Vincent M Rotello

List of Publications by Year
in descending order

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		2427	2332
521	43,846	97	199
papers	citations	h-index	g-index

646	646	646	45185
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gold Nanoparticles in Chemical and Biological Sensing. Chemical Reviews, 2012, 112, 2739-2779.	47.7	4,017
2	Gold nanoparticles in delivery applicationsâ˜†. Advanced Drug Delivery Reviews, 2008, 60, 1307-1315.	13.7	2,366
3	Toxicity of Gold Nanoparticles Functionalized with Cationic and Anionic Side Chains. Bioconjugate Chemistry, 2004, 15, 897-900.	3.6	1,397
4	Applications of Nanoparticles in Biology. Advanced Materials, 2008, 20, 4225-4241.	21.0	1,376
5	Self-assembly of nanoparticles into structured spherical and network aggregates. Nature, 2000, 404, 746-748.	27.8	1,100
6	Gold nanoparticles: preparation, properties, and applications in bionanotechnology. Nanoscale, 2012, 4, 1871-1880.	5.6	1,067
7	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	14.6	976
8	Glutathione-Mediated Delivery and Release Using Monolayer Protected Nanoparticle Carriers. Journal of the American Chemical Society, 2006, 128, 1078-1079.	13.7	773
9	Detection and identification of proteins using nanoparticleâ€“fluorescent polymer â€˜chemical noseâ€™ sensors. Nature Nanotechnology, 2007, 2, 318-323.	31.5	724
10	Combatting antibiotic-resistant bacteria using nanomaterials. Chemical Society Reviews, 2019, 48, 415-427.	38.1	695
11	Surface functionalization of nanoparticles for nanomedicine. Chemical Society Reviews, 2012, 41, 2539.	38.1	651
12	Nanomaterial-based therapeutics for antibiotic-resistant bacterial infections. Nature Reviews Microbiology, 2021, 19, 23-36.	28.6	617
13	Functional Gold Nanoparticles as Potent Antimicrobial Agents against Multi-Drug-Resistant Bacteria. ACS Nano, 2014, 8, 10682-10686.	14.6	615
14	Effect of Nanoparticle Surface Charge at the Plasma Membrane and Beyond. Nano Letters, 2010, 10, 2543-2548.	9.1	537
15	Wide Varieties of Cationic Nanoparticles Induce Defects in Supported Lipid Bilayers. Nano Letters, 2008, 8, 420-424.	9.1	497
16	Sensing of proteins in human serum using conjugates of nanoparticles and green fluorescent protein. Nature Chemistry, 2009, 1, 461-465.	13.6	447
17	Current trends and challenges in cancer management and therapy using designer nanomaterials. Nano Convergence, 2019, 6, 23.	12.1	445
18	Tuning payload delivery in tumour cylindroids using gold nanoparticles. Nature Nanotechnology, 2010, 5, 465-472.	31.5	439

#	Article	IF	Citations
19	Monolayer coated gold nanoparticles for delivery applications. Advanced Drug Delivery Reviews, 2012, 64, 200-216.	13.7	429
20	Direct Cytosolic Delivery of CRISPR/Cas9-Ribonucleoprotein for Efficient Gene Editing. ACS Nano, 2017, 11, 2452-2458.	14.6	423
21	Nanoparticle Hydrophobicity Dictates Immune Response. Journal of the American Chemical Society, 2012, 134, 3965-3967.	13.7	418
22	Efficient Gene Delivery Vectors by Tuning the Surface Charge Density of Amino Acid-Functionalized Gold Nanoparticles. ACS Nano, 2008, 2, 2213-2218.	14.6	416
23	Gold nanoparticle platforms as drug and biomacromolecule delivery systems. Journal of Controlled Release, 2010, 148, 122-127.	9.9	405
24	Magnetic assembly of colloidal superstructures with multipole symmetry. Nature, 2009, 457, 999-1002.	27.8	401
25	Gold Nanoparticles for Nucleic Acid Delivery. Molecular Therapy, 2014, 22, 1075-1083.	8.2	401
26	Supramolecular regulation of bioorthogonal catalysis in cells using nanoparticle-embedded transition metal catalysts. Nature Chemistry, 2015, 7, 597-603.	13.6	395
27	Rapid and Efficient Identification of Bacteria Using Goldâ€Nanoparticleâ€“Poly(paraâ€phenyleneethynylene) Constructs. Angewandte Chemie - International Edition, 2008, 47, 2590-2594.	13.8	368
28	The Role of Surface Functionality in Determining Nanoparticle Cytotoxicity. Accounts of Chemical Research, 2013, 46, 681-691.	15.6	337
29	The Interplay of Size and Surface Functionality on the Cellular Uptake of Sub-10 nm Gold Nanoparticles. ACS Nano, 2015, 9, 9986-9993.	14.6	328
30	Gold Nanoparticleâ€“Fluorophore Complexes: Sensitive and Discerning â€œNosesâ€•for Biosystems Sensing. Angewandte Chemie - International Edition, 2010, 49, 3268-3279.	13.8	318
31	Colorimetric Bacteria Sensing Using a Supramolecular Enzymeâ€“Nanoparticle Biosensor. Journal of the American Chemical Society, 2011, 133, 9650-9653.	13.7	317
32	Modulating Pharmacokinetics, Tumor Uptake and Biodistribution by Engineered Nanoparticles. PLoS ONE, 2011, 6, e24374.	2.5	315
33	Entrapment of Hydrophobic Drugs in Nanoparticle Monolayers with Efficient Release into Cancer Cells. Journal of the American Chemical Society, 2009, 131, 1360-1361.	13.7	305
34	Fabrication of Corona-Free Nanoparticles with Tunable Hydrophobicity. ACS Nano, 2014, 8, 6748-6755.	14.6	286
35	Detection and differentiation of normal, cancerous, and metastatic cells using nanoparticle-polymer sensor arrays. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 10912-10916.	7.1	285
36	Biomimetic Interactions of Proteins with Functionalized Nanoparticles:â€‰ A Thermodynamic Study. Journal of the American Chemical Society, 2007, 129, 10747-10753.	13.7	284

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37	Integrating recognition elements with nanomaterials for bacteria sensing. Chemical Society Reviews, 2017, 46, 1272-1283.	38.1	282
38	Control of Protein Structure and Function through Surface Recognition by Tailored Nanoparticle Scaffolds. Journal of the American Chemical Society, 2004, 126, 739-743.	13.7	273
39	Promises and Pitfalls of Intracellular Delivery of Proteins. Bioconjugate Chemistry, 2014, 25, 1602-1608.	3.6	267
40	Inhibition of DNA Transcription Using Cationic Mixed Monolayer Protected Gold Clusters. Journal of the American Chemical Society, 2001, 123, 7626-7629.	13.7	266
41	Regulation of Macrophage Recognition through the Interplay of Nanoparticle Surface Functionality and Protein Corona. ACS Nano, 2016, 10, 4421-4430.	14.6	264
42	From Enzyme to Molecular Device. Exploring the Interdependence of Redox and Molecular Recognition. Accounts of Chemical Research, 1999, 32, 44-52.	15.6	259
43	Tunable Inhibition and Denaturation of Î±-Chymotrypsin with Amino Acid-Functionalized Gold Nanoparticles. Journal of the American Chemical Society, 2005, 127, 12873-12881.	13.7	249
44	The Role of Surface Functionality on Acute Cytotoxicity, ROS Generation and DNA Damage by Cationic Gold Nanoparticles. Small, 2010, 6, 2246-2249.	10.0	232
45	Aggregation and Interaction of Cationic Nanoparticles on Bacterial Surfaces. Journal of the American Chemical Society, 2012, 134, 6920-6923.	13.7	221
46	Surface PEGylation and Ligand Exchange Chemistry of FePt Nanoparticles for Biological Applications. Chemistry of Materials, 2005, 17, 4617-4621.	6.7	215
47	Enzyme-Amplified Array Sensing of Proteins in Solution and in Biofluids. Journal of the American Chemical Society, 2010, 132, 5285-5289.	13.7	198
48	Effects of engineered nanoparticles on the innate immune system. Seminars in Immunology, 2017, 34, 25-32.	5.6	189
49	Inhibition of chymotrypsin through surface binding using nanoparticle-based receptors. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 5018-5023.	7.1	187
50	Surface Charge Controls the Suborgan Biodistributions of Gold Nanoparticles. ACS Nano, 2016, 10, 5536-5542.	14.6	185
51	Controlled Plasmon Resonance of Gold Nanoparticles Self-Assembled with PAMAM Dendrimers. Chemistry of Materials, 2005, 17, 487-490.	6.7	184
52	In Vivo Delivery of CRISPR/Cas9 for Therapeutic Gene Editing: Progress and Challenges. Bioconjugate Chemistry, 2017, 28, 880-884.	3.6	183
53	Nanoscale Graphene Oxide (nGO) as Artificial Receptors: Implications for Biomolecular Interactions and Sensing. Journal of the American Chemical Society, 2012, 134, 16725-16733.	13.7	181
54	Giant Vesicle Formation through Self-Assembly of Complementary Random Copolymers. Journal of the American Chemical Society, 2000, 122, 5895-5896.	13.7	177

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55	Intracellular Delivery of a Membrane-Impermeable Enzyme in Active Form Using Functionalized Gold Nanoparticles. Journal of the American Chemical Society, 2010, 132, 2642-2645.	13.7	176
56	Direct Delivery of Functional Proteins and Enzymes to the Cytosol Using Nanoparticle-Stabilized Nanocapsules. ACS Nano, 2013, 7, 6667-6673.	14.6	176
57	Nanoparticle-Stabilized Capsules for the Treatment of Bacterial Biofilms. ACS Nano, 2015, 9, 7775-7782.	14.6	172
58	â€œSuperchiralâ€•Spectroscopy: Detection of Protein Higher Order Hierarchical Structure with Chiral Plasmonic Nanostructures. Journal of the American Chemical Society, 2015, 137, 8380-8383.	13.7	171
59	Delivery of drugs, proteins, and nucleic acids using inorganic nanoparticles. Advanced Drug Delivery Reviews, 2020, 156, 188-213.	13.7	167
60	Surface Functionality of Nanoparticles Determines Cellular Uptake Mechanisms in Mammalian Cells. Small, 2013, 9, 300-305.	10.0	165
61	Arrayâ€based â€œChemical Noseâ€•Sensing in Diagnostics and Drug Discovery. Angewandte Chemie - International Edition, 2019, 58, 5190-5200.	13.8	165
62	Triple-Negative Breast Cancer: A Review of Conventional and Advanced Therapeutic Strategies. International Journal of Environmental Research and Public Health, 2020, 17, 2078.	2.6	163
63	Acylsulfonamideâ€Functionalized Zwitterionic Gold Nanoparticles for Enhanced Cellular Uptake at Tumor pH. Angewandte Chemie - International Edition, 2015, 54, 6567-6570.	13.8	162
64	Protein delivery into cells using inorganic nanoparticleâ€“protein supramolecular assemblies. Chemical Society Reviews, 2018, 47, 3421-3432.	38.1	156
65	Tunable Reactivation of Nanoparticle-Inhibited Î²-Galactosidase by Glutathione at Intracellular Concentrations. Journal of the American Chemical Society, 2004, 126, 13987-13991.	13.7	155
66	Selectivity and Specificity: Pros and Cons in Sensing. ACS Sensors, 2016, 1, 1282-1285.	7.8	153
67	Charge-Switchable Nanozymes for Bioorthogonal Imaging of Biofilm-Associated Infections. ACS Nano, 2018, 12, 89-94.	14.6	146
68	Array-Based Sensing of Normal, Cancerous, and Metastatic Cells Using Conjugated Fluorescent Polymers. Journal of the American Chemical Society, 2010, 132, 1018-1022.	13.7	145
69	Model Systems for Flavoenzyme Activity:Â One- and Two-Electron Reduction of Flavins in Aprotic Hydrophobic Environments. Journal of the American Chemical Society, 1997, 119, 887-892.	13.7	140
70	A multichannel nanosensor for instantaneous readout of cancer drug mechanisms. Nature Nanotechnology, 2015, 10, 65-69.	31.5	137
71	Array-based sensing with nanoparticles: â€˜Chemical nosesâ€™ for sensing biomolecules and cell surfaces. Current Opinion in Chemical Biology, 2010, 14, 728-736.	6.1	135
72	Modulation of the Catalytic Behavior of Î±-Chymotrypsin at Monolayer-Protected Nanoparticle Surfaces. Journal of the American Chemical Society, 2006, 128, 14612-14618.	13.7	133

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73	Control of nanoparticle penetration into biofilms through surface design. Chemical Communications, 2015, 51, 282-285.	4.1	133
74	Colorimetric Detection of Escherichia coli Based on the Enzyme-Induced Metallization of Gold Nanorods. Small, 2016, 12, 2469-2475.	10.0	133
75	Formation and pH-controlled assembly of amphiphilic gold nanoparticles. Chemical Communications, 2000, , 1943-1944.	4.1	131
76	Reversible Side Chain Modification through Noncovalent Interactions. â€œPlug and Playâ€•Polymers. Macromolecules, 2001, 34, 2597-2601.	4.8	131
77	Protein coronas suppress the hemolytic activity of hydrophilic and hydrophobic nanoparticles. Materials Horizons, 2014, 1, 102-105.	12.2	129
78	Engineered Polymer Nanoparticles with Unprecedented Antimicrobial Efficacy and Therapeutic Indices against Multidrug-Resistant Bacteria and Biofilms. Journal of the American Chemical Society, 2018, 140, 12137-12143.	13.7	128
79	Engineering the nanoparticleâ€“biomacromolecule interface. Soft Matter, 2006, 2, 190.	2.7	127
80	Ultrastable and Biofunctionalizable Gold Nanoparticles. ACS Applied Materials & Interfaces, 2016, 8, 14096-14101.	8.0	127
81	Multiplexed Screening of Cellular Uptake of Gold Nanoparticles Using Laser Desorption/Ionization Mass Spectrometry. Journal of the American Chemical Society, 2008, 130, 14139-14143.	13.7	126
82	Detection of Escherichia coli in Drinking Water Using T7 Bacteriophage-Conjugated Magnetic Probe. Analytical Chemistry, 2015, 87, 8977-8984.	6.5	123
83	Ratiometric Array of Conjugated Polymersâ€“Fluorescent Protein Provides a Robust Mammalian Cell Sensor. Journal of the American Chemical Society, 2016, 138, 4522-4529.	13.7	122
84	Stability of quantum dots in live cells. Nature Chemistry, 2011, 3, 963-968.	13.6	121
85	Nanoparticle-Based Antimicrobials: Surface Functionality is Critical. F1000Research, 2016, 5, 364.	1.6	119
86	General Strategy for Direct Cytosolic Protein Delivery via Proteinâ€“Nanoparticle Co-engineering. ACS Nano, 2017, 11, 6416-6421.	14.6	119
87	Fully Zwitterionic Nanoparticle Antimicrobial Agents through Tuning of Core Size and Ligand Structure. ACS Nano, 2016, 10, 8732-8737.	14.6	118
88	Drug Delivery Using Nanoparticleâ€Stabilized Nanocapsules. Angewandte Chemie - International Edition, 2011, 50, 477-481.	13.8	114
89	Nanomaterials for the Treatment of Bacterial Biofilms. ACS Infectious Diseases, 2016, 2, 3-4.	3.8	111
90	Cancer Cell Discrimination Using Hostâ€“Guest â€œDoubledâ€•Arrays. Journal of the American Chemical Society, 2017, 139, 8008-8012.	13.7	109

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91	Direct Cytosolic Delivery of Proteins through Coengineering of Proteins and Polymeric Delivery Vehicles. Journal of the American Chemical Society, 2020, 142, 4349-4355.	13.7	109
92	Monolayer Exchange Chemistry of Î³-Fe2O3Nanoparticles. Chemistry of Materials, 2002, 14, 2628-2636.	6.7	108
93	Triggered nanoparticles as therapeutics. Nano Today, 2013, 8, 439-447.	11.9	106
94	Metal Directed Assembly of Terpyridine-Functionalized Gold Nanoparticles. Nano Letters, 2002, 2, 1345-1348.	9.1	104
95	Cell surface-based differentiation of cell types and cancer states using a gold nanoparticle-GFP based sensing array. Chemical Science, 2010, 1, 134.	7.4	103
96	Array-Based Sensing of Metastatic Cells and Tissues Using Nanoparticleâ€“Fluorescent Protein Conjugates. ACS Nano, 2012, 6, 8233-8240.	14.6	102
97	Model Systems for Flavoenzyme Activity. Modulation of Flavin Redox Potentials through Ï€-Stacking Interactions. Journal of the American Chemical Society, 1997, 119, 1165-1166.	13.7	100
98	Reversible â€œIrreversibleâ€•Inhibition of Chymotrypsin Using Nanoparticle Receptors. Journal of the American Chemical Society, 2003, 125, 13387-13391.	13.7	100
99	Colorimetric Protein Sensing Using Catalytically Amplified Sensor Arrays. Small, 2012, 8, 3589-3592.	10.0	100
100	Polymer-Based Bioorthogonal Nanocatalysts for the Treatment of Bacterial Biofilms. Journal of the American Chemical Society, 2020, 142, 10723-10729.	13.7	100
101	Monolayer-Controlled Substrate Selectivity Using Noncovalent Enzymeâ^'Nanoparticle Conjugates. Journal of the American Chemical Society, 2004, 126, 13572-13573.	13.7	98
102	Recognition-Directed Orthogonal Self-Assembly of Polymers and Nanoparticles on Patterned Surfaces. Journal of the American Chemical Society, 2006, 128, 3162-3163.	13.7	98
103	Disposable Plasmonics: Plastic Templated Plasmonic Metamaterials with Tunable Chirality. Advanced Materials, 2015, 27, 5610-5616.	21.0	92
104	Biodegradable Nanocomposite Antimicrobials for the Eradication of Multidrug-Resistant Bacterial Biofilms without Accumulated Resistance. Journal of the American Chemical Society, 2018, 140, 6176-6182.	13.7	92
105	Intra- andIntermonolayer Hydrogen Bonding in Amide-Functionalized Alkanethiol Self-Assembled Monolayers on Gold Nanoparticles. Langmuir, 2000, 16, 9527-9532.	3.5	90
106	Recognition-Mediated Unfolding of a Self-Assembled Polymeric Globule. Macromolecules, 1999, 32, 4956-4960.	4.8	85
107	Protein Delivery into the Cell Cytosol using Non-Viral Nanocarriers. Theranostics, 2019, 9, 3280-3292.	10.0	84
108	Synthetic â€œchaperonesâ€• nanoparticle-mediated refolding of thermally denatured proteins. Chemical Communications, 2008, , 3504.	4.1	82

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109	Facial Control of Nanoparticle Binding to Cytochrome c. Journal of the American Chemical Society, 2007, 129, 2732-2733.	13.7	81
110	Intracellular delivery of proteins by nanocarriers. Nanomedicine, 2017, 12, 941-952.	3.3	79
111	CRISPRed Macrophages for Cell-Based Cancer Immunotherapy. Bioconjugate Chemistry, 2018, 29, 445-450.	3.6	79
112	Multiplexed Imaging of Nanoparticles in Tissues Using Laser Desorption/Ionization Mass Spectrometry. Journal of the American Chemical Society, 2013, 135, 12564-12567.	13.7	78
113	Cell surface-based sensing with metallic nanoparticles. Chemical Society Reviews, 2015, 44, 4264-4274.	38.1	78
114	Modulation of Spacing and Magnetic Properties of Iron Oxide Nanoparticles through Polymer-Mediated â€œBricks and Mortarâ€•Self-assembly. Chemistry of Materials, 2004, 16, 3252-3256.	6.7	76
115	Stability, toxicity and differential cellular uptake of protein passivated-Fe3O4 nanoparticles. Journal of Materials Chemistry, 2009, 19, 6328.	6.7	76
116	Progress and perspective of inorganic nanoparticle-based siRNA delivery systems. Expert Opinion on Drug Delivery, 2016, 13, 547-559.	5.0	75
117	Synergistic antimicrobial therapy using nanoparticles and antibiotics for the treatment of multidrug-resistant bacterial infection. Nano Futures, 2017, 1, 015004.	2.2	75
118	Intracellular Activation of Bioorthogonal Nanozymes through Endosomal Proteolysis of the Protein Corona. ACS Nano, 2020, 14, 4767-4773.	14.6	74
119	Model Systems for Flavoenzyme Activity:Â Relationships between Cofactor Structure, Binding and Redox Properties. Journal of the American Chemical Society, 2003, 125, 15789-15795.	13.7	73
120	Detection of Bacteria Using Inkjet-Printed Enzymatic Test Strips. ACS Applied Materials & Interfaces, 2014, 6, 19525-19530.	8.0	73
121	Co-Delivery of Protein and Small Molecule Therapeutics Using Nanoparticle-Stabilized Nanocapsules. Bioconjugate Chemistry, 2015, 26, 950-954.	3.6	73
122	Rapid Identification of Bacterial Biofilms and Biofilm Wound Models Using a Multichannel Nanosensor. ACS Nano, 2014, 8, 12014-12019.	14.6	72
123	Formation of Recognition-Induced Polymersomes Using Complementary Rigid Random Copolymers. Macromolecules, 2002, 35, 9621-9623.	4.8	71
124	Modulation of Immune Response Using Engineered Nanoparticle Surfaces. Small, 2016, 12, 76-82.	10.0	71
125	Cross-Linked Polymer-Stabilized Nanocomposites for the Treatment of Bacterial Biofilms. ACS Nano, 2017, 11, 946-952.	14.6	71
126	Effect of Ionic Strength on the Binding of Î±-Chymotrypsin to Nanoparticle Receptors. Langmuir, 2004, 20, 4178-4181.	3.5	70

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127	Catalytic Microcapsules Assembled from Enzymeâ€“Nanoparticle Conjugates at Oilâ€“Water Interfaces. Angewandte Chemie - International Edition, 2009, 48, 5341-5344.	13.8	69
128	Direct Cytosolic Delivery of siRNA Using Nanoparticleâ€Stabilized Nanocapsules. Angewandte Chemie - International Edition, 2015, 54, 506-510.	13.8	69
129	Solution-processed boron subphthalocyanine derivatives as acceptors for organic bulk-heterojunction solar cells. Journal of Materials Chemistry A, 2015, 3, 7345-7352.	10.3	68
130	High-content imaging and gene expression analysis to study cellâ€“nanomaterial interactions: The effect of surface hydrophobicity. Biomaterials, 2014, 35, 9941-9950.	11.4	66
131	Electrostatic self-assembly of structured gold nanoparticle/polyhedral oligomeric silsesquioxane (POSS) nanocomposites. Journal of Materials Chemistry, 2004, 14, 690.	6.7	65
132	Nanomaterial-based bioorthogonal nanozymes for biological applications. Chemical Society Reviews, 2021, 50, 13467-13480.	38.1	65
133	Model Systems for Flavoenzyme Activity. Regulation of Flavin Recognition via Modulation of Receptor Hydrogen-Bond Donorâ"Acceptor Properties. Journal of Organic Chemistry, 1997, 62, 836-839.	3.2	64
134	Quantitative Tracking of Protein Trafficking to the Nucleus Using Cytosolic Protein Delivery by Nanoparticle-Stabilized Nanocapsules. Bioconjugate Chemistry, 2015, 26, 1004-1007.	3.6	64
135	High Yield Synthesis of Aspect Ratio Controlled Graphenic Materials from Anthracite Coal in Supercritical Fluids. ACS Nano, 2016, 10, 5293-5303.	14.6	64
136	Programmed Self-Assembly of Hierarchical Nanostructures through Proteinâ€“Nanoparticle Coengineering. ACS Nano, 2017, 11, 3456-3462.	14.6	64
137	Effects of Branched Ligands on the Structure and Stability of Monolayers on Gold Nanoparticles. Langmuir, 2002, 18, 2368-2373.	3.5	63
138	Bioorthogonal Nanozymes: Progress towards Therapeutic Applications. Trends in Chemistry, 2019, 1, 90-98.	8.5	63
139	Laser desorption/ionization mass spectrometry analysis of monolayer-protected gold nanoparticles. Analytical and Bioanalytical Chemistry, 2010, 396, 1025-1035.	3.7	62
140	Dopamine coated Fe₃O₄ nanoparticles as enzyme mimics for the sensitive detection of bacteria. Chemical Communications, 2017, 53, 12306-12308.	4.1	62
141	A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. Advanced Materials, 2018, 30, e1800634.	21.0	62
142	Thermally Gated Bio-orthogonal Nanozymes with Supramolecularly Confined Porphyrin Catalysts for Antimicrobial Uses. CheM, 2020, 6, 1113-1124.	11.7	62
143	Control of Intra- versus Extracellular Bioorthogonal Catalysis Using Surface-Engineered Nanozymes. ACS Nano, 2019, 13, 229-235.	14.6	61
144	Active Targeting of the Nucleus Using Nonpeptidic Boronate Tags. Journal of the American Chemical Society, 2017, 139, 8547-8551.	13.7	60

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145	Coating of a Novel Antimicrobial Nanoparticle with a Macrophage Membrane for the Selective Entry into Infected Macrophages and Killing of Intracellular Staphylococci. Advanced Functional Materials, 2020, 30, 2004942.	14.9	59
146	Synthesis and crystal engineering of new halogenated tetrathiafulvalene (TTF) derivatives and their charge transfer complexes and radical ion salts. Journal of Materials Chemistry, 2001, 11, 2181-2191.	6.7	58
147	Chiral Plasmonic Fields Probe Structural Order of Biointerfaces. Journal of the American Chemical Society, 2018, 140, 8509-8517.	13.7	58
148	In situ activation of therapeutics through bioorthogonal catalysis. Advanced Drug Delivery Reviews, 2021, 176, 113893.	13.7	58
149	Supramolecular arrangement of protein in nanoparticle structures predicts nanoparticle tropism for neutrophils in acute lung inflammation. Nature Nanotechnology, 2022, 17, 86-97.	31.5	57
150	Isomeric Control of Protein Recognition with Amino Acidâ€•and Dipeptideâ€Functionalized Gold Nanoparticles. Chemistry - A European Journal, 2008, 14, 143-150.	3.3	56
151	Superchiral Plasmonic Phase Sensitivity for Fingerprinting of Protein Interface Structure. ACS Nano, 2017, 11, 12049-12056.	14.6	56
152	Modulation of the Interparticle Spacing and Optical Behavior of Nanoparticle Ensembles Using a Single Protein Spacer. Chemistry of Materials, 2005, 17, 6317-6322.	6.7	55
153	Biomacromolecular Stereostructure Mediates Mode Hybridization in Chiral Plasmonic Nanostructures. Nano Letters, 2016, 16, 5806-5814.	9.1	54
154	Effective detection of bacteria using metal nanoclusters. Nanoscale, 2019, 11, 22172-22181.	5.6	54
155	Engineered nanoparticle surfaces for improved mass spectrometric analyses. Analyst, The, 2009, 134, 2183.	3.5	52
156	Nanomanufacturing of biomaterials. Materials Today, 2012, 15, 478-485.	14.2	51
157	Cationic Silver Nanoclusters as Potent Antimicrobials against Multidrug-Resistant Bacteria. ACS Omega, 2018, 3, 16721-16727.	3.5	50
158	Recognition of glycosaminoglycan chemical patterns using an unbiased sensor array. Chemical Science, 2013, 4, 2076.	7.4	48
159	Targeting bacterial biofilms via surface engineering of gold nanoparticles. RSC Advances, 2015, 5, 105551-105559.	3.6	48
160	NH2-rich Carbon Quantum Dots: A protein-responsive probe for detection and identification. Sensors and Actuators B: Chemical, 2018, 255, 2725-2732.	7.8	48
161	DNA-mediated assembly of iron platinum (FePt) nanoparticles. Journal of Materials Chemistry, 2007, 17, 52-55.	6.7	47
162	Bacterial adhesion on hybrid cationic nanoparticleâ€“polymer brush surfaces: Ionic strength tunes capture from monovalent to multivalent binding. Colloids and Surfaces B: Biointerfaces, 2011, 87, 109-115.	5.0	47

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163	Bacteriophage-based nanoprobes for rapid bacteria separation. Nanoscale, 2015, 7, 16230-16236.	5.6	47
164	Surface confined pseudorotaxanes with electrochemically controllable complexation propertiesElectronic supplementary information (ESI) available: further experimental and theoretical data. See http://www.rsc.org/suppdata/jm/b3/b306274k/. Journal of Materials Chemistry, 2003, 13, 2111.	6.7	46
165	Antimicrobial surfaces containing cationic nanoparticles: How immobilized, clustered, and protruding cationic charge presentation affects killing activity and kinetics. Colloids and Surfaces B: Biointerfaces, 2015, 125, 255-263.	5.0	46
166	Structural control of the monolayer stability of water-soluble gold nanoparticles. Journal of Materials Chemistry, 2008, 18, 70-73.	6.7	45
167	Inorganic nanoparticles for therapeutic delivery: Trials, tribulations and promise. Current Opinion in Colloid and Interface Science, 2014, 19, 49-55.	7.4	45
168	Gold nanoparticle-PPE constructs as biomolecular material mimics: understanding the electrostatic and hydrophobic interactions. Soft Matter, 2009, 5, 607-612.	2.7	44
169	Immunomodulatory Effects of Coated Gold Nanoparticles in LPS-Stimulated InÂVitro and InÂVivo Murine Model Systems. CheM, 2016, 1, 320-327.	11.7	44
170	Photocleavable Hydrogels for Lightâ€Triggered siRNA Release. Advanced Healthcare Materials, 2016, 5, 305-310.	7.6	44
171	Stabilization of Î±-chymotrypsin at airâ€“water interface through surface binding to gold nanoparticle scaffolds. Soft Matter, 2006, 2, 558-560.	2.7	43
172	â€˜Bricks and mortarâ€™ nanoparticle self-assembly using polymers. Polymer International, 2007, 56, 461-466.	3.1	43
173	Control of Surface Tension at Liquidâ€“Liquid Interfaces Using Nanoparticles and Nanoparticleâ€“Protein Complexes. Langmuir, 2012, 28, 2023-2027.	3.5	43
174	Laser desorption ionization mass spectrometric imaging of mass barcoded gold nanoparticles for security applications. Chemical Communications, 2012, 48, 4543.	4.1	42
175	Aromatic Stacking Interactions in Flavin Model Systems. Accounts of Chemical Research, 2013, 46, 1000-1009.	15.6	42
176	A Multichannel Biosensor for Rapid Determination of Cell Surface Glycomic Signatures. ACS Central Science, 2015, 1, 191-197.	11.3	42
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