

Younan Xia

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8345192/younan-xia-publications-by-citations.pdf>

Version: 2024-04-23

This document has been generated based on the publications and citations recorded by exaly.com. 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.

678

papers

131,480

citations

182

h-index

351

g-index

704

ext. papers

141,812

ext. citations

12.1

avg, IF

8.85

L-index

#	Paper	IF	Citations
678	Shape-controlled synthesis of gold and silver nanoparticles. <i>Science</i> , 2002 , 298, 2176-9	33.3	5623
677	Shape-controlled synthesis of metal nanocrystals: simple chemistry meets complex physics?. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 60-103	16.4	4431
676	SOFT LITHOGRAPHY. <i>Annual Review of Materials Research</i> , 1998 , 28, 153-184		3912
675	Soft Lithography. <i>Angewandte Chemie - International Edition</i> , 1998 , 37, 550-575	16.4	3737
674	Pd-Pt bimetallic nanodendrites with high activity for oxygen reduction. <i>Science</i> , 2009 , 324, 1302-5	33.3	2605
673	Controlling the synthesis and assembly of silver nanostructures for plasmonic applications. <i>Chemical Reviews</i> , 2011 , 111, 3669-712	68.1	2056
672	Soft lithography for micro- and nanoscale patterning. <i>Nature Protocols</i> , 2010 , 5, 491-502	18.8	1538
671	Electrospinning and Electrospun Nanofibers: Methods, Materials, and Applications. <i>Chemical Reviews</i> , 2019 , 119, 5298-5415	68.1	1463
670	Gold nanostructures: engineering their plasmonic properties for biomedical applications. <i>Chemical Society Reviews</i> , 2006 , 35, 1084-94	58.5	1437
669	Unconventional Methods for Fabricating and Patterning Nanostructures. <i>Chemical Reviews</i> , 1999 , 99, 1823-1848	68.1	1341
668	Polyol Synthesis of Uniform Silver Nanowires: A Plausible Growth Mechanism and the Supporting Evidence. <i>Nano Letters</i> , 2003 , 3, 955-960	11.5	1331
667	Crystalline Silver Nanowires by Soft Solution Processing. <i>Nano Letters</i> , 2002 , 2, 165-168	11.5	1304
666	Uniform Silver Nanowires Synthesis by Reducing AgNO ₃ with Ethylene Glycol in the Presence of Seeds and Poly(Vinyl Pyrrolidone). <i>Chemistry of Materials</i> , 2002 , 14, 4736-4745	9.6	1293
665	Shape-controlled synthesis of metal nanostructures: the case of silver. <i>Chemistry - A European Journal</i> , 2005 , 11, 454-63	4.8	1261
664	Electrospinning of Polymeric and Ceramic Nanofibers as Uniaxially Aligned Arrays. <i>Nano Letters</i> , 2003 , 3, 1167-1171	11.5	1256
663	Gold nanocages covered by smart polymers for controlled release with near-infrared light. <i>Nature Materials</i> , 2009 , 8, 935-9	27	1232
662	Gold nanocages: synthesis, properties, and applications. <i>Accounts of Chemical Research</i> , 2008 , 41, 1587-95	24.3	1191

661	LangmuirBlodgett Silver Nanowire Monolayers for Molecular Sensing Using Surface-Enhanced Raman Spectroscopy. <i>Nano Letters</i> , 2003 , 3, 1229-1233	11.5	1167
660	Localized surface plasmon resonance spectroscopy of single silver nanocubes. <i>Nano Letters</i> , 2005 , 5, 2034-8	11.5	1166
659	Fabrication of Titania Nanofibers by Electrospinning. <i>Nano Letters</i> , 2003 , 3, 555-560	11.5	1090
658	Direct Fabrication of Composite and Ceramic Hollow Nanofibers by Electrospinning. <i>Nano Letters</i> , 2004 , 4, 933-938	11.5	1049
657	Bimetallic Nanocrystals: Syntheses, Properties, and Applications. <i>Chemical Reviews</i> , 2016 , 116, 10414-7268.1		1046
656	Mechanistic study on the replacement reaction between silver nanostructures and chloroauric acid in aqueous medium. <i>Journal of the American Chemical Society</i> , 2004 , 126, 3892-901	16.4	969
655	Synthesis of silver nanostructures with controlled shapes and properties. <i>Accounts of Chemical Research</i> , 2007 , 40, 1067-76	24.3	961
654	Immuno gold nanocages with tailored optical properties for targeted photothermal destruction of cancer cells. <i>Nano Letters</i> , 2007 , 7, 1318-22	11.5	911
653	Gold nanocages: bioconjugation and their potential use as optical imaging contrast agents. <i>Nano Letters</i> , 2005 , 5, 473-7	11.5	863
652	Polyol Synthesis of Silver Nanoparticles: Use of Chloride and Oxygen to Promote the Formation of Single-Crystal, Truncated Cubes and Tetrahedrons. <i>Nano Letters</i> , 2004 , 4, 1733-1739	11.5	838
651	Template-Engaged Replacement Reaction: A One-Step Approach to the Large-Scale Synthesis of Metal Nanostructures with Hollow Interiors. <i>Nano Letters</i> , 2002 , 2, 481-485	11.5	831
650	Gold Nanomaterials at Work in Biomedicine. <i>Chemical Reviews</i> , 2015 , 115, 10410-88	68.1	818
649	Maneuvering the surface plasmon resonance of silver nanostructures through shape-controlled synthesis. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 15666-75	3.4	814
648	Engineered nanoparticles for drug delivery in cancer therapy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 12320-64	16.4	807
647	Polymer microstructures formed by moulding in capillaries. <i>Nature</i> , 1995 , 376, 581-584	50.4	766
646	Shape-controlled synthesis of platinum nanocrystals for catalytic and electrocatalytic applications. <i>Nano Today</i> , 2009 , 4, 81-95	17.9	754
645	Facile synthesis of Ag nanocubes and Au nanocages. <i>Nature Protocols</i> , 2007 , 2, 2182-90	18.8	751
644	Shape-Controlled Synthesis and Surface Plasmonic Properties of Metallic Nanostructures. <i>MRS Bulletin</i> , 2005 , 30, 338-348	3.2	743

643	A comparison study of the catalytic properties of Au-based nanocages, nanoboxes, and nanoparticles. <i>Nano Letters</i> , 2010 , 10, 30-5	11.5	725
642	NANOCATALYSTS. Platinum-based nanocages with subnanometer-thick walls and well-defined, controllable facets. <i>Science</i> , 2015 , 349, 412-6	33.3	724
641	25th anniversary article: galvanic replacement: a simple and versatile route to hollow nanostructures with tunable and well-controlled properties. <i>Advanced Materials</i> , 2013 , 25, 6313-33	24	692
640	Transformation of Silver Nanospheres into Nanobelts and Triangular Nanoplates through a Thermal Process. <i>Nano Letters</i> , 2003 , 3, 675-679	11.5	680
639	Gold nanocages: from synthesis to theranostic applications. <i>Accounts of Chemical Research</i> , 2011 , 44, 914-24	24.3	668
638	Gold nanostructures: a class of multifunctional materials for biomedical applications. <i>Chemical Society Reviews</i> , 2011 , 40, 44-56	58.5	662
637	Understanding the role of surface charges in cellular adsorption versus internalization by selectively removing gold nanoparticles on the cell surface with a I2/KI etchant. <i>Nano Letters</i> , 2009 , 9, 1080-4	11.5	647
636	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals: Thermodynamic versus Kinetic Products. <i>Journal of the American Chemical Society</i> , 2015 , 137, 7947-66	16.4	606
635	Kinetically controlled synthesis of triangular and hexagonal nanoplates of palladium and their SPR/SERS properties. <i>Journal of the American Chemical Society</i> , 2005 , 127, 17118-27	16.4	590
634	Gold nanocages as photothermal transducers for cancer treatment. <i>Small</i> , 2010 , 6, 811-7	11	588
633	The effect of sedimentation and diffusion on cellular uptake of gold nanoparticles. <i>Nature Nanotechnology</i> , 2011 , 6, 385-91	28.7	579
632	Electrospun Nanofibers: New Concepts, Materials, and Applications. <i>Accounts of Chemical Research</i> , 2017 , 50, 1976-1987	24.3	577
631	Synthesis and optical properties of silver nanobars and nanorice. <i>Nano Letters</i> , 2007 , 7, 1032-6	11.5	545
630	Dimers of silver nanospheres: facile synthesis and their use as hot spots for surface-enhanced Raman scattering. <i>Nano Letters</i> , 2009 , 9, 485-90	11.5	539
629	Poly(vinyl pyrrolidone): a dual functional reductant and stabilizer for the facile synthesis of noble metal nanoplates in aqueous solutions. <i>Langmuir</i> , 2006 , 22, 8563-70	4	535
628	Synthesis and mechanistic study of palladium nanobars and nanorods. <i>Journal of the American Chemical Society</i> , 2007 , 129, 3665-75	16.4	531
627	Shape-Controlled Synthesis of Pd Nanocrystals in Aqueous Solutions. <i>Advanced Functional Materials</i> , 2009 , 19, 189-200	15.6	529
626	Synthesis and characterization of monodispersed core-shell spherical colloids with movable cores. <i>Journal of the American Chemical Society</i> , 2003 , 125, 2384-5	16.4	529

625	Large-scale synthesis of silver nanocubes: the role of HCl in promoting cube perfection and monodispersity. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2154-7	16.4	528
624	Chemical synthesis of novel plasmonic nanoparticles. <i>Annual Review of Physical Chemistry</i> , 2009 , 60, 167-927	16.7	525
623	Increased sensitivity of surface plasmon resonance of gold nanoshells compared to that of gold solid colloids in response to environmental changes. <i>Analytical Chemistry</i> , 2002 , 74, 5297-305	7.8	512
622	Metal nanocrystals with highly branched morphologies. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 76-85	16.4	500
621	Shape-controlled synthesis of Pd nanocrystals and their catalytic applications. <i>Accounts of Chemical Research</i> , 2013 , 46, 1783-94	24.3	495
620	Comparison study of gold nanohexapods, nanorods, and nanocages for photothermal cancer treatment. <i>ACS Nano</i> , 2013 , 7, 2068-77	16.7	492
619	Polymer hollow particles with controllable holes in their surfaces. <i>Nature Materials</i> , 2005 , 4, 671-5	27	491
618	Synthesis and characterization of 9 nm Pt-Ni octahedra with a record high activity of 3.3 A/mg(Pt) for the oxygen reduction reaction. <i>Nano Letters</i> , 2013 , 13, 3420-5	11.5	475
617	Optical properties of Pd-Ag and Pt-Ag nanoboxes synthesized via galvanic replacement reactions. <i>Nano Letters</i> , 2005 , 5, 2058-62	11.5	475
616	Au@Ag core-shell nanocubes with finely tuned and well-controlled sizes, shell thicknesses, and optical properties. <i>ACS Nano</i> , 2010 , 4, 6725-34	16.7	450
615	Functionalization of electrospun TiO ₂ nanofibers with Pt nanoparticles and nanowires for catalytic applications. <i>Nano Letters</i> , 2008 , 8, 668-72	11.5	440
614	Single-crystal nanowires of platinum can be synthesized by controlling the reaction rate of a polyol process. <i>Journal of the American Chemical Society</i> , 2004 , 126, 10854-5	16.4	439
613	Enhancing the catalytic and electrocatalytic properties of Pt-based catalysts by forming bimetallic nanocrystals with Pd. <i>Chemical Society Reviews</i> , 2012 , 41, 8035-49	58.5	438
612	Ultrathin gold nanowires can be obtained by reducing polymeric strands of oleylamine-AuCl complexes formed via aurophilic interaction. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8900-1	16.4	436
611	Rapid synthesis of silver nanowires through a CuCl- or CuCl ₂ -mediated polyol process. <i>Journal of Materials Chemistry</i> , 2008 , 18, 437-441		430
610	Seed-Mediated Growth of Colloidal Metal Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 60-95	16.4	428
609	Gold Nanocages for Biomedical Applications. <i>Advanced Materials</i> , 2007 , 19, 3177-3184	24	408
608	Controlling the Thickness of the Surface Oxide Layer on Cu Nanoparticles for the Fabrication of Conductive Structures by Ink-Jet Printing. <i>Advanced Functional Materials</i> , 2008 , 18, 679-686	15.6	407

607	Synthesis and characterization of stable aqueous dispersions of silver nanoparticles through the Tollens process. <i>Journal of Materials Chemistry</i> , 2002 , 12, 522-527		403
606	Electrospinning: A Simple and Versatile Technique for Producing Ceramic Nanofibers and Nanotubes. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 1861-1869	3.8	400
605	Understanding the role of oxidative etching in the polyol synthesis of Pd nanoparticles with uniform shape and size. <i>Journal of the American Chemical Society</i> , 2005 , 127, 7332-3	16.4	396
604	Platinum concave nanocubes with high-index facets and their enhanced activity for oxygen reduction reaction. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 2773-7	16.4	393
603	Electrospun nanofibers for regenerative medicine. <i>Advanced Healthcare Materials</i> , 2012 , 1, 10-25	10.1	389
602	Formkontrolle bei der Synthese von Metallnanokristallen: einfache Chemie, komplexe Physik?. <i>Angewandte Chemie</i> , 2009 , 121, 62-108	3.6	389
601	Facile synthesis of gold-silver nanocages with controllable pores on the surface. <i>Journal of the American Chemical Society</i> , 2006 , 128, 14776-7	16.4	389
600	Micromolding in Capillaries: Applications in Materials Science. <i>Journal of the American Chemical Society</i> , 1996 , 118, 5722-5731	16.4	388
599	Synthesis and optical properties of nanorattles and multiple-walled nanoshells/nanotubes made of metal alloys. <i>Journal of the American Chemical Society</i> , 2004 , 126, 9399-406	16.4	384
598	Atomic layer-by-layer deposition of Pt on Pd nanocubes for catalysts with enhanced activity and durability toward oxygen reduction. <i>Nano Letters</i> , 2014 , 14, 3570-6	11.5	380
597	Noble-metal nanocrystals with concave surfaces: synthesis and applications. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 7656-73	16.4	380
596	The differentiation of embryonic stem cells seeded on electrospun nanofibers into neural lineages. <i>Biomaterials</i> , 2009 , 30, 354-62	15.6	378
595	In vivo molecular photoacoustic tomography of melanomas targeted by bioconjugated gold nanocages. <i>ACS Nano</i> , 2010 , 4, 4559-64	16.7	376
594	Dark-field microscopy studies of single metal nanoparticles: understanding the factors that influence the linewidth of the localized surface plasmon resonance. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1949-1960		376
593	Synthesis of Pd nanocrystals enclosed by {100} facets and with sizes . <i>Nano Research</i> , 2011 , 4, 83-91	10	375
592	Polyol synthesis of platinum nanostructures: control of morphology through the manipulation of reduction kinetics. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 2589-92	16.4	373
591	Synthesis of anatase TiO ₂ nanocrystals with exposed {001} facets. <i>Nano Letters</i> , 2009 , 9, 2455-9	11.5	368
590	Size-dependence of surface plasmon resonance and oxidation for Pd nanocubes synthesized via a seed etching process. <i>Nano Letters</i> , 2005 , 5, 1237-42	11.5	368

589	Photoacoustic tomography of a rat cerebral cortex in vivo with au nanocages as an optical contrast agent. <i>Nano Letters</i> , 2007 , 7, 3798-802	11.5	366
588	Palladium-platinum core-shell icosahedra with substantially enhanced activity and durability towards oxygen reduction. <i>Nature Communications</i> , 2015 , 6, 7594	17.4	365
587	Synthesis of Pd-Pt bimetallic nanocrystals with a concave structure through a bromide-induced galvanic replacement reaction. <i>Journal of the American Chemical Society</i> , 2011 , 133, 6078-89	16.4	364
586	Controlling the shapes of silver nanocrystals with different capping agents. <i>Journal of the American Chemical Society</i> , 2010 , 132, 8552-3	16.4	364
585	Soft lithographic methods for nano-fabrication. <i>Journal of Materials Chemistry</i> , 1997 , 7, 1069-1074		364
584	Electrospinning of nanofibers with core-sheath, hollow, or porous structures. <i>Journal of Materials Chemistry</i> , 2005 , 15, 735		359
583	Polyol Synthesis of Platinum Nanoparticles: Control of Morphology with Sodium Nitrate. <i>Nano Letters</i> , 2004 , 4, 2367-2371	11.5	359
582	Palladium concave nanocubes with high-index facets and their enhanced catalytic properties. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 7850-4	16.4	356
581	Bottom-Up and Top-Down Approaches to the Synthesis of Monodispersed Spherical Colloids of Low Melting-Point Metals. <i>Nano Letters</i> , 2004 , 4, 2047-2050	11.5	354
580	Shape-controlled synthesis of copper nanocrystals in an aqueous solution with glucose as a reducing agent and hexadecylamine as a capping agent. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10560-4	16.4	352
579	Collecting electrospun nanofibers with patterned electrodes. <i>Nano Letters</i> , 2005 , 5, 913-6	11.5	343
578	A new theranostic system based on gold nanocages and phase-change materials with unique features for photoacoustic imaging and controlled release. <i>Journal of the American Chemical Society</i> , 2011 , 133, 4762-5	16.4	341
577	Fabrication of cubic nanocages and nanoframes by dealloying Au/Ag alloy nanoboxes with an aqueous etchant based on Fe(NO ₃) ₃ or NH ₄ OH. <i>Nano Letters</i> , 2007 , 7, 1764-9	11.5	341
576	Seed-mediated synthesis of Ag nanocubes with controllable edge lengths in the range of 30-200 nm and comparison of their optical properties. <i>Journal of the American Chemical Society</i> , 2010 , 132, 11372-8	16.4	338
575	Silver Nanowires Can Be Directly Coated with Amorphous Silica To Generate Well-Controlled Coaxial Nanocables of Silver/Silica. <i>Nano Letters</i> , 2002 , 2, 427-430	11.5	335
574	Near-infrared gold nanocages as a new class of tracers for photoacoustic sentinel lymph node mapping on a rat model. <i>Nano Letters</i> , 2009 , 9, 183-8	11.5	332
573	One-dimensional nanostructures of metals: large-scale synthesis and some potential applications. <i>Langmuir</i> , 2007 , 23, 4120-9	4	331
572	Right bipyramids of silver: a new shape derived from single twinned seeds. <i>Nano Letters</i> , 2006 , 6, 765-8	11.5	331

571	Observation of plasmon propagation, redirection, and fan-out in silver nanowires. <i>Nano Letters</i> , 2006 , 6, 1822-6	11.5	330
570	Structure sensitivity of alkynol hydrogenation on shape- and size-controlled palladium nanocrystals: which sites are most active and selective?. <i>Journal of the American Chemical Society</i> , 2011 , 133, 12787-94	16.4	324
569	Polyol synthesis of silver nanostructures: control of product morphology with Fe(II) or Fe(III) species. <i>Langmuir</i> , 2005 , 21, 8077-80	4	320
568	Palladium nanocrystals enclosed by {100} and {111} facets in controlled proportions and their catalytic activities for formic acid oxidation. <i>Energy and Environmental Science</i> , 2012 , 5, 6352-6357	35.4	313
567	Mechanistic studies on the galvanic replacement reaction between multiply twinned particles of Ag and H ₂ AuCl ₄ in an organic medium. <i>Journal of the American Chemical Society</i> , 2007 , 129, 1733-42	16.4	313
566	Assembly of Mesoscale Particles over Large Areas and Its Application in Fabricating Tunable Optical Filters. <i>Langmuir</i> , 1999 , 15, 266-273	4	302
565	The SERS activity of a supported Ag nanocube strongly depends on its orientation relative to laser polarization. <i>Nano Letters</i> , 2007 , 7, 1013-7	11.5	300
564	A Solution-Phase Approach to the Synthesis of Uniform Nanowires of Crystalline Selenium with Lateral Dimensions in the Range of 1080 nm. <i>Journal of the American Chemical Society</i> , 2000 , 122, 12582-12583 ³⁰⁰	16.4	300
563	Alloying and Dealloying Processes Involved in the Preparation of Metal Nanoshells through a Galvanic Replacement Reaction. <i>Nano Letters</i> , 2003 , 3, 1569-1572	11.5	299
562	Fabrication of three-dimensional micro-structures: Microtransfer molding. <i>Advanced Materials</i> , 1996 , 8, 837-840	24	297
561	Corrosion-based synthesis of single-crystal Pd nanoboxes and nanocages and their surface plasmon properties. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 7913-7	16.4	294
560	Rapid synthesis of small silver nanocubes by mediating polyol reduction with a trace amount of sodium sulfide or sodium hydrosulfide. <i>Chemical Physics Letters</i> , 2006 , 432, 491-496	2.5	292
559	Shape-Controlled Synthesis of Silver Nanoparticles for Plasmonic and Sensing Applications. <i>Plasmonics</i> , 2009 , 4, 171-179	2.4	290
558	Highly porous fibers by electrospinning into a cryogenic liquid. <i>Journal of the American Chemical Society</i> , 2006 , 128, 1436-7	16.4	287
557	Conductive Core-Sheath Nanofibers and Their Potential Application in Neural Tissue Engineering. <i>Advanced Functional Materials</i> , 2009 , 19, 2312-2318	15.6	286
556	Putting Electrospun Nanofibers to Work for Biomedical Research. <i>Macromolecular Rapid Communications</i> , 2008 , 29, 1775-1792	4.8	286
555	On the role of surface diffusion in determining the shape or morphology of noble-metal nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 6669-73	11.5	285
554	On the polyol synthesis of silver nanostructures: glycolaldehyde as a reducing agent. <i>Nano Letters</i> , 2008 , 8, 2077-81	11.5	285

553	A quantitative study on the photothermal effect of immuno gold nanocages targeted to breast cancer cells. <i>ACS Nano</i> , 2008 , 2, 1645-52	16.7	282
552	Electrospun nanofibers for neural tissue engineering. <i>Nanoscale</i> , 2010 , 2, 35-44	7.7	281
551	Melt coaxial electrospinning: a versatile method for the encapsulation of solid materials and fabrication of phase change nanofibers. <i>Nano Letters</i> , 2006 , 6, 2868-72	11.5	281
550	Integration of photonic and silver nanowire plasmonic waveguides. <i>Nature Nanotechnology</i> , 2008 , 3, 660-5	28.7	280
549	Nanofiber scaffolds with gradations in mineral content for mimicking the tendon-to-bone insertion site. <i>Nano Letters</i> , 2009 , 9, 2763-8	11.5	274
548	Soft Lithography 1998 , 37, 550		272
547	Radioactive ¹⁹⁸ Au-doped nanostructures with different shapes for in vivo analyses of their biodistribution, tumor uptake, and intratumoral distribution. <i>ACS Nano</i> , 2014 , 8, 4385-94	16.7	264
546	Ceramic nanofibers fabricated by electrospinning and their applications in catalysis, environmental science, and energy technology. <i>Polymers for Advanced Technologies</i> , 2011 , 22, 326-338	3.2	264
545	Unraveling the Effects of Size, Composition, and Substrate on the Localized Surface Plasmon Resonance Frequencies of Gold and Silver Nanocubes: A Systematic Single-Particle Approach. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 12511-12516	3.8	263
544	The effects of size, shape, and surface functional group of gold nanostructures on their adsorption and internalization by cells. <i>Small</i> , 2010 , 6, 517-22	11	263
543	V ₂ O ₅ nanorods on TiO ₂ nanofibers: a new class of hierarchical nanostructures enabled by electrospinning and calcination. <i>Nano Letters</i> , 2006 , 6, 1297-302	11.5	259
542	One-dimensional nanostructures of trigonal tellurium with various morphologies can be synthesized using a solution-phase approach. <i>Journal of Materials Chemistry</i> , 2002 , 12, 1875-1881		259
541	Facile synthesis of Ag nanocubes of 30 to 70 nm in edge length with CF(3)COOAg as a precursor. <i>Chemistry - A European Journal</i> , 2010 , 16, 10234-9	4.8	252
540	Stimuli-Responsive Materials for Controlled Release of Theranostic Agents. <i>Advanced Functional Materials</i> , 2014 , 24, 4206-4220	15.6	251
539	Replica molding using polymeric materials: A practical step toward nanomanufacturing. <i>Advanced Materials</i> , 1997 , 9, 147-149	24	251
538	Intermetallic Nanocrystals: Syntheses and Catalytic Applications. <i>Advanced Materials</i> , 2017 , 29, 1605997	24	246
537	Pd@Pt Core-Shell Concave Decahedra: A Class of Catalysts for the Oxygen Reduction Reaction with Enhanced Activity and Durability. <i>Journal of the American Chemical Society</i> , 2015 , 137, 15036-42	16.4	246
536	Microcontact Printing of Octadecylsiloxane on the Surface of Silicon Dioxide and Its Application in Microfabrication. <i>Journal of the American Chemical Society</i> , 1995 , 117, 9576-9577	16.4	246

535	Shape-Controlled Synthesis of Silver and Gold Nanostructures. <i>MRS Bulletin</i> , 2005 , 30, 356-361	3.2	245
534	Structural dependence of oxygen reduction reaction on palladium nanocrystals. <i>Chemical Communications</i> , 2011 , 47, 6566-8	5.8	244
533	Hollow nanostructures of platinum with controllable dimensions can be synthesized by templating against selenium nanowires and colloids. <i>Journal of the American Chemical Society</i> , 2003 , 125, 13364-5	16.4	241
532	Discrete plasticity in sub-10-nm-sized gold crystals. <i>Nature Communications</i> , 2010 , 1, 144	17.4	240
531	Quantitative analysis of the role played by poly(vinylpyrrolidone) in seed-mediated growth of Ag nanocrystals. <i>Journal of the American Chemical Society</i> , 2012 , 134, 1793-801	16.4	238
530	Use of electrospinning to directly fabricate hollow nanofibers with functionalized inner and outer surfaces. <i>Small</i> , 2005 , 1, 83-6	11	237
529	Softlithographie. <i>Angewandte Chemie</i> , 1998 , 110, 568-594	3.6	236
528	Synthesis of Ag nanocubes 18-32 nm in edge length: the effects of polyol on reduction kinetics, size control, and reproducibility. <i>Journal of the American Chemical Society</i> , 2013 , 135, 1941-51	16.4	235
527	Solvent-assisted microcontact molding: A convenient method for fabricating three-dimensional structures on surfaces of polymers. <i>Advanced Materials</i> , 1997 , 9, 651-654	24	235
526	Synthesis of palladium icosahedra with twinned structure by blocking oxidative etching with citric acid or citrate ions. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 790-4	16.4	234
525	Nanocrystals with unconventional shapes--a class of promising catalysts. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 7157-9	16.4	234
524	Synthesis of Pd-Au bimetallic nanocrystals via controlled overgrowth. <i>Journal of the American Chemical Society</i> , 2010 , 132, 2506-7	16.4	233
523	Emerging applications of phase-change materials (PCMs): teaching an old dog new tricks. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 3780-95	16.4	229
522	Radially aligned, electrospun nanofibers as dural substitutes for wound closure and tissue regeneration applications. <i>ACS Nano</i> , 2010 , 4, 5027-36	16.7	224
521	Facile synthesis of Pd-Pt alloy nanocages and their enhanced performance for preferential oxidation of CO in excess hydrogen. <i>ACS Nano</i> , 2011 , 5, 8212-22	16.7	223
520	Facile synthesis of highly faceted multioctahedral Pt nanocrystals through controlled overgrowth. <i>Nano Letters</i> , 2008 , 8, 4043-7	11.5	221
519	A thermoresponsive bubble-generating liposomal system for triggering localized extracellular drug delivery. <i>ACS Nano</i> , 2013 , 7, 438-46	16.7	220
518	Two- and three-dimensional crystallization of polymeric microspheres by micromolding in capillaries. <i>Advanced Materials</i> , 1996 , 8, 245-247	24	219

517	Chemical transformations of nanostructured materials. <i>Nano Today</i> , 2011 , 6, 186-203	17.9	215
516	A Comparative Study of Galvanic Replacement Reactions Involving Ag Nanocubes and AuCl(2) or AuCl(4). <i>Advanced Materials</i> , 2008 , 20, 2517-2522	24	215
515	Rapid prototyping of complex structures with feature sizes larger than 20 μm . <i>Advanced Materials</i> , 1996 , 8, 917-919	24	213
514	Optical near-field mapping of plasmonic nanoprisms. <i>Nano Letters</i> , 2008 , 8, 3357-63	11.5	212
513	Magnetic nanofibers of nickel ferrite prepared by electrospinning. <i>Applied Physics Letters</i> , 2003 , 83, 4586-4588	9.4	212
512	Neurite outgrowth on nanofiber scaffolds with different orders, structures, and surface properties. <i>ACS Nano</i> , 2009 , 3, 1151-9	16.7	211
511	Facile synthesis of bimetallic nanoplates consisting of Pd cores and Pt shells through seeded epitaxial growth. <i>Nano Letters</i> , 2008 , 8, 2535-40	11.5	209
510	Synthesis of Pd-Rh core-frame concave nanocubes and their conversion to Rh cubic nanoframes by selective etching of the Pd cores. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10266-70	16.4	203
509	A water-based synthesis of octahedral, decahedral, and icosahedral Pd nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 9279-82	16.4	200
508	Pt-Based Icosahedral Nanocages: Using a Combination of {111} Facets, Twin Defects, and Ultrathin Walls to Greatly Enhance Their Activity toward Oxygen Reduction. <i>Nano Letters</i> , 2016 , 16, 1467-71	11.5	197
507	A plasmon-assisted optofluidic (PAOF) system for measuring the photothermal conversion efficiencies of gold nanostructures and controlling an electrical switch. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 4169-73	16.4	196
506	Controlling the nucleation and growth of silver on palladium nanocubes by manipulating the reaction kinetics. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 2354-8	16.4	193
505	A Selective Etching Solution for Use with Patterned Self-Assembled Monolayers of Alkanethiolates on Gold. <i>Chemistry of Materials</i> , 1995 , 7, 2332-2337	9.6	190
504	Gold Nanocages: A Novel Class of Multifunctional Nanomaterials for Theranostic Applications. <i>Advanced Functional Materials</i> , 2010 , 20, 3684-3694	15.6	189
503	Understanding the SERS Effects of Single Silver Nanoparticles and Their Dimers, One at a Time. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 696-703	6.4	188
502	Extending Microcontact Printing as a Microlithographic Technique. <i>Langmuir</i> , 1997 , 13, 2059-2067	4	187
501	Gold nanocages as contrast agents for spectroscopic optical coherence tomography. <i>Optics Letters</i> , 2005 , 30, 3048-50	3	187
500	Quantifying the coverage density of poly(ethylene glycol) chains on the surface of gold nanostructures. <i>ACS Nano</i> , 2012 , 6, 512-22	16.7	186

499	Successive, Seed-Mediated Growth for the Synthesis of Single-Crystal Gold Nanospheres with Uniform Diameters Controlled in the Range of 50–150 nm. <i>Particle and Particle Systems Characterization</i> , 2014 , 31, 266-273	3.1	185
498	Synthesis of silver nanoplates at high yields by slowing down the polyol reduction of silver nitrate with polyacrylamide. <i>Journal of Materials Chemistry</i> , 2007 , 17, 2600		183
497	Magnetic-field-assisted electrospinning of aligned straight and wavy polymeric nanofibers. <i>Advanced Materials</i> , 2010 , 22, 2454-7	24	182
496	Shape-controlled synthesis of silver nanoparticles: Ab initio study of preferential surface coordination with citric acid. <i>Chemical Physics Letters</i> , 2008 , 458, 113-116	2.5	182
495	Controlling the Assembly of Silver Nanocubes through Selective Functionalization of Their Faces. <i>Advanced Materials</i> , 2008 , 20, 2416-2420	24	181
494	Atomic layer-by-layer deposition of platinum on palladium octahedra for enhanced catalysts toward the oxygen reduction reaction. <i>ACS Nano</i> , 2015 , 9, 2635-47	16.7	180
493	Comparison of the surface-enhanced Raman scattering on sharp and truncated silver nanocubes. <i>Chemical Physics Letters</i> , 2006 , 427, 122-126	2.5	180
492	Successive deposition of silver on silver nanoplates: lateral versus vertical growth. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 244-9	16.4	178
491	Nucleation and growth mechanisms for Pd-Pt bimetallic nanodendrites and their electrocatalytic properties. <i>Nano Research</i> , 2010 , 3, 69-80	10	177
490	A temperature-sensitive drug release system based on phase-change materials. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 7904-8	16.4	177
489	A self-assembly approach to the formation of asymmetric dimers from monodispersed spherical colloids. <i>Journal of the American Chemical Society</i> , 2001 , 123, 771-2	16.4	177
488	UV-ozone cleaning of supported poly(vinylpyrrolidone)-stabilized palladium nanocubes: effect of stabilizer removal on morphology and catalytic behavior. <i>Langmuir</i> , 2011 , 27, 7909-16	4	173
487	"Aligned-to-random" nanofiber scaffolds for mimicking the structure of the tendon-to-bone insertion site. <i>Nanoscale</i> , 2010 , 2, 923-6	7.7	173
486	Facile Synthesis of Sub-20 nm Silver Nanowires through a Bromide-Mediated Polyol Method. <i>ACS Nano</i> , 2016 , 10, 7892-900	16.7	173
485	Oxidative Etching and Its Role in Manipulating the Nucleation and Growth of Noble-Metal Nanocrystals. <i>Chemistry of Materials</i> , 2014 , 26, 22-33	9.6	172
484	Controlling the morphology of rhodium nanocrystals by manipulating the growth kinetics with a syringe pump. <i>Nano Letters</i> , 2011 , 11, 898-903	11.5	168
483	Growing Pt nanowires as a densely packed array on metal gauze. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10634-5	16.4	168
482	Engineering the Properties of Metal Nanostructures via Galvanic Replacement Reactions. <i>Materials Science and Engineering Reports</i> , 2010 , 70, 44-62	30.9	166

481	Ag nanowires coated with Ag/Pd alloy sheaths and their use as substrates for reversible absorption and desorption of hydrogen. <i>Journal of the American Chemical Society</i> , 2004 , 126, 5940-1	16.4	165
480	Synthesis and Characterization of Mesoscopic Hollow Spheres of Ceramic Materials with Functionalized Interior Surfaces. <i>Chemistry of Materials</i> , 2001 , 13, 1146-1148	9.6	163
479	Pattern transfer: Self-assembled monolayers as ultrathin resists. <i>Microelectronic Engineering</i> , 1996 , 32, 255-268	2.5	163
478	Silver nanocrystals with concave surfaces and their optical and surface-enhanced Raman scattering properties. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 12542-6	16.4	161
477	Polyol Synthesis of Ultrathin Pd Nanowires via Attachment-Based Growth and Their Enhanced Activity towards Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2014 , 24, 131-139	15.6	158
476	Recent Developments in Shape-Controlled Synthesis of Silver Nanocrystals. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 21647-21656	3.8	155
475	Chitosan-Based Inverse Opals: Three-Dimensional Scaffolds with Uniform Pore Structures for Cell Culture. <i>Advanced Materials</i> , 2009 , 21, 2997-3001	24	155
474	Quantitative Analysis of Dipole and Quadrupole Excitation in the Surface Plasmon Resonance of Metal Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20233-20240	3.8	153
473	Kinetically controlled overgrowth of Ag or Au on Pd nanocrystal seeds: from hybrid dimers to nonconcentric and concentric bimetallic nanocrystals. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15822-31	16.4	152
472	Use of controlled reactive spreading of liquid alkanethiol on the surface of gold to modify the size of features produced by microcontact Printing. <i>Journal of the American Chemical Society</i> , 1995 , 117, 3274-3275 ¹⁵⁰	16.4	150
471	Synthesis and characterization of noble-metal nanostructures containing gold nanorods in the center. <i>Advanced Materials</i> , 2010 , 22, 744-8	24	149
470	One-Dimensional Metal Nanostructures: From Colloidal Syntheses to Applications. <i>Chemical Reviews</i> , 2019 , 119, 8972-9073	68.1	148
469	Synthesis and characterization of Pd@Pt-Ni core-shell octahedra with high activity toward oxygen reduction. <i>ACS Nano</i> , 2014 , 8, 10363-71	16.7	148
468	Electrocatalysis on Shape-Controlled Palladium Nanocrystals: Oxygen Reduction Reaction and Formic Acid Oxidation. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 4172-4180	3.8	148
467	Isolating and probing the hot spot formed between two silver nanocubes. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2180-4	16.4	148
466	Microcontact Printing of Alkanethiols on Silver and Its Application in Microfabrication. <i>Journal of the Electrochemical Society</i> , 1996 , 143, 1070-1079	3.9	146
465	Trimeric clusters of silver in aqueous AgNO ₃ solutions and their role as nuclei in forming triangular nanoplates of silver. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 4917-21	16.4	145
464	Use of reduction rate as a quantitative knob for controlling the twin structure and shape of palladium nanocrystals. <i>Nano Letters</i> , 2015 , 15, 1445-50	11.5	144

463	Neurite outgrowth on electrospun nanofibers with uniaxial alignment: the effects of fiber density, surface coating, and supporting substrate. <i>ACS Nano</i> , 2014 , 8, 1878-85	16.7	140
462	Targeting gold nanocages to cancer cells for photothermal destruction and drug delivery. <i>Expert Opinion on Drug Delivery</i> , 2010 , 7, 577-87	8	140
461	Cation exchange: a simple and versatile route to inorganic colloidal spheres with the same size but different compositions and properties. <i>Langmuir</i> , 2007 , 23, 2985-92	4	140
460	Noble-Metal Nanocrystals with Controlled Shapes for Catalytic and Electrocatalytic Applications. <i>Chemical Reviews</i> , 2021 , 121, 649-735	68.1	140
459	Evaluating the pharmacokinetics and in vivo cancer targeting capability of Au nanocages by positron emission tomography imaging. <i>ACS Nano</i> , 2012 , 6, 5880-8	16.7	138
458	Quantifying the cellular uptake of antibody-conjugated Au nanocages by two-photon microscopy and inductively coupled plasma mass spectrometry. <i>ACS Nano</i> , 2010 , 4, 35-42	16.7	137
457	Polyol synthesis of Cu ₂ O nanoparticles: use of chloride to promote the formation of a cubic morphology. <i>Journal of Materials Chemistry</i> , 2008 , 18, 4069		135
456	Microcontact Printing of Alkanethiols on Copper and Its Application in Microfabrication. <i>Chemistry of Materials</i> , 1996 , 8, 601-603	9.6	135
455	A Hybrid Nanomaterial for the Controlled Generation of Free Radicals and Oxidative Destruction of Hypoxic Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8801-8804	16.4	134
454	Synthesis and electrical characterization of silver nanobeams. <i>Nano Letters</i> , 2006 , 6, 2273-8	11.5	134
453	Synthesis of silver octahedra with controlled sizes and optical properties via seed-mediated growth. <i>ACS Nano</i> , 2013 , 7, 4586-94	16.7	133
452	Quantitative analysis of the coverage density of Br ⁻ ions on Pd{100} facets and its role in controlling the shape of Pd nanocrystals. <i>Journal of the American Chemical Society</i> , 2013 , 135, 3780-3	16.4	132
451	Synthesis and Characterization of Pt-Ag Alloy Nanocages with Enhanced Activity and Durability toward Oxygen Reduction. <i>Nano Letters</i> , 2016 , 16, 6644-6649	11.5	132
450	Facile synthesis of iridium nanocrystals with well-controlled facets using seed-mediated growth. <i>Journal of the American Chemical Society</i> , 2014 , 136, 10878-81	16.4	131
449	Synthesis, stability, and surface plasmonic properties of rhodium multipods, and their use as substrates for surface-enhanced Raman scattering. <i>Angewandte Chemie - International Edition</i> , 2006 , 45, 1288-92	16.4	131
448	Micromolding of Polymers in Capillaries: Applications in Microfabrication. <i>Chemistry of Materials</i> , 1996 , 8, 1558-1567	9.6	129
447	Synthesis and Optical Properties of Cubic Gold Nanoframes. <i>Nano Research</i> , 2008 , 1, 441-449	10	128
446	The physical chemistry and materials science behind sinter-resistant catalysts. <i>Chemical Society Reviews</i> , 2018 , 47, 4314-4331	58.5	127

445	Facile synthesis of gold nanoparticles with narrow size distribution by using AuCl or AuBr as the precursor. <i>Chemistry - A European Journal</i> , 2008 , 14, 1584-91	4.8	126
444	Facile synthesis of palladium right bipyramids and their use as seeds for overgrowth and as catalysts for formic acid oxidation. <i>Journal of the American Chemical Society</i> , 2013 , 135, 15706-9	16.4	125
443	Mechanistic study of the synthesis of Au nanotadpoles, nanokites, and microplates by reducing aqueous HAuCl ₄ with poly(vinyl pyrrolidone). <i>Langmuir</i> , 2008 , 24, 10437-42	4	125
442	Copper can still be epitaxially deposited on palladium nanocrystals to generate core-shell nanocubes despite their large lattice mismatch. <i>ACS Nano</i> , 2012 , 6, 2566-73	16.7	124
441	Gold nanocages for cancer detection and treatment. <i>Nanomedicine</i> , 2007 , 2, 657-68	5.6	123
440	Photocatalytic deposition of gold nanoparticles on electrospun nanofibers of titania. <i>Chemical Physics Letters</i> , 2004 , 394, 387-391	2.5	123
439	Non-Photolithographic Methods for Fabrication of Elastomeric Stamps for Use in Microcontact Printing. <i>Langmuir</i> , 1996 , 12, 4033-4038	4	123
438	A facile synthesis of asymmetric hybrid colloidal particles. <i>Journal of the American Chemical Society</i> , 2009 , 131, 1352-3	16.4	120
437	Surface-enhanced Raman scattering: comparison of three different molecules on single-crystal nanocubes and nanospheres of silver. <i>Journal of Physical Chemistry A</i> , 2009 , 113, 3932-9	2.8	119
436	PdAu Bimetallic Tripods: A Mechanistic Understanding of the Synthesis and Their Enhanced Electrocatalytic Activity for Formic Acid Oxidation. <i>Advanced Functional Materials</i> , 2014 , 24, 7520-7529	15.6	118
435	Etching and dimerization: a simple and versatile route to dimers of silver nanospheres with a range of sizes. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 164-8	16.4	118
434	Bright three-photon luminescence from gold/silver alloyed nanostructures for bioimaging with negligible photothermal toxicity. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 3485-8	16.4	118
433	Toward continuous and scalable production of colloidal nanocrystals by switching from batch to droplet reactors. <i>Chemical Society Reviews</i> , 2015 , 44, 5806-20	58.5	117
432	Gold nanocages covered with thermally-responsive polymers for controlled release by high-intensity focused ultrasound. <i>Nanoscale</i> , 2011 , 3, 1724-30	7.7	117
431	Large-Scale Synthesis of Silver Nanocubes: The Role of HCl in Promoting Cube Perfection and Monodispersity. <i>Angewandte Chemie</i> , 2005 , 117, 2192-2195	3.6	117
430	Facile synthesis of tadpole-like nanostructures consisting of Au heads and Pd tails. <i>Journal of the American Chemical Society</i> , 2007 , 129, 15452-3	16.4	116
429	Nanofiber scaffolds with gradients in mineral content for spatial control of osteogenesis. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2842-9	9.5	115
428	Dissolving Ag from Au-Ag Alloy Nanoboxes with H ₂ O ₂ : A Method for Both Tailoring the Optical Properties and Measuring the H ₂ O ₂ Concentration. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 6396-6400	3.8	115

427	Radioluminescent gold nanocages with controlled radioactivity for real-time in vivo imaging. <i>Nano Letters</i> , 2013 , 13, 581-5	11.5	114
426	Nerve guidance conduits based on double-layered scaffolds of electrospun nanofibers for repairing the peripheral nervous system. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 9472-80	9.5	113
425	Twin-induced growth of palladium-platinum alloy nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 6304-8	16.4	113
424	Facile Synthesis of Silver Nanocubes with Sharp Corners and Edges in an Aqueous Solution. <i>ACS Nano</i> , 2016 , 10, 9861-9870	16.7	112
423	Nanocrystal-based time-temperature indicators. <i>Chemistry - A European Journal</i> , 2010 , 16, 12559-63	4.8	112
422	Maneuvering the internal porosity and surface morphology of electrospun polystyrene yarns by controlling the solvent and relative humidity. <i>Langmuir</i> , 2013 , 29, 7070-8	4	111
421	A highly reactive and sinter-resistant catalytic system based on platinum nanoparticles embedded in the inner surfaces of CeO ₂ hollow fibers. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 9543-6	16.4	111
420	Measuring the Optical Absorption Cross-sections of Au-Ag Nanocages and Au Nanorods by Photoacoustic Imaging. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 9023-9028	3.8	111
419	A facile, water-based synthesis of highly branched nanostructures of silver. <i>Langmuir</i> , 2008 , 24, 12042-6	4	111
418	A Eutectic Mixture of Natural Fatty Acids Can Serve as the Gating Material for Near-Infrared-Triggered Drug Release. <i>Advanced Materials</i> , 2017 , 29, 1703702	24	110
417	Some recent developments in the chemical synthesis of inorganic nanotubes. <i>Chemical Communications</i> , 2005 , 5013-22	5.8	110
416	A sinter-resistant catalytic system based on platinum nanoparticles supported on TiO ₂ nanofibers and covered by porous silica. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 8165-8	16.4	109
415	Fabrication of Microbeads with a Controllable Hollow Interior and Porous Wall Using a Capillary Fluidic Device. <i>Advanced Functional Materials</i> , 2009 , 19, 2943-2949	15.6	106
414	An aligned porous electrospun fibrous membrane with controlled drug delivery - An efficient strategy to accelerate diabetic wound healing with improved angiogenesis. <i>Acta Biomaterialia</i> , 2018 , 70, 140-153	10.8	105
413	Probing the surface-enhanced Raman scattering properties of Au-Ag nanocages at two different excitation wavelengths. <i>Physical Chemistry Chemical Physics</i> , 2009 , 11, 5903-8	3.6	104
412	Electrocatalytic properties of Pt nanowires supported on Pt and W gauzes. <i>ACS Nano</i> , 2008 , 2, 2167-73	16.7	104
411	Ultrafast laser studies of the photothermal properties of gold nanocages. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1520-4	3.4	104
410	Photonic crystals with thermally switchable stop bands fabricated from Se@Ag ₂ Se spherical colloids. <i>Angewandte Chemie - International Edition</i> , 2005 , 44, 3099-103	16.4	104

409	Nanocrystals composed of alternating shells of Pd and Pt can be obtained by sequentially adding different precursors. <i>Journal of the American Chemical Society</i> , 2011 , 133, 10422-5	16.4	102
408	Direct fabrication of enzyme-carrying polymer nanofibers by electrospinning. <i>Journal of Materials Chemistry</i> , 2005 , 15, 3241		102
407	Synthesis and characterization of fivefold twinned nanorods and right bipyramids of palladium. <i>Chemical Physics Letters</i> , 2007 , 440, 273-278	2.5	101
406	Transformation of Pd nanocubes into octahedra with controlled sizes by maneuvering the rates of etching and regrowth. <i>Journal of the American Chemical Society</i> , 2013 , 135, 11752-5	16.4	99
405	A liposomal system capable of generating CO ₂ bubbles to induce transient cavitation, lysosomal rupturing, and cell necrosis. <i>Angewandte Chemie - International Edition</i> , 2012 , 51, 10089-93	16.4	99
404	Shape-controlled synthesis of metal nanocrystals. <i>MRS Bulletin</i> , 2013 , 38, 335-344	3.2	99
403	Platinum Concave Nanocubes with High-Index Facets and Their Enhanced Activity for Oxygen Reduction Reaction. <i>Angewandte Chemie</i> , 2011 , 123, 2825-2829	3.6	99
402	Chemical transformation: a powerful route to metal chalcogenide nanowires. <i>Journal of Materials Chemistry</i> , 2006 , 16, 3893		99
401	Polyol Synthesis of Platinum Nanostructures: Control of Morphology through the Manipulation of Reduction Kinetics. <i>Angewandte Chemie</i> , 2005 , 117, 2645-2648	3.6	99
400	Pushing nanocrystal synthesis toward nanomanufacturing. <i>ACS Nano</i> , 2009 , 3, 10-5	16.7	98
399	Surface-enhanced Raman scattering of 4-mercaptopyridine on thin films of nanoscale Pd cubes, boxes, and cages. <i>Chemical Physics Letters</i> , 2006 , 417, 230-234	2.5	98
398	Continuous and scalable production of well-controlled noble-metal nanocrystals in milliliter-sized droplet reactors. <i>Nano Letters</i> , 2014 , 14, 6626-31	11.5	97
397	Enhancing the stiffness of electrospun nanofiber scaffolds with a controlled surface coating and mineralization. <i>Langmuir</i> , 2011 , 27, 9088-93	4	97
396	Catalysis on faceted noble-metal nanocrystals: both shape and size matter. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 142-150	5.4	96
395	Shape-controlled synthesis of palladium nanocrystals: a mechanistic understanding of the evolution from octahedrons to tetrahedrons. <i>Nano Letters</i> , 2013 , 13, 2276-81	11.5	95
394	A sinter-resistant catalytic system fabricated by maneuvering the selectivity of SiO ₂ deposition onto the TiO ₂ surface versus the Pt nanoparticle surface. <i>Nano Letters</i> , 2013 , 13, 4957-62	11.5	94
393	Synthesis of Colloidal Metal Nanocrystals: A Comprehensive Review on the Reductants. <i>Chemistry - A European Journal</i> , 2018 , 24, 16944-16963	4.8	93
392	Nerve guidance conduits from aligned nanofibers: improvement of nerve regeneration through longitudinal nanogrooves on a fiber surface. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 7189-96	9.5	92

391	Facile synthesis of five-fold twinned, starfish-like rhodium nanocrystals by eliminating oxidative etching with a chloride-free precursor. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 5296-300	16.4	92
390	Direct Oxidation of Methanol on Pt Nanostructures Supported on Electrospun Nanofibers of Anatase. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 9970-9975	3.8	92
389	Quantitative Analysis of the Reduction Kinetics Responsible for the One-Pot Synthesis of Pd-Pt Bimetallic Nanocrystals with Different Structures. <i>Journal of the American Chemical Society</i> , 2016 , 138, 12263-70	16.4	92
388	A conducive bioceramic/polymer composite biomaterial for diabetic wound healing. <i>Acta Biomaterialia</i> , 2017 , 60, 128-143	10.8	91
387	Inverse Opal Scaffolds and Their Biomedical Applications. <i>Advanced Materials</i> , 2017 , 29, 1701115	24	91
386	A Comprehensive Study of Formic Acid Oxidation on Palladium Nanocrystals with Different Types of Facets and Twin Defects. <i>ChemCatChem</i> , 2015 , 7, 2077-2084	5.2	91
385	Shape-Controlled Synthesis of Colloidal Metal Nanocrystals by Replicating the Surface Atomic Structure on the Seed. <i>Advanced Materials</i> , 2018 , 30, e1706312	24	90
384	Neovascularization in biodegradable inverse opal scaffolds with uniform and precisely controlled pore sizes. <i>Advanced Healthcare Materials</i> , 2013 , 2, 145-54	10.1	89
383	New insights into the growth mechanism and surface structure of palladium nanocrystals. <i>Nano Research</i> , 2010 , 3, 180-188	10	88
382	Surface patterning and its application in wetting/dewetting studies. <i>Current Opinion in Colloid and Interface Science</i> , 2001 , 6, 54-64	7.6	88
381	Surface Capping Agents and Their Roles in Shape-Controlled Synthesis of Colloidal Metal Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15378-15401	16.4	88
380	Penta-Twinned Copper Nanorods: Facile Synthesis via Seed-Mediated Growth and Their Tunable Plasmonic Properties. <i>Advanced Functional Materials</i> , 2016 , 26, 1209-1216	15.6	88
379	Selective sulfuration at the corner sites of a silver nanocrystal and its use in stabilization of the shape. <i>Nano Letters</i> , 2011 , 11, 3010-5	11.5	86
378	Soft Lithographic Approach to the Fabrication of Highly Ordered 2D Arrays of Magnetic Nanoparticles on the Surfaces of Silicon Substrates. <i>Langmuir</i> , 2000 , 16, 10369-10375	4	86
377	Growth of Large Crystals of Monodispersed Spherical Colloids in Fluidic Cells Fabricated Using Non-photolithographic Methods. <i>Langmuir</i> , 2001 , 17, 6344-6350	4	86
376	Cu -Doped PdCu@Au Tripods: A Multifunctional Nanomaterial for Positron Emission Tomography and Image-Guided Photothermal Cancer Treatment. <i>ACS Nano</i> , 2016 , 10, 3121-31	16.7	85
375	Scaling up the production of colloidal nanocrystals: should we increase or decrease the reaction volume?. <i>Advanced Materials</i> , 2014 , 26, 2600-6	24	85
374	Preparation of uniform microspheres using a simple fluidic device and their crystallization into close-packed lattices. <i>Small</i> , 2009 , 5, 454-9	11	84

373	Controlled Etching as a Route to High Quality Silver Nanospheres for Optical Studies. <i>Journal of Physical Chemistry C</i> , 2009 , 113, 16975-16982	3.8	84
372	Morphological Evolution of Single-Crystal Ag Nanospheres during the Galvanic Replacement Reaction with H ₂ AuCl ₄ . <i>Journal of Physical Chemistry C</i> , 2008 , 112, 7872-7876	3.8	84
371	Synthesis and Characterization of Ru Cubic Nanocages with a Face-Centered Cubic Structure by Templating with Pd Nanocubes. <i>Nano Letters</i> , 2016 , 16, 5310-7	11.5	84
370	Facile synthesis of gold wavy nanowires and investigation of their growth mechanism. <i>Journal of the American Chemical Society</i> , 2012 , 134, 20234-7	16.4	83
369	Microcontact printing with a cylindrical rolling stamp: A practical step toward automatic manufacturing of patterns with submicrometer-sized features. <i>Advanced Materials</i> , 1996 , 8, 1015-1017	24	83
368	Polyol syntheses of palladium decahedra and icosahedra as pure samples by maneuvering the reaction kinetics with additives. <i>ACS Nano</i> , 2014 , 8, 7041-50	16.7	82
367	Shape-Controlled Metal Nanocrystals for Heterogeneous Catalysis. <i>Annual Review of Chemical and Biomolecular Engineering</i> , 2016 , 7, 327-48	8.9	82
366	Synthesis of Palladium Icosahedra with Twinned Structure by Blocking Oxidative Etching with Citric Acid or Citrate Ions. <i>Angewandte Chemie</i> , 2007 , 119, 804-808	3.6	81
365	Monodispersed spherical colloids of Se@CdSe: synthesis and use as building blocks in fabricating photonic crystals. <i>Nano Letters</i> , 2005 , 5, 937-42	11.5	81
364	Hierarchically micro-patterned nanofibrous scaffolds with a nanosized bio-glass surface for accelerating wound healing. <i>Nanoscale</i> , 2015 , 7, 18446-52	7.7	80
363	A mechanistic study on the formation of silver nanoplates in the presence of silver seeds and citric acid or citrate ions. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 376-9	4.5	80
362	Lithographic molding: A convenient route to structures with sub-micrometer dimensions**. <i>Advanced Materials</i> , 1995 , 7, 649-652	24	80
361	Synthesis of gold nano-hexapods with controllable arm lengths and their tunable optical properties. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6328-31	16.4	79
360	Production of Ag nanocubes on a scale of 0.1 g per batch by protecting the NaHS-mediated polyol synthesis with argon. <i>ACS Applied Materials & Interfaces</i> , 2009 , 1, 2044-8	9.5	79
359	Use of Electroless Silver as the Substrate in Microcontact Printing of Alkanethiols and Its Application in Microfabrication. <i>Langmuir</i> , 1998 , 14, 363-371	4	79
358	Labeling human mesenchymal stem cells with gold nanocages for in vitro and in vivo tracking by two-photon microscopy and photoacoustic microscopy. <i>Theranostics</i> , 2013 , 3, 532-43	12.1	78
357	Microscale polymer bottles corked with a phase-change material for temperature-controlled release. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 10468-71	16.4	77
356	Shape-controlled syntheses of rhodium nanocrystals for the enhancement of their catalytic properties. <i>Nano Research</i> , 2015 , 8, 82-96	10	77

- 355 Controlling the size and morphology of Au@Pd core-shell nanocrystals by manipulating the kinetics of seeded growth. *Chemistry - A European Journal*, **2012**, 18, 8150-6 4.8 77
- 354 Cubic to tetragonal phase transformation in cold-compressed Pd nanocubes. *Nano Letters*, **2008**, 8, 972-51.5 77
- 353 Coaxial electrospinning of microfibres with liquid crystal in the core. *Chemical Communications*, **2008**, 5420-2 5.8 77
- 352 Optical properties of Au-Ag nanoboxes studied by single nanoparticle spectroscopy. *Journal of Physical Chemistry B*, **2006**, 110, 19923-8 3.4 77
- 351 Gold nanocages as contrast agents for photoacoustic imaging. *Contrast Media and Molecular Imaging*, **2011**, 6, 370-7 3.2 76
- 350 Generation of electrospun nanofibers with controllable degrees of crimping through a simple, plasticizer-based treatment. *Advanced Materials*, **2015**, 27, 2583-8 24 75
- 349 Maßgeschneiderte Nanopartikel für den Wirkstofftransport in der Krebstherapie. *Angewandte Chemie*, **2014**, 126, 12520-12568 3.6 75
- 348 Symmetry breaking during seeded growth of nanocrystals. *Nano Letters*, **2012**, 12, 6038-42 11.5 75
- 347 Electrospinning of polycrystalline barium titanate nanofibers with controllable morphology and alignment. *Chemical Physics Letters*, **2006**, 424, 162-166 2.5 75
- 346 Facile Synthesis of Ag Nanorods with No Plasmon Resonance Peak in the Visible Region by Using Pd Decahedra of 16 nm in Size as Seeds. *ACS Nano*, **2015**, 9, 10523-32 16.7 74
- 345 Colloidal hollow spheres of conducting polymers with smooth surface and uniform, controllable sizes. *Small*, **2009**, 5, 1747-52 11 74
- 344 Facile synthesis of ultrathin Au nanorods by aging the AuCl(oleylamine) complex with amorphous Fe nanoparticles in chloroform. *Nano Letters*, **2008**, 8, 3052-5 11.5 74
- 343 Toward the Synthesis of Sub-15 nm Ag Nanocubes with Sharp Corners and Edges: The Roles of Heterogeneous Nucleation and Surface Capping. *Journal of the American Chemical Society*, **2016**, 138, 3161-7 16.4 73
- 342 Microscale fish bowls: a new class of latex particles with hollow interiors and engineered porous structures in their surfaces. *Langmuir*, **2007**, 23, 10968-75 4 73
- 341 A Water-Based Synthesis of Octahedral, Decahedral, and Icosahedral Pd Nanocrystals. *Angewandte Chemie*, **2007**, 119, 9439-9442 3.6 72
- 340 Facile synthesis of branched Au nanostructures by templating against a self-destructive lattice of magnetic Fe nanoparticles. *Angewandte Chemie - International Edition*, **2008**, 47, 9653-6 16.4 72
- 339 Surfactant-directed assembly of [corrected] Pt nanoparticles into colloidal spheres and their use [corrected] as substrates in forming Pt nanorods and nanowires. *Small*, **2006**, 2, 1340-3 11 72
- 338 Symmetry breaking during nanocrystal growth. *Chemical Communications*, **2017**, 53, 4530-4541 5.8 71

337	Ru Octahedral Nanocrystals with a Face-Centered Cubic Structure, {111} Facets, Thermal Stability up to 400 °C, and Enhanced Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2019 , 141, 7028-7036	16.4	71
336	Phase-Change Materials for Controlled Release and Related Applications. <i>Advanced Materials</i> , 2020 , 32, e2000660	24	70
335	Functionalization of electrospun ceramic nanofibre membranes with noble-metal nanostructures for catalytic applications. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3878		70
334	Nanometer scale patterning and pattern transfer on amorphous Si, crystalline Si, and SiO ₂ surfaces using self-assembled monolayers. <i>Applied Physics Letters</i> , 1997 , 70, 1593-1595	3.4	70
333	Synthesis of Pt-Ni Octahedra in Continuous-Flow Droplet Reactors for the Scalable Production of Highly Active Catalysts toward Oxygen Reduction. <i>Nano Letters</i> , 2016 , 16, 3850-7	11.5	70
332	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 10606-10611	16.4	69
331	Surface Plasmon Resonance in Bimetallic Core-Shell Nanoparticles. <i>Journal of Physical Chemistry C</i> , 2015 , 119, 16836-16845	3.8	69
330	Three-dimensional polycaprolactone scaffold via needleless electrospinning promotes cell proliferation and infiltration. <i>Colloids and Surfaces B: Biointerfaces</i> , 2014 , 121, 432-43	6	69
329	In vitro mineralization by preosteoblasts in poly(DL-lactide-co-glycolide) inverse opal scaffolds reinforced with hydroxyapatite nanoparticles. <i>Langmuir</i> , 2010 , 26, 12126-31	4	68
328	Etching and growth: an intertwined pathway to silver nanocrystals with exotic shapes. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 4824-7	16.4	68
327	Controlling the size and composition of nanosized Pt-Ni octahedra to optimize their catalytic activities toward the oxygen reduction reaction. <i>ChemSusChem</i> , 2014 , 7, 1476-83	8.3	67
326	Correlated Rayleigh Scattering Spectroscopy and Scanning Electron Microscopy Studies of Au-Ag Bimetallic Nanoboxes and Nanocages. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 12558-12565	3.8	67
325	Droplet-based microreactors for continuous production of palladium nanocrystals with controlled sizes and shapes. <i>Small</i> , 2013 , 9, 3462-7	11	65
324	Icosahedral nanocrystals of noble metals: Synthesis and applications. <i>Nano Today</i> , 2017 , 15, 121-144	17.9	65
323	Replacement of Poly(vinyl pyrrolidone) by Thiols: A Systematic Study of Ag Nanocube Functionalization by Surface-Enhanced Raman Scattering. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 21852-21857	3.8	64
322	Carbon nanotubes by electrospinning with a polyelectrolyte and vapor deposition polymerization. <i>Nano Letters</i> , 2007 , 7, 2470-4	11.5	64
321	Metall-Nanokristalle mit hochverzweigten Morphologien. <i>Angewandte Chemie</i> , 2011 , 123, 78-87	3.6	63
320	Seed-mediated synthesis of truncated gold decahedrons with a AuCl/oleylamine complex as precursor. <i>Advanced Materials</i> , 2010 , 22, 1930-4	24	63

319	Reduction in the size of features of patterned SAMs generated by microcontact printing with mechanical compression of the stamp. <i>Advanced Materials</i> , 1995 , 7, 471-473	24	63
318	Toward a Quantitative Understanding of the Reduction Pathways of a Salt Precursor in the Synthesis of Metal Nanocrystals. <i>Nano Letters</i> , 2017 , 17, 334-340	11.5	62
317	An anisotropically and heterogeneously aligned patterned electrospun scaffold with tailored mechanical property and improved bioactivity for vascular tissue engineering. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 8706-18	9.5	62
316	Cell alignment induced by anisotropic electrospun fibrous scaffolds alone has limited effect on cardiomyocyte maturation. <i>Stem Cell Research</i> , 2016 , 16, 740-50	1.6	62
315	Photochemical Deposition of Highly Dispersed Pt Nanoparticles on Porous CeO ₂ Nanofibers for the Water-Gas Shift Reaction. <i>Advanced Functional Materials</i> , 2015 , 25, 4153-4162	15.6	62
314	Robust synthesis of gold cubic nanoframes through a combination of galvanic replacement, gold deposition, and silver dealloying. <i>Small</i> , 2013 , 9, 3111-7	11	62
313	Enhancing the Mechanical Properties of Electrospun Nanofiber Mats through Controllable Welding at the Cross Points. <i>Macromolecular Rapid Communications</i> , 2017 , 38, 1600723	4.8	61
312	Using SV119-gold nanocage conjugates to eradicate cancer stem cells through a combination of photothermal and chemo therapies. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1283-91	10.1	61
311	Synthesis of Ag nanobars in the presence of single-crystal seeds and a bromide compound, and their surface-enhanced Raman scattering (SERS) properties. <i>Langmuir</i> , 2012 , 28, 9047-54	4	61
310	Time-resolved spectroscopy of silver nanocubes: observation and assignment of coherently excited vibrational modes. <i>Journal of Chemical Physics</i> , 2007 , 126, 094709	3.9	61
309	In Vivo Evaluation of Adipose-Derived Stromal Cells Delivered with a Nanofiber Scaffold for Tendon-to-Bone Repair. <i>Tissue Engineering - Part A</i> , 2015 , 21, 2766-74	3.9	60
308	Design and Fabrication of a Hierarchically Structured Scaffold for Tendon-to-Bone Repair. <i>Advanced Materials</i> , 2018 , 30, e1707306	24	60
307	Decahedral nanocrystals of noble metals: Synthesis, characterization, and applications. <i>Materials Today</i> , 2019 , 22, 108-131	21.8	60
306	Confining the nucleation and overgrowth of Rh to the {111} facets of Pd nanocrystal seeds: the roles of capping agent and surface diffusion. <i>Journal of the American Chemical Society</i> , 2013 , 135, 16658-674	16.4	60
305	Measuring the surface-enhanced Raman scattering enhancement factors of hot spots formed between an individual Ag nanowire and a single Ag nanocube. <i>Nanotechnology</i> , 2009 , 20, 434020	3.4	60
304	Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 7244-7248	16.4	59
303	Plasmonic near-electric field enhancement effects in ultrafast photoelectron emission: correlated spatial and laser polarization microscopy studies of individual Ag nanocubes. <i>Nano Letters</i> , 2012 , 12, 4823-9	11.5	59
302	Epitaxial overgrowth of platinum on palladium nanocrystals. <i>Nanoscale</i> , 2010 , 2, 2406-11	7.7	59

301	An enzyme-sensitive probe for photoacoustic imaging and fluorescence detection of protease activity. <i>Nanoscale</i> , 2011 , 3, 950-3	7.7	59
300	Crystal-phase and surface-structure engineering of ruthenium nanocrystals. <i>Nature Reviews Materials</i> , 2020 , 5, 440-459	73.3	58
299	Synthesis of gold microplates using bovine serum albumin as a reductant and a stabilizer. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 123-9	4.5	58
298	Corrosion-Based Synthesis of Single-Crystal Pd Nanoboxes and Nanocages and Their Surface Plasmon Properties. <i>Angewandte Chemie</i> , 2005 , 117, 8127-8131	3.6	58
297	Toward Cost-Effective and Sustainable Use of Precious Metals in Heterogeneous Catalysts. <i>Accounts of Chemical Research</i> , 2017 , 50, 450-454	24.3	57
296	Integration of Phase-Change Materials with Electrospun Fibers for Promoting Neurite Outgrowth under Controlled Release. <i>Advanced Functional Materials</i> , 2018 , 28, 1705563	15.6	57
295	Synthesis of rhodium concave tetrahedrons by collectively manipulating the reduction kinetics, facet-selective capping, and surface diffusion. <i>Nano Letters</i> , 2013 , 13, 6262-8	11.5	57
294	Synthesis and characterization of magnetic Co nanoparticles: A comparison study of three different capping surfactants. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1530-1538	3.3	57
293	Putting gold nanocages to work for optical imaging, controlled release and cancer theranostics. <i>Nanomedicine</i> , 2016 , 11, 1715-28	5.6	57
292	Combination cancer treatment through photothermally controlled release of selenous acid from gold nanocages. <i>Biomaterials</i> , 2018 , 178, 517-526	15.6	56
291	Seed-mediated synthesis of single-crystal gold nanospheres with controlled diameters in the range 5-30 nm and their self-assembly upon dilution. <i>Chemistry - an Asian Journal</i> , 2013 , 8, 792-9	4.5	56
290	Reduction rate as a quantitative knob for achieving deterministic synthesis of colloidal metal nanocrystals. <i>Chemical Science</i> , 2017 , 8, 6730-6749	9.4	56
289	Thiol-induced assembly of Au nanoparticles into chainlike structures and their fixing by encapsulation in silica shells or gelatin microspheres. <i>Langmuir</i> , 2010 , 26, 10005-12	4	56
288	Keimvermitteltes Wachstum kolloidaler Metallnanokristalle. <i>Angewandte Chemie</i> , 2017 , 129, 60-98	3.6	55
287	Pt-Ir-Pd Trimetallic Nanocages as a Dual Catalyst for Efficient Oxygen Reduction and Evolution Reactions in Acidic Media. <i>Advanced Energy Materials</i> , 2020 , 10, 1904114	21.8	55
286	Synthesis and characterization of Pd@M(x)Cu(1-x) (M = Au, Pd, and Pt) nanocages with porous walls and a yolk-shell structure through galvanic replacement reactions. <i>Chemistry - A European Journal</i> , 2012 , 18, 14974-80	4.8	55
285	Synthesis of colloidal metal nanocrystals in droplet reactors: the pros and cons of interfacial adsorption. <i>Nano Letters</i> , 2014 , 14, 4189-94	11.5	54
284	Controlled synthesis of nanosized palladium icosahedra and their catalytic activity towards formic-acid oxidation. <i>ChemSusChem</i> , 2013 , 6, 1923-30	8.3	54

283	Facile synthesis of gold nanorice enclosed by high-index facets and its application for CO oxidation. <i>Small</i> , 2011 , 7, 2307-12	11	54
282	Hollow Metal Nanocrystals with Ultrathin, Porous Walls and Well-Controlled Surface Structures. <i>Advanced Materials</i> , 2018 , 30, e1801956	24	53
281	Single Crystalline Nanowires of Lead Can Be Synthesized through Thermal Decomposition of Lead Acetate in Ethylene Glycol. <i>Nano Letters</i> , 2003 , 3, 1163-1166	11.5	53
280	Differentiation of Bone Marrow Stem Cells into Schwann Cells for the Promotion of Neurite Outgrowth on Electrospun Fibers. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 12299-12310	9.5	52
279	Inverse opal scaffolds for applications in regenerative medicine. <i>Soft Matter</i> , 2013 , 9, 9747	3.6	51
278	Electrospinning of nanofibres with parallel line surface texture for improvement of nerve cell growth. <i>Soft Matter</i> , 2011 , 7, 10812	3.6	51
277	Nanofabrication at high throughput and low cost. <i>ACS Nano</i> , 2010 , 4, 3554-9	16.7	51
276	Report from the third workshop on future directions of solid-state chemistry: The status of solid-state chemistry and its impact in the physical sciences. <i>Progress in Solid State Chemistry</i> , 2008 , 36, 1-133	8	51
275	One-Pot Synthesis of Penta-twinned Palladium Nanowires and Their Enhanced Electrocatalytic Properties. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 31203-31212	9.5	50
274	Single Crystalline Nanowires of Lead: Large-Scale Synthesis, Mechanistic Studies, and Transport Measurements. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 8631-8640	3.4	50
273	Autocatalytic surface reduction and its role in controlling seed-mediated growth of colloidal metal nanocrystals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 13619-13624	11.5	49
272	A simple spectroscopic method for differentiating cellular uptakes of gold nanospheres and nanorods from their mixtures. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 1976-80	16.4	49
271	Fabrication of single-mode polymeric waveguides using micromolding in capillaries. <i>Advanced Materials</i> , 1996 , 8, 420-424	24	49
270	Hybrid nanomaterials. Not just a pretty flower. <i>Nature Nanotechnology</i> , 2012 , 7, 415-6	28.7	48
269	Vibrational response of Au-Ag nanoboxes and nanocages to ultrafast laser-induced heating. <i>Nano Letters</i> , 2007 , 7, 1059-63	11.5	48
268	Facile synthesis of gold icosahedra in an aqueous solution by reacting H ₂ AuCl ₄ with N-vinyl pyrrolidone. <i>Chemistry - A European Journal</i> , 2009 , 15, 13181-7	4.8	47
267	AuI: an alternative and potentially better precursor than AuIII for the synthesis of Au nanostructures. <i>Journal of Materials Chemistry</i> , 2010 , 20, 2290		46
266	Synthesis of small silver nanocubes in a hydrophobic solvent by introducing oxidative etching with Fe(III) species. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3586		46

265	Metal-polymer hybrid colloidal particles with an eccentric structure. <i>Langmuir</i> , 2009 , 25, 13880-7	4	46
264	Edge-spreading lithography: use of patterned photoresist structures to direct the spreading of alkanethiols on gold. <i>Nano Letters</i> , 2005 , 5, 31-6	11.5	46
263	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C Products in CO Reduction. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 1909-1915	16.4	46
262	The Science and Art of Carving Metal Nanocrystals. <i>ACS Nano</i> , 2017 , 11, 23-27	16.7	45
261	Facile Synthesis of Ru-Based Octahedral Nanocages with Ultrathin Walls in a Face-Centered Cubic Structure. <i>Chemistry of Materials</i> , 2017 , 29, 9227-9237	9.6	45
260	Rational design and synthesis of noble-metal nanoframes for catalytic and photonic applications. <i>National Science Review</i> , 2016 , 3, 520-533	10.8	45
259	Gold nanocages as multifunctional materials for nanomedicine. <i>Frontiers of Physics</i> , 2014 , 9, 378-384	3.7	45
258	Strong and tough mineralized PLGA nanofibers for tendon-to-bone scaffolds. <i>Acta Biomaterialia</i> , 2013 , 9, 9442-50	10.8	45
257	Synthesis of Ru Icosahedral Nanocages with a Face-Centered-Cubic Structure and Evaluation of Their Catalytic Properties. <i>ACS Catalysis</i> , 2018 , 8, 6948-6960	13.1	45
256	Toward a quantitative understanding of symmetry reduction involved in the seed-mediated growth of Pd nanocrystals. <i>Journal of the American Chemical Society</i> , 2015 , 137, 6643-52	16.4	44
255	Seed-mediated synthesis of silver nanocrystals with controlled sizes and shapes in droplet microreactors separated by air. <i>Langmuir</i> , 2013 , 29, 15719-25	4	44
254	Edelmetall-Nanokristalle mit konkaven Oberflächen: Synthese und Anwendungen. <i>Angewandte Chemie</i> , 2012 , 124, 7774-7792	3.6	44
253	Amorphous Se: a new platform for synthesizing superparamagnetic colloids with controllable surfaces. <i>Journal of the American Chemical Society</i> , 2005 , 127, 1098-9	16.4	44
252	Synthesis of Pt nanocrystals with different shapes using the same protocol to optimize their catalytic activity toward oxygen reduction. <i>Materials Today</i> , 2018 , 21, 834-844	21.8	44
251	SV119-gold nanocage conjugates: a new platform for targeting cancer cells via sigma-2 receptors. <i>Nanoscale</i> , 2012 , 4, 421-4	7.7	43
250	Understanding the Thermal Stability of Palladium-Platinum Core-Shell Nanocrystals by In Situ Transmission Electron Microscopy and Density Functional Theory. <i>ACS Nano</i> , 2017 , 11, 4571-4581	16.7	42
249	Silver Nanocrystals with Concave Surfaces and Their Optical and Surface-Enhanced Raman Scattering Properties. <i>Angewandte Chemie</i> , 2011 , 123, 12750-12754	3.6	42
248	Synthesis of CaO Nanocrystals and Their Spherical Aggregates with Uniform Sizes for Use as a Biodegradable Bacteriostatic Agent. <i>Small</i> , 2019 , 15, e1902118	11	41

247	Nanomedicine: swarming towards the target. <i>Nature Materials</i> , 2011 , 10, 482-3	27	41
246	Nerve conduits constructed by electrospun P(LLA-CL) nanofibers and PLLA nanofiber yarns. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 8823-8831	7.3	40
245	Platinum Cubic Nanoframes with Enhanced Catalytic Activity and Durability Toward Oxygen Reduction. <i>ChemSusChem</i> , 2016 , 9, 2855-2861	8.3	40
244	Gold Nanoparticles Doped with (199) Au Atoms and Their Use for Targeted Cancer Imaging by SPECT. <i>Advanced Healthcare Materials</i> , 2016 , 5, 928-35	10.1	40
243	Facile synthesis of Pd-Ir bimetallic octapods and nanocages through galvanic replacement and co-reduction, and their use for hydrazine decomposition. <i>Physical Chemistry Chemical Physics</i> , 2013 , 15, 11822-9	3.6	40
242	Synthesis, Stability, and Surface Plasmonic Properties of Rhodium Multipods, and Their Use as Substrates for Surface-Enhanced Raman Scattering. <i>Angewandte Chemie</i> , 2006 , 118, 1310-1314	3.6	40
241	Photolithography with transparent reflective photomasks. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1998 , 16, 98		40
240	Thermal Stability of Metal Nanocrystals: An Investigation of the Surface and Bulk Reconstructions of Pd Concave Icosahedra. <i>Nano Letters</i> , 2017 , 17, 3655-3661	11.5	39
239	Trimeric Clusters of Silver in Aqueous AgNO ₃ Solutions and Their Role as Nuclei in Forming Triangular Nanoplates of Silver. <i>Angewandte Chemie</i> , 2007 , 119, 5005-5009	3.6	39
238	A Droplet-Reactor System Capable of Automation for the Continuous and Scalable Production of Noble-Metal Nanocrystals. <i>Nano Letters</i> , 2018 , 18, 3879-3884	11.5	38
237	Facile Synthesis and Characterization of nL (n = 14) Core-Shell Nanocubes for Highly Efficient Oxygen Evolution in Acidic Media. <i>Chemistry of Materials</i> , 2019 , 31, 5867-5875	9.6	38
236	Fine tuning the optical properties of Au-Ag nanocages by selectively etching Ag with oxygen and a water-soluble thiol. <i>Journal of Materials Chemistry</i> , 2009 , 19, 6317-6320		38
235	Fabrication of Density Gradients of Biodegradable Polymer Microparticles and Their Use in Guiding Neurite Outgrowth. <i>Advanced Functional Materials</i> , 2010 , 20, 1632-1637	15.6	38
234	Colloidal building blocks with potential for magnetically configurable photonic crystals. <i>Soft Matter</i> , 2007 , 3, 1215-1222	3.6	38
233	Facile synthesis of Ag@Au core-sheath nanowires with greatly improved stability against oxidation. <i>Chemical Communications</i> , 2017 , 53, 1965-1968	5.8	36
232	Catalytic System Based on Sub-2 nm Pt Particles and Its Extraordinary Activity and Durability for Oxygen Reduction. <i>Nano Letters</i> , 2019 , 19, 4997-5002	11.5	36
231	Three-Dimensional Objects Consisting of Hierarchically Assembled Nanofibers with Controlled Alignments for Regenerative Medicine. <i>Nano Letters</i> , 2019 , 19, 2059-2065	11.5	36
230	Facile Strategy for Fabrication of Flexible, Breathable, and Washable Piezoelectric Sensors via Welding of Nanofibers with Multiwalled Carbon Nanotubes (MWCNTs). <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 38023-38030	9.5	35

229	Incorporation of gold nanocages into electrospun nanofibers for efficient water evaporation through photothermal heating. <i>Materials Today Energy</i> , 2019 , 12, 129-135	7	35
228	Hierarchical nanostructures of K-birnessite nanoplates on anatase nanofibers and their application for decoloration of dye solution. <i>Journal of Materials Chemistry</i> , 2010 , 20, 3157		35
227	Functionalization of ZrO ₂ nanofibers with Pt nanostructures: The effect of surface roughness on nucleation mechanism and morphology control. <i>Chemical Physics Letters</i> , 2009 , 476, 56-61	2.5	35
226	A Temperature-Sensitive Drug Release System Based on Phase-Change Materials. <i>Angewandte Chemie</i> , 2010 , 122, 8076-8080	3.6	35
225	Enabling Complete Ligand Exchange on the Surface of Gold Nanocrystals through the Deposition and Then Etching of Silver. <i>Journal of the American Chemical Society</i> , 2018 , 140, 11898-11901	16.4	35
224	General Approach to the Synthesis of Heterodimers of Metal Nanoparticles through Site-Selected Protection and Growth. <i>Nano Letters</i> , 2019 , 19, 6703-6708	11.5	32
223	Maneuvering the Migration and Differentiation of Stem Cells with Electrospun Nanofibers. <i>Advanced Science</i> , 2020 , 7, 2000735	13.6	32
222	Aqueous-phase synthesis of single-crystal Pd seeds 3 nm in diameter and their use for the growth of Pd nanocrystals with different shapes. <i>Chemistry - A European Journal</i> , 2013 , 19, 5127-33	4.8	32
221	Nanokristalle mit ungewöhnlichen Formen – eine vielversprechende Katalysatorklasse. <i>Angewandte Chemie</i> , 2007 , 119, 7291-7293	3.6	32
220	Perspective: Aligned arrays of electrospun nanofibers for directing cell migration. <i>APL Materials</i> , 2018 , 6,	5.7	32
219	General Method for Generating Circular Gradients of Active Proteins on Nanofiber Scaffolds Sought for Wound Closure and Related Applications. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 8536-8545	9.5	31
218	Coating Pt-Ni Octahedra with Ultrathin Pt Shells to Enhance the Durability without Compromising the Activity toward Oxygen Reduction. <i>ChemSusChem</i> , 2016 , 9, 2209-15	8.3	31
217	Synthesis of Pd-Rh Core-Shell Concave Nanocubes and Their Conversion to Rh Cubic Nanoframes by Selective Etching of the Pd Cores. <i>Angewandte Chemie</i> , 2012 , 124, 10412-10416	3.6	31
216	Nanofiber membranes with controllable microwells and structural cues and their use in forming cell microarrays and neuronal networks. <i>Small</i> , 2011 , 7, 293-7	11	31
215	On-chip screening of experimental conditions for the synthesis of noble-metal nanostructures with different morphologies. <i>Small</i> , 2011 , 7, 3308-16	11	31
214	Ruthenium Nanoframes in the Face-Centered Cubic Phase: Facile Synthesis and Their Enhanced Catalytic Performance. <i>ACS Nano</i> , 2019 , 13, 7241-7251	16.7	30
213	A Facile and General Method for the Encapsulation of Different Types of Imaging Contrast Agents Within Micrometer-Sized Polymer Beads. <i>Advanced Functional Materials</i> , 2012 , 22, 764-770	15.6	30
212	Shape-controlled metal nanocrystals for catalytic applications. <i>MRS Bulletin</i> , 2014 , 39, 727-737	3.2	30

211	A Plasmon-Assisted Optofluidic (PAOF) System for Measuring the Photothermal Conversion Efficiencies of Gold Nanostructures and Controlling an Electrical Switch. <i>Angewandte Chemie</i> , 2013 , 125, 4263-4267	3.6	30
210	Direct in Situ Observation and Analysis of the Formation of Palladium Nanocrystals with High-Index Facets. <i>Nano Letters</i> , 2018 , 18, 7004-7013	11.5	30
209	Facile One-Pot Synthesis of Pd@Pt ₁ L Octahedra with Enhanced Activity and Durability toward Oxygen Reduction. <i>Chemistry of Materials</i> , 2019 , 31, 1370-1380	9.6	29
208	Non-invasive and in situ characterization of the degradation of biomaterial scaffolds by volumetric photoacoustic microscopy. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 184-8	16.4	29
207	Quick formation of single-crystal nanocubes of silver through dual functions of hydrogen gas in polyol synthesis. <i>Chemical Physics Letters</i> , 2005 , 411, 479-483	2.5	29
206	Seed-Mediated Growth of Au Nanospheres into Hexagonal Stars and the Emergence of a Hexagonal Close-Packed Phase. <i>Nano Letters</i> , 2019 , 19, 3115-3121	11.5	28
205	Formation of Embryoid Bodies with Controlled Sizes and Maintained Pluripotency in Three-Dimensional Inverse Opal Scaffolds. <i>Advanced Functional Materials</i> , 2012 , 22, 121-129	15.6	28
204	Enhanced shape stability of Pd-Rh core-frame nanocubes at elevated temperature: in situ heating transmission electron microscopy. <i>Chemical Communications</i> , 2013 , 49, 11806-8	5.8	28
203	Successive Deposition of Silver on Silver Nanoplates: Lateral versus Vertical Growth. <i>Angewandte Chemie</i> , 2011 , 123, 258-263	3.6	28
202	Seed-mediated synthesis of gold octahedra in high purity and with well-controlled sizes and optical properties. <i>Chemistry - A European Journal</i> , 2011 , 17, 4759-64	4.8	28
201	Shaping a bright future for platinum-based alloy electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2010 , 49, 9819-20	16.4	28
200	Elastomeric light valves. <i>Advanced Materials</i> , 1997 , 9, 407-410	24	28
199	Formation of patterned microstructures of polycrystalline ceramics from precursor polymers using micromolding in capillaries. <i>Journal of Materials Research</i> , 1999 , 14, 3995-4003	2.5	28
198	Formation of Second-Generation Nanoclusters on Metal Nanoparticles Driven by Reactant Gases. <i>Nano Letters</i> , 2016 , 16, 5001-9	11.5	27
197	Biomimetics: reconstitution of low-density lipoprotein for targeted drug delivery and related theranostic applications. <i>Chemical Society Reviews</i> , 2017 , 46, 7668-7682	58.5	27
196	Reconstitution of Low-Density Lipoproteins with Fatty Acids for the Targeted Delivery of Drugs into Cancer Cells. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 10399-10402	16.4	27
195	Seed-mediated synthesis of PdRh bimetallic nanodendrites. <i>Chemical Physics Letters</i> , 2010 , 494, 249-254	2.5	27
194	Pt-Co@Pt Octahedral Nanocrystals: Enhancing Their Activity and Durability toward Oxygen Reduction with an Intermetallic Core and an Ultrathin Shell. <i>Journal of the American Chemical Society</i> , 2021 , 143, 8509-8518	16.4	27

193	Synthesis, Transformation, and Utilization of Monodispersed Colloidal Spheres. <i>Accounts of Chemical Research</i> , 2019 , 52, 3475-3487	24.3	26
192	Near-Infrared-Triggered Release of Ca Ions for Potential Application in Combination Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801113	10.1	26
191	Five-Fold Twinned Pd Nanorods and Their Use as Templates for the Synthesis of Bimetallic or Hollow Nanostructures. <i>ChemNanoMat</i> , 2015 , 1, 246-252	3.5	25
190	A Mechanistic Study on the Nucleation and Growth of Au on Pd Seeds with a Cubic or Octahedral Shape. <i>ChemCatChem</i> , 2012 , 4, 1668-1674	5.2	25
189	Facile synthesis of bimetallic Ag/Ni core/sheath nanowires and their magnetic and electrical properties. <i>Small</i> , 2010 , 6, 1927-34	11	25
188	Galvanic replacement reaction: A simple and powerful route to hollow and porous metal nanostructures. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2007 , 221, 1-16		25
187	Capturing electrified nanodroplets under Rayleigh instability by coupling electrospray with a sol-gel reaction. <i>Chemical Physics Letters</i> , 2007 , 445, 271-275	2.5	25
186	Shadowed sputtering of gold on V-shaped microtrenches etched in silicon and applications in microfabrication. <i>Advanced Materials</i> , 1996 , 8, 765-768	24	25
185	Aberration Corrected Electron Microscopy Study of Bimetallic PdPt Nanocrystal: CoreShell Cubic and CoreFrame Concave Structures. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 28876-28882	3.8	24
184	Isolating and Probing the Hot Spot Formed between Two Silver Nanocubes. <i>Angewandte Chemie</i> , 2009 , 121, 2214-2218	3.6	24
183	Silane-based poly(ethylene glycol) as a primer for surface modification of nonhydrolytically synthesized nanoparticles using the Stober method. <i>Langmuir</i> , 2008 , 24, 11189-95	4	24
182	Kinetically Controlled Synthesis of Pd-Cu Janus Nanocrystals with Enriched Surface Structures and Enhanced Catalytic Activities toward CO Reduction. <i>Journal of the American Chemical Society</i> , 2021 , 143, 149-162	16.4	24
181	Seed-Mediated Synthesis of Pd Nanocrystals: The Effect of Surface Capping on the Heterogeneous Nucleation and Growth. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 11754-11761	3.8	24
180	Inverse Opal Scaffolds with Gradations in Mineral Content for Spatial Control of Osteogenesis. <i>Advanced Materials</i> , 2018 , 30, e1706706	24	24
179	Promoting the Outgrowth of Neurites on Electrospun Microfibers by Functionalization with Electrospayed Microparticles of Fatty Acids. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 3948-3951	16.4	23
178	A Liposomal System Capable of Generating CO ₂ Bubbles to Induce Transient Cavitation, Lysosomal Rupturing, and Cell Necrosis. <i>Angewandte Chemie</i> , 2012 , 124, 10236-10240	3.6	23
177	A Sinter-Resistant Catalytic System Based on Platinum Nanoparticles Supported on TiO ₂ Nanofibers and Covered by Porous Silica. <i>Angewandte Chemie</i> , 2010 , 122, 8341-8344	3.6	23
176	Size Dependence of Cubic to Trigonal Structural Distortion in Silver Micro- and Nanocrystals under High Pressure. <i>Journal of Physical Chemistry C</i> , 2008 , 112, 20135-20137	3.8	23

175	Comparative study of monolayers self-assembled from alkylisocyanides and alkanethiols on polycrystalline Pt substrates. <i>Langmuir</i> , 2004 , 20, 6993-7	4	22
174	Photonic Crystals with Thermally Switchable Stop Bands Fabricated from Se@Ag ₂ Se Spherical Colloids. <i>Angewandte Chemie</i> , 2005 , 117, 3159-3163	3.6	22
173	Controlling the Growth of Au on Icosahedral Seeds of Pd by Manipulating the Reduction Kinetics. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 20768-20774	3.8	22
172	Facile Synthesis of Rhodium Icosahedra with Controlled Sizes up to 12 nm. <i>ChemNanoMat</i> , 2016 , 2, 61-66	3.5	22
171	Photothermal Welding, Melting, and Patterned Expansion of Nonwoven Mats of Polymer Nanofibers for Biomedical and Printing Applications. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16416-16421	16.4	21
170	Novel nanostructures of rutile fabricated by templating against yarns of polystyrene nanofibrils and their catalytic applications. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 6391-9	9.5	21
169	Controlling the Nucleation and Growth of Silver on Palladium Nanocubes by Manipulating the Reaction Kinetics. <i>Angewandte Chemie</i> , 2012 , 124, 2404-2408	3.6	21
168	Shape-Controlled Synthesis of Copper Nanocrystals in an Aqueous Solution with Glucose as a Reducing Agent and Hexadecylamine as a Capping Agent. <i>Angewandte Chemie</i> , 2011 , 123, 10748-10752	3.6	21
167	A Rationally Designed Route to the One-Pot Synthesis of Right Bipyramidal Nanocrystals of Copper. <i>Chemistry of Materials</i> , 2018 , 30, 6469-6477	9.6	21
166	Oxidative Etching of Pd Decahedral Nanocrystals with a Penta-twinned Structure and Its Impact on Their Growth Behavior. <i>Chemistry of Materials</i> , 2017 , 29, 5394-5400	9.6	20
165	Photothermal transformation of Au-Ag nanocages under pulsed laser irradiation. <i>Nanoscale</i> , 2019 , 11, 3013-3020	7.7	20
164	Electrospun Fiber Mesh for High-Resolution Measurements of Oxygen Tension in Cranial Bone Defect Repair. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 33548-33558	9.5	20
163	Generation of controllable gradients in cell density. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 429-32	16.4	20
162	Facet-controlled Pt ₁₁ nanocrystals with substantially enhanced activity and durability towards oxygen reduction. <i>Materials Today</i> , 2020 , 35, 69-77	21.8	20
161	Pentatwinned Cu Nanowires with Ultrathin Diameters below 20 nm and Their Use as Templates for the Synthesis of Au-Based Nanotubes. <i>ChemNanoMat</i> , 2017 , 3, 190-195	3.5	19
160	Engraving the Surface of Electrospun Microfibers with Nanoscale Grooves Promotes the Outgrowth of Neurites and the Migration of Schwann Cells. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 15626-15632	16.4	19
159	Moving Electrospun Nanofibers and Bioprinted Scaffolds toward Translational Applications. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901761	10.1	19
158	Site-selective growth of Ag nanocubes for sharpening their corners and edges, followed by elongation into nanobars through symmetry reduction. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 1384-1392	7.1	19

157	Mixing an aqueous suspension of Pd or Au nanocrystals with a less polar solvent can cause changes to size, morphology, or both. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 6052-5	16.4	19
156	Promoting Cell Migration and Neurite Extension along Uniaxially Aligned Nanofibers with Biomacromolecular Particles in a Density Gradient. <i>Advanced Functional Materials</i> , 2020 , 30, 2002031	15.6	19
155	A Hybrid Nanomaterial for the Controlled Generation of Free Radicals and Oxidative Destruction of Hypoxic Cancer Cells. <i>Angewandte Chemie</i> , 2017 , 129, 8927-8930	3.6	18
154	Electrospun Nanofiber-Based Patches for the Delivery of Cardiac Progenitor Cells. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18242-18253	9.5	18
153	Poly(butylene terephthalate) electrospun/melt-blown composite mats for white blood cell filtration. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 3652-3659	2.9	18
152	Etching and Dimerization: A Simple and Versatile Route to Dimers of Silver Nanospheres with a Range of Sizes. <i>Angewandte Chemie</i> , 2010 , 122, 168-172	3.6	18
151	Growth and patterning of pt nanowires on silicon substrates. <i>Nano Research</i> , 2008 , 1, 129-137	10	18
150	Continuous processing of phase-change materials into uniform nanoparticles for near-infrared-triggered drug release. <i>Nanoscale</i> , 2018 , 10, 22312-22318	7.7	18
149	Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 13828-13832	16.4	17
148	Scalable Synthesis of Palladium Icosahedra in Plug Reactors for the Production of Oxygen Reduction Reaction Catalysts. <i>ChemCatChem</i> , 2016 , 8, 1658-1664	5.2	17
147	Surgical Sutures with Porous Sheaths for the Sustained Release of Growth Factors. <i>Advanced Materials</i> , 2016 , 28, 4620-4	24	17
146	A General Strategy for Generating Gradients of Bioactive Proteins on Electrospun Nanofiber Mats by Masking with Bovine Serum Albumin. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5580-5587	7.3	17
145	Facile synthesis of double-shelled polypyrrole hollow particles with a structure similar to that of a thermal bottle. <i>Macromolecular Rapid Communications</i> , 2010 , 31, 1863-8	4.8	17
144	Nanofiber-Based Multi-Tubular Conduits with a Honeycomb Structure for Potential Application in Peripheral Nerve Repair. <i>Macromolecular Bioscience</i> , 2018 , 18, e1800090	5.5	17
143	Killing cancer cells by rupturing their lysosomes. <i>Nature Nanotechnology</i> , 2020 , 15, 252-253	28.7	16
142	Pd-Ru Alloy Nanocages with a Face-Centered Cubic Structure and Their Enhanced Activity toward the Oxidation of Ethylene Glycol and Glycerol. <i>Small Methods</i> , 2020 , 4, 1900843	12.8	16
141	A facile, robust and scalable method for the synthesis of Pd nanoplates with hydroxylamine as a reducing agent and mechanistic insights from kinetic analysis. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 4677-4682	7.1	16
140	Toward a Quantitative Understanding of the Sulfate-Mediated Synthesis of Pd Decahedral Nanocrystals with High Conversion and Morphology Yields. <i>Chemistry of Materials</i> , 2016 , 28, 8800-8806	9.6	16

139	Seed-mediated synthesis of gold tetrahedra in high purity and with tunable, well-controlled sizes. <i>Chemistry - an Asian Journal</i> , 2014 , 9, 2635-40	4.5	16
138	Gold nanocages for cancer imaging and therapy. <i>Methods in Molecular Biology</i> , 2010 , 624, 83-99	1.4	16
137	Geometry and surface state effects on the mechanical response of Au nanostructures. <i>International Journal of Materials Research</i> , 2004 , 95, 416-424		16
136	Surface-Functionalized Electrospun Titania Nanofibers for the Scavenging and Recycling of Precious Metal Ions. <i>ChemSusChem</i> , 2016 , 9, 2912-2916	8.3	16
135	Encapsulation of a Phase-Change Material in Nanocapsules with a Well-Defined Hole in the Wall for the Controlled Release of Drugs. <i>Angewandte Chemie</i> , 2019 , 131, 10716-10721	3.6	15
134	Palladium@Platinum Concave Nanocubes with Enhanced Catalytic Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2016 , 8, 3082-3088	5.2	15
133	Facile Synthesis of Five-fold Twinned, Starfish-like Rhodium Nanocrystals by Eliminating Oxidative Etching with a Chloride-Free Precursor. <i>Angewandte Chemie</i> , 2010 , 122, 5424-5428	3.6	15
132	Facile Synthesis of Branched Au Nanostructures by Templating Against a Self-Destructive Lattice of Magnetic Fe Nanoparticles. <i>Angewandte Chemie</i> , 2008 , 120, 9799-9802	3.6	15
131	Gold nanocages for effective photothermal conversion and related applications. <i>Chemical Science</i> , 2020 , 11, 12955-12973	9.4	15
130	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 8647-8651	16.4	14
129	Facile Synthesis of Pd@Pt ₃ Q ₄ L Core-Shell Octahedra with a Clean Surface and Thus Enhanced Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2017 , 9, 414-419	5.2	14
128	Silver nanocube on gold microplate as a well-defined and highly active substrate for SERS detection. <i>Journal of Materials Chemistry C</i> , 2013 , 1,	7.1	14
127	Microscale Polymer Bottles Corked with a Phase-Change Material for Temperature-Controlled Release. <i>Angewandte Chemie</i> , 2013 , 125, 10662-10665	3.6	14
126	Water-Based Synthesis of Sub-10 nm Pt Octahedra and Their Performance towards the Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2017 , 3, 879-884	3.5	14
125	Aktuelle Anwendungen für Phasenübergangsmaterialien (PCMs): auch Hans kann noch was lernen!. <i>Angewandte Chemie</i> , 2014 , 126, 3854-3871	3.6	14
124	Synthesis of Gold Nano-hexapods with Controllable Arm Lengths and Their Tunable Optical Properties. <i>Angewandte Chemie</i> , 2011 , 123, 6452-6455	3.6	14
123	Etching and Growth: An Intertwined Pathway to Silver Nanocrystals with Exotic Shapes. <i>Angewandte Chemie</i> , 2009 , 121, 4918-4921	3.6	14
122	Shape-controlled synthesis of CO-free Pd nanocrystals with the use of formic acid as a reducing agent. <i>Chemical Communications</i> , 2016 , 52, 12594-12597	5.8	14

121	Twin-Directed Deposition of Pt on Pd Icosahedral Nanocrystals for Catalysts with Enhanced Activity and Durability toward Oxygen Reduction. <i>Nano Letters</i> , 2021 , 21, 2248-2254	11.5	14
120	A Photochemical, Room-Temperature, and Aqueous Route to the Synthesis of Pd Nanocubes Enriched with Atomic Steps and Terraces on the Side Faces. <i>Chemistry of Materials</i> , 2017 , 29, 4563-4571	9.6	13
119	Synthesis of Palladium Nanoscale Octahedra through a One-Pot, Dual-Reductant Route and Kinetic Analysis. <i>Chemistry - A European Journal</i> , 2018 , 24, 6133-6139	4.8	13
118	The effect of surface capping on the diffusion of adatoms in the synthesis of Pd@Au core-shell nanocrystals. <i>Chemical Communications</i> , 2016 , 52, 13159-13162	5.8	13
117	Effect of Size, Shape, Composition, and Support Film on Localized Surface Plasmon Resonance Frequency: A Single Particle Approach Applied to Silver Bipyramids and Gold and Silver Nanocubes. <i>Materials Research Society Symposia Proceedings</i> , 2009 , 1208, 1		13
116	Twin-Induced Growth of Palladium-Platinum Alloy Nanocrystals. <i>Angewandte Chemie</i> , 2009 , 121, 6422-6436	3.6	13
115	Facile Synthesis of PtPd Alloy Nanocages and Pt Nanorings by Templating with Pd Nanoplates. <i>ChemNanoMat</i> , 2016 , 2, 1086-1091	3.5	13
114	Gold icosahedral nanocages: Facile synthesis, optical properties, and fragmentation under ultrasonication. <i>Chemical Physics Letters</i> , 2017 , 683, 613-618	2.5	12
113	Facile Synthesis of ⁶⁴ Cu-Doped Au Nanocages for Positron Emission Tomography Imaging. <i>ChemNanoMat</i> , 2017 , 3, 44-50	3.5	12
112	Grooved Fibers: Preparation Principles Through Electrospinning and Potential Applications. <i>Advanced Fiber Materials</i> , 1	10.9	12
111	Bimetallic Janus Nanocrystals: Syntheses and Applications. <i>Advanced Materials</i> , 2021 , e2102591	24	12
110	Janus Nanocages of Platinum-Group Metals and Their Use as Effective Dual-Electrocatalysts. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 10384-10392	16.4	12
109	Targeted Delivery of Anti-miR-712 by VCAM1-Binding Au Nanospheres for Atherosclerosis Therapy. <i>ChemNanoMat</i> , 2016 , 2, 400-406	3.5	12
108	Dimerization of Colloidal Particles through Controlled Aggregation for Enhanced Properties and Applications. <i>Chemistry - an Asian Journal</i> , 2016 , 11, 2341-51	4.5	11
107	Seed-mediated growth of gold nanocrystals: changes to the crystallinity or morphology as induced by the treatment of seeds with a sulfur species. <i>Journal of Physical Chemistry B</i> , 2014 , 118, 14132-9	3.4	11
106	Swelling-Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12980-12984	16.4	11
105	Melanocortin 1 Receptor Targeted Imaging of Melanoma With Gold Nanocages and Positron Emission Tomography. <i>Molecular Imaging</i> , 2018 , 17, 1536012118775827	3.7	11
104	Quantitative Analysis of the Multiple Roles Played by Halide Ions in Controlling the Growth Patterns of Palladium Nanocrystals. <i>ChemNanoMat</i> , 2020 , 6, 576-588	3.5	10

103	A systematic study of the catalytic durability of Pd@Pt ₂ BL nano-sized octahedra toward oxygen reduction. <i>Catalysis Today</i> , 2017 , 280, 266-273	5.3	10
102	Ag@Ag _{0.08} V ₂ O ₅ ·nH ₂ O composite films as host materials for Li ⁺ intercalation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2005 , 202, R79-R81	1.6	10
101	Micropatterning of the Ferroelectric Phase in a Poly(vinylidene difluoride) Film by Plasmonic Heating with Gold Nanocages. <i>Angewandte Chemie</i> , 2016 , 128, 14032-14036	3.6	10
100	Nanobottles for Controlled Release and Drug Delivery. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2000587.1	5.1	10
99	Understanding the Stability of Pt-Based Nanocages under Thermal Stress Using In Situ Electron Microscopy. <i>ChemNanoMat</i> , 2018 , 4, 112-117	3.5	10
98	Enhancing the Tactile and Near-Infrared Sensing Capabilities of Electrospun PVDF Nanofibers with the Use of Gold Nanocages. <i>Journal of Materials Chemistry C</i> , 2018 , 6, 10263-10269	7.1	10
97	Facile Synthesis of Pt Icosahedral Nanocrystals with Controllable Sizes for the Evaluation of Size-Dependent Activity toward Oxygen Reduction. <i>ChemCatChem</i> , 2019 , 11, 2458-2463	5.2	9
96	Patterning materials through viscoelastic flow and phase separation. <i>Angewandte Chemie - International Edition</i> , 2011 , 50, 10977-80	16.4	9
95	How to Remove the Capping Agent from Pd Nanocubes without Destructing Their Surface Structure for the Maximization of Catalytic Activity?. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19129-19135	16.4	9
94	 Core/Shell Nanocubes with Controllable Sizes in the Range of 20-30 nm for Applications in Catalysis and Plasmonics. <i>ACS Applied Nano Materials</i> , 2019 , 2, 1533-1540	5.6	9
93	Controlling the Surface Oxidation of Cu Nanowires Improves Their Catalytic Selectivity and Stability toward C ₂ ⁺ Products in CO ₂ Reduction. <i>Angewandte Chemie</i> , 2021 , 133, 1937-1943	3.6	9
92	Controlling the Release of Neurotrophin-3 and Chondroitinase ABC Enhances the Efficacy of Nerve Guidance Conduits. <i>Advanced Healthcare Materials</i> , 2020 , 9, e2000200	10.1	8
91	Facile synthesis of Pd concave nanocubes: From kinetics to mechanistic understanding and rationally designed protocol. <i>Nano Research</i> , 2018 , 11, 3122-3131	10	8
90	Photothermal Welding, Melting, and Patterned Expansion of Nonwoven Mats of Polymer Nanofibers for Biomedical and Printing Applications. <i>Angewandte Chemie</i> , 2019 , 131, 16568-16573	3.6	8
89	A Quantitative Analysis of the Reduction Kinetics Involved in the Synthesis of Au@Pd Concave Nanocubes. <i>Chemistry - A European Journal</i> , 2019 , 25, 16397-16404	4.8	8
88	Controlling the Deposition of Pd on Au Nanocages: Outer Surface Only versus Both Outer and Inner Surfaces. <i>Nano Letters</i> , 2017 , 17, 5682-5687	11.5	8
87	A General Approach to the Synthesis of M@Au/Ag (M = Au, Pd, and Pt) Nanorattles with Ultrathin Shells Less Than 2.5 nm Thick. <i>Particle and Particle Systems Characterization</i> , 2017 , 34, 1600279	3.1	8
86	Solution-Phase Synthesis of PdH Nanocubes with Enhanced Stability and Activity toward Formic Acid Oxidation.. <i>Journal of the American Chemical Society</i> , 2022 ,	16.4	8

85	Kinetically Controlled Synthesis of Rhodium Nanocrystals with Different Shapes and a Comparison Study of Their Thermal and Catalytic Properties. <i>Journal of the American Chemical Society</i> , 2021 , 143, 6293-6302	16.4	8
84	Physical Transformations of Noble-Metal Nanocrystals upon Thermal Activation. <i>Accounts of Chemical Research</i> , 2021 , 54, 1-10	24.3	8
83	Augmenting Tendon-to-Bone Repair with Functionally Graded Scaffolds. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002269	10.1	8
82	Rhodium Decahedral Nanocrystals: Facile Synthesis, Mechanistic Insights, and Experimental Controls. <i>ChemNanoMat</i> , 2018 , 4, 66-70	3.5	8
81	Quantitative analysis of the reduction kinetics of a Pt(II) precursor in the context of Pt nanocrystal synthesis. <i>Chinese Journal of Chemical Physics</i> , 2018 , 31, 370-374	0.9	8
80	Polydopamine Nanobottles with Photothermal Capability for Controlled Release and Related Applications. <i>Advanced Materials</i> , 2021 , 33, e2104729	24	8
79	One-Pot Synthesis of Pd@Pt Core-Shell Icosahedral Nanocrystals in High Throughput through a Quantitative Analysis of the Reduction Kinetics. <i>Chemistry - A European Journal</i> , 2019 , 25, 5322-5329	4.8	7
78	Pt-Co truncated octahedral nanocrystals: a class of highly active and durable catalysts toward oxygen reduction. <i>Nanoscale</i> , 2020 , 12, 11718-11727	7.7	7
77	Spatiotemporally Controlling the Release of Biological Effectors Enhances Their Effects on Cell Migration and Neurite Outgrowth. <i>Small Methods</i> , 2020 , 4, 2000125	12.8	7
76	Seed-Mediated Growth of Colloidal Metal Nanocrystals: Scaling up the Production through Geometric and Stoichiometric Analyses. <i>ChemNanoMat</i> , 2016 , 2, 1033-1039	3.5	7
75	Pd@Rh core-shell nanocrystals with well-defined facets and their enhanced catalytic performance towards CO oxidation. <i>Nanoscale Horizons</i> , 2019 , 4, 1232-1238	10.8	7
74	The role of surface nonuniformity in controlling the initiation of a galvanic replacement reaction. <i>Chemistry - an Asian Journal</i> , 2011 , 6, 1479-84	4.5	7
73	Bright Three-Photon Luminescence from Gold/Silver Alloyed Nanostructures for Bioimaging with Negligible Photothermal Toxicity. <i>Angewandte Chemie</i> , 2010 , 122, 3563-3566	3.6	7
72	Transforming Nanofiber Mats into Hierarchical Scaffolds with Graded Changes in Porosity and/or Nanofiber Alignment. <i>Macromolecular Rapid Communications</i> , 2020 , 41, e1900579	4.8	7
71	Colloidal Metal Nanocrystals with Metastable Crystal Structures. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 12192-12203	16.4	7
70	Toward affordable and sustainable use of precious metals in catalysis and nanomedicine. <i>MRS Bulletin</i> , 2018 , 43, 860-869	3.2	7
69	Maximizing the Catalytic Performance of Pd@Au Pd Nanocubes in H ₂ O Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 19643-19647	16.4	7
68	Softlithographie 1998 , 110, 568		7

67	Soft Lithography 1998 , 37, 550		7
66	On the Thermodynamics and Experimental Control of Twinning in Metal Nanocrystals. <i>Angewandte Chemie</i> , 2017 , 129, 8773-8777	3.6	6
65	Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium. <i>Angewandte Chemie</i> , 2019 , 131, 7322-7326	3.6	6
64	Generation of Controllable Gradients in Cell Density. <i>Angewandte Chemie</i> , 2013 , 125, 447-450	3.6	6
63	Glänzende Aussichten für platinbasierte legierte Elektrokatalysatoren. <i>Angewandte Chemie</i> , 2010 , 122, 10013-10014	3.6	6
62	Continuous and Scalable Synthesis of Pt Multipods with Enhanced Electrocatalytic Activity toward the Oxygen Reduction Reaction. <i>ChemNanoMat</i> , 2019 , 5, 599-605	3.5	6
61	Bifunctional Janus Particles as Multivalent Synthetic Nanoparticle Antibodies (SNABs) for Selective Depletion of Target Cells. <i>Nano Letters</i> , 2021 , 21, 875-886	11.5	6
60	Facile synthesis of gold trisoctahedral nanocrystals with controllable sizes and dihedral angles. <i>Nanoscale</i> , 2018 , 10, 11034-11042	7.7	6
59	Promoting the Outgrowth of Neurites on Electrospun Microfibers by Functionalization with Electrospayed Microparticles of Fatty Acids. <i>Angewandte Chemie</i> , 2019 , 131, 3988-3991	3.6	5
58	Facile Synthesis of Silver Icosahedral Nanocrystals with Uniform and Controllable Sizes. <i>ChemNanoMat</i> , 2018 , 4, 1071-1077	3.5	5
57	Direct Visualization and Semi-Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 17671-17674	16.4	5
56	Reconstitution of Low-Density Lipoproteins with Fatty Acids for the Targeted Delivery of Drugs into Cancer Cells. <i>Angewandte Chemie</i> , 2017 , 129, 10535-10538	3.6	5
55	Facile synthesis of gold octahedra by direct reduction of H ₂ AuCl ₄ in an aqueous solution. <i>Chemistry - an Asian Journal</i> , 2010 , 5, 1312-6	4.5	5
54	Synthesis and characterization of monodisperse colloidal spheres of Pb containing superparamagnetic Fe ₃ O ₄ nanoparticles. <i>Chemical Physics Letters</i> , 2007 , 436, 213-217	2.5	5
53	Micropatterned Polymer Nanorod Forests and Their Use for Dual Drug Loading and Regulation of Cell Adhesion. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 34194-34197	9.5	5
52	Using Reduction Kinetics to Control and Predict the Outcome of a Colloidal Synthesis of Noble-Metal Nanocrystals. <i>Inorganic Chemistry</i> , 2021 ,	5.1	5
51	Separating Growth from Nucleation for Facile Control over the Size and Shape of Palladium Nanocrystals. <i>Chemistry - A European Journal</i> , 2020 , 26, 13890-13895	4.8	4
50	Facile Synthesis of Ag@Pd _n L Icosahedral Nanocrystals as a Class of Cost-Effective Electrocatalysts toward Formic Acid Oxidation. <i>ChemCatChem</i> , 2020 , 12, 5156-5163	5.2	4

49	Aqueous Synthesis of Pd _M (M = Pd, Pt, and Au) Decahedra with Concave Facets for Catalytic Applications. <i>Topics in Catalysis</i> , 2020 , 63, 664-672	2.3	4
48	Facile Synthesis of Palladium-Based Nanocrystals with Different Crystal Phases and a Comparison of Their Catalytic Properties. <i>Advanced Materials</i> , 2021 , 33, e2103801	24	4
47	A Mechanistic Study of the Multiple Roles of Oleic Acid in the Oil-Phase Synthesis of Pt Nanocrystals. <i>Chemistry - A European Journal</i> , 2020 , 26, 15636-15642	4.8	4
46	Pd/Au Asymmetric Nanopyramids: Lateral vs Vertical Growth of Au on Pd Decahedral Seeds. <i>Chemistry of Materials</i> , 2021 , 33, 5391-5400	9.6	4
45	Atomistic insights into the nucleation and growth of platinum on palladium nanocrystals. <i>Nature Communications</i> , 2021 , 12, 3215	17.4	4
44	A New Catalytic System with Balanced Activity and Durability toward Oxygen Reduction. <i>ChemCatChem</i> , 2020 , 12, 4817-4824	5.2	3
43	A Simple Spectroscopic Method for Differentiating Cellular Uptakes of Gold Nanospheres and Nanorods from Their Mixtures. <i>Angewandte Chemie</i> , 2010 , 122, 2020-2024	3.6	3
42	Pencil-like Ag Nanorods Asymmetrically Capped by Pd. <i>Chemistry of Materials</i> , 2020 , 32, 5361-5367	9.6	3
41	Oberflächenstabilisatoren und ihre Rolle bei der formkontrollierten Synthese von kolloidalen Metall-Nanokristallen. <i>Angewandte Chemie</i> , 2020 , 132, 15498-15523	3.6	3
40	Swelling-Induced Symmetry Breaking: A Versatile Approach to the Scalable Production of Colloidal Particles with a Janus Structure. <i>Angewandte Chemie</i> , 2021 , 133, 13090-13094	3.6	3
39	Improving the Purity and Uniformity of Pd and Pt Nanocrystals by Decoupling Growth from Nucleation in a Flow Reactor. <i>Chemistry of Materials</i> , 2021 , 33, 3791-3801	9.6	3
38	In My Element: Silver. <i>Chemistry - A European Journal</i> , 2019 , 25, 4244-4244	4.8	3
37	Radiolabeling of Gold Nanocages for Potential Applications in Tracking, Diagnosis, and Image-Guided Therapy. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002031	10.1	3
36	Quantifying the Sub-Cellular Distributions of Gold Nanospheres Taken Up by Cells through Stepwise, Site-Selective Etching. <i>Chemistry - A European Journal</i> , 2018 , 24, 8513-8518	4.8	2
35	Continuous Production of Water-Soluble Nanocrystals through Anti-Solvent Precipitation in a Fluidic Device. <i>ChemNanoMat</i> , 2019 , 5, 1131-1136	3.5	2
34	Electrospinning: A Simple and Versatile Technique for Producing Ceramic Nanofibers and Nanotubes 2014 , 341-349		2
33	Patterning Materials through Viscoelastic Flow and Phase Separation. <i>Angewandte Chemie</i> , 2011 , 123, 11169-11172	3.6	2
32	Noninvasive photoacoustic sentinel lymph node mapping using Au nanocages as a lymph node tracer in a rat model 2009 ,		2

31	Photonic Crystals. <i>Nanostructure Science and Technology</i> , 2004 , 505-529	0.9	2
30	Shape-Controlled Synthesis of Gold and Silver Nanoparticles.. <i>ChemInform</i> , 2003 , 34, no		2
29	Hydroquinone-Based Synthesis of Pd Nanostructures and the Interplay of Surface Capping, Reduction Kinetics, Attachment, Diffusion, and Fusion. <i>Chemistry of Materials</i> , 2021 , 33, 8430-8439	9.6	2
28	Nanofiber/hydrogel core-shell scaffolds with three-dimensional multilayer patterned structure for accelerating diabetic wound healing.. <i>Journal of Nanobiotechnology</i> , 2022 , 20, 28	9.4	2
27	Janus Nanocages of Platinum-Group Metals and Their Use as Effective Dual-Electrocatalysts. <i>Angewandte Chemie</i> , 2021 , 133, 10472-10480	3.6	2
26	Maximizing the Catalytic Performance of Pd@AuPd _{1-x} Nanocubes in H ₂ O ₂ Production by Reducing Shell Thickness to Increase Compositional Stability. <i>Angewandte Chemie</i> , 2021 , 133, 19795-19799	3.6	2
25	A Simple Route to the Synthesis of Pt Nanobars and the Mechanistic Understanding of Symmetry Reduction. <i>Chemistry - A European Journal</i> , 2021 , 27, 2760-2766	4.8	2
24	Engraving the Surface of Electrospun Microfibers with Nanoscale Grooves Promotes the Outgrowth of Neurites and the Migration of Schwann Cells. <i>Angewandte Chemie</i> , 2020 , 132, 15756-15762	3.6	1
23	A Soft Lithographic Approach to the Fabrication of Single Crystalline Silicon Nanostructures with Well-Defined Dimensions and Shapes. <i>Materials Research Society Symposia Proceedings</i> , 2000 , 636, 421		1
22	Oriented Attachment: A Unique Mechanism for the Colloidal Synthesis of Metal Nanostructures. <i>ChemNanoMat</i> ,	3.5	1
21	Improving biomedical imaging with gold nanocages. <i>SPIE Newsroom</i> , 2008 , 1200705.1135		1
20	Facile Synthesis of PdCu Bimetallic Twin Nanocubes and a Mechanistic Understanding of the Shape Evolution. <i>ChemNanoMat</i> , 2020 , 6, 386-391	3.5	1
19	Colloidal Nanospheres of Amorphous Selenium: Facile Synthesis, Size Control, and Optical Properties. <i>ChemNanoMat</i> , 2021 , 7, 620-625	3.5	1
18	Biomimetic Scaffolds with a Mineral Gradient and Funnel-Shaped Channels for Spatially Controllable Osteogenesis. <i>Advanced Healthcare Materials</i> , 2021 , e2100828	10.1	1
17	In Situ Growth of Pt-Co Nanocrystals on Different Types of Carbon Supports and Their Electrochemical Performance toward Oxygen Reduction. <i>ACS Applied Materials & Interfaces</i> , 2021 ,	9.5	1
16	Facile synthesis of PtAg octahedral and tetrahedral nanocrystals with enhanced activity and durability toward methanol oxidation. <i>Journal of Materials Research</i> , 2018 , 33, 3891-3897	2.5	1
15	Facile Synthesis of Platinum Right Bipyramids by Separating and Controlling the Nucleation Step in a Continuous Flow System. <i>Chemistry - A European Journal</i> , 2021 , 27, 13855-13863	4.8	1
14	Soft Lithography 1998 , 37, 550		1

13	Metal Nanowires Synthesized by Solution-Phase Methods 2003 , 211-234		1
12	Accelerating Cell Migration along Radially Aligned Nanofibers through the Addition of Electrospun Nanoparticles in a Radial Density Gradient. <i>Particle and Particle Systems Characterization</i> , 2020 , 2100280	3.1	1
11	How to Remove the Capping Agent from Pd Nanocubes without Destructing Their Surface Structure for the Maximization of Catalytic Activity?. <i>Angewandte Chemie</i> , 2020 , 132, 19291-19297	3.6	0
10	Colloidal Metal Nanocrystals with Metastable Crystal Structures. <i>Angewandte Chemie</i> , 2021 , 133, 12300-12311	3.6	0
9	Using computational methods to design patient-specific electrospun cardiac patches for pediatric heart failure.. <i>Biomaterials</i> , 2022 , 283, 121421	15.6	0
8	Röntgenbild: Iridium-Based Cubic Nanocages with 1.1-nm-Thick Walls: A Highly Efficient and Durable Electrocatalyst for Water Oxidation in an Acidic Medium (<i>Angew. Chem.</i> 22/2019). <i>Angewandte Chemie</i> , 2019 , 131, 7576-7576	3.6	
7	Direct Visualization and Semi-Quantitative Analysis of Payload Loading in the Case of Gold Nanocages. <i>Angewandte Chemie</i> , 2019 , 131, 17835-17838	3.6	
6	Electrospun Nanofibers for Regenerative Medicine 2013 , 265-295		
5	Gold Nanocages: A Multifunctional Platform for Molecular Optical Imaging and Photothermal Treatment 2011 , 615-638		
4	Mixing an Aqueous Suspension of Pd or Au Nanocrystals with a Less Polar Solvent Can Cause Changes to Size, Morphology, or Both. <i>Angewandte Chemie</i> , 2011 , 123, 6176-6179	3.6	
3	Chalcogen Nanowires: Synthesis and Properties. <i>Materials Research Society Symposia Proceedings</i> , 2003 , 776, 621		
2	Elucidating the surface compositions of Pd@Pt core-shell nanocrystals through catalytic reactions and spectroscopy probes. <i>Nanoscale</i> , 2021 , 13, 18498-18506	7.7	
1	Geometry and surface state effects on the mechanical response of Au nanostructures. <i>International Journal of Materials Research</i> , 2022 , 95, 416-424	0.5	