioimaging-Guided Drug Delivery. 2020 , 6, 1097-1112	33
96	Facile synthesis of asymmetric patchy Janus Ag/Cu particles and study of their antifungal activity. 2020 , 14, 24-32	4
95	Supramolecular core/shell heterostructures with controllable multi-color-emitting properties. 2020 , 8, 2669-2675	7
94	Nanointerface Chemistry: Lattice-Mismatch-Directed Synthesis and Application of Hybrid Nanocrystals. 2020 , 120, 2123-2170	97
93	Design of Magnetic-Plasmonic Nanoparticle Assemblies via Interface Engineering of Plasmonic Shells for Targeted Cancer Cell Imaging and Separation. 2020 , 16, e2001103	12
92	Light-Activated Heterostructured Nanomaterials for Antibacterial Applications. 2020 , 10,	27
91	Probing the meta-stability of oxide core/shell nanoparticle systems at atomic resolution. 2021 , 405, 126820	4
90	Hybrid magneto-luminescent iron oxide nanocubes functionalized with europium complexes: synthesis, hemolytic properties and protein corona formation. 2021 , 9, 428-439	2
89	Interface Engineering of Air Electrocatalysts for Rechargeable Zinc/Air Batteries. 2021 , 11, 2002762	47
88	Magneto-Plasmonic Nanoparticles. 2021 , 107-136	2
87	WN/WC composite nanofibers as an efficient electrocatalyst for photoelectrochemical hydrogen evolution.. 2021 , 11, 20285-20291	2
86	Rational Component and Structure Design of Noble-Metal Composites for Optical and Catalytic Applications. 2021 , 2, 2000138	12
85	Symmetric and asymmetric epitaxial growth of metals (Ag, Pd, and Pt) onto Au nanotriangles: effects of reductants and plasmonic properties. 2021 , 13, 2902-2913	1

84	Transformation of Battery to High Performance Pseudocapacitor by the Hybridization of WO with RuO Nanostructures. 2021 , 37, 1141-1151	6
83	Solution Phase Synthesis of Radial-Axial Heterostructured Nanowires with Coherent Interfaces. 2021 , 125, 3102-3109	2
82	Designing heterostructured core@satellite Prussian Blue Analogue@AuAg nanoparticles: Effect on the magnetic properties and catalytic activity. 2021 , 8, 2248-2260	2
81	Exploring Heterostructured Upconversion Nanoparticles: From Rational Engineering to Diverse Applications. 2021 , 15, 3709-3735	26
80	Magneto-Electrically Enhanced Intracellular Catalysis of FePt-FeC Heterostructures for Chemodynamic Therapy. 2021 , 33, e2100472	23
79	Synchronous Dual Roles of Copper Sulfide on the Insulating PET Fabric for High-Performance Portable Flexible Supercapacitors. 2021 , 35, 6880-6891	7
78	Seeded Growth of Au@CuO Core-Shell Mesoporous Nanospheres and Their Photocatalytic Properties. 2021 , 9, 671220	3
77	Why Is Making Epitaxially Grown All Inorganic PerovskiteChalcogenide Nanocrystal Heterostructures Challenging? Some Facts and Some Strategies. 2021 , 33, 3868-3877	10
76	Synthesis, Assembly, Optical Properties, and Sensing Applications of Plasmonic Gap Nanostructures. 2021 , 33, e2006966	15
75	Core-shell AgPt nanoparticles: A versatile platform for the synthesis of heterogeneous nanostructures towards catalyzing electrochemical reactions. 2021 , 32, 3288-3288	3
74	Chemoselective Insertion of a CdS Rod between Au/Metal-Oxide Heterodimers. 2021 , 33, 4701-4708	1
73	Enriching the library of axial superlattice nanowires. 2021 , 64, 2627-2628	
72	Microwave Synthetic Routes for Shape-Controlled Catalyst Nanoparticles and Nanocomposites. 2021 , 26,	5
71	Excited-State Charge Transfer and Extended Charge Separation within Covalently Tethered Type-II CdSe/CdTe Quantum Dot Heterostructures: Colloidal and Multilayered Systems. 2021 , 13, 30980-30991	2
70	Effect of the Metal Deposition Order on Structural, Electronic and Catalytic Properties of TiO ₂ -Supported Bimetallic Au-Ag Catalysts in 1-Octanol Selective Oxidation. 2021 , 11, 799	0
69	High selectivity of Ag-doped Fe ₂ O ₃ hollow nanofibers in H ₂ S detection at room operating temperature. 2021 , 341, 129919	15
68	Seed-Mediated Growth of Pt on High-Index Faceted Au Nanocrystals: The Ag Lining and Implications for Electrocatalysis. 2021 , 4, 9155-9166	1
67	Hierarchical Self-Assembly of Organic Core/Multi-Shell Microwires for Trichromatic White-Light Sources. 2021 , 33, e2102719	19

66	Tuning the Dimensionality of Excitons in Colloidal Quantum Dot Molecules. 2021 , 21, 7339-7346	2
65	Microwave synthesis of zeolites and their related applications. 2021 , 323, 111262	12
64	Heterodimers of metal nanoparticles: synthesis, properties, and biological applications. 2021 , 188, 345	3
63	Surface lattice engineering for fine-tuned spatial configuration of nanocrystals. 2021 , 12, 5661	4
62	Plasmonic metal/semiconductor hybrid nanomaterials for solar to chemical energy conversion. 2021 , 63, 40-53	1
61	Ternary hybrid CuO-PMA-Ag sub-1 nm nanosheet heterostructures. 2021 , 12, 11490-11494	2
60	On the synthesis of bi-magnetic manganese ferrite-based core-shell nanoparticles. 2021 , 3, 1612-1623	3
59	Semiconductor Nanomaterials for Gas Sensor Applications. 2020 , 305-355	2
58	Nanoscale Materials: Fundamentals and Emergent Properties. 2017 , 7-28	1
57	Optical Properties of Semiconductor Nanorods. 2013 , 7-55	2
56	Size and shape-controlled nanomaterials based on modified polyol and thermal decomposition approaches. A brief review.. 2019 , 91,	19
55	Preparation of Novel Complex Nano-Structured Gold Catalyst Au@TiO ₂ /MCM-22, Characterization and Remarkably Catalytic Performance for Cyclohexane Oxidation. 2017 , 06, 15-29	2
54	Photoacoustic and surface photovoltaic characteristics of L-Cysteine-capped ZnSe quantum dots with a core-shell structure. 2016 , 65, 038101	2
53	Symmetry-Reduced Metal Nanostructures Offer New Opportunities in Plasmonics and Catalysis.	4
52	Type-I CdSe/ZnS Heteronanoplatelets Exhibit Enhanced Photocatalytic Hydrogen Evolution by Interfacial Trap-Mediated Hole Transfer.	1
51	Heterostructures Built through Site-Selective Deposition on Anisotropic Plasmonic Metal Nanocrystals and Their Applications. 2100101	5
50	Nanocomposites Consisting of Silver Sulfide and Noble Metals. 2015 , 93-113	1
49	Nanocomposites of Silver Sulfide and Noble Metals with Controlled Nanostructures. 2015 , 143-163	

48	Introduction. 2015 , 1-9	
47	Synthetic Strategies for Anisotropic and Shape-Selective Nanomaterials. 2017 , 29-77	
46	One-Dimensional Colloidal Hetero-Nanomaterials with Programmed Semiconductor Morphology and Metal Location for Enhancing Solar Energy Conversion. 2018 , 77-94	
45	Introduction. 2019 , 1-16	
44	Selective Oxidation of Glycerol: A Biomass-Derived Feedstock Using the Pt/Cu Janus Catalyst for Value-Added Products. 2021 , 60, 185-195	2
43	Bottom-up synthesis of nanosized objects. 2022 , 85-123	1
42	Core-shell nanostructures for better thermoelectrics.	2
41	Interfacial Stress-Modulated Mechanosensitive Upconversion Luminescence of NaErF ₄ Based Heteroepitaxial Core-shell Nanoparticles. 2101702	1
40	Mechanistic Understanding of Formation of Ultrathin Single-Crystalline Pt Nanowires.	0
39	Synthesis of dot in rod semiconductor heterostructures for the engineering of nanocrystals optical properties. 2021 ,	
38	Crystal growth of nanomaterials. 2021 , 23, 7874-7875	
37	Light Harvesting in Magnetite-Coated Plasmonic Metal Nanospheres. 2022 , 126, 885-891	0
36	Recent Progress on Asymmetric Carbon- and Silica-Based Nanomaterials: From Synthetic Strategies to Their Applications.. 2022 , 14, 45	2
35	Synthesis of multicomponent colloidal nanoparticles. 2022 ,	
34	2D KBr/Graphene Heterostructures-Influence on Work Function and Friction.. 2022 , 12,	0
33	Continuous tuning the wetting growth of Au on Se nanoparticles.. 2022 , 618, 451-461	0
32	Monitoring the Thiol/Thiophenol Molecule-Modulated Plasmon-Mediated Silver Oxidation with Dark-Field Optical Microscopy. 2021 ,	0
31	Enhanced photocatalytic activity of hierarchical C/ZnO nanocomposite derived from solvothermally restructured Zn-BTC microspheres. 2022 , 10, 107674	1

30 Data_Sheet_1.PDF. 2020,

29 Synthetic Approaches to Colloidal Nanocrystal Heterostructures Based on Metal and Metal-Oxide Materials. 2022, 12, 1729 2

28 Au-Decorated ZnO/ZnFe₂O₄ Yolk-Shell Microspheres with Excellent Gas Sensing Properties to Acetone.

27 Construction of Plasmonic Metal@Semiconductor Core/Shell Photocatalysts: From Epitaxial to Nonepitaxial Strategies. 2200045 3

26 Solid-State Reaction Synthesis of Nanoscale Materials: Strategies and Applications. 0

25 A surfactant-free approach: Novel one-step ultrasonic nebulizer spray method to generate amphiphilic Janus particles. 2022, 627, 375-384 1

24 Heterogeneous Oxysulfide@Fluoride Core/Shell Nanocrystals for Upconversion-Based Nanothermometry. 2022, 16, 12107-12117 0

23 Preparation of g-C₃N₄/CQDs/Ag₂S Composite Material and Its Antibacterial Properties. 2022, 12, 1683-1691 0

22 Interfacial-assembly engineering of asymmetric magnetic-mesoporous organosilica nanocomposites with tunable architectures. 0

21 A ZnO/ZnFe₂O₄ nB heterojunction and Au loading synergistically improve the sensing performance of acetone. 0

20 Recent Advances on Molecule-Based Micro/Nanocrystal Heterojunctions for Optical Applications. 2200852 0

19 From Structure to Function: Understanding Synthetic Conditions in Relation to Magnetic Properties of Hybrid Pd/Fe-Oxide Nanoparticles. 2022, 12, 3649 0

18 Recent developments of hybrid metal chalcogenides for high performance supercapacitors. 2022, 0

17 One-dimensional semiconducting hierarchical nanostructures. 2022, 0

16 Research on the Thickness and Microstructure of Plate-like TiO₂ by the Nanosheet-Seeding Growth Technique. 2022, 12, 1673 0

15 Defects and Surface Chemistry of Novel PH-Tunable NiO-Mn₃O₄□□□□Mn_xNi_{1-x}O Heterostructured Nanocrystals as Determined Using X-ray Photoemission Spectroscopy. 0

14 Nanoceria as an Electron Reservoir: Spontaneous Deposition of Metal Nanoparticles on Oxides and Their Anti-inflammatory Activities. 1

13 Core-Shell Nanoheterodimers: Laser-Assisted Deposition of Single Bimetallic Au@M (M = Au, Ag, Pd, Pt) Nanodots on TiO₂ Nanoparticles. 0

- 12 Buffered template strategy for improving texture quality and piezoelectric properties of heterogeneous templated grain growth (K,Na)NbO₃-based ceramics through interface engineering. **2022**, ○
- 11 Spontaneous Hetero-attachment of Single-Component Colloidal Precursors for the Synthesis of Asymmetric AuAg₂X (X = S, Se) Heterodimers. **2022**, 34, 10849-10860 ○
- 10 Interfacial regulation of aqueous synthesized metal-semiconductor hetero-nanocrystals. 9, ○
- 9 Syntheses of Metal Nanocrystals. **2023**, 1-26 ○
- 8 Synthesis and properties of hollow Fe₃O₄@Au hybrid nano-structures for T1-T2 MR imaging and combination of magnetic and photo-induced heating. ○
- 7 Diffusion-controlled bridging of the Au Island and Au core in Au@Rh(OH)₃ core-shell structure. 11, ○
- 6 Nanocomposite and Hybrid-Based Electric and Electronic Gas Sensors. **2023**, 201-231 ○
- 5 Toward Rational Design of Ordered Heterostructures for Energy and Environmental Sustainability: A Review. 2200204 ○
- 4 Anisotropic Heavy-Metal-Free Semiconductor Nanocrystals: Synthesis, Properties, and Applications. **2023**, 123, 3625-3692 ○
- 3 Rich Landscape of Colloidal Semiconductor/Metal Hybrid Nanostructures: Synthesis, Synergetic Characteristics, and Emerging Applications. **2023**, 123, 3790-3851 ○
- 2 Colloidal Nanoparticles of II-VI Semiconductor Compounds and Their Participation in Photosensitization of Metal Oxides. **2023**, 157-179 ○
- 1 II-VI Semiconductor-Based Nanomaterials. **2023**, 325-357 ○