Chun-Hai Fan

List of Publications by Citations

731 papers	56,000 citations	118 h-index	214 g-index
801 ext. papers	63,410 ext. citations	10.9 avg, IF	7.82 L-index

#	Paper	IF	Citations
731	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
730	Graphene-based antibacterial paper. *ACS Nano*, **2010**, 4, 4317-23	16.7	1540
729	A Graphene Nanoprobe for Rapid, Sensitive, and Multicolor Fluorescent DNA Analysis. *Advanced Functional Materials*, **2010**, 20, 453-459	15.6	1234
728	Destructive extraction of phospholipids from Escherichia coli membranes by graphene nanosheets. *Nature Nanotechnology*, **2013**, 8, 594-601	28.7	1008
727	Aptamer-based biosensors. *TrAC - Trends in Analytical Chemistry*, **2008**, 27, 108-117	14.6	930
726	Electrochemical interrogation of conformational changes as a reagentless method for the sequence-specific detection of DNA. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 9134-7	11.5	915
725	Single-layer MoS2-based nanoprobes for homogeneous detection of biomolecules. *Journal of the American Chemical Society*, **2013**, 135, 5998-6001	16.4	874
724	Isothermal Amplification of Nucleic Acids. *Chemical Reviews*, **2015**, 115, 12491-545	68.1	865
723	Protein corona-mediated mitigation of cytotoxicity of graphene oxide. *ACS Nano*, **2011**, 5, 3693-700	16.7	724
722	Target-responsive structural switching for nucleic acid-based sensors. *Accounts of Chemical Research*, **2010**, 43, 631-41	24.3	655
721	Distribution and biocompatibility studies of graphene oxide in mice after intravenous administration. *Carbon*, **2011**, 49, 986-995	10.4	570
720	Self-assembled multivalent DNA nanostructures for noninvasive intracellular delivery of immunostimulatory CpG oligonucleotides. *ACS Nano*, **2011**, 5, 8783-9	16.7	555
719	The cytotoxicity of cadmium-based quantum dots. *Biomaterials*, **2012**, 33, 1238-44	15.6	543
718	A target-responsive electrochemical aptamer switch (TREAS) for reagentless detection of nanomolar ATP. *Journal of the American Chemical Society*, **2007**, 129, 1042-3	16.4	526
717	Functional nanoprobes for ultrasensitive detection of biomolecules. *Chemical Society Reviews*, **2010**, 39, 4234-43	58.5	492
716	Beyond superquenching: hyper-efficient energy transfer from conjugated polymers to gold nanoparticles. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 6297-301	11.5	469
715	DNA Nanotechnology-Enabled Drug Delivery Systems. *Chemical Reviews*, **2019**, 119, 6459-6506	68.1	447

714	A graphene-based fluorescent nanoprobe for silver(I) ions detection by using graphene oxide and a silver-specific oligonucleotide. *Chemical Communications*, **2010**, 46, 2596-8	5.8	432
713	Self-catalyzed, self-limiting growth of glucose oxidase-mimicking gold nanoparticles. *ACS Nano*, **2010**, 4, 7451-8	16.7	416
712	A DNA nanostructure-based biomolecular probe carrier platform for electrochemical biosensing. *Advanced Materials*, **2010**, 22, 4754-8	24	404
711	Hybridization chain reaction amplification of microRNA detection with a tetrahedral DNA nanostructure-based electrochemical biosensor. *Analytical Chemistry*, **2014**, 86, 2124-30	7.8	392
710	Highly sensitive electrochemical sensor for mercury(II) ions by using a mercury-specific oligonucleotide probe and gold nanoparticle-based amplification. *Analytical Chemistry*, **2009**, 81, 7660-6	7.8	391
709	Sequence-specific detection of femtomolar DNA via a chronocoulometric DNA sensor (CDS): effects of nanoparticle-mediated amplification and nanoscale control of DNA assembly at electrodes. *Journal of the American Chemical Society*, **2006**, 128, 8575-80	16.4	389
708	Silicon nanomaterials platform for bioimaging, biosensing, and cancer therapy. *Accounts of Chemical Research*, **2014**, 47, 612-23	24.3	382
707	An enzyme-based E-DNA sensor for sequence-specific detection of femtomolar DNA targets. *Journal of the American Chemical Society*, **2008**, 130, 6820-5	16.4	379
706	A gold nanoparticle-based chronocoulometric DNA sensor for amplified detection of DNA. *Nature Protocols*, **2007**, 2, 2888-95	18.8	379
705	A Gold Nanoparticle-Based Aptamer Target Binding Readout for ATP Assay. *Advanced Materials*, **2007**, 19, 3943-3946	24	375
704	Designed diblock oligonucleotide for the synthesis of spatially isolated and highly hybridizable functionalization of DNA-gold nanoparticle nanoconjugates. *Journal of the American Chemical Society*, **2012**, 134, 11876-9	16.4	367
703	Visual cocaine detection with gold nanoparticles and rationally engineered aptamer structures. *Small*, **2008**, 4, 1196-200	11	365
702	Gold-nanoparticle-based multicolor nanobeacons for sequence-specific DNA analysis. *Angewandte Chemie - International Edition*, **2009**, 48, 8670-4	16.4	351
701	Unmodified gold nanoparticles as a colorimetric probe for potassium DNA aptamers. *Chemical Communications*, **2006**, 3780-2	5.8	350
700	Single-particle tracking and modulation of cell entry pathways of a tetrahedral DNA nanostructure in live cells. *Angewandte Chemie - International Edition*, **2014**, 53, 7745-50	16.4	326
699	Smart drug delivery nanocarriers with self-assembled DNA nanostructures. *Advanced Materials*, **2013**, 25, 4386-96	24	313
698	Reconfigurable three-dimensional DNA nanostructures for the construction of intracellular logic sensors. *Angewandte Chemie - International Edition*, **2012**, 51, 9020-4	16.4	309
697	Optical Detection of Mercury(II) in Aqueous Solutions by Using Conjugated Polymers and Label-Free Oligonucleotides. *Advanced Materials*, **2007**, 19, 1471-1474	24	308

696	Functional DNA nanostructures for theranostic applications. *Accounts of Chemical Research*, **2014**, 47, 550-9	24.3	306
695	High-efficiency fluorescence quenching of conjugated polymers by proteins. *Journal of the American Chemical Society*, **2002**, 124, 5642-3	16.4	290
694	Lab in a tube: ultrasensitive detection of microRNAs at the single-cell level and in breast cancer patients using quadratic isothermal amplification. *Journal of the American Chemical Society*, **2013**, 135, 4604-7	16.4	284
693	The cytotoxicity of cadmium based, aqueous phase - synthesized, quantum dots and its modulation by surface coating. *Biomaterials*, **2009**, 30, 19-25	15.6	281
692	The biocompatibility of nanodiamonds and their application in drug delivery systems. *Theranostics*, **2012**, 2, 302-12	12.1	274
691	Catalytic gold nanoparticles for nanoplasmonic detection of DNA hybridization. *Angewandte Chemie - International Edition*, **2011**, 50, 11994-8	16.4	268
690	Programmable engineering of a biosensing interface with tetrahedral DNA nanostructures for ultrasensitive DNA detection. *Angewandte Chemie - International Edition*, **2015**, 54, 2151-5	16.4	264
689	An Exonuclease III-Powered, On-Particle Stochastic DNA Walker. *Angewandte Chemie - International Edition*, **2017**, 56, 1855-1858	16.4	248
688	Laundering durability of superhydrophobic cotton fabric. *Advanced Materials*, **2010**, 22, 5473-7	24	243
687	Intracellular imaging with a graphene-based fluorescent probe. *Small*, **2010**, 6, 1686-92	11	243
686	Microwave Synthesis of Water-Dispersed CdTe/CdS/ZnS Core-Shell-Shell Quantum Dots with Excellent Photostability and Biocompatibility. *Advanced Materials*, **2008**, 20, 3416-3421	24	239
685	Electrochemical detection of nucleic acids, proteins, small molecules and cells using a DNA-nanostructure-based universal biosensing platform. *Nature Protocols*, **2016**, 11, 1244-63	18.8	234
684	Complex silica composite nanomaterials templated with DNA origami. *Nature*, **2018**, 559, 593-598	50.4	233
683	The cytotoxicity of CdTe quantum dots and the relative contributions from released cadmium ions and nanoparticle properties. *Biomaterials*, **2010**, 31, 4829-34	15.6	233
682	Silicon nanostructures for bioapplications. *Nano Today*, **2010**, 5, 282-295	17.9	227
681	Silicon nanowires-based highly-efficient SERS-active platform for ultrasensitive DNA detection. *Nano Today*, **2011**, 6, 122-130	17.9	224
680	Long-term antimicrobial effect of silicon nanowires decorated with silver nanoparticles. *Advanced Materials*, **2010**, 22, 5463-7	24	220
679	Ultrasensitive, multiplexed detection of cancer biomarkers directly in serum by using a quantum dot-based microfluidic protein chip. *ACS Nano*, **2010**, 4, 488-94	16.7	219

678	Silicon-nanowire-based CMOS-compatible field-effect transistor nanosensors for ultrasensitive electrical detection of nucleic acids. *Nano Letters*, **2011**, 11, 3974-8	11.5	218
677	Single-step rapid assembly of DNA origami nanostructures for addressable nanoscale bioreactors. *Journal of the American Chemical Society*, **2013**, 135, 696-702	16.4	213
676	DNA nanostructure-decorated surfaces for enhanced aptamer-target binding and electrochemical cocaine sensors. *Analytical Chemistry*, **2011**, 83, 7418-23	7.8	211
675	Nanoparticle PCR: nanogold-assisted PCR with enhanced specificity. *Angewandte Chemie - International Edition*, **2005**, 44, 5100-3	16.4	211
674	A graphene-enhanced molecular beacon for homogeneous DNA detection. *Nanoscale*, **2010**, 2, 1021-6	7.7	206
673	Aptamer-based multicolor fluorescent gold nanoprobes for multiplex detection in homogeneous solution. *Small*, **2010**, 6, 201-4	11	205
672	Electrochemical interrogation of DNA monolayers on gold surfaces. *Analytical Chemistry*, **2005**, 77, 6475-80	7.8	204
671	A graphene-based sensor array for high-precision and adaptive target identification with ensemble aptamers. *Journal of the American Chemical Society*, **2012**, 134, 13843-9	16.4	196
670	Graphene oxide-facilitated electron transfer of metalloproteins at electrode surfaces. *Langmuir*, **2010**, 26, 1936-9	4	194
669	Imaging of Colorectal Cancers Using Activatable Nanoprobes with Second Near-Infrared Window Emission. *Angewandte Chemie - International Edition*, **2018**, 57, 3626-3630	16.4	192
668	Engineering nucleic acid structures for programmable molecular circuitry and intracellular biocomputation. *Nature Chemistry*, **2017**, 9, 1056-1067	17.6	186
667	Creating SERS hot spots on MoS(2) nanosheets with in situ grown gold nanoparticles. *ACS Applied Materials & Interfaces*, **2014**, 6, 18735-41	9.5	185
666	DNA origami nanostructures can exhibit preferential renal uptake and alleviate acute kidney injury. *Nature Biomedical Engineering*, **2018**, 2, 865-877	19	184
665	Gold nanoparticle-decorated MoS2 nanosheets for simultaneous detection of ascorbic acid, dopamine and uric acid. *RSC Advances*, **2014**, 4, 27625	3.7	180
664	Graphene on Au(111): a highly conductive material with excellent adsorption properties for high-resolution bio/nanodetection and identification. *ChemPhysChem*, **2010**, 11, 585-9	3.2	180
663	Designable ultra-smooth ultra-thin solid-electrolyte interphases of three alkali metal anodes. *Nature Communications*, **2018**, 9, 1339	17.4	179
662	Electrochemically controlled formation and growth of hydrogen nanobubbles. *Langmuir*, **2006**, 22, 8109-13	4	179
661	Photo and pH stable, highly-luminescent silicon nanospheres and their bioconjugates for immunofluorescent cell imaging. *Journal of the American Chemical Society*, **2009**, 131, 4434-8	16.4	176

660	Development of electrochemical immunosensors towards point of care diagnostics. *Biosensors and Bioelectronics*, **2013**, 47, 1-11	11.8	175
659	Graphene oxide-based antibacterial cotton fabrics. *Advanced Healthcare Materials*, **2013**, 2, 1259-66	10.1	173
658	Graphene-based high-efficiency surface-enhanced Raman scattering-active platform for sensitive and multiplex DNA detection. *Analytical Chemistry*, **2012**, 84, 4622-7	7.8	169
657	Electron-transfer reactivity and enzymatic activity of hemoglobin in a SP Sephadex membrane. *Analytical Chemistry*, **2001**, 73, 2850-4	7.8	169
656	Functional nanoprobes for ultrasensitive detection of biomolecules: an update. *Chemical Society Reviews*, **2014**, 43, 1601-11	58.5	166
655	Nanoscale optical probes for cellular imaging. *Chemical Society Reviews*, **2014**, 43, 2650-61	58.5	166
654	Polyvalent immunostimulatory nanoagents with self-assembled CpG oligonucleotide-conjugated gold nanoparticles. *Angewandte Chemie - International Edition*, **2012**, 51, 1202-6	16.4	166
653	DNAzyme-based rolling-circle amplification DNA machine for ultrasensitive analysis of microRNA in Drosophila larva. *Analytical Chemistry*, **2012**, 84, 7664-9	7.8	162
652	Multicolor Gold-Silver Nano-Mushrooms as Ready-to-Use SERS Probes for Ultrasensitive and Multiplex DNA/miRNA Detection. *Analytical Chemistry*, **2017**, 89, 2531-2538	7.8	161
651	DNA Nanostructure-based Interfacial engineering for PCR-free ultrasensitive electrochemical analysis of microRNA. *Scientific Reports*, **2012**, 2, 867	4.9	161
650	Nanomaterials-based sensors for applications in environmental monitoring. *Journal of Materials Chemistry*, **2012**, 22, 18101		160
649	Enhanced sensing of nucleic acids with silicon nanowire field effect transistor biosensors. *Nano Letters*, **2012**, 12, 5262-8	11.5	158
648	In vivo distribution, pharmacokinetics, and toxicity of aqueous synthesized cadmium-containing quantum dots. *Biomaterials*, **2011**, 32, 5855-62	15.6	157
647	Fluorescent biosensors enabled by graphene and graphene oxide. *Biosensors and Bioelectronics*, **2017**, 89, 96-106	11.8	155
646	Fluorescent In Situ Targeting Probes for Rapid Imaging of Ovarian-Cancer-Specific Glutamyltranspeptidase. *Angewandte Chemie - International Edition*, **2015**, 54, 7349-53	16.4	155
645	A dumbbell probe-mediated rolling circle amplification strategy for highly sensitive microRNA detection. *Nucleic Acids Research*, **2010**, 38, e156	20.1	155
644	Metal ion-modulated graphene-DNAzyme interactions: design of a nanoprobe for fluorescent detection of lead(II) ions with high sensitivity, selectivity and tunable dynamic range. *Chemical Communications*, **2011**, 47, 6278-80	5.8	155
643	Nanomaterial-Based Fluorescent DNA Analysis: A Comparative Study of the Quenching Effects of Graphene Oxide, Carbon Nanotubes, and Gold Nanoparticles. *Advanced Functional Materials*, **2013**, 23, 4140-4148	15.6	154

642	Multicomponent Plasmonic Nanoparticles: From Heterostructured Nanoparticles to Colloidal Composite Nanostructures. *Chemical Reviews*, **2019**, 119, 12208-12278	68.1	153
641	Ultrastable, highly fluorescent, and water-dispersed silicon-based nanospheres as cellular probes. *Angewandte Chemie - International Edition*, **2009**, 48, 128-32	16.4	152
640	Visible Light Driven Photoelectrochemical Water Oxidation by Zn- and Ti-Doped Hematite Nanostructures. *ACS Catalysis*, **2014**, 4, 2006-2015	13.1	150
639	Radiation induced reduction: an effective and clean route to synthesize functionalized graphene. *Journal of Materials Chemistry*, **2012**, 22, 7775		149
638	Stable Nanocomposite Based on PEGylated and Silver Nanoparticles Loaded Graphene Oxide for Long-Term Antibacterial Activity. *ACS Applied Materials & Interfaces*, **2017**, 9, 15328-15341	9.5	147
637	DNA Hydrogel with Aptamer-Toehold-Based Recognition, Cloaking, and Decloaking of Circulating Tumor Cells for Live Cell Analysis. *Nano Letters*, **2017**, 17, 5193-5198	11.5	144
636	Uniform ultrasmall graphene oxide nanosheets with low cytotoxicity and high cellular uptake. *ACS Applied Materials & Interfaces*, **2013**, 5, 1761-7	9.5	143
635	Adenosine detection by using gold nanoparticles and designed aptamer sequences. *Analyst, The*, **2009**, 134, 1355-60	5	143
634	Flexible carbon nanotube-polymer composite films with high conductivity and superhydrophobicity made by solution process. *Nano Letters*, **2008**, 8, 4454-8	11.5	143
633	Design of a gold nanoprobe for rapid and portable mercury detection with the naked eye. *Chemical Communications*, **2008**, 4885-7	5.8	139
632	Electrochemical DNA Biosensor Based on a Tetrahedral Nanostructure Probe for the Detection of Avian Influenza A (H7N9) Virus. *ACS Applied Materials & Interfaces*, **2015**, 7, 8834-42	9.5	138
631	Direct electrochemistry of glucose oxidase and a biosensor for glucose based on a glass carbon electrode modified with MoS2 nanosheets decorated with gold nanoparticles. *Mikrochimica Acta*, **2014**, 181, 1497-1503	5.8	134
630	A graphene-conjugated oligomer hybrid probe for light-up sensing of lectin and Escherichia coli. *Advanced Materials*, **2011**, 23, 4386-91	24	132
629	Dietary Iron Oxide Nanoparticles Delay Aging and Ameliorate Neurodegeneration in Drosophila. *Advanced Materials*, **2016**, 28, 1387-93	24	132
628	Ultrasensitive electrochemical detection of prostate-specific antigen by using antibodies anchored on a DNA nanostructural scaffold. *Analytical Chemistry*, **2014**, 86, 7337-42	7.8	131
627	Dual-mode electrochemical analysis of microRNA-21 using gold nanoparticle-decorated MoS nanosheet. *Biosensors and Bioelectronics*, **2017**, 94, 552-559	11.8	130
626	COVID-19: A Call for Physical Scientists and Engineers. *ACS Nano*, **2020**, 14, 3747-3754	16.7	129
625	Design of a carbon nanotube/magnetic nanoparticle-based peroxidase-like nanocomplex and its application for highly efficient catalytic oxidation of phenols. *Nano Research*, **2009**, 2, 617-623	10	129

624	Multivalent capture and detection of cancer cells with DNA nanostructured biosensors and multibranched hybridization chain reaction amplification. *Analytical Chemistry*, **2014**, 86, 7843-8	7.8	128
623	Dual-Target Electrochemical Biosensing Based on DNA Structural Switching on Gold Nanoparticle-Decorated MoS2 Nanosheets. *ACS Applied Materials & Interfaces*, **2016**, 8, 6826-33	9.5	128
622	Nanoplasmonic imaging of latent fingerprints and identification of cocaine. *Angewandte Chemie - International Edition*, **2013**, 52, 11542-5	16.4	127
621	Carbon nanotube-based ultrasensitive multiplexing electrochemical immunosensor for cancer biomarkers. *Biosensors and Bioelectronics*, **2011**, 30, 93-9	11.8	127
620	Programmable and printable Bacillus subtilis biofilms as engineered living materials. *Nature Chemical Biology*, **2019**, 15, 34-41	11.7	127
619	Organelle-Specific Triggered Release of Immunostimulatory Oligonucleotides from Intrinsically Coordinated DNA-Metal-Organic Frameworks with Soluble Exoskeleton. *Journal of the American Chemical Society*, **2017**, 139, 15784-15791	16.4	125
618	DNA-conjugated quantum dot nanoprobe for high-sensitivity fluorescent detection of DNA and micro-RNA. *ACS Applied Materials & Interfaces*, **2014**, 6, 1152-7	9.5	124
617	Concept and Development of Framework Nucleic Acids. *Journal of the American Chemical Society*, **2018**, 140, 17808-17819	16.4	124
616	Highly Sensitive Diagnosis of Small Hepatocellular Carcinoma Using pH-Responsive Iron Oxide Nanocluster Assemblies. *Journal of the American Chemical Society*, **2018**, 140, 10071-10074	16.4	122
615	Biosensors based on binding-modulated donor-acceptor distances. *Trends in Biotechnology*, **2005**, 23, 186-92	15.1	121
614	Solving mazes with single-molecule DNA navigators. *Nature Materials*, **2019**, 18, 273-279	27	121
613	DNA nanotechnology-enabled biosensors. *Biosensors and Bioelectronics*, **2016**, 76, 68-79	11.8	118
612	Water-dispersed near-infrared-emitting quantum dots of ultrasmall sizes for in vitro and in vivo imaging. *Angewandte Chemie - International Edition*, **2011**, 50, 5695-8	16.4	118
611	Enzyme-Based Multi-Component Optical Nanoprobes for Sequence- Specific Detection of DNA Hybridization. *Advanced Materials*, **2008**, 20, 497-500	24	118
610	Real-time visualization of clustering and intracellular transport of gold nanoparticles by correlative imaging. *Nature Communications*, **2017**, 8, 15646	17.4	116
609	Integration of Switchable DNA-Based Hydrogels with Surfaces by the Hybridization Chain Reaction. *Nano Letters*, **2015**, 15, 7773-8	11.5	115
608	A DNA-Origami chip platform for label-free SNP genotyping using toehold-mediated strand displacement. *Small*, **2010**, 6, 1854-8	11	115
607	Hydrogen Sulfide-Activatable Second Near-Infrared Fluorescent Nanoassemblies for Targeted Photothermal Cancer Therapy. *Nano Letters*, **2018**, 18, 6411-6416	11.5	115

606	Target-responsive, DNA nanostructure-based E-DNA sensor for microRNA analysis. *Analytical Chemistry*, **2014**, 86, 2285-8	7.8	112
605	DNA-directed assembly of gold nanohalo for quantitative plasmonic imaging of single-particle catalysis. *Journal of the American Chemical Society*, **2015**, 137, 4292-5	16.4	111
604	Multiple-Armed Tetrahedral DNA Nanostructures for Tumor-Targeting, Dual-Modality in Vivo Imaging. *ACS Applied Materials & Interfaces*, **2016**, 8, 4378-84	9.5	110
603	Rolling circle amplification-based DNA origami nanostructrures for intracellular delivery of immunostimulatory drugs. *Small*, **2013**, 9, 3082-7	11	109
602	Clamped Hybridization Chain Reactions for the Self-Assembly of Patterned DNA Hydrogels. *Angewandte Chemie - International Edition*, **2017**, 56, 2171-2175	16.4	107
601	Framework nucleic acids as programmable carrier for transdermal drug delivery. *Nature Communications*, **2019**, 10, 1147	17.4	106
600	Molecular logic gates on DNA origami nanostructures for microRNA diagnostics. *Analytical Chemistry*, **2014**, 86, 1932-6	7.8	106
599	Design of an oligonucleotide-incorporated nonfouling surface and its application in electrochemical DNA sensors for highly sensitive and sequence-specific detection of target DNA. *Analytical Chemistry*, **2008**, 80, 9029-33	7.8	105
598	Gold nanostructures encoded by non-fluorescent small molecules in polyA-mediated nanogaps as universal SERS nanotags for recognizing various bioactive molecules. *Chemical Science*, **2014**, 5, 4460-4466	9.4	104
597	DNA nanostructures coordinate gene silencing in mature plants. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7543-7548	11.5	103
596	Universal Fluorescence Biosensor Platform Based on Graphene Quantum Dots and Pyrene-Functionalized Molecular Beacons for Detection of MicroRNAs. *ACS Applied Materials & Interfaces*, **2015**, 7, 16152-6	9.5	102
595	Biodistribution and pulmonary toxicity of intratracheally instilled graphene oxide in mice. *NPG Asia Materials*, **2013**, 5, e44-e44	10.3	102
594	DNA Nanostructure-Programmed Like-Charge Attraction at the Cell-Membrane Interface. *ACS Central Science*, **2018**, 4, 1344-1351	16.8	102
593	Direct Electrochemistry and Enhanced Catalytic Activity for Hemoglobin in a Sodium Montmorillonite Film. *Electroanalysis*, **2000**, 12, 1156-1158	3	98
592	Gold nanoparticles for high-throughput genotyping of long-range haplotypes. *Nature Nanotechnology*, **2011**, 6, 639-44	28.7	97
591	Magnetically assisted DNA assays: high selectivity using conjugated polymers for amplified fluorescent transduction. *Nucleic Acids Research*, **2005**, 33, e83	20.1	97
590	DNA origami. *Nature Reviews Methods Primers*, **2021**, 1,		96
589	Scaffolded biosensors with designed DNA nanostructures. *NPG Asia Materials*, **2013**, 5, e51-e51	10.3	94

588	A graphene oxide-based nano-beacon for DNA phosphorylation analysis. *Chemical Communications*, **2011**, 47, 1201-3	5.8	94
587	An electrochemical sensor for pesticide assays based on carbon nanotube-enhanced acetycholinesterase activity. *Analyst, The*, **2008**, 133, 1182-6	5	94
586	Growth and origami folding of DNA on nanoparticles for high-efficiency molecular transport in cellular imaging and drug delivery. *Angewandte Chemie - International Edition*, **2015**, 54, 2431-5	16.4	93
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584	Folding super-sized DNA origami with scaffold strands from long-range PCR. *Chemical Communications*, **2012**,	5.8	93
583	Analogic China map constructed by DNA. *Science Bulletin*, **2006**, 51, 2973-2976		93
582	Target-triggered three-way junction structure and polymerase/nicking enzyme synergetic isothermal quadratic DNA machine for highly specific, one-step, and rapid microRNA detection at attomolar level. *Analytical Chemistry*, **2014**, 86, 8098-105	7.8	92
581	An Intelligent DNA Nanorobot with Enhanced Protein Lysosomal Degradation of HER2. *Nano Letters*, **2019**, 19, 4505-4517	11.5	91
580	Clicking DNA to gold nanoparticles: poly-adenine-mediated formation of monovalent DNA-gold nanoparticle conjugates with nearly quantitative yield. *NPG Asia Materials*, **2015**, 7, e159-e159	10.3	91
579	DNA nanostructure-based universal microarray platform for high-efficiency multiplex bioanalysis in biofluids. *ACS Applied Materials & Interfaces*, **2014**, 6, 17944-53	9.5	91
578	Regenerable electrochemical immunological sensing at DNA nanostructure-decorated gold surfaces. *Chemical Communications*, **2011**, 47, 6254-6	5.8	90
577	PolyA-Mediated DNA Assembly on Gold Nanoparticles for Thermodynamically Favorable and Rapid Hybridization Analysis. *Analytical Chemistry*, **2016**, 88, 4949-54	7.8	90
576	Simultaneous isolation and detection of circulating tumor cells with a microfluidic silicon-nanowire-array integrated with magnetic upconversion nanoprobes. *Biomaterials*, **2015**, 54, 55-62	15.6	89
575	Charge transport within a three-dimensional DNA nanostructure framework. *Journal of the American Chemical Society*, **2012**, 134, 13148-51	16.4	89
574	Silicon nanowire-based molecular beacons for high-sensitivity and sequence-specific DNA multiplexed analysis. *ACS Nano*, **2012**, 6, 2582-90	16.7	89
573	Gold-nanoparticle-mediated jigsaw-puzzle-like assembly of supersized plasmonic DNA origami. *Angewandte Chemie - International Edition*, **2015**, 54, 2966-9	16.4	88
572	Programming nanoparticle valence bonds with single-stranded DNA encoders. *Nature Materials*, **2020**, 19, 781-788	27	88
571	A bubble-mediated intelligent microscale electrochemical device for single-step quantitative bioassays. *Advanced Materials*, **2014**, 26, 4671-6	24	87

570	Facile Synthesis of a MoS-Prussian Blue Nanocube Nanohybrid-Based Electrochemical Sensing Platform for Hydrogen Peroxide and Carcinoembryonic Antigen Detection. *ACS Applied Materials & Interfaces*, **2017**, 9, 12773-12781	9.5	86
569	A carbon nanotube-based high-sensitivity electrochemical immunosensor for rapid and portable detection of clenbuterol. *Biosensors and Bioelectronics*, **2011**, 28, 308-13	11.8	86
568	A reagentless nitric oxide biosensor based on hemoglobinDNA films. *Analytica Chimica Acta*, **2000**, 423, 95-100	6.6	86
567	One-Shot Immunomodulatory Nanodiamond Agents for Cancer Immunotherapy. *Advanced Materials*, **2016**, 28, 2699-708	24	85
566	Rational design of pH-controlled DNA strand displacement. *Journal of the American Chemical Society*, **2014**, 136, 16469-72	16.4	85
565	Structural DNA nanotechnology for intelligent drug delivery. *Small*, **2014**, 10, 4626-35	11	85
564	Programming Cell Adhesion for On-Chip Sequential Boolean Logic Functions. *Journal of the American Chemical Society*, **2017**, 139, 10176-10179	16.4	85
563	Reconfigurable Three-Dimensional DNA Nanostructures for the Construction of Intracellular Logic Sensors. *Angewandte Chemie*, **2012**, 124, 9154-9158	3.6	83
562	Inhibiting Methicillin-Resistant Staphylococcus aureus by Tetrahedral DNA Nanostructure-Enabled Antisense Peptide Nucleic Acid Delivery. *Nano Letters*, **2018**, 18, 5652-5659	11.5	82
561	On-Electrode Synthesis of Shape-Controlled Hierarchical Flower-Like Gold Nanostructures for Efficient Interfacial DNA Assembly and Sensitive Electrochemical Sensing of MicroRNA. *Small*, **2016**, 12, 3794-801	11	81
560	Framework-Nucleic-Acid-Enabled Biosensor Development. *ACS Sensors*, **2018**, 3, 903-919	9.2	79
559	CMOS-compatible silicon nanowire field-effect transistors for ultrasensitive and label-free microRNAs sensing. *Small*, **2014**, 10, 2022-8	11	79
558	Self-assembly of poly-adenine-tailed CpG oligonucleotide-gold nanoparticle nanoconjugates with immunostimulatory activity. *Small*, **2014**, 10, 368-75	11	79
557	A molecular beacon-based signal-off surface-enhanced Raman scattering strategy for highly sensitive, reproducible, and multiplexed DNA detection. *Small*, **2013**, 9, 2493-9, 2652	11	79
556	Preparation of polymer decorated graphene oxide by ray induced graft polymerization. *Nanoscale* , **2012**, 4, 1742-8	7.7	78
555	Single-Molecule Analysis of MicroRNA and Logic Operations Using a Smart Plasmonic Nanobiosensor. *Journal of the American Chemical Society*, **2018**, 140, 3988-3993	16.4	77
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