

# Chad A Mirkin

## List of Publications by Citations

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971  
papers

124,635  
citations

158  
h-index

334  
g-index

1,024  
ext. papers

133,453  
ext. citations

13.4  
avg, IF

8.69  
L-index

#	Paper	IF	Citations
971	A DNA-based method for rationally assembling nanoparticles into macroscopic materials. <i>Nature</i> , <b>1996</b> , 382, 607-9	50.4	5624
970	Nanostructures in biodiagnostics. <i>Chemical Reviews</i> , <b>2005</b> , 105, 1547-62	68.1	4122
969	Selective colorimetric detection of polynucleotides based on the distance-dependent optical properties of gold nanoparticles. <i>Science</i> , <b>1997</b> , 277, 1078-81	33.3	3838
968	Photoinduced conversion of silver nanospheres to nanoprisms. <i>Science</i> , <b>2001</b> , 294, 1901-3	33.3	2970
967	Nanoparticles with Raman spectroscopic fingerprints for DNA and RNA detection. <i>Science</i> , <b>2002</b> , 297, 1536-40	33.3	2702
966	"Dip-Pen" nanolithography. <i>Science</i> , <b>1999</b> , 283, 661-3	33.3	2645
965	Scanometric DNA array detection with nanoparticle probes. <i>Science</i> , <b>2000</b> , 289, 1757-60	33.3	2218
964	Nanoparticle-based bio-bar codes for the ultrasensitive detection of proteins. <i>Science</i> , <b>2003</b> , 301, 1884-6	33.3	2209
963	One-Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticle Probes. <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 1959-1964	16.4	2024
962	Gold nanoparticles for biology and medicine. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3280-9	16.4	1878
961	Oligonucleotide-modified gold nanoparticles for intracellular gene regulation. <i>Science</i> , <b>2006</b> , 312, 1027-30	33.3	1682
960	Controlling anisotropic nanoparticle growth through plasmon excitation. <i>Nature</i> , <b>2003</b> , 425, 487-90	50.4	1467
959	Strategies for the Construction of Supramolecular Compounds through Coordination Chemistry. <i>Angewandte Chemie - International Edition</i> , <b>2001</b> , 40, 2022-2043	16.4	1364
958	DNA-programmable nanoparticle crystallization. <i>Nature</i> , <b>2008</b> , 451, 553-6	50.4	1297
957	Colorimetric detection of mercuric ion (Hg <sup>2+</sup> ) in aqueous media using DNA-functionalized gold nanoparticles. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 4093-6	16.4	1124
956	What Controls the Optical Properties of DNA-Linked Gold Nanoparticle Assemblies?. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 4640-4650	16.4	1113
955	Protein nanoarrays generated by dip-pen nanolithography. <i>Science</i> , <b>2002</b> , 295, 1702-5	33.3	1051

954	A fluorescence-based method for determining the surface coverage and hybridization efficiency of thiol-capped oligonucleotides bound to gold thin films and nanoparticles. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 5535-41	7.8	985
953	Templated techniques for the synthesis and assembly of plasmonic nanostructures. <i>Chemical Reviews</i> , <b>2011</b> , 111, 3736-827	68.1	981
952	Programmed Materials Synthesis with DNA. <i>Chemical Reviews</i> , <b>1999</b> , 99, 1849-1862	68.1	952
951	What controls the melting properties of DNA-linked gold nanoparticle assemblies?. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 1643-54	16.4	946
950	Nanomaterials. Programmable materials and the nature of the DNA bond. <i>Science</i> , <b>2015</b> , 347, 1260901	33.3	924
949	Maximizing DNA loading on a range of gold nanoparticle sizes. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 8313-8	7.8	887
948	Nanoparticle superlattice engineering with DNA. <i>Science</i> , <b>2011</b> , 334, 204-8	33.3	876
947	The evolution of dip-pen nanolithography. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 30-45	16.4	802
946	Localized surface plasmon resonance spectroscopy of single silver triangular nanoprisms. <i>Nano Letters</i> , <b>2006</b> , 6, 2060-5	11.5	778
945	Spherical nucleic acids. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 1376-91	16.4	742
944	Array-based electrical detection of DNA with nanoparticle probes. <i>Science</i> , <b>2002</b> , 295, 1503-6	33.3	734
943	Applications of dip-pen nanolithography. <i>Nature Nanotechnology</i> , <b>2007</b> , 2, 145-55	28.7	721
942	Colloidal gold and silver triangular nanoprisms. <i>Small</i> , <b>2009</b> , 5, 646-64	11	712
941	Infinite coordination polymer nano- and microparticle structures. <i>Chemical Society Reviews</i> , <b>2009</b> , 38, 1218-27	58.5	705
940	Nanoparticle Probes for the Detection of Cancer Biomarkers, Cells, and Tissues by Fluorescence. <i>Chemical Reviews</i> , <b>2015</b> , 115, 10530-74	68.1	702
939	Nanoparticle-based detection in cerebral spinal fluid of a soluble pathogenic biomarker for Alzheimer's disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 2273-6	11.5	699
938	Bio-bar-code-based DNA detection with PCR-like sensitivity. <i>Journal of the American Chemical Society</i> , <b>2004</b> , 126, 5932-3	16.4	695
937	Rationally designed nanostructures for surface-enhanced Raman spectroscopy. <i>Chemical Society Reviews</i> , <b>2008</b> , 37, 885-97	58.5	694

- 936 Direct patterning of modified oligonucleotides on metals and insulators by dip-pen nanolithography. *Science*, **2002**, 296, 1836-8 33.3 661
- 935 Observation of a quadrupole plasmon mode for a colloidal solution of gold nanoprisms. *Journal of the American Chemical Society*, **2005**, 127, 5312-3 16.4 653
- 934 Programmed Assembly of DNA Functionalized Quantum Dots. *Journal of the American Chemical Society*, **1999**, 121, 8122-8123 16.4 632
- 933 Self-assembly of mesoscopic metal-polymer amphiphiles. *Science*, **2004**, 303, 348-51 33.3 625
- 932 DNA-Directed Synthesis of Binary Nanoparticle Network Materials. *Journal of the American Chemical Society*, **1998**, 120, 12674-12675 16.4 623
- 931 Enzyme mimics based upon supramolecular coordination chemistry. *Angewandte Chemie - International Edition*, **2011**, 50, 114-37 16.4 622
- 930 DNA-modified core-shell Ag/Au nanoparticles. *Journal of the American Chemical Society*, **2001**, 123, 7961-7 16.4 616
- 929 Drivers of biodiagnostic development. *Nature*, **2009**, 462, 461-4 50.4 614
- 928 Chemically tailorable colloidal particles from infinite coordination polymers. *Nature*, **2005**, 438, 651-4 50.4 580
- 927 Nano-flares: probes for transfection and mRNA detection in living cells. *Journal of the American Chemical Society*, **2007**, 129, 15477-9 16.4 560
- 926 DNA-nanoparticle superlattices formed from anisotropic building blocks. *Nature Materials*, **2010**, 9, 913-7 5.1 536
- 925 Gene regulation with polyvalent siRNA-nanoparticle conjugates. *Journal of the American Chemical Society*, **2009**, 131, 2072-3 16.4 529
- 924 Defining rules for the shape evolution of gold nanoparticles. *Journal of the American Chemical Society*, **2012**, 134, 14542-54 16.4 522
- 923 Programming the assembly of two- and three-dimensional architectures with DNA and nanoscale inorganic building blocks. *Inorganic Chemistry*, **2000**, 39, 2258-72 5.1 518
- 922 Development of a coordination chemistry-based approach for functional supramolecular structures. *Accounts of Chemical Research*, **2005**, 38, 825-37 24.3 495
- 921 Rapid Thermal Synthesis of Silver Nanoprisms with Chemically Tailorable Thickness. *Advanced Materials*, **2005**, 17, 412-415 24 482
- 920 The bio-barcode assay for the detection of protein and nucleic acid targets using DTT-induced ligand exchange. *Nature Protocols*, **2006**, 1, 324-36 18.8 481
- 919 Multiple ink nanolithography: toward a multiple-Pen nano-plotter. *Science*, **1999**, 286, 523-5 33.3 480

918	Synthesis of hexagonal close-packed gold nanostructures. <i>Nature Communications</i> , <b>2011</b> , 2, 292	17.4	467
917	Oligonucleotide loading determines cellular uptake of DNA-modified gold nanoparticles. <i>Nano Letters</i> , <b>2007</b> , 7, 3818-21	11.5	467
916	Concave cubic gold nanocrystals with high-index facets. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 14012-4	16.4	461
915	Observation of Surface-Induced Broken Time-Reversal Symmetry in YBa <sub>2</sub> Cu <sub>3</sub> O <sub>7</sub> Tunnel Junctions. <i>Physical Review Letters</i> , <b>1997</b> , 79, 277-280	7.4	457
914	Multisegmented one-dimensional nanorods prepared by hard-template synthetic methods. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 2672-92	16.4	447
913	Polymer pen lithography. <i>Science</i> , <b>2008</b> , 321, 1658-60	33.3	441
912	A DNA-gold nanoparticle-based colorimetric competition assay for the detection of cysteine. <i>Nano Letters</i> , <b>2008</b> , 8, 529-33	11.5	437
911	Polyvalent oligonucleotide gold nanoparticle conjugates as delivery vehicles for platinum(IV) warheads. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 14652-3	16.4	426
910	Polyvalent DNA nanoparticle conjugates stabilize nucleic acids. <i>Nano Letters</i> , <b>2009</b> , 9, 308-11	11.5	423
909	Homogeneous, Nanoparticle-Based Quantitative Colorimetric Detection of Oligonucleotides. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 3795-3796	16.4	419
908	Silver nanoparticle-oligonucleotide conjugates based on DNA with triple cyclic disulfide moieties. <i>Nano Letters</i> , <b>2007</b> , 7, 2112-5	11.5	409
907	Nanotechnologies for biomolecular detection and medical diagnostics. <i>Current Opinion in Chemical Biology</i> , <b>2006</b> , 10, 11-9	9.7	408
906	Designing, fabricating, and imaging Raman hot spots. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 13300-3	11.5	397
905	Raman dye-labeled nanoparticle probes for proteins. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 14676-7	16.4	394
904	Two-color labeling of oligonucleotide arrays via size-selective scattering of nanoparticle probes. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 5164-5	16.4	390
903	Sequence-Dependent Stability of DNA-Modified Gold Nanoparticles. <i>Langmuir</i> , <b>2002</b> , 18, 6666-6670	4	386
902	Multiplexed detection of protein cancer markers with biobarcoded nanoparticle probes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 8378-9	16.4	385
901	The role radius of curvature plays in thiolated oligonucleotide loading on gold nanoparticles. <i>ACS Nano</i> , <b>2009</b> , 3, 418-24	16.7	380

900	Spherical nucleic acid nanoparticle conjugates as an RNAi-based therapy for glioblastoma. <i>Science Translational Medicine</i> , <b>2013</b> , 5, 209ra152	17.5	377
899	Mechanism for the endocytosis of spherical nucleic acid nanoparticle conjugates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2013</b> , 110, 7625-30	11.5	354
898	On-wire lithography. <i>Science</i> , <b>2005</b> , 309, 113-5	33.3	346
897	Iodide ions control seed-mediated growth of anisotropic gold nanoparticles. <i>Nano Letters</i> , <b>2008</b> , 8, 2526-9	11.5	344
896	Metal-Organic Framework Nanoparticles. <i>Advanced Materials</i> , <b>2018</b> , 30, e1800202	24	338
895	Nucleic acid-metal organic framework (MOF) nanoparticle conjugates. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7261-4	16.4	336
894	Nanoparticle-based bio-barcode assay redefines "undetectable" PSA and biochemical recurrence after radical prostatectomy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 18437-42	11.5	335
893	Mechanistic study of photomediated triangular silver nanoprism growth. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8337-44	16.4	330
892	Aptamer nano-flares for molecular detection in living cells. <i>Nano Letters</i> , <b>2009</b> , 9, 3258-61	11.5	323
891	DNA-mediated nanoparticle crystallization into Wulff polyhedra. <i>Nature</i> , <b>2014</b> , 505, 73-7	50.4	319
890	Carborane-based metal-organic frameworks as highly selective sorbents for CO(2) over methane. <i>Chemical Communications</i> , <b>2008</b> , 4135-7	5.8	319
889	Topical delivery of siRNA-based spherical nucleic acid nanoparticle conjugates for gene regulation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2012</b> , 109, 11975-80	11.5	316
888	Protein nanostructures formed via direct-write dip-pen nanolithography. <i>Journal of the American Chemical Society</i> , <b>2003</b> , 125, 5588-9	16.4	314
887	A nanoplotter with both parallel and serial writing capabilities. <i>Science</i> , <b>2000</b> , 288, 1808-11	33.3	308
886	Heteroligated supramolecular coordination complexes formed via the halide-induced ligand rearrangement reaction. <i>Accounts of Chemical Research</i> , <b>2008</b> , 41, 1618-29	24.3	304
885	Multiple thiol-anchor capped DNA-gold nanoparticle conjugates. <i>Nucleic Acids Research</i> , <b>2002</b> , 30, 1558-62	21.1	303
884	Shape control of gold nanoparticles by silver underpotential deposition. <i>Nano Letters</i> , <b>2011</b> , 11, 3394-8	11.5	300
883	Triangular Nanoframes Made of Gold and Silver. <i>Nano Letters</i> , <b>2003</b> , 3, 519-522	11.5	297

882	Multipole plasmon resonances in gold nanorods. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 2150-4	3.4	296
881	Asymmetric functionalization of gold nanoparticles with oligonucleotides. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 9286-7	16.4	292
880	Gold nanoparticle probes for the detection of nucleic acid targets. <i>Clinica Chimica Acta</i> , <b>2006</b> , 363, 120-66.2		290
879	Colorimetric nitrite and nitrate detection with gold nanoparticle probes and kinetic end points. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 6362-3	16.4	287
878	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. <i>Nature Nanotechnology</i> , <b>2014</b> , 9, 969-80	28.7	284
877	Scavenger receptors mediate cellular uptake of polyvalent oligonucleotide-functionalized gold nanoparticles. <i>Bioconjugate Chemistry</i> , <b>2010</b> , 21, 2250-6	6.3	272
876	The Transition Metal Coordination Chemistry of Hemilabile Ligands. <i>Progress in Inorganic Chemistry</i> , <b>2007</b> , 233-350		269
875	Three-layer composite magnetic nanoparticle probes for DNA. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 15362-3	16.4	269
874	Surface organization and nanopatterning of collagen by dip-pen nanolithography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2001</b> , 98, 13660-4	11.5	269
873	Controlling the Edge Length of Gold Nanoprisms via a Seed-Mediated Approach. <i>Advanced Functional Materials</i> , <b>2006</b> , 16, 1209-1214	15.6	263
872	The DNA-Mediated Formation of Supramolecular Mono- and Multilayered Nanoparticle Structures. <i>Journal of the American Chemical Society</i> , <b>2000</b> , 122, 6305-6306	16.4	263
871	Massively parallel dip-pen nanolithography with 55 000-pen two-dimensional arrays. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 7220-3	16.4	256
870	Allosteric supramolecular triple-layer catalysts. <i>Science</i> , <b>2010</b> , 330, 66-9	33.3	254
869	Synthesis, Properties, and Gas Separation Studies of a Robust Diimide-Based Microporous Organic Polymer. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3033-3035	9.6	252
868	A thermodynamic investigation into the binding properties of DNA functionalized gold nanoparticle probes and molecular fluorophore probes. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 12754-5	16.4	251
867	A general approach to DNA-programmable atom equivalents. <i>Nature Materials</i> , <b>2013</b> , 12, 741-6	27	249
866	Bio-barcodes based on oligonucleotide-modified nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 3820-1	16.4	245
865	Polyelemental nanoparticle libraries. <i>Science</i> , <b>2016</b> , 352, 1565-9	33.3	244

- 864 Synthesis and hydrogen sorption properties of carborane based metal-organic framework materials. *Journal of the American Chemical Society*, **2007**, 129, 12680-1 16.4 244
- 863 Hybrid Nanoparticles with Block Copolymer Shell Structures. *Journal of the American Chemical Society*, **1999**, 121, 462-463 16.4 243
- 862 A gold-nanoparticle-based real-time colorimetric screening method for endonuclease activity and inhibition. *Angewandte Chemie - International Edition*, **2007**, 46, 3468-70 16.4 240
- 861 Thermal desorption behavior and binding properties of DNA bases and nucleosides on gold. *Journal of the American Chemical Society*, **2002**, 124, 11248-9 16.4 239
- 860 Making sense of the mayhem behind shape control in the synthesis of gold nanoparticles. *Journal of the American Chemical Society*, **2013**, 135, 18238-47 16.4 237
- 859 A supramolecular approach to an allosteric catalyst. *Journal of the American Chemical Society*, **2003**, 125, 10508-9 16.4 237
- 858 Koordinationschemische Synthesemethoden zum Aufbau supramolekularer Verbindungen. *Angewandte Chemie*, **2001**, 113, 2076-2097 3.6 237
- 857 Nano-flares for mRNA regulation and detection. *ACS Nano*, **2009**, 3, 2147-52 16.7 236
- 856 Molecular Electronics. *Annual Review of Physical Chemistry*, **1992**, 43, 719-754 15.7 236
- 855 A coordination chemistry dichotomy for icosahedral carborane-based ligands. *Nature Chemistry*, **2011**, 3, 590-6 17.6 235
- 854 Colorimetric Cu(2+) detection using DNA-modified gold-nanoparticle aggregates as probes and click chemistry. *Small*, **2010**, 6, 623-6 11 233
- 853 Multiplexed DNA detection with biobarcode nanoparticle probes. *Angewandte Chemie - International Edition*, **2006**, 45, 3303-6 16.4 231
- 852 Multiplexed nanoflars: mRNA detection in live cells. *Analytical Chemistry*, **2012**, 84, 2062-6 7.8 228
- 851 Reversible interconversion of homochiral triangular macrocycles and helical coordination polymers. *Journal of the American Chemical Society*, **2007**, 129, 7712-3 16.4 223
- 850 Accelerating the Translation of Nanomaterials in Biomedicine. *ACS Nano*, **2015**, 9, 6644-54 16.7 220
- 849 Electrostatically Driven Dip-Pen Nanolithography of Conducting Polymers. *Advanced Materials*, **2002**, 14, 1474-1477 24 219
- 848 The Use of Nanoarrays for Highly Sensitive and Selective Detection of Human Immunodeficiency Virus Type 1 in Plasma. *Nano Letters*, **2004**, 4, 1869-1872 11.5 216
- 847 pH-switchable silver nanoprism growth pathways. *Angewandte Chemie - International Edition*, **2007**, 46, 2036-8 16.4 212



846	Colorimetric screening of DNA-binding molecules with gold nanoparticle probes. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 1807-10	16.4	203
845	A Highly Ordered Self-Assembled Monolayer Film of an Azobenzenealkanethiol on Au(111): Electrochemical Properties and Structural Characterization by Synchrotron in-Plane X-ray Diffraction, Atomic Force Microscopy, and Surface-Enhanced Raman Spectroscopy. <i>Journal of the American Chemical Society</i> , <b>1995</b> , 117, 6071-6082	16.4	201
844	Conductive 2D metal-organic framework for high-performance cathodes in aqueous rechargeable zinc batteries. <i>Nature Communications</i> , <b>2019</b> , 10, 4948	17.4	198
843	Massively parallel dip-pen nanolithography of heterogeneous supported phospholipid multilayer patterns. <i>Small</i> , <b>2007</b> , 3, 71-5	11	196
842	Optical Properties of One-, Two-, and Three-Dimensional Arrays of Plasmonic Nanostructures. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 816-830	3.8	195
841	Chip-based scanometric detection of mercuric ion using DNA-functionalized gold nanoparticles. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 6805-8	7.8	194
840	A bio-barcode assay for on-chip attomolar-sensitivity protein detection. <i>Lab on A Chip</i> , <b>2006</b> , 6, 1293-9	7.2	191
839	Ligand Design for Electrochemically Controlling Stoichiometric and Catalytic Reactivity of Transition Metals. <i>Angewandte Chemie - International Edition</i> , <b>1998</b> , 37, 894-908	16.4	190
838	Controlling the shape, orientation, and linkage of carbon nanotube features with nano affinity templates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 2026-31	11.5	190
837	Direct-write dip-pen nanolithography of proteins on modified silicon oxide surfaces. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 2309-12	16.4	190
836	Plasmon-driven synthesis of triangular core-shell nanoprisms from gold seeds. <i>Angewandte Chemie - International Edition</i> , <b>2007</b> , 46, 8436-9	16.4	185
835	Ion exchange as a way of controlling the chemical compositions of nano- and microparticles made from infinite coordination polymers. <i>Angewandte Chemie - International Edition</i> , <b>2006</b> , 45, 5492-4	16.4	185
834	Reversible and Chemically Programmable Micelle Assembly with DNA Block-Copolymer Amphiphiles. <i>Nano Letters</i> , <b>2004</b> , 4, 1055-1058	11.5	185
833	Dip-Pen Nanolithography: What Controls Ink Transport?. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 751-757	11.5	184
832	Fullerene self-assembly onto (MeO) <sub>3</sub> Si(CH <sub>2</sub> ) <sub>3</sub> NH <sub>2</sub> -modified oxide surfaces. <i>Journal of the American Chemical Society</i> , <b>1993</b> , 115, 1193-1194	16.4	184
831	Enzymnachbildungen auf der Basis supramolekularer Koordinationschemie. <i>Angewandte Chemie</i> , <b>2011</b> , 123, 118-142	3.6	182
830	Ni(III)/(IV) bis(dicarbollide) as a fast, noncorrosive redox shuttle for dye-sensitized solar cells. <i>Journal of the American Chemical Society</i> , <b>2010</b> , 132, 4580-2	16.4	181
829	Synthesis of silver nanorods by low energy excitation of spherical plasmonic seeds. <i>Nano Letters</i> , <b>2011</b> , 11, 2495-8	11.5	176

828	Signal amplification and detection via a supramolecular allosteric catalyst. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 1644-5	16.4	174
827	NanoFlares for the detection, isolation, and culture of live tumor cells from human blood. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 17104-9	11.5	173
826	"Dip-Pen" nanolithography on semiconductor surfaces. <i>Journal of the American Chemical Society</i> , <b>2001</b> , 123, 7887-9	16.4	171
825	Stepwise evolution of spherical seeds into 20-fold twinned icosahedra. <i>Science</i> , <b>2012</b> , 337, 954-7	33.3	169
824	Immunomodulatory spherical nucleic acids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2015</b> , 112, 3892-7	11.5	165
823	Arrays of Magnetic Nanoparticles Patterned via Dip-Pen Nanolithography. <i>Advanced Materials</i> , <b>2002</b> , 14, 231-234	24	165
822	Thin film, fullerene-based materials. <i>Tetrahedron</i> , <b>1996</b> , 52, 5113-5130	2.4	163
821	Rapid, large-volume, thermally controlled 3D printing using a mobile liquid interface. <i>Science</i> , <b>2019</b> , 366, 360-364	33.3	162
820	General and Direct Method for Preparing Oligonucleotide-Functionalized Metal-Organic Framework Nanoparticles. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 9827-9830	16.4	162
819	Multicomponent magnetic nanorods for biomolecular separations. <i>Angewandte Chemie - International Edition</i> , <b>2004</b> , 43, 3048-50	16.4	162
818	A bio-bar-code assay based upon dithiothreitol-induced oligonucleotide release. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 8174-8	7.8	161
817	Turning on catalysis: incorporation of a hydrogen-bond-donating squaramide moiety into a Zr metal-organic framework. <i>Journal of the American Chemical Society</i> , <b>2015</b> , 137, 919-25	16.4	159
816	Multimodal gadolinium-enriched DNA-gold nanoparticle conjugates for cellular imaging. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 9143-7	16.4	159
815	Universal noble metal nanoparticle seeds realized through iterative reductive growth and oxidative dissolution reactions. <i>Journal of the American Chemical Society</i> , <b>2014</b> , 136, 7603-6	16.4	158
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