

Metal nanoclusters: novel probes for diagnostic and the

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Facile preparation of uniform FeSe ₂ nanoparticles for PA/MR dual-modal imaging and photothermal cancer therapy. <i>Nanoscale</i> , 2015, 7, 20757-20768.	2.8	47
2	Bimetallic Au ₂ Cu ₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 3611-3614.	7.2	200
3	Multiamino polymeric capping of fluorescent silver nanodots as an effective protective, amphiphilic and pH/thermo-responsive coating. <i>RSC Advances</i> , 2016, 6, 67643-67650.	1.7	9
4	Heteroatom Effects on the Optical and Electrochemical Properties of Ag ₂₅ (SR) ₁₈ and Its Dopants. <i>ChemElectroChem</i> , 2016, 3, 1261-1265.	1.7	42
5	Bimetallic Au ₂ Cu ₆ Nanoclusters: Strong Luminescence Induced by the Aggregation of Copper(I) Complexes with Gold(0) Species. <i>Angewandte Chemie</i> , 2016, 128, 3675-3678.	1.6	44
6	Analysis of 3D printing possibilities for the development of practical applications in synthetic organic chemistry. <i>Russian Chemical Bulletin</i> , 2016, 65, 1637-1643.	0.4	35
7	The analytical and biomedical potential of cytosine-rich oligonucleotides: A review. <i>Analytica Chimica Acta</i> , 2016, 930, 1-12.	2.6	50
8	Effect of compartmentalization of donor and acceptor on the ultrafast resonance energy transfer from DAPI to silver nanoclusters. <i>Nanoscale</i> , 2016, 8, 13006-13016.	2.8	16
9	A ratiometric strategy to detect hydrogen sulfide with a gold nanoclusters based fluorescent probe. <i>Talanta</i> , 2016, 154, 190-196.	2.9	38
10	Ultrastable BSA-capped gold nanoclusters with a polymer-like shielding layer against reactive oxygen species in living cells. <i>Nanoscale</i> , 2016, 8, 9614-9620.	2.8	48
11	Poly(vinylpyrrolidone) supported copper nanoclusters: glutathione enhanced blue photoluminescence for application in phosphor converted light emitting devices. <i>Nanoscale</i> , 2016, 8, 7197-7202.	2.8	97
12	Controlling an electrostatic repulsion by oppositely charged surfactants towards positively charged fluorescent gold nanoclusters. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 8773-8776.	1.3	11
13	Biocompatible glutathione-capped gold nanoclusters for dual fluorescent sensing and imaging of copper(II) and temperature in human cells and bacterial cells. <i>Mikrochimica Acta</i> , 2016, 183, 2185-2195.	2.5	54
14	A gold nanocluster-based fluorescent probe for simultaneous pH and temperature sensing and its application to cellular imaging and logic gates. <i>Nanoscale</i> , 2016, 8, 11210-11216.	2.8	78
15	Nanomolar Hg ²⁺ Detection Using \hat{I}^2 -Lactoglobulin-Stabilized Fluorescent Gold Nanoclusters in Beverage and Biological Media. <i>Analytical Chemistry</i> , 2016, 88, 10275-10283.	3.2	89
16	Dual-modal light scattering and fluorometric detection of lead ion by stimuli-responsive aggregation of BSA-stabilized copper nanoclusters. <i>RSC Advances</i> , 2016, 6, 96729-96734.	1.7	19
17	DNA-templated silver nanoclusters: structural correlation and fluorescence modulation. <i>Nanoscale</i> , 2016, 8, 17729-17746.	2.8	127
18	Stretchable and Thermally Stable Dual Emission Composite Films of On-Purpose Aggregated Copper Nanoclusters in Carboxylated Polyurethane for Remote White Light-Emitting Devices. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 33993-33998.	4.0	47

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19	DNA-Mediated Morphological Control of Pd@Au Bimetallic Nanoparticles. <i>Journal of the American Chemical Society</i> , 2016, 138, 16542-16548.	6.6	87
20	All-Copper Nanocluster Based Down-Conversion White Light-Emitting Devices. <i>Advanced Science</i> , 2016, 3, 1600182.	5.6	89
21	[Ag ₆₇ (SPhMe) ₂] ₃₂ (PPh) ₃] ₈ ³⁺ : Synthesis, Total Structure, and Optical Properties of a Large Box-Shaped Silver Nanocluster. <i>Journal of the American Chemical Society</i> , 2016, 138, 14727-14732.	6.6	167
22	Multifunctional Gold Nanoclusters-Based Nanosurface Energy Transfer Probe for Real-Time Monitoring of Cell Apoptosis and Self-Evaluating of Pro-Apoptotic Theranostics. <i>Analytical Chemistry</i> , 2016, 88, 11184-11192.	3.2	45
23	Luminescent gold nanoclusters as biocompatible probes for optical imaging and theranostics. <i>Dyes and Pigments</i> , 2016, 135, 64-79.	2.0	50
24	An Ir(III) complex chemosensor for the detection of thiols. <i>Science and Technology of Advanced Materials</i> , 2016, 17, 109-114.	2.8	24
26	Luminescent Nanoswitch Based on Organic-Phase Copper Nanoclusters for Sensitive Detection of Trace Amount of Water in Organic Solvents. <i>Analytical Chemistry</i> , 2016, 88, 7429-7434.	3.2	122
27	Lysozyme-stabilized Ag nanoclusters: synthesis of different compositions and fluorescent responses to sulfide ions with distinct modes. <i>RSC Advances</i> , 2016, 6, 66233-66241.	1.7	10
28	A long lifetime luminescent iridium(III) complex chemosensor for the selective switch-on detection of Al ³⁺ ions. <i>Chemical Communications</i> , 2016, 52, 3611-3614.	2.2	111
29	Gold nanoparticles as sensitive optical probes. <i>Analyst</i> , 2016, 141, 1611-1626.	1.7	84
30	Conjugating a groove-binding motif to an Ir(III) complex for the enhancement of G-quadruplex probe behavior. <i>Chemical Science</i> , 2016, 7, 2516-2523.	3.7	150
31	Activated nanostructured bimetallic catalysts for C-C coupling reactions: recent progress. <i>Catalysis Science and Technology</i> , 2016, 6, 3341-3361.	2.1	74
32	Specific and sensitive detection of Plasmodium falciparum lactate dehydrogenase by DNA-scaffolded silver nanoclusters combined with an aptamer. <i>Analyst</i> , 2017, 142, 800-807.	1.7	26
33	Ag ₅₀ (Dppm) ₆ (SR) ₃₀ and Its Homologue Au ₅₀ (Dppm) ₆ (SR) ₃₀ Alloy Nanocluster: Seeded Growth, Structure Determination, and Differences in Properties. <i>Journal of the American Chemical Society</i> , 2017, 139, 1618-1624.	6.6	138
34	Turn-on fluorescence detection of ascorbic acid with gold nanoclusters. <i>Talanta</i> , 2017, 165, 346-350.	2.9	80
35	Graphene Metal Nanoclusters in Cutting-Edge Theranostics Nanomedicine Applications. <i>Advanced Structured Materials</i> , 2017, , 429-477.	0.3	0
36	Research Update: Interfacing ultrasmall metal nanoclusters with biological systems. <i>APL Materials</i> , 2017, 5, 053101.	2.2	15
37	Repeatable deep-tissue activation of persistent luminescent nanoparticles by soft X-ray for high sensitivity long-term in vivo bioimaging. <i>Nanoscale</i> , 2017, 9, 2718-2722.	2.8	74

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38	Fabrication of Water-Soluble, Green-Emitting Gold Nanoclusters with a 65% Photoluminescence Quantum Yield via Host-Guest Recognition. <i>Chemistry of Materials</i> , 2017, 29, 1362-1369.	3.2	209
39	Au ₁₅ Ag ₃ (SPhMe ₂) ₁₄ Nanoclusters' Crystal Structure and Insights into Ligand-Induced Variation. <i>European Journal of Inorganic Chemistry</i> , 2017, 1414-1419.	1.0	34
40	Pinpoint the Positions of Single Nucleotide Polymorphisms by a Nanocluster Dimer. <i>Analytical Chemistry</i> , 2017, 89, 2622-2627.	3.2	19
41	Electrocrystallization of Monolayer-Protected Gold Clusters: Opening the Door to Quality, Quantity, and New Structures. <i>Journal of the American Chemical Society</i> , 2017, 139, 4168-4174.	6.6	70
42	Fe (III) ion modulated L-DOPA protected gold nanocluster probe for fluorescence turn on sensing of ascorbic acid. <i>Sensors and Actuators B: Chemical</i> , 2017, 246, 943-951.	4.0	42
43	One-step synthesis of boronic acid functionalized gold nanoclusters for photoluminescence sensing of dopamine. <i>Methods and Applications in Fluorescence</i> , 2017, 5, 014006.	1.1	8
44	Fluorescent silver nanoparticle based highly sensitive immunoassay for early detection of HIV infection. <i>RSC Advances</i> , 2017, 7, 19863-19877.	1.7	38
45	Constructing a Robust Fluorescent DNA-Stabilized Silver Nanocluster Probe Module by Attaching a Duplex Moiety. <i>Chemistry - A European Journal</i> , 2017, 23, 10893-10900.	1.7	10
46	Tannic Acid Stabilised Copper Nanocluster Developed Through Microwave Mediated Synthesis as a Fluorescent Probe for the Turn on Detection of Dopamine. <i>Journal of Cluster Science</i> , 2017, 28, 2223-2238.	1.7	22
47	Visual detection of Cu ²⁺ based on fluorescence quenching of green-synthesized gold nanoclusters using soy protein as template. <i>Food and Agricultural Immunology</i> , 2017, 28, 848-858.	0.7	8
48	Periodic Mesoporous Organosilica Coated Prussian Blue for MR/PA Dual-Modal Imaging-Guided Photothermal-Chemotherapy of Triple Negative Breast Cancer. <i>Advanced Science</i> , 2017, 4, 1600356.	5.6	60
49	Fluorescence assay of Fe (III) in human serum samples based on pH dependent silver nanoclusters. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 773-778.	4.0	45
50	Pattern-based sensing of triple negative breast cancer cells with dual-ligand cofunctionalized gold nanoclusters. <i>Biomaterials</i> , 2017, 116, 21-33.	5.7	52
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52	Chemically modified cellulose strips with pyridoxal conjugated red fluorescent gold nanoclusters for nanomolar detection of mercuric ions. <i>Biosensors and Bioelectronics</i> , 2017, 90, 329-335.	5.3	54
53	Mitochondria-targeting Au nanoclusters enhance radiosensitivity of cancer cells. <i>Journal of Materials Chemistry B</i> , 2017, 5, 4190-4197.	2.9	34
54	Green Synthesis of Gluten-Stabilized Fluorescent Gold Quantum Clusters: Application As Turn-On Sensing of Human Blood Creatinine. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 4837-4845.	3.2	52
55	Chiral recognition of naproxen enantiomers based on fluorescence quenching of bovine serum albumin-stabilized gold nanoclusters. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2017, 185, 77-84.	2.0	18

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56	Fluorescence turn-on detection of alkaline phosphatase activity based on controlled release of PEI-capped Cu nanoclusters from MnO ₂ nanosheets. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 4771-4778.	1.9	54
57	A DNA-Encapsulated and Fluorescent Ag ₁₀ ⁶⁺ Cluster with a Distinct Metal-Like Core. <i>Journal of Physical Chemistry C</i> , 2017, 121, 14936-14945.	1.5	27
58	Nanotechnology-Enhanced No-Wash Biosensors for <i>in Vitro</i> Diagnostics of Cancer. <i>ACS Nano</i> , 2017, 11, 5238-5292.	7.3	208
59	Modulating photo-luminescence of Au ₂ Cu ₆ nanoclusters via ligand-engineering. <i>RSC Advances</i> , 2017, 7, 28606-28609.	1.7	35
60	Aptamer-based fluorometric determination of ATP by using target-cycling strand displacement amplification and copper nanoclusters. <i>Mikrochimica Acta</i> , 2017, 184, 4183-4188.	2.5	28
61	Magnetic Ordering in Gold Nanoclusters. <i>ACS Omega</i> , 2017, 2, 2607-2617.	1.6	69
62	A nanocluster-based fluorescent sensor for sensitive hemoglobin detection. <i>Talanta</i> , 2017, 170, 233-237.	2.9	28
63	Rational design of a luminescent nanoprobe for hypoxia imaging <i>in vivo</i> via ratiometric and photoluminescence lifetime imaging microscopy. <i>Chemical Communications</i> , 2017, 53, 4144-4147.	2.2	30
64	Research Update: Density functional theory investigation of the interactions of silver nanoclusters with guanine. <i>APL Materials</i> , 2017, 5, .	2.2	16
65	Stimuli-responsive biodegradable and gadolinium-based poly[N-(2-hydroxypropyl) methacrylamide] copolymers: their potential as targeting and safe magnetic resonance imaging probes. <i>Journal of Materials Chemistry B</i> , 2017, 5, 2763-2774.	2.9	14
66	Directed adenine functionalization for creating complex architectures for material and biological applications. <i>Chemical Communications</i> , 2017, 53, 4748-4758.	2.2	34
67	Synthesis and properties enhancement of metal nanoclusters templated on a biological molecule/ionic liquids complex. <i>New Journal of Chemistry</i> , 2017, 41, 3766-3772.	1.4	3
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70	Synthesis, optical properties and applications of light-emitting copper nanoclusters. <i>Nanoscale Horizons</i> , 2017, 2, 135-146.	4.1	184
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72	AuPt Alloy Nanostructures with Tunable Composition and Enzyme-like Activities for Colorimetric Detection of Bisulfide. <i>Scientific Reports</i> , 2017, 7, 40103.	1.6	84
73	Histone-DNA interaction: an effective approach to improve the fluorescence intensity and stability of DNA-templated Cu nanoclusters. <i>Chemical Communications</i> , 2017, 53, 12568-12571.	2.2	41

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74	The reactivity of phenylethanethiolated gold nanoparticles with acetic acid. <i>Chemical Communications</i> , 2017, 53, 11646-11649.	2.2	11
75	Multi-ligand-directed synthesis of chiral silver nanoclusters. <i>Nanoscale</i> , 2017, 9, 16800-16805.	2.8	54
76	Redox-active nanomaterials for nanomedicine applications. <i>Nanoscale</i> , 2017, 9, 15226-15251.	2.8	104
77	Nanoparticle-based optical sensor arrays. <i>Nanoscale</i> , 2017, 9, 16546-16563.	2.8	192
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79	Fluorescent metal quantum clusters: an updated overview of the synthesis, properties, and biological applications. <i>Journal of Materials Chemistry B</i> , 2017, 5, 9055-9084.	2.9	49
80	A bifunctional nanomodulator for boosting CpG-mediated cancer immunotherapy. <i>Nanoscale</i> , 2017, 9, 14236-14247.	2.8	48
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82	Aggregation-induced accelerating peroxidase-like activity of gold nanoclusters and their applications for colorimetric Pb ²⁺ detection. <i>Chemical Communications</i> , 2017, 53, 10160-10163.	2.2	104
83	Towards Ultra-Bright Gold Nanoclusters. <i>European Journal of Inorganic Chemistry</i> , 2017, 2017, 5068-5084.	1.0	44
84	Catalyst Sintering Kinetics Data: Is There a Minimal Chemical Mechanism Underlying Kinetics Previously Fit by Empirical Power-Law Expressions" and if So, What Are Its Implications?. <i>Industrial & Engineering Chemistry Research</i> , 2017, 56, 10271-10286.	1.8	13
85	QDs decorated with thiol-monomer ligands as new multicrosslinkers for the synthesis of smart luminescent nanogels and hydrogels. <i>Polymer Chemistry</i> , 2017, 8, 5317-5326.	1.9	20
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87	A polypeptide-mediated synthesis of green fluorescent gold nanoclusters for Fe ³⁺ sensing and bioimaging. <i>Journal of Colloid and Interface Science</i> , 2017, 506, 386-392.	5.0	52
88	Breaking the reduced glutathione-activated antioxidant defence for enhanced photodynamic therapy. <i>Journal of Materials Chemistry B</i> , 2017, 5, 6752-6761.	2.9	9
89	Effect of ligand structure on the size control of mono- and bi-thiolate-protected silver nanoclusters. <i>Chemical Communications</i> , 2017, 53, 9697-9700.	2.2	40
90	A fluorescent nanoprobe based on cellulose nanocrystals with porphyrin pendants for selective quantitative trace detection of Hg ²⁺ . <i>New Journal of Chemistry</i> , 2017, 41, 10272-10280.	1.4	22
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92	Luminescent gold nanocluster-based sensing platform for accurate H ₂ S detection in vitro and in vivo with improved anti-interference. <i>Light: Science and Applications</i> , 2017, 6, e17107-e17107.	7.7	85
93	Multi-stimuli responsive copper nanoclusters with bright red luminescence for quantifying acid phosphatase activity via redox-controlled luminescence switch. <i>Analytica Chimica Acta</i> , 2017, 984, 202-210.	2.6	37
94	Characterizing optical properties, composition of stabilizer-free copper nanoclusters and its interaction with bovine serum albumin. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2017, 347, 17-25.	2.0	13
95	Sensitive and Label-Free Fluorescent Detection of Transcription Factors Based on DNA-Ag Nanoclusters Molecular Beacons and Exonuclease III-Assisted Signal Amplification. <i>Analytical Chemistry</i> , 2017, 89, 7316-7323.	3.2	66
96	The development of anticancer ruthenium(II) complexes: from single molecule compounds to nanomaterials. <i>Chemical Society Reviews</i> , 2017, 46, 5771-5804.	18.7	793
97	BSA-templated Pb Nanocluster as a Biocompatible Signaling Probe for Electrochemical EGFR Immunosensing. <i>Electroanalysis</i> , 2017, 29, 861-872.	1.5	8
98	One-pot green synthesis of highly fluorescent glutathione-stabilized copper nanoclusters for Fe ³⁺ sensing. <i>Sensors and Actuators B: Chemical</i> , 2017, 241, 292-297.	4.0	93
99	Sensitive detection of glutathione by using DNA-templated copper nanoparticles as electrochemical reporters. <i>Sensors and Actuators B: Chemical</i> , 2017, 238, 325-330.	4.0	41
100	A luminescence switch-on assay for the detection of specific gene deletion using G-quadruplex DNA and silver nanoclusters. <i>Materials Chemistry Frontiers</i> , 2017, 1, 128-131.	3.2	14
101	Protein capped Cu nanoclusters-SWCNT nanocomposite as a novel candidate of high performance platform for organophosphates enzymeless biosensor. <i>Biosensors and Bioelectronics</i> , 2017, 89, 829-836.	5.3	95
102	Luminescent Iridium(III) Chemosensor for Tandem Detection of F ⁻ and Al ³⁺ . <i>ACS Omega</i> , 2017, 2, 9150-9155.	1.6	28
103	Preparation and Characterization of Chitosan/Soy Protein Isolate Nanocomposite Film Reinforced by Cu Nanoclusters. <i>Polymers</i> , 2017, 9, 247.	2.0	47
104	Strategies for Preparing Albumin-based Nanoparticles for Multifunctional Bioimaging and Drug Delivery. <i>Theranostics</i> , 2017, 7, 3667-3689.	4.6	349
105	Luminescent Metal Nanoclusters for Potential Chemosensor Applications. <i>Chemosensors</i> , 2017, 5, 36.	1.8	41
106	Bio-Synthesized Silver Nanoparticles Using Different Plant Extracts as Anti-Cancer Agent. <i>Journal of Nanomedicine & Biotherapeutic Discovery</i> , 2017, 07, .	0.6	6
107	A High-Performance Soy Protein Isolate-Based Nanocomposite Film Modified with Microcrystalline Cellulose and Cu and Zn Nanoclusters. <i>Polymers</i> , 2017, 9, 167.	2.0	42
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109	Sensitive Detection of Single-Cell Secreted H ₂ O ₂ by Integrating a Microfluidic Droplet Sensor and Au Nanoclusters. <i>Analytical Chemistry</i> , 2018, 90, 4478-4484.	3.2	77

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111	Gold Nanoclusters for Targeting Methicillin-Resistant <i>Staphylococcus aureus</i> In Vivo. <i>Angewandte Chemie</i> , 2018, 130, 4022-4026.	1.6	15
112	Tuning of gold nanoclusters sensing applications with bovine serum albumin and bromelain for detection of Hg ²⁺ ion and lambda-cyhalothrin via fluorescence turn-off and on mechanisms. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2781-2791.	1.9	40
113	Taylor Dispersion of Polydisperse Nanoclusters and Nanoparticles: Modeling, Simulation, and Analysis. <i>Analytical Chemistry</i> , 2018, 90, 4258-4262.	3.2	15
114	Point-of-Care Identification of Bacteria Using Protein-Encapsulated Gold Nanoclusters. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701370.	3.9	51
115	DNA liquid crystals doped with AuAg nanoclusters: One-photon and two-photon imaging. <i>Journal of Molecular Liquids</i> , 2018, 259, 82-87.	2.3	11
116	Unconventional application of gold nanoclusters/Zn-MOF composite for fluorescence turn-on sensitive detection of zinc ion. <i>Analytica Chimica Acta</i> , 2018, 1024, 145-152.	2.6	65
117	Synthesis of Branched DNA Scaffolded Super-Nanoclusters with Enhanced Antibacterial Performance. <i>Small</i> , 2018, 14, e1800185.	5.2	53
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123	Atomically precise copper nanoclusters and their applications. <i>Coordination Chemistry Reviews</i> , 2018, 359, 112-126.	9.5	216
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125	Gold Nanoparticle-Based Photoluminescent Nanoswitch Controlled by Host-Guest Recognition and Enzymatic Hydrolysis for Arginase Activity Assay. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 5358-5364.	4.0	29
126	Selective sensing of 2,4,6-trinitrophenol (TNP) in aqueous media with aggregation-induced emission enhancement-(AIEE)-active iridium(III) complexes. <i>Chemical Communications</i> , 2018, 54, 1730-1733.	2.2	85
127	Gold Nanoclusters for Targeting Methicillin-Resistant <i>Staphylococcus aureus</i> In Vivo. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 3958-3962.	7.2	190

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128	Fluorescent MUA-stabilized Au nanoclusters for sensitive and selective detection of penicillamine. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 2629-2636.	1.9	24
129	One-Step Synthesis of Ultrasmall and Ultrabright Organosilica Nanodots with 100% Photoluminescence Quantum Yield: Long-Term Lysosome Imaging in Living, Fixed, and Permeabilized Cells. <i>Nano Letters</i> , 2018, 18, 1159-1167.	4.5	120
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132	A molecular beacon based on DNA-templated silver nanoclusters for the highly sensitive and selective multiplexed detection of virulence genes. <i>Talanta</i> , 2018, 181, 24-31.	2.9	29
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134	Fluorescent Metal Nano-Clusters as Next Generation Fluorescent Probes for Cell Imaging and Drug Delivery. <i>Bulletin of the Chemical Society of Japan</i> , 2018, 91, 447-454.	2.0	63
135	Nucleobases, nucleosides, and nucleotides: versatile biomolecules for generating functional nanomaterials. <i>Chemical Society Reviews</i> , 2018, 47, 1285-1306.	18.7	159
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138	Accelerating the Peroxidase-Like Activity of Gold Nanoclusters at Neutral pH for Colorimetric Detection of Heparin and Heparinase Activity. <i>Analytical Chemistry</i> , 2018, 90, 6247-6252.	3.2	185
139	DNA-encoded morphological evolution of bimetallic Pd@Au core-shell nanoparticles from a high-indexed core. <i>Nano Research</i> , 2018, 11, 4549-4561.	5.8	20
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