Vincent M Rotello

List of Publications by Citations

388 papers	35,411 citations	90 h-index	181 g-index
646 ext. papers	39,573 ext. citations	10.2 avg, IF	7.57 L-index

#	Paper	IF	Citations
388	Gold nanoparticles in chemical and biological sensing. *Chemical Reviews*, **2012**, 112, 2739-79	68.1	3476
387	Gold nanoparticles in delivery applications. *Advanced Drug Delivery Reviews*, **2008**, 60, 1307-1315	18.5	2036
386	Applications of Nanoparticles in Biology. *Advanced Materials*, **2008**, 20, 4225-4241	24	1241
385	Toxicity of gold nanoparticles functionalized with cationic and anionic side chains. *Bioconjugate Chemistry*, **2004**, 15, 897-900	6.3	1225
384	Self-assembly of nanoparticles into structured spherical and network aggregates. *Nature*, **2000**, 404, 746-8	50.4	1010
383	Gold nanoparticles: preparation, properties, and applications in bionanotechnology. *Nanoscale*, **2012**, 4, 1871-80	7.7	814
382	Diverse Applications of Nanomedicine. *ACS Nano*, **2017**, 11, 2313-2381	16.7	714
381	Glutathione-mediated delivery and release using monolayer protected nanoparticle carriers. *Journal of the American Chemical Society*, **2006**, 128, 1078-9	16.4	696
380	Detection and identification of proteins using nanoparticle-fluorescent polymer 'chemical nose' sensors. *Nature Nanotechnology*, **2007**, 2, 318-23	28.7	666
379	Surface functionalization of nanoparticles for nanomedicine. *Chemical Society Reviews*, **2012**, 41, 2539-44	38.5	552
378	Functional gold nanoparticles as potent antimicrobial agents against multi-drug-resistant bacteria. *ACS Nano*, **2014**, 8, 10682-6	16.7	484
377	Effect of nanoparticle surface charge at the plasma membrane and beyond. *Nano Letters*, **2010**, 10, 2543-8	11.5	463
376	Wide varieties of cationic nanoparticles induce defects in supported lipid bilayers. *Nano Letters*, **2008**, 8, 420-4	11.5	452
375	Tuning payload delivery in tumour cylindroids using gold nanoparticles. *Nature Nanotechnology*, **2010**, 5, 465-72	28.7	400
374	Sensing of proteins in human serum using conjugates of nanoparticles and green fluorescent protein. *Nature Chemistry*, **2009**, 1, 461-5	17.6	397
373	Combatting antibiotic-resistant bacteria using nanomaterials. *Chemical Society Reviews*, **2019**, 48, 415-427	38.5	389
372	Efficient gene delivery vectors by tuning the surface charge density of amino acid-functionalized gold nanoparticles. *ACS Nano*, **2008**, 2, 2213-8	16.7	383

371	Monolayer coated gold nanoparticles for delivery applications. *Advanced Drug Delivery Reviews*, **2012**, 64, 200-16	18.5	382
370	Magnetic assembly of colloidal superstructures with multipole symmetry. *Nature*, **2009**, 457, 999-1002	50.4	357
369	Gold nanoparticle platforms as drug and biomacromolecule delivery systems. *Journal of Controlled Release*, **2010**, 148, 122-127	11.7	355
368	Nanoparticle hydrophobicity dictates immune response. *Journal of the American Chemical Society*, **2012**, 134, 3965-7	16.4	342
367	Rapid and efficient identification of bacteria using gold-nanoparticle-poly(para-phenyleneethynylene) constructs. *Angewandte Chemie - International Edition*, **2008**, 47, 2590-4	16.4	334
366	Gold nanoparticles for nucleic acid delivery. *Molecular Therapy*, **2014**, 22, 1075-1083	11.7	316
365	Direct Cytosolic Delivery of CRISPR/Cas9-Ribonucleoprotein for Efficient Gene Editing. *ACS Nano*, **2017**, 11, 2452-2458	16.7	312
364	Gold nanoparticle-fluorophore complexes: sensitive and discerning "noses" for biosystems sensing. *Angewandte Chemie - International Edition*, **2010**, 49, 3268-79	16.4	307
363	Supramolecular regulation of bioorthogonal catalysis in cells using nanoparticle-embedded transition metal catalysts. *Nature Chemistry*, **2015**, 7, 597-603	17.6	300
362	The role of surface functionality in determining nanoparticle cytotoxicity. *Accounts of Chemical Research*, **2013**, 46, 681-91	24.3	284
361	Entrapment of hydrophobic drugs in nanoparticle monolayers with efficient release into cancer cells. *Journal of the American Chemical Society*, **2009**, 131, 1360-1	16.4	276
360	Colorimetric bacteria sensing using a supramolecular enzyme-nanoparticle biosensor. *Journal of the American Chemical Society*, **2011**, 133, 9650-3	16.4	273
359	Modulating pharmacokinetics, tumor uptake and biodistribution by engineered nanoparticles. *PLoS ONE*, **2011**, 6, e24374	3.7	267
358	Control of protein structure and function through surface recognition by tailored nanoparticle scaffolds. *Journal of the American Chemical Society*, **2004**, 126, 739-43	16.4	261
357	Current trends and challenges in cancer management and therapy using designer nanomaterials. *Nano Convergence*, **2019**, 6, 23	9.2	260
356	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, 10912-6	11.5	259
355	Biomimetic interactions of proteins with functionalized nanoparticles: a thermodynamic study. *Journal of the American Chemical Society*, **2007**, 129, 10747-53	16.4	254
354	The Interplay of Size and Surface Functionality on the Cellular Uptake of Sub-10 nm Gold Nanoparticles. *ACS Nano*, **2015**, 9, 9986-93	16.7	250

353	Fabrication of corona-free nanoparticles with tunable hydrophobicity. *ACS Nano*, **2014**, 8, 6748-55	16.7	239
352	Inhibition of DNA transcription using cationic mixed monolayer protected gold clusters. *Journal of the American Chemical Society*, **2001**, 123, 7626-9	16.4	234
351	From Enzyme to Molecular Device. Exploring the Interdependence of Redox and Molecular Recognition. *Accounts of Chemical Research*, **1999**, 32, 44-52	24.3	228
350	Tunable inhibition and denaturation of alpha-chymotrypsin with amino acid-functionalized gold nanoparticles. *Journal of the American Chemical Society*, **2005**, 127, 12873-81	16.4	224
349	Promises and pitfalls of intracellular delivery of proteins. *Bioconjugate Chemistry*, **2014**, 25, 1602-8	6.3	204
348	The role of surface functionality on acute cytotoxicity, ROS generation and DNA damage by cationic gold nanoparticles. *Small*, **2010**, 6, 2246-9	11	203
347	Surface PEGylation and Ligand Exchange Chemistry of FePt Nanoparticles for Biological Applications. *Chemistry of Materials*, **2005**, 17, 4617-4621	9.6	200
346	Regulation of Macrophage Recognition through the Interplay of Nanoparticle Surface Functionality and Protein Corona. *ACS Nano*, **2016**, 10, 4421-30	16.7	197
345	Integrating recognition elements with nanomaterials for bacteria sensing. *Chemical Society Reviews* , **2017**, 46, 1272-1283	58.5	193
344	Aggregation and interaction of cationic nanoparticles on bacterial surfaces. *Journal of the American Chemical Society*, **2012**, 134, 6920-3	16.4	180
343	Enzyme-amplified array sensing of proteins in solution and in biofluids. *Journal of the American Chemical Society*, **2010**, 132, 5285-9	16.4	180
342	Nanoscale graphene oxide (nGO) as artificial receptors: implications for biomolecular interactions and sensing. *Journal of the American Chemical Society*, **2012**, 134, 16725-33	16.4	171
341	Controlled Plasmon Resonance of Gold Nanoparticles Self-Assembled with PAMAM Dendrimers. *Chemistry of Materials*, **2005**, 17, 487-490	9.6	170
340	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, 5018-23	11.5	163
339	Giant Vesicle Formation through Self-Assembly of Complementary Random Copolymers. *Journal of the American Chemical Society*, **2000**, 122, 5895-5896	16.4	161
338	Direct delivery of functional proteins and enzymes to the cytosol using nanoparticle-stabilized nanocapsules. *ACS Nano*, **2013**, 7, 6667-6673	16.7	154
337	Intracellular delivery of a membrane-impermeable enzyme in active form using functionalized gold nanoparticles. *Journal of the American Chemical Society*, **2010**, 132, 2642-5	16.4	153
336	Nanomaterial-based therapeutics for antibiotic-resistant bacterial infections. *Nature Reviews Microbiology*, **2021**, 19, 23-36	22.2	151

335	Tunable reactivation of nanoparticle-inhibited beta-galactosidase by glutathione at intracellular concentrations. *Journal of the American Chemical Society*, **2004**, 126, 13987-91	16.4	147
334	Surface functionality of nanoparticles determines cellular uptake mechanisms in mammalian cells. *Small*, **2013**, 9, 300-305	11	143
333	Array-based sensing of normal, cancerous, and metastatic cells using conjugated fluorescent polymers. *Journal of the American Chemical Society*, **2010**, 132, 1018-22	16.4	136
332	Nanoparticle-Stabilized Capsules for the Treatment of Bacterial Biofilms. *ACS Nano*, **2015**, 9, 7775-82	16.7	134
331	Acylsulfonamide-Functionalized Zwitterionic Gold Nanoparticles for Enhanced Cellular Uptake at Tumor pH. *Angewandte Chemie - International Edition*, **2015**, 54, 6567-70	16.4	133
330	Surface Charge Controls the Suborgan Biodistributions of Gold Nanoparticles. *ACS Nano*, **2016**, 10, 5536-42	16.7	132
329	In Vivo Delivery of CRISPR/Cas9 for Therapeutic Gene Editing: Progress and Challenges. *Bioconjugate Chemistry*, **2017**, 28, 880-884	6.3	129
328	"Superchiral" Spectroscopy: Detection of Protein Higher Order Hierarchical Structure with Chiral Plasmonic Nanostructures. *Journal of the American Chemical Society*, **2015**, 137, 8380-3	16.4	127
327	Model Systems for Flavoenzyme Activity:□One- and Two-Electron Reduction of Flavins in Aprotic Hydrophobic Environments. *Journal of the American Chemical Society*, **1997**, 119, 887-892	16.4	127
326	Formation and pH-controlled assembly of amphiphilic gold nanoparticles. *Chemical Communications* , **2000**, 1943-1944	5.8	125
325	Reversible Side Chain Modification through Noncovalent Interactions. □Plug and Play□Polymers. *Macromolecules*, **2001**, 34, 2597-2601	5.5	124
324	Array-based sensing with nanoparticles: 'chemical noses' for sensing biomolecules and cell surfaces. *Current Opinion in Chemical Biology*, **2010**, 14, 728-36	9.7	118
323	Modulation of the catalytic behavior of alpha-chymotrypsin at monolayer-protected nanoparticle surfaces. *Journal of the American Chemical Society*, **2006**, 128, 14612-8	16.4	117
322	Engineering the nanoparticle-biomacromolecule interface. *Soft Matter*, **2006**, 2, 190-204	3.6	113
321	A multichannel nanosensor for instantaneous readout of cancer drug mechanisms. *Nature Nanotechnology*, **2015**, 10, 65-9	28.7	108
320	Colorimetric Detection of Escherichia coli Based on the Enzyme-Induced Metallization of Gold Nanorods. *Small*, **2016**, 12, 2469-75	11	108
319	Stability of quantum dots in live cells. *Nature Chemistry*, **2011**, 3, 963-8	17.6	107
318	Multiplexed screening of cellular uptake of gold nanoparticles using laser desorption/ionization mass spectrometry. *Journal of the American Chemical Society*, **2008**, 130, 14139-43	16.4	107

317	Protein delivery into cells using inorganic nanoparticle-protein supramolecular assemblies. *Chemical Society Reviews*, **2018**, 47, 3421-3432	58.5	106
316	Drug delivery using nanoparticle-stabilized nanocapsules. *Angewandte Chemie - International Edition*, **2011**, 50, 477-81	16.4	103
315	Selectivity and Specificity: Pros and Cons in Sensing. *ACS Sensors*, **2016**, 1, 1282-1285	9.2	103
314	Effects of engineered nanoparticles on the innate immune system. *Seminars in Immunology*, **2017**, 34, 25-32	10.7	102
313	Control of nanoparticle penetration into biofilms through surface design. *Chemical Communications* , **2015**, 51, 282-5	5.8	99
312	Ratiometric Array of Conjugated Polymers-Fluorescent Protein Provides a Robust Mammalian Cell Sensor. *Journal of the American Chemical Society*, **2016**, 138, 4522-9	16.4	98
311	Protein coronas suppress the hemolytic activity of hydrophilic and hydrophobic nanoparticles. *Materials Horizons*, **2014**, 2014, 102-105	14.4	97
310	Detection of Escherichia coli in drinking water using T7 bacteriophage-conjugated magnetic probe. *Analytical Chemistry*, **2015**, 87, 8977-84	7.8	96
309	Monolayer Exchange Chemistry of □Fe2O3 Nanoparticles. *Chemistry of Materials*, **2002**, 14, 2628-2636	9.6	96
308	Ultrastable and Biofunctionalizable Gold Nanoparticles. *ACS Applied Materials & Interfaces*, **2016**, 8, 14096-101	9.5	96
307	Array-based "Chemical Nose" Sensing in Diagnostics and Drug Discovery. *Angewandte Chemie - International Edition*, **2019**, 58, 5190-5200	16.4	96
306	Cell surface-based differentiation of cell types and cancer states using a gold nanoparticle-GFP based sensing array. *Chemical Science*, **2010**, 1, 134	9.4	95
305	Metal Directed Assembly of Terpyridine-Functionalized Gold Nanoparticles. *Nano Letters*, **2002**, 2, 1345-1348	11.5	95
304	Reversible "irreversible" inhibition of chymotrypsin using nanoparticle receptors. *Journal of the American Chemical Society*, **2003**, 125, 13387-91	16.4	94
303	Recognition-directed orthogonal self-assembly of polymers and nanoparticles on patterned surfaces. *Journal of the American Chemical Society*, **2006**, 128, 3162-3	16.4	93
302	Charge-Switchable Nanozymes for Bioorthogonal Imaging of Biofilm-Associated Infections. *ACS Nano*, **2018**, 12, 89-94	16.7	93
301	Triggered Nanoparticles as Therapeutics. *Nano Today*, **2013**, 8, 439-447	17.9	90
300	Monolayer-controlled substrate selectivity using noncovalent enzyme-nanoparticle conjugates. *Journal of the American Chemical Society*, **2004**, 126, 13572-3	16.4	90

299	Nanoparticle-Based Antimicrobials: Surface Functionality is Critical. *F1000Research*, **2016**, 5,	3.6	90
298	Colorimetric protein sensing using catalytically amplified sensor arrays. *Small*, **2012**, 8, 3589-92	11	89
297	Model Systems for Flavoenzyme Activity. Modulation of Flavin Redox Potentials through Stacking Interactions. *Journal of the American Chemical Society*, **1997**, 119, 1165-1166	16.4	88
296	Fully Zwitterionic Nanoparticle Antimicrobial Agents through Tuning of Core Size and Ligand Structure. *ACS Nano*, **2016**, 10, 8732-7	16.7	87
295	Array-based sensing of metastatic cells and tissues using nanoparticle-fluorescent protein conjugates. *ACS Nano*, **2012**, 6, 8233-40	16.7	86
294	Cancer Cell Discrimination Using Host-Guest "Doubled" Arrays. *Journal of the American Chemical Society*, **2017**, 139, 8008-8012	16.4	85
293	Intra- and Intermonolayer Hydrogen Bonding in Amide-Functionalized Alkanethiol Self-Assembled Monolayers on Gold Nanoparticles. *Langmuir*, **2000**, 16, 9527-9532	4	84
292	Nanomaterials for the Treatment of Bacterial Biofilms. *ACS Infectious Diseases*, **2016**, 2, 3-4	5.5	81
291	Recognition-Mediated Unfolding of a Self-Assembled Polymeric Globule. *Macromolecules*, **1999**, 32, 4956-4960	5.5	80
290	General Strategy for Direct Cytosolic Protein Delivery via Protein-Nanoparticle Co-engineering. *ACS Nano*, **2017**, 11, 6416-6421	16.7	79
289	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	16.4	79
288	Facial control of nanoparticle binding to cytochrome C. *Journal of the American Chemical Society*, **2007**, 129, 2732-3	16.4	77
287	Modulation of Spacing and Magnetic Properties of Iron Oxide Nanoparticles through Polymer-Mediated Bricks and Mortar Self-assembly. *Chemistry of Materials*, **2004**, 16, 3252-3256	9.6	72
286	Synthetic "chaperones": nanoparticle-mediated refolding of thermally denatured proteins. *Chemical Communications*, **2008**, 3504-6	5.8	70
285	Cell surface-based sensing with metallic nanoparticles. *Chemical Society Reviews*, **2015**, 44, 4264-4274	58.5	69
284	Disposable Plasmonics: Plastic Templated Plasmonic Metamaterials with Tunable Chirality. *Advanced Materials*, **2015**, 27, 5610-6	24	69
283	Stability, toxicity and differential cellular uptake of protein passivated-Fe3O4nanoparticles. *Journal of Materials Chemistry*, **2009**, 19, 6328		69
282	Effect of ionic strength on the binding of alpha-chymotrypsin to nanoparticle receptors. *Langmuir*, **2004**, 20, 4178-81	4	67

281	Co-delivery of protein and small molecule therapeutics using nanoparticle-stabilized nanocapsules. *Bioconjugate Chemistry*, **2015**, 26, 950-4	6.3	65
280	Catalytic microcapsules assembled from enzyme-nanoparticle conjugates at oil-water interfaces. *Angewandte Chemie - International Edition*, **2009**, 48, 5341-4	16.4	65
279	Multiplexed imaging of nanoparticles in tissues using laser desorption/ionization mass spectrometry. *Journal of the American Chemical Society*, **2013**, 135, 12564-7	16.4	64
278	Formation of Recognition-Induced Polymersomes Using Complementary Rigid Random Copolymers. *Macromolecules*, **2002**, 35, 9621-9623	5.5	64
277	Triple-Negative Breast Cancer: A Review of Conventional and Advanced Therapeutic Strategies. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	63
276	Intracellular delivery of proteins by nanocarriers. *Nanomedicine*, **2017**, 12, 941-952	5.6	62
275	Delivery of drugs, proteins, and nucleic acids using inorganic nanoparticles. *Advanced Drug Delivery Reviews*, **2020**, 156, 188-213	18.5	62
274	Biodegradable Nanocomposite Antimicrobials for the Eradication of Multidrug-Resistant Bacterial Biofilms without Accumulated Resistance. *Journal of the American Chemical Society*, **2018**, 140, 6176-6182	16.4	62
273	Electrostatic self-assembly of structured gold nanoparticle/polyhedral oligomeric silsesquioxane (POSS) nanocomposites. *Journal of Materials Chemistry*, **2004**, 14, 690		62
272	Effects of Branched Ligands on the Structure and Stability of Monolayers on Gold Nanoparticles. *Langmuir*, **2002**, 18, 2368-2373	4	61
271	Detection of bacteria using inkjet-printed enzymatic test strips. *ACS Applied Materials & Interfaces*, **2014**, 6, 19525-30	9.5	60
270	Model systems for flavoenzyme activity: relationships between cofactor structure, binding and redox properties. *Journal of the American Chemical Society*, **2003**, 125, 15789-95	16.4	60
269	Model Systems for Flavoenzyme Activity. Regulation of Flavin Recognition via Modulation of Receptor Hydrogen-Bond Donor/Acceptor Properties. *Journal of Organic Chemistry*, **1997**, 62, 836-839	4.2	59
268	Cross-Linked Polymer-Stabilized Nanocomposites for the Treatment of Bacterial Biofilms. *ACS Nano*, **2017**, 11, 946-952	16.7	58
267	Solution-processed boron subphthalocyanine derivatives as acceptors for organic bulk-heterojunction solar cells. *Journal of Materials Chemistry A*, **2015**, 3, 7345-7352	13	58
266	Rapid identification of bacterial biofilms and biofilm wound models using a multichannel nanosensor. *ACS Nano*, **2014**, 8, 12014-9	16.7	58
265	CRISPRed Macrophages for Cell-Based Cancer Immunotherapy. *Bioconjugate Chemistry*, **2018**, 29, 445-450	6.3	57
264	High-content imaging and gene expression analysis to study cell-nanomaterial interactions: the effect of surface hydrophobicity. *Biomaterials*, **2014**, 35, 9941-9950	15.6	56

263	Programmed Self-Assembly of Hierarchical Nanostructures through Protein-Nanoparticle Coengineering. *ACS Nano*, **2017**, 11, 3456-3462	16.7	55
262	Protein Delivery into the Cell Cytosol using Non-Viral Nanocarriers. *Theranostics*, **2019**, 9, 3280-3292	12.1	55
261	Progress and perspective of inorganic nanoparticle-based siRNA delivery systems. *Expert Opinion on Drug Delivery*, **2016**, 13, 547-59	8	55
260	Direct Cytosolic Delivery of Proteins through Coengineering of Proteins and Polymeric Delivery Vehicles. *Journal of the American Chemical Society*, **2020**, 142, 4349-4355	16.4	53
259	Laser desorption/ionization mass spectrometry analysis of monolayer-protected gold nanoparticles. *Analytical and Bioanalytical Chemistry*, **2010**, 396, 1025-35	4.4	53
258	Synergistic antimicrobial therapy using nanoparticles and antibiotics for the treatment of multidrug-resistant bacterial infection. *Nano Futures*, **2017**, 1, 015004	3.6	52
257	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		52
256	Modulation of the Interparticle Spacing and Optical Behavior of Nanoparticle Ensembles Using a Single Protein Spacer. *Chemistry of Materials*, **2005**, 17, 6317-6322	9.6	51
255	High Yield Synthesis of Aspect Ratio Controlled Graphenic Materials from Anthracite Coal in Supercritical Fluids. *ACS Nano*, **2016**, 10, 5293-303	16.7	51
254	Engineered nanoparticle surfaces for improved mass spectrometric analyses. *Analyst, The*, **2009**, 134, 2183-8	5	50
253	Modulation of Immune Response Using Engineered Nanoparticle Surfaces. *Small*, **2016**, 12, 76-82	11	50
252	Quantitative tracking of protein trafficking to the nucleus using cytosolic protein delivery by nanoparticle-stabilized nanocapsules. *Bioconjugate Chemistry*, **2015**, 26, 1004-7	6.3	49
251	Nanomanufacturing of biomaterials. *Materials Today*, **2012**, 15, 478-485	21.8	49
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249	Active Targeting of the Nucleus Using Nonpeptidic Boronate Tags. *Journal of the American Chemical Society*, **2017**, 139, 8547-8551	16.4	46
248	Dopamine coated FeO nanoparticles as enzyme mimics for the sensitive detection of bacteria. *Chemical Communications*, **2017**, 53, 12306-12308	5.8	46
247	Bacterial adhesion on hybrid cationic nanoparticle-polymer brush surfaces: ionic strength tunes capture from monovalent to multivalent binding. *Colloids and Surfaces B: Biointerfaces*, **2011**, 87, 109-15	6	45
246	Biomacromolecular Stereostructure Mediates Mode Hybridization in Chiral Plasmonic Nanostructures. *Nano Letters*, **2016**, 16, 5806-14	11.5	44

245	Structural control of the monolayer stability of water-soluble gold nanoparticles. *Journal of Materials Chemistry*, **2008**, 18, 70-73		44
244	A Rapid and Robust Diagnostic for Liver Fibrosis Using a Multichannel Polymer Sensor Array. *Advanced Materials*, **2018**, 30, e1800634	24	44
243	Surface confined pseudorotaxanes with electrochemically controllable complexation properties. *Journal of Materials Chemistry*, **2003**, 13, 2111		43
242	Polymer-Based Bioorthogonal Nanocatalysts for the Treatment of Bacterial Biofilms. *Journal of the American Chemical Society*, **2020**, 142, 10723-10729	16.4	42
241	Direct cytosolic delivery of siRNA using nanoparticle-stabilized nanocapsules. *Angewandte Chemie - International Edition*, **2015**, 54, 506-10	16.4	42
240	Recognition of glycosaminoglycan chemical patterns using an unbiased sensor array. *Chemical Science*, **2013**, 4, 2076	9.4	42
239	Superchiral Plasmonic Phase Sensitivity for Fingerprinting of Protein Interface Structure. *ACS Nano*, **2017**, 11, 12049-12056	16.7	42
238	Gold nanoparticle-PPE constructs as biomolecular material mimics: understanding the electrostatic and hydrophobic interactions. *Soft Matter*, **2009**, 5, 607-612	3.6	42
237	Bricks and mortar nanoparticle self-assembly using polymers. *Polymer International*, **2007**, 56, 461-466	3.3	42
236	Stabilization of chymotrypsin at air-water interface through surface binding to gold nanoparticle scaffolds. *Soft Matter*, **2006**, 2, 558-560	3.6	42
235	Chiral Plasmonic Fields Probe Structural Order of Biointerfaces. *Journal of the American Chemical Society*, **2018**, 140, 8509-8517	16.4	40
234	Nanoimprinted Polyethyleneimine: A Multimodal Template for Nanoparticle Assembly and Immobilization. *Advanced Functional Materials*, **2009**, 19, 2937-2942	15.6	40
233	Bacteriophage-based nanoprobes for rapid bacteria separation. *Nanoscale*, **2015**, 7, 16230-6	7.7	39
232	Immobilization and stabilization of lipase (CaLB) through hierarchical interfacial assembly. *Biomacromolecules*, **2014**, 15, 3915-22	6.9	39
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230	Control of Intra- versus Extracellular Bioorthogonal Catalysis Using Surface-Engineered Nanozymes. *ACS Nano*, **2019**, 13, 229-235	16.7	39
229	Inorganic Nanoparticles for Therapeutic Delivery: Trials, Tribulations and Promise. *Current Opinion in Colloid and Interface Science*, **2014**, 19, 49-55	7.6	38
228	Control of surface tension at liquid-liquid interfaces using nanoparticles and nanoparticle-protein complexes. *Langmuir*, **2012**, 28, 2023-7	4	38

227	Photocleavable Hydrogels for Light-Triggered siRNA Release. *Advanced Healthcare Materials*, **2016**, 5, 305-310	10.1	37
226	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, 255-63	6	37
225	Laser desorption ionization mass spectrometric imaging of mass barcoded gold nanoparticles for security applications. *Chemical Communications*, **2012**, 48, 4543-5	5.8	37
224	Bioorthogonal nanozymes: progress towards therapeutic applications. *Trends in Chemistry*, **2019**, 1, 90-98	14.8	35
223	NH2-rich Carbon Quantum Dots: A protein-responsive probe for detection and identification. *Sensors and Actuators B: Chemical*, **2018**, 255, 2725-2732	8.5	35
222	Determination of the intracellular stability of gold nanoparticle monolayers using mass spectrometry. *Analytical Chemistry*, **2012**, 84, 4321-6	7.8	35
221	Aromatic stacking interactions in flavin model systems. *Accounts of Chemical Research*, **2013**, 46, 1000-9	24.3	34
220	Targeting bacterial biofilms via surface engineering of gold nanoparticles. *RSC Advances*, **2015**, 5, 105551-105559	3.7	34
219	Direct patterning of quantum dot nanostructuresviaelectron beam lithography. *Journal of Materials Chemistry*, **2011**, 21, 16859		34
218	"Cleaning" of nanoparticle inhibitors via proteolysis of adsorbed proteins. *Chemical Communications*, **2006**, 2338-40	5.8	34
217	Cationic Silver Nanoclusters as Potent Antimicrobials against Multidrug-Resistant Bacteria. *ACS Omega*, **2018**, 3, 16721-16727	3.9	34
216	Cellular imaging of endosome entrapped small gold nanoparticles. *MethodsX*, **2015**, 2, 306-15	1.9	33
215	Model systems for flavoenzyme activity. Control of flavin recognition via specific electrostatic interactions. *Organic Letters*, **2001**, 3, 1531-4	6.2	33
214	A Multichannel Biosensor for Rapid Determination of Cell Surface Glycomic Signatures. *ACS Central Science*, **2015**, 1, 191-197	16.8	32
213	Spatial control of chemical processes on nanostructures through nano-localized water heating. *Nature Communications*, **2016**, 7, 10946	17.4	32
212	Sensing by Smell: Nanoparticle-Enzyme Sensors for Rapid and Sensitive Detection of Bacteria with Olfactory Output. *ACS Nano*, **2017**, 11, 5339-5343	16.7	30
211	Reusable biocatalytic crosslinked microparticles self-assembled from enzyme-nanoparticle complexes. *Chemical Communications*, **2011**, 47, 12077-9	5.8	30
210	Externally controlled drug release using a gold nanorod contained composite membrane. *Nanoscale*, **2016**, 8, 11949-55	7.7	30

209	Quantitative imaging of 2 nm monolayer-protected gold nanoparticle distributions in tissues using laser ablation inductively-coupled plasma mass spectrometry (LA-ICP-MS). *Analyst, The*, **2016**, 141, 2418-25	5	30
208	Array-based sensing using nanoparticles: an alternative approach for cancer diagnostics. *Nanomedicine*, **2014**, 9, 1487-98	5.6	29
207	Water-Dispersible and Biocompatible Iron Carbide Nanoparticles with High Specific Absorption Rate. *ACS Nano*, **2019**, 13, 2870-2878	16.7	29
206	Development of Engineered Bacteriophages for Escherichia coli Detection and High-Throughput Antibiotic Resistance Determination. *ACS Sensors*, **2017**, 2, 484-489	9.2	28
205	Continuous synthesis of high quality CdSe quantum dots in supercritical fluids. *Journal of Materials Chemistry C*, **2015**, 3, 7561-7566	7.1	28
204	Intracellular Activation of Bioorthogonal Nanozymes through Endosomal Proteolysis of the Protein Corona. *ACS Nano*, **2020**, 14, 4767-4773	16.7	28
203	Thermally Gated Bio-orthogonal Nanozymes with Supramolecularly Confined Porphyrin Catalysts for Antimicrobial Uses. *CheM*, **2020**, 6, 1113-1124	16.2	28
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