Chad A Mirkin

List of Publications by Year
in descending order

933 papers	143,303 citations	90 168 h-index	100 352 g-index
1024 all docs	1024 docs citations	1024 times ranked	74500 citing authors

#	Article	IF	Citations
1	A DNA-based method for rationally assembling nanoparticles into macroscopic materials. Nature, 1996, 382, 607-609.	13.7	6,295
2	Nanostructures in Biodiagnostics. Chemical Reviews, 2005, 105, 1547-1562.	23.0	4,434
3	Selective Colorimetric Detection of Polynucleotides Based on the Distance-Dependent Optical Properties of Gold Nanoparticles. Science, 1997, 277, 1078-1081.	6.0	4,217
4	Photoinduced Conversion of Silver Nanospheres to Nanoprisms. Science, 2001, 294, 1901-1903.	6.0	3,222
5	Nanoparticles with Raman Spectroscopic Fingerprints for DNA and RNA Detection. Science, 2002, 297, 1536-1540.	6.0	2,997
6	"Dip-Pen" Nanolithography. Science, 1999, 283, 661-663.	6.0	2,945
7	Scanometric DNA Array Detection with Nanoparticle Probes. Science, 2000, 289, 1757-1760.	6.0	2,384
8	Nanoparticle-Based Bio-Bar Codes for the Ultrasensitive Detection of Proteins. Science, 2003, 301, 1884-1886.	6.0	2,354
9	One-Pot Colorimetric Differentiation of Polynucleotides with Single Base Imperfections Using Gold Nanoparticle Probes. Journal of the American Chemical Society, 1998, 120, 1959-1964.	6.6	2,204
10	Gold Nanoparticles for Biology and Medicine. Angewandte Chemie - International Edition, 2010, 49, 3280-3294.	7.2	2,096
11	Oligonucleotide-Modified Gold Nanoparticles for Intracellular Gene Regulation. Science, 2006, 312, 1027-1030.	6.0	1,838
12	Controlling anisotropic nanoparticle growth through plasmon excitation. Nature, 2003, 425, 487-490.	13.7	1,583
13	Strategies for the Construction of Supramolecular Compounds through Coordination Chemistry. Angewandte Chemie - International Edition, 2001, 40, 2022-2043.	7.2	1,516
14	DNA-programmable nanoparticle crystallization. Nature, 2008, 451, 553-556.	13.7	1,431
15	Colorimetric Detection of Mercuric Ion (Hg2+) in Aqueous Media using DNA-Functionalized Gold Nanoparticles. Angewandte Chemie - International Edition, 2007, 46, 4093-4096.	7.2	1,203
16	What Controls the Optical Properties of DNA-Linked Gold Nanoparticle Assemblies?. Journal of the American Chemical Society, 2000, 122, 4640-4650.	6.6	1,196
17	Protein Nanoarrays Generated By Dip-Pen Nanolithography. Science, 2002, 295, 1702-1705.	6.0	1,161
18	Programmable materials and the nature of the DNA bond. Science, 2015, 347, 1260901.	6.0	1,141

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19	Templated Techniques for the Synthesis and Assembly of Plasmonic Nanostructures. Chemical Reviews, 2011, 111, 3736-3827.	23.0	1,080
20	A Fluorescence-Based Method for Determining the Surface Coverage and Hybridization Efficiency of Thiol-Capped Oligonucleotides Bound to Gold Thin Films and Nanoparticles. Analytical Chemistry, 2000, 72, 5535-5541.	3.2	1,060
21	What Controls the Melting Properties of DNA-Linked Gold Nanoparticle Assemblies?. Journal of the American Chemical Society, 2003, 125, 1643-1654.	6.6	1,054
22	Programmed Materials Synthesis with DNA. Chemical Reviews, 1999, 99, 1849-1862.	23.0	1,038
23	Maximizing DNA Loading on a Range of Gold Nanoparticle Sizes. Analytical Chemistry, 2006, 78, 8313-8318.	3.2	1,019
24	Nanoparticle Superlattice Engineering with DNA. Science, 2011, 334, 204-208.	6.0	1,013
25	DNA-Programmable Nanoparticle Crystallization*. , 2020, , 515-525.		1,006
26	Spherical Nucleic Acids. Journal of the American Chemical Society, 2012, 134, 1376-1391.	6.6	947
27	Array-Based Electrical Detection of DNA with Nanoparticle Probes. Science, 2002, 295, 1503-1506.	6.0	930
28	The Evolution of Dip-Pen Nanolithography. Angewandte Chemie - International Edition, 2004, 43, 30-45.	7.2	877
29	Nanoparticle Probes for the Detection of Cancer Biomarkers, Cells, and Tissues by Fluorescence. Chemical Reviews, 2015, 115, 10530-10574.	23.0	864
30	Localized Surface Plasmon Resonance Spectroscopy of Single Silver Triangular Nanoprisms. Nano Letters, 2006, 6, 2060-2065.	4.5	859
31	Applications of dip-pen nanolithography. Nature Nanotechnology, 2007, 2, 145-155.	15.6	801
32	Colloidal Gold and Silver Triangular Nanoprisms. Small, 2009, 5, 646-664.	5.2	800
33	From The Cover: Nanoparticle-based detection in cerebral spinal fluid of a soluble pathogenic biomarker for Alzheimer's disease. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2273-2276.	3.3	790
34	Bio-Bar-Code-Based DNA Detection with PCR-like Sensitivity. Journal of the American Chemical Society, 2004, 126, 5932-5933.	6.6	750
35	Infinite coordination polymer nano- and microparticle structures. Chemical Society Reviews, 2009, 38, 1218.	18.7	748
36	Rationally designed nanostructures for surface-enhanced Raman spectroscopy. Chemical Society Reviews, 2008, 37, 885.	18.7	745

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37	Direct Patterning of Modified Oligonucleotides on Metals and Insulators by Dip-Pen Nanolithography. Science, 2002, 296, 1836-1838.	6.0	727
38	Observation of a Quadrupole Plasmon Mode for a Colloidal Solution of Gold Nanoprisms. Journal of the American Chemical Society, 2005, 127, 5312-5313.	6.6	721
39	Enzyme Mimics Based Upon Supramolecular Coordination Chemistry. Angewandte Chemie - International Edition, 2011, 50, 114-137.	7.2	697
40	Programmed Assembly of DNA Functionalized Quantum Dots. Journal of the American Chemical Society, 1999, 121, 8122-8123.	6.6	691
41	Drivers of biodiagnostic development. Nature, 2009, 462, 461-464.	13.7	683
42	DNA-Directed Synthesis of Binary Nanoparticle Network Materials. Journal of the American Chemical Society, 1998, 120, 12674-12675.	6.6	677
43	DNA-Modified Coreâ˜Shell Ag/Au Nanoparticles. Journal of the American Chemical Society, 2001, 123, 7961-7962.	6.6	665
44	Self-Assembly of Mesoscopic Metal-Polymer Amphiphiles. Science, 2004, 303, 348-351.	6.0	661
45	Nano-Flares:â€‰ Probes for Transfection and mRNA Detection in Living Cells. Journal of the American Chemical Society, 2007, 129, 15477-15479.	6.6	649
46	Spherical Nucleic Acids*. , 2020, , 91-136.		612
47	Chemically tailorable colloidal particles from infinite coordination polymers. Nature, 2005, 438, 651-654.	13.7	610
48	Defining Rules for the Shape Evolution of Gold Nanoparticles. Journal of the American Chemical Society, 2012, 134, 14542-14554.	6.6	609
49	DNA-nanoparticle superlattices formed from anisotropic building blocks. Nature Materials, 2010, 9, 913-917.	13.3	596
50	Gene Regulation with Polyvalent siRNAâ˜Nanoparticle Conjugates. Journal of the American Chemical Society, 2009, 131, 2072-2073.	6.6	574
51	Programming the Assembly of Two- and Three-Dimensional Architectures with DNA and Nanoscale Inorganic Building Blocks,. Inorganic Chemistry, 2000, 39, 2258-2272.	1.9	558
52	Synthesis of hexagonal close-packed gold nanostructures. Nature Communications, 2011, 2, 292.	5.8	553
53	Multiple Ink Nanolithography: Toward a Multiple-Pen Nano-Plotter. Science, 1999, 286, 523-525.	6.0	547
54	Rapid Thermal Synthesis of Silver Nanoprisms with Chemically Tailorable Thickness. Advanced Materials, 2005, 17, 412-415.	11.1	541

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55	Metalâ€“Organic Framework Nanoparticles. Advanced Materials, 2018, 30, e1800202.	11.1	539
56	The bio-barcode assay for the detection of protein and nucleic acid targets using DTT-induced ligand exchange. Nature Protocols, 2006, 1, 324-336.	5.5	536
57	Development of a Coordination Chemistry-Based Approach for Functional Supramolecular Structures. Accounts of Chemical Research, 2005, 38, 825-837.	7.6	530
58	Oligonucleotide Loading Determines Cellular Uptake of DNA-Modified Gold Nanoparticles. Nano Letters, 2007, 7, 3818-3821.	4.5	517
59	Concave Cubic Gold Nanocrystals with High-Index Facets. Journal of the American Chemical Society, 2010, 132, 14012-14014.	6.6	513
60	Polymer Pen Lithography. Science, 2008, 321, 1658-1660.	6.0	501
61	Observation of Surface-Induced Broken Time-Reversal Symmetry inYBa2Cu3O7Tunnel Junctions. Physical Review Letters, 1997, 79, 277-280.	2.9	492
62	Multisegmented One-Dimensional Nanorods Prepared by Hard-Template Synthetic Methods. Angewandte Chemie - International Edition, 2006, 45, 2672-2692.	7.2	492
63	Polyvalent DNA Nanoparticle Conjugates Stabilize Nucleic Acids. Nano Letters, 2009, 9, 308-311.	4.5	490
64	Polyvalent Oligonucleotide Gold Nanoparticle Conjugates as Delivery Vehicles for Platinum(IV) Warheads. Journal of the American Chemical Society, 2009, 131, 14652-14653.	6.6	481
65	Spherical Nucleic Acid Nanoparticle Conjugates as an RNAi-Based Therapy for Glioblastoma. Science Translational Medicine, 2013, 5, 209ra152.	5.8	478
66	A DNAâ”Gold Nanoparticle-Based Colorimetric Competition Assay for the Detection of Cysteine. Nano Letters, 2008, 8, 529-533.	4.5	459
67	Silver Nanoparticleâ”Oligonucleotide Conjugates Based on DNA with Triple Cyclic Disulfide Moieties. Nano Letters, 2007, 7, 2112-2115.	4.5	457
68	Homogeneous, Nanoparticle-Based Quantitative Colorimetric Detection of Oligonucleotides. Journal of the American Chemical Society, 2000, 122, 3795-3796.	6.6	455
69	Nanotechnologies for biomolecular detection and medical diagnostics. Current Opinion in Chemical Biology, 2006, 10, 11-19.	2.8	448
70	Raman Dye-Labeled Nanoparticle Probes for Proteins. Journal of the American Chemical Society, 2003, 125, 14676-14677.	6.6	446
71	Mechanism for the endocytosis of spherical nucleic acid nanoparticle conjugates. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 7625-7630.	3.3	446
72	The Role Radius of Curvature Plays in Thiolated Oligonucleotide Loading on Gold Nanoparticles. ACS Nano, 2009, 3, 418-424.	7.3	434

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73	Two-Color Labeling of Oligonucleotide Arrays via Size-Selective Scattering of Nanoparticle Probes. Journal of the American Chemical Society, 2001, 123, 5164-5165.	6.6	424
74	Designing, fabricating, and imaging Raman hot spots. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 13300-13303.	3.3	424
75	Sequence-Dependent Stability of DNA-Modified Gold Nanoparticles. Langmuir, 2002, 18, 6666-6670.	1.6	420
76	Multiplexed Detection of Protein Cancer Markers with Biobarcoded Nanoparticle Probes. Journal of the American Chemical Society, 2006, 128, 8378-8379.	6.6	409
77	Nucleic Acidâ€“Metal Organic Framework (MOF) Nanoparticle Conjugates. Journal of the American Chemical Society, 2014, 136, 7261-7264.	6.6	406
78	Conductive 2D metal-organic framework for high-performance cathodes in aqueous rechargeable zinc batteries. Nature Communications, 2019, 10, 4948.	5.8	398
79	DNA-mediated nanoparticle crystallization into Wulff polyhedra. Nature, 2014, 505, 73-77.	13.7	382
80	Iodide Ions Control Seed-Mediated Growth of Anisotropic Gold Nanoparticles. Nano Letters, 2008, 8, 2526-2529.	4.5	380
81	Nanoparticle-based bio-barcode assay redefines â€œundetectableâ€•PSA and biochemical recurrence after radical prostatectomy. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18437-18442.	3.3	378
82	On-Wire Lithography. Science, 2005, 309, 113-115.	6.0	377
83	Aptamer Nano-flares for Molecular Detection in Living Cells. Nano Letters, 2009, 9, 3258-3261.	4.5	371
84	Mechanistic Study of Photomediated Triangular Silver Nanoprism Growth. Journal of the American Chemical Society, 2008, 130, 8337-8344.	6.6	364
85	Topical delivery of siRNA-based spherical nucleic acid nanoparticle conjugates for gene regulation. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 11975-11980.	3.3	361
86	A Nanoplotter with Both Parallel and Serial Writing Capabilities. Science, 2000, 288, 1808-1811.	6.0	349
87	Carborane-based metalâ€“organic frameworks as highly selective sorbents for CO2 over methane. Chemical Communications, 2008, , 4135.	2.2	349
88	Advancing the speed, sensitivity and accuracy of biomolecular detection using multi-length-scale engineering. Nature Nanotechnology, 2014, 9, 969-980.	15.6	349
89	Protein Nanostructures Formed via Direct-Write Dip-Pen Nanolithography. Journal of the American Chemical Society, 2003, 125, 5588-5589.	6.6	348
90	Shape Control of Gold Nanoparticles by Silver Underpotential Deposition. Nano Letters, 2011, 11, 3394-3398.	4.5	341

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91	Heteroligated Supramolecular Coordination Complexes Formed via the Halide-Induced Ligand Rearrangement Reaction. Accounts of Chemical Research, 2008, 41, 1618-1629.	7.6	333
92	Polyelemental nanoparticle libraries. Science, 2016, 352, 1565-1569.	6.0	332
93	Multipole Plasmon Resonances in Gold Nanorods. Journal of Physical Chemistry B, 2006, 110, 2150-2154.	1.2	330
94	Multiple thiol-anchor capped DNA-gold nanoparticle conjugates. Nucleic Acids Research, 2002, 30, 1558-1562.	6.5	328
95	Asymmetric Functionalization of Gold Nanoparticles with Oligonucleotides. Journal of the American Chemical Society, 2006, 128, 9286-9287.	6.6	326
96	Colorimetric Nitrite and Nitrate Detection with Gold Nanoparticle Probes and Kinetic End Points. Journal of the American Chemical Society, 2009, 131, 6362-6363.	6.6	325
97	Gold nanoparticle probes for the detection of nucleic acid targets. Clinica Chimica Acta, 2006, 363, 120-126.	0.5	321
98	The Transition Metal Coordination Chemistry of Hemilabile Ligands. Progress in Inorganic Chemistry, 2007, , 233-350.	3.0	317
99	Scavenger Receptors Mediate Cellular Uptake of Polyvalent Oligonucleotide-Functionalized Gold Nanoparticles. Bioconjugate Chemistry, 2010, 21, 2250-2256.	1.8	317
100	Triangular Nanoframes Made of Gold and Silver. Nano Letters, 2003, 3, 519-522.	4.5	310
101	Making Sense of the Mayhem behind Shape Control in the Synthesis of Gold Nanoparticles. Journal of the American Chemical Society, 2013, 135, 18238-18247.	6.6	295
102	The DNA-Mediated Formation of Supramolecular Mono- and Multilayered Nanoparticle Structures. Journal of the American Chemical Society, 2000, 122, 6305-6306.	6.6	294
103	A coordination chemistry dichotomy for icosahedral carborane-based ligands. Nature Chemistry, 2011, 3, 590-596.	6.6	294
104	Surface organization and nanopatterning of collagen by dip-pen nanolithography. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13660-13664.	3.3	293
105	Allosteric Supramolecular Triple-Layer Catalysts. Science, 2010, 330, 66-69.	6.0	290
106	Three-Layer Composite Magnetic Nanoparticle Probes for DNA. Journal of the American Chemical Society, 2005, 127, 15362-15363.	6.6	289
107	Massively Parallel Dipâ€“Pen Nanolithography with 55â€‰000-Pen Two-Dimensional Arrays. Angewandte Chemie - International Edition, 2006, 45, 7220-7223.	7.2	289
108	Controlling the Edge Length of Gold Nanoprisms via a Seed-Mediated Approach. Advanced Functional Materials, 2006, 16, 1209-1214.	7.8	286

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109	A general approach to DNA-programmable atom equivalents. Nature Materials, 2013, 12, 741-746.	13.3	279
110	Accelerating the Translation of Nanomaterials in Biomedicine. ACS Nano, 2015, 9, 6644-6654.	7.3	279
111	Rapid, large-volume, thermally controlled 3D printing using a mobile liquid interface. Science, 2019, 366, 360-364.	6.0	275
112	Synthesis, Properties, and Gas Separation Studies of a Robust Diimide-Based Microporous Organic Polymer. Chemistry of Materials, 2009, 21, 3033-3035.	3.2	272
113	A Thermodynamic Investigation into the Binding Properties of DNA Functionalized Gold Nanoparticle Probes and Molecular Fluorophore Probes. Journal of the American Chemical Society, 2005, 127, 12754-12755.	6.6	271
114	Synthesis and Hydrogen Sorption Properties of Carborane Based Metalâ^'Organic Framework Materials. Journal of the American Chemical Society, 2007, 129, 12680-12681.	6.6	269
115	Hybrid Nanoparticles with Block Copolymer Shell Structures. Journal of the American Chemical Society, 1999, 121, 462-463.	6.6	268
116	Thermal Desorption Behavior and Binding Properties of DNA Bases and Nucleosides on Gold. Journal of the American Chemical Society, 2002, 124, 11248-11249.	6.6	264
117	Bio-Barcodes Based on Oligonucleotide-Modified Nanoparticles. Journal of the American Chemical Society, 2002, 124, 3820-3821.	6.6	263
118	Nano-flares for mRNA Regulation and Detection. ACS Nano, 2009, 3, 2147-2152.	7.3	263
119	Molecular Electronics. Annual Review of Physical Chemistry, 1992, 43, 719-754.	4.8	261
120	Multiplexed Nanoflares: mRNA Detection in Live Cells. Analytical Chemistry, 2012, 84, 2062-2066.	3.2	260
121	A Gold-Nanoparticle-Based Real-Time Colorimetric Screening Method for Endonuclease Activity and Inhibition. Angewandte Chemie - International Edition, 2007, 46, 3468-3470.	7.2	257
122	Optical Properties of One-, Two-, and Three-Dimensional Arrays of Plasmonic Nanostructures. Journal of Physical Chemistry C, 2016, 120, 816-830.	1.5	257
123	A Supramolecular Approach to an Allosteric Catalyst. Journal of the American Chemical Society, 2003, 125, 10508-10509.	6.6	253
124	Multiplexed DNA Detection with Biobarcoded Nanoparticle Probes. Angewandte Chemie - International Edition, 2006, 45, 3303-3306.	7.2	249
125	General and Direct Method for Preparing Oligonucleotide-Functionalized Metalâ€“Organic Framework Nanoparticles. Journal of the American Chemical Society, 2017, 139, 9827-9830.	6.6	245
126	Colorimetric Cu²⁺ Detection Using DNAâ€Modified Goldâ€Nanoparticle Aggregates as Probes and Click Chemistry. Small, 2010, 6, 623-626.	5.2	242

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127	Nanotechnology research directions for societal needs in 2020: summary of international study. Journal of Nanoparticle Research, 2011, 13, 897-919.	0.8	240
128	Electrostatically Driven Dip-Pen Nanolithography of Conducting Polymers. Advanced Materials, 2002, 14, 1474-1477.	11.1	238
129	The Use of Nanoarrays for Highly Sensitive and Selective Detection of Human Immunodeficiency Virus Type 1 in Plasma. Nano Letters, 2004, 4, 1869-1872.	4.5	237
130	Reversible Interconversion of Homochiral Triangular Macrocycles and Helical Coordination Polymers. Journal of the American Chemical Society, 2007, 129, 7712-7713.	6.6	235
131	DNA-Functionalized Metalâ€“Organic Framework Nanoparticles for Intracellular Delivery of Proteins. Journal of the American Chemical Society, 2019, 141, 2215-2219.	6.6	231
132	pH-Switchable Silver Nanoprism Growth Pathways. Angewandte Chemie - International Edition, 2007, 46, 2036-2038.	7.2	225
133	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. Journal of the American Chemical Society, 1995, 117, 6071-6082.	6.6	224
134	Massively Parallel Dip-Pen Nanolithography of Heterogeneous Supported Phospholipid Multilayer Patterns. Small, 2007, 3, 71-75.	5.2	218
135	Colorimetric Screening of DNA-Binding Molecules with Gold Nanoparticle Probes. Angewandte Chemie - International Edition, 2006, 45, 1807-1810.	7.2	216
136	Fullerene self-assembly onto (MeO)3Si(CH2)3NH2-modified oxide surfaces. Journal of the American Chemical Society, 1993, 115, 1193-1194.	6.6	213
137	Ligand Design for Electrochemically Controlling Stoichiometric and Catalytic Reactivity of Transition Metals. Angewandte Chemie - International Edition, 1998, 37, 894-908.	7.2	213
138	Direct-Write Dip-Pen Nanolithography of Proteins on Modified Silicon Oxide Surfaces. Angewandte Chemie - International Edition, 2003, 42, 2309-2312.	7.2	208
139	Reversible and Chemically Programmable Micelle Assembly with DNA Block-Copolymer Amphiphiles. Nano Letters, 2004, 4, 1055-1058.	4.5	208
140	Chip-Based Scanometric Detection of Mercuric Ion Using DNA-Functionalized Gold Nanoparticles. Analytical Chemistry, 2008, 80, 6805-6808.	3.2	206
141	Immunomodulatory spherical nucleic acids. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3892-3897.	3.3	205
142	Thin film, fullerene-based materials. Tetrahedron, 1996, 52, 5113-5130.	1.0	204
143	Controlling the shape, orientation, and linkage of carbon nanotube features with nano affinity templates. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2026-2031.	3.3	204
144	Plasmonâ€Ðriven Synthesis of Triangular Coreâ€“Shell Nanoprisms from Gold Seeds. Angewandte Chemie - International Edition, 2007, 46, 8436-8439.	7.2	202

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145	Nanotechnology Research Directions for Societal Needs in 2020. , 2011, , .		202
146	Intracellular Fate of Spherical Nucleic Acid Nanoparticle Conjugates. Journal of the American Chemical Society, 2014, 136, 7726-7733.	6.6	202
147	Universal Noble Metal Nanoparticle Seeds Realized Through Iterative Reductive Growth and Oxidative Dissolution Reactions. Journal of the American Chemical Society, 2014, 136, 7603-7606.	6.6	200
148	A bio-barcode assay for on-chip attomolar-sensitivity protein detection. Lab on A Chip, 2006, 6, 1293.	3.1	199
149	NanoFlares for the detection, isolation, and culture of live tumor cells from human blood. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17104-17109.	3.3	197
150	Building superlattices from individual nanoparticles via template-confined DNA-mediated assembly. Science, 2018, 359, 669-672.	6.0	195
151	Dip-Pen Nanolithography:â€‰ What Controls Ink Transport?. Journal of Physical Chemistry B, 2003, 107, 751-757.	1.2	193
152	Ion Exchange as a Way of Controlling the Chemical Compositions of Nano- and Microparticles Made from Infinite Coordination Polymers. Angewandte Chemie - International Edition, 2006, 45, 5492-5494.	7.2	193
153	Synthesis of Silver Nanorods by Low Energy Excitation of Spherical Plasmonic Seeds. Nano Letters, 2011, 11, 2495-2498.	4.5	192
154	Plasmon Length: A Universal Parameter to Describe Size Effects in Gold Nanoparticles. Journal of Physical Chemistry Letters, 2012, 3, 1479-1483.	2.1	191
155	Ni(III)/(IV) Bis(dicarbollide) as a Fast, Noncorrosive Redox Shuttle for Dye-Sensitized Solar Cells. Journal of the American Chemical Society, 2010, 132, 4580-4582.	6.6	190
156	siRNA-based spherical nucleic acids reverse impaired wound healing in diabetic mice by ganglioside GM3 synthase knockdown. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 5573-5578.	3.3	189
157	Stepwise Evolution of Spherical Seeds into 20-Fold Twinned Icosahedra. Science, 2012, 337, 954-957.	6.0	187
158	Turning On Catalysis: Incorporation of a Hydrogen-Bond-Donating Squaramide Moiety into a Zr Metalâ€“Organic Framework. Journal of the American Chemical Society, 2015, 137, 919-925.	6.6	186
159	â€œDip-Penâ€•Nanolithography on Semiconductor Surfaces. Journal of the American Chemical Society, 2001, 123, 7887-7889.	6.6	185
160	Signal Amplification and Detection via a Supramolecular Allosteric Catalyst. Journal of the American Chemical Society, 2005, 127, 1644-1645.	6.6	185
161	Role of Modulators in Controlling the Colloidal Stability and Polydispersity of the UiO-66 Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 33413-33418.	4.0	183
162	Plasmonâ€Mediated Syntheses of Metallic Nanostructures. Angewandte Chemie - International Edition, 2013, 52, 13910-13940.	7.2	182

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163	miR-182 integrates apoptosis, growth, and differentiation programs in glioblastoma. Genes and Development, 2015, 29, 732-745.	2.7	182
164	Arrays of Magnetic Nanoparticles Patterned via â€œDip-Penâ€•Nanolithography. Advanced Materials, 2002, 14, 231-234.	11.1	179
165	Crystal engineering with DNA. Nature Reviews Materials, 2019, 4, 201-224.	23.3	178
166	A modular microfluidic architecture for integrated biochemical analysis. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 9745-9750.	3.3	177
167	Photomediated Synthesis of Silver Triangular Bipyramids and Prisms: The Effect of pH and BSPP. Journal of the American Chemical Society, 2010, 132, 12502-12510.	6.6	176
168	Multimodal Gadoliniumâ€Enriched DNAâ€“Gold Nanoparticle Conjugates for Cellular Imaging. Angewandte Chemie - International Edition, 2009, 48, 9143-9147.	7.2	174
169	Multicomponent Magnetic Nanorods for Biomolecular Separations. Angewandte Chemie - International Edition, 2004, 43, 3048-3050.	7.2	172
170	Fabrication of Sub-50-nm Solid-State Nanostructures on the Basis of Dip-Pen Nanolithography. Nano Letters, 2003, 3, 43-45.	4.5	171
171	Interface and heterostructure design in polyelemental nanoparticles. Science, 2019, 363, 959-964.	6.0	171
172	Molecular printing. Nature Chemistry, 2009, 1, 353-358.	6.6	170
173	Color My Nanoworld. Journal of Chemical Education, 2004, 81, 544A.	1.1	169
174	Nanoscale form dictates mesoscale function in plasmonic DNAâ€“nanoparticle superlattices. Nature Nanotechnology, 2015, 10, 453-458.	15.6	169
175	A Bio-Bar-Code Assay Based upon Dithiothreitol-Induced Oligonucleotide Release. Analytical Chemistry, 2005, 77, 8174-8178.	3.2	168
176	Liposomal Spherical Nucleic Acids. Journal of the American Chemical Society, 2014, 136, 9866-9869.	6.6	167
177	Beam pen lithography. Nature Nanotechnology, 2010, 5, 637-640.	15.6	165
178	Microarray-Based Multiplexed Scanometric Immunoassay for Protein Cancer Markers Using Gold Nanoparticle Probes. Analytical Chemistry, 2009, 81, 9183-9187.	3.2	164
179	Nanopatterning the Chemospecific Immobilization of Cowpea Mosaic Virus Capsid. Nano Letters, 2003, 3, 883-886.	4.5	163
180	Clathrate colloidal crystals. Science, 2017, 355, 931-935.	6.0	162

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181	Dynamic Interconversion of Amorphous Microparticles and Crystalline Rods in Salen-Based Homochiral Infinite Coordination Polymers. Journal of the American Chemical Society, 2007, 129, 7480-7481.	6.6	161
182	Hard-tip, soft-spring lithography. Nature, 2011, 469, 516-520.	13.7	161
183	Self-assembled monolayer films of fullerene C60 on cysteamine-modified gold. Langmuir, 1993, 9, 1945-1947.	1.6	160
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