

Wolfgang J Parak

List of Publications by Year in descending order

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500
papers

49,385
citations

1368

108
h-index

1792

211
g-index

529
all docs

529
docs citations

529
times ranked

49731
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibacterial properties of nanoparticles. Trends in Biotechnology, 2012, 30, 499-511.	4.9	2,113
2	Biological applications of gold nanoparticles. Chemical Society Reviews, 2008, 37, 1896.	18.7	1,603
3	Cytotoxicity of Colloidal CdSe and CdSe/ZnS Nanoparticles. Nano Letters, 2005, 5, 331-338.	4.5	1,527
4	Surface modification, functionalization and bioconjugation of colloidal inorganic nanoparticles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 1333-1383.	1.6	1,294
5	Synthesis and Properties of Biocompatible Water-Soluble Silica-Coated CdSe/ZnS Semiconductor Quantum Dots. Journal of Physical Chemistry B, 2001, 105, 8861-8871.	1.2	1,221
6	Biological applications of magnetic nanoparticles. Chemical Society Reviews, 2012, 41, 4306.	18.7	1,079
7	Prospects of Nanoscience with Nanocrystals. ACS Nano, 2015, 9, 1012-1057.	7.3	1,005
8	Hydrophobic Nanocrystals Coated with an Amphiphilic Polymer Shell: A General Route to Water Soluble Nanocrystals. Nano Letters, 2004, 4, 703-707.	4.5	1,003
9	Diverse Applications of Nanomedicine. ACS Nano, 2017, 11, 2313-2381.	7.3	976
10	Surface Functionalization of Nanoparticles with Polyethylene Glycol: Effects on Protein Adsorption and Cellular Uptake. ACS Nano, 2015, 9, 6996-7008.	7.3	717
11	The Role of Ligands in the Chemical Synthesis and Applications of Inorganic Nanoparticles. Chemical Reviews, 2019, 119, 4819-4880.	23.0	709
12	Gold Nanoparticles Quench Fluorescence by Phase Induced Radiative Rate Suppression. Nano Letters, 2005, 5, 585-589.	4.5	704
13	Synthesis, Characterization, and Bioconjugation of Fluorescent Gold Nanoclusters toward Biological Labeling Applications. ACS Nano, 2009, 3, 395-401.	7.3	700
14	Biological applications of colloidal nanocrystals. Nanotechnology, 2003, 14, R15-R27.	1.3	698
15	A quantitative fluorescence study of protein monolayer formation on colloidal nanoparticles. Nature Nanotechnology, 2009, 4, 577-580.	15.6	673
16	Cellular toxicity of inorganic nanoparticles: Common aspects and guidelines for improved nanotoxicity evaluation. Nano Today, 2011, 6, 446-465.	6.2	581
17	The Role of Metal Nanoparticles in Remote Release of Encapsulated Materials. Nano Letters, 2005, 5, 1371-1377.	4.5	533
18	Polymer-Coated Nanoparticles Interacting with Proteins and Cells: Focusing on the Sign of the Net Charge. ACS Nano, 2013, 7, 3253-3263.	7.3	477

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19	A Decade of the Protein Corona. <i>ACS Nano</i> , 2017, 11, 11773-11776.	7.3	477
20	Laser-Induced Release of Encapsulated Materials inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2006, 45, 4612-4617.	7.2	466
21	Protein corona formation around nanoparticles – from the past to the future. <i>Materials Horizons</i> , 2014, 1, 301-313.	6.4	464
22	Biodistribution of PEG-modified gold nanoparticles following intratracheal instillation and intravenous injection. <i>Biomaterials</i> , 2010, 31, 6574-6581.	5.7	461
23	Electrophoretic Isolation of Discrete Au Nanocrystal/DNA Conjugates. <i>Nano Letters</i> , 2001, 1, 32-35.	4.5	457
24	Minimum information reporting in bio-nano experimental literature. <i>Nature Nanotechnology</i> , 2018, 13, 777-785.	15.6	455
25	Labelling of cells with quantum dots. <i>Nanotechnology</i> , 2005, 16, R9-R25.	1.3	438
26	Design of an Amphiphilic Polymer for Nanoparticle Coating and Functionalization. <i>Small</i> , 2008, 4, 334-341.	5.2	429
27	(Intra)Cellular Stability of Inorganic Nanoparticles: Effects on Cytotoxicity, Particle Functionality, and Biomedical Applications. <i>Chemical Reviews</i> , 2015, 115, 2109-2135.	23.0	429
28	CuTe Nanocrystals: Shape and Size Control, Plasmonic Properties, and Use as SERS Probes and Photothermal Agents. <i>Journal of the American Chemical Society</i> , 2013, 135, 7098-7101.	6.6	403
29	Size and Surface Effects on the MRI Relaxivity of Manganese Ferrite Nanoparticle Contrast Agents. <i>Nano Letters</i> , 2007, 7, 2422-2427.	4.5	401
30	Cell Motility and Metastatic Potential Studies Based on Quantum Dot Imaging of Phagokinetic Tracks. <i>Advanced Materials</i> , 2002, 14, 882.	11.1	386
31	In vivo degeneration and the fate of inorganic nanoparticles. <i>Chemical Society Reviews</i> , 2016, 45, 2440-2457.	18.7	355
32	On the Development of Colloidal Nanoparticles towards Multifunctional Structures and their Possible Use for Biological Applications. <i>Small</i> , 2004, 1, 48-63.	5.2	353
33	Dissecting the Molecular Mechanism of Apoptosis during Photothermal Therapy Using Gold Nanoprisms. <i>ACS Nano</i> , 2015, 9, 52-61.	7.3	336
34	The Challenge To Relate the Physicochemical Properties of Colloidal Nanoparticles to Their Cytotoxicity. <i>Accounts of Chemical Research</i> , 2013, 46, 743-749.	7.6	330
35	Conformation of Oligonucleotides Attached to Gold Nanocrystals Probed by Gel Electrophoresis. <i>Nano Letters</i> , 2003, 3, 33-36.	4.5	318
36	Quantum-Dot-Based Photoelectrochemical Sensors for Chemical and Biological Detection. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 2800-2814.	4.0	314

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37	In vivo integrity of polymer-coated gold nanoparticles. <i>Nature Nanotechnology</i> , 2015, 10, 619-623.	15.6	314
38	Quantitative Evaluation of Cellular Uptake and Trafficking of Plain and Polyethylene Glycol-Coated Gold Nanoparticles. <i>Small</i> , 2010, 6, 1669-1678.	5.2	313
39	Conjugation of DNA to Silanized Colloidal Semiconductor Nanocrystalline Quantum Dots. <i>Chemistry of Materials</i> , 2002, 14, 2113-2119.	3.2	312
40	Interaction of colloidal nanoparticles with their local environment: the (ionic) nanoenvironment around nanoparticles is different from bulk and determines the physico-chemical properties of the nanoparticles. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20130931.	1.5	308
41	Room-Temperature Single-Nucleotide Polymorphism and Multiallele DNA Detection Using Fluorescent Nanocrystals and Microarrays. <i>Analytical Chemistry</i> , 2003, 75, 4766-4772.	3.2	302
42	Temperature: The Ignored Factor at the NanoBio Interface. <i>ACS Nano</i> , 2013, 7, 6555-6562.	7.3	299
43	Correlating Physico-Chemical with Toxicological Properties of Nanoparticles: The Present and the Future. <i>ACS Nano</i> , 2010, 4, 5527-5531.	7.3	296
44	Sorting Fluorescent Nanocrystals with DNA. <i>Journal of the American Chemical Society</i> , 2002, 124, 7070-7074.	6.6	293
45	Sequential Growth of Magic-Size CdSe Nanocrystals. <i>Advanced Materials</i> , 2007, 19, 548-552.	11.1	289
46	Polyelectrolyte microcapsules for biomedical applications. <i>Soft Matter</i> , 2009, 5, 282-291.	1.2	276
47	Nanoengineered Polymer Capsules: Tools for Detection, Controlled Delivery, and Site-Specific Manipulation. <i>Small</i> , 2005, 1, 194-200.	5.2	271
48	Polymer-Coated Nanoparticles: A Universal Tool for Biolabelling Experiments. <i>Small</i> , 2011, 7, 3113-3127.	5.2	261
49	Polymer microcapsules as mobile local pH-sensors. <i>Journal of Materials Chemistry</i> , 2007, 17, 4471.	6.7	245
50	Cytotoxic Effects of Gold Nanoparticles: A Multiparametric Study. <i>ACS Nano</i> , 2012, 6, 5767-5783.	7.3	239
51	Selected Standard Protocols for the Synthesis, Phase Transfer, and Characterization of Inorganic Colloidal Nanoparticles. <i>Chemistry of Materials</i> , 2017, 29, 399-461.	3.2	233
52	Selective Growth of PbSe on One or Both Tips of Colloidal Semiconductor Nanorods. <i>Nano Letters</i> , 2005, 5, 445-449.	4.5	228
53	Multifunctionalized Polymer Microcapsules: Novel Tools for Biological and Pharmacological Applications. <i>Small</i> , 2007, 3, 944-955.	5.2	223
54	Positioning metal-organic framework nanoparticles within the context of drug delivery – A comparison with mesoporous silica nanoparticles and dendrimers. <i>Biomaterials</i> , 2017, 123, 172-183.	5.7	221

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55	Electrophoretic and Structural Studies of DNA-Directed Au Nanoparticle Groupings. <i>Journal of Physical Chemistry B</i> , 2002, 106, 11758-11763.	1.2	214
56	The State of Nanoparticle-Based Nanoscience and Biotechnology: Progress, Promises, and Challenges. <i>ACS Nano</i> , 2012, 6, 8468-8483.	7.3	211
57	Airâ€“Blood Barrier Translocation of Tracheally Instilled Gold Nanoparticles Inversely Depends on Particle Size. <i>ACS Nano</i> , 2014, 8, 222-233.	7.3	211
58	The Future of Layer-by-Layer Assembly: A Tribute to <i>ACS Nano</i> Associate Editor Helmuth MÃ¶hwald. <i>ACS Nano</i> , 2019, 13, 6151-6169.	7.3	211
59	Water dispersible upconverting nanoparticles: effects of surface modification on their luminescence and colloidal stability. <i>Nanoscale</i> , 2015, 7, 1403-1410.	2.8	210
60	LbL multilayer capsules: recent progress and future outlook for their use in life sciences. <i>Nanoscale</i> , 2010, 2, 458.	2.8	208
61	Electrophoretic Separation of Nanoparticles with a Discrete Number of Functional Groups. <i>Advanced Functional Materials</i> , 2006, 16, 943-948.	7.8	202
62	Magnetic Targeting and Cellular Uptake of Polymer Microcapsules Simultaneously Functionalized with Magnetic and Luminescent Nanocrystals. <i>Langmuir</i> , 2005, 21, 4262-4265.	1.6	192
63	Back to Basics: Exploiting the Innate Physicoâ€“chemical Characteristics of Nanomaterials for Biomedical Applications. <i>Advanced Functional Materials</i> , 2014, 24, 5936-5955.	7.8	192
64	One-Dimensional Arrangement of Gold Nanoparticles by Electrospinning. <i>Chemistry of Materials</i> , 2005, 17, 4949-4957.	3.2	189
65	Quantitative analysis of the protein corona on FePt nanoparticles formed by transferrin binding. <i>Journal of the Royal Society Interface</i> , 2010, 7, S5-S13.	1.5	189
66	Investigating the Cytoskeleton of Chicken Cardiocytes with the Atomic Force Microscope. <i>Journal of Structural Biology</i> , 1997, 119, 84-91.	1.3	186
67	Interfacing Engineered Nanoparticles with Biological Systems: Anticipating Adverse Nanoâ€“Bio Interactions. <i>Small</i> , 2013, 9, 1573-1584.	5.2	176
68	Intracellular Processing of Proteins Mediated by Biodegradable Polyelectrolyte Capsules. <i>Nano Letters</i> , 2009, 9, 4398-4402.	4.5	175
69	Multiple Internalization Pathways of Polyelectrolyte Multilayer Capsules into Mammalian Cells. <i>ACS Nano</i> , 2013, 7, 6605-6618.	7.3	174
70	Synthesis and Characterization of Polymer-Coated Quantum Dots with Integrated Acceptor Dyes as FRET-Based Nanoprobes. <i>Nano Letters</i> , 2007, 7, 2613-2617.	4.5	173
71	Nanopharmacy: Inorganic nanoscale devices as vectors and active compounds. <i>Pharmacological Research</i> , 2010, 62, 115-125.	3.1	171
72	Uptake of Colloidal Polyelectrolyteâ€“Coated Particles and Polyelectrolyte Multilayer Capsules by Living Cells. <i>Advanced Materials</i> , 2008, 20, 4281-4287.	11.1	170

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73	Controlled antibody/(bio-) conjugation of inorganic nanoparticles for targeted delivery. <i>Advanced Drug Delivery Reviews</i> , 2013, 65, 677-688.	6.6	169
74	Stiffness-Dependent In Vitro Uptake and Lysosomal Acidification of Colloidal Particles. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1365-1368.	7.2	169
75	Multiple Wurtzite Twinning in CdTe Nanocrystals Induced by Methylphosphonic Acid. <i>Journal of the American Chemical Society</i> , 2006, 128, 748-755.	6.6	165
76	Multiple particle tracking in 3-D+t microscopy: method and application to the tracking of endocytosed quantum dots. <i>IEEE Transactions on Image Processing</i> , 2006, 15, 1062-1070.	6.0	164
77	Size Determination of (Bio)conjugated Water-Soluble Colloidal Nanoparticles: A Comparison of Different Techniques. <i>Journal of Physical Chemistry C</i> , 2007, 111, 11552-11559.	1.5	164
78	Fluorescent, magnetic and plasmonic Hybrid multifunctional colloidal nano objects. <i>Nano Today</i> , 2012, 7, 282-296.	6.2	164
79	Substrate dependent differences in morphology and elasticity of living osteoblasts investigated by atomic force microscopy. <i>Colloids and Surfaces B: Biointerfaces</i> , 2000, 19, 367-379.	2.5	160
80	Dual Enzymatic Reaction-Assisted Gemcitabine Delivery Systems for Programmed Pancreatic Cancer Therapy. <i>ACS Nano</i> , 2017, 11, 1281-1291.	7.3	160
81	Polymeric multilayer capsules delivering biotherapeutics. <i>Advanced Drug Delivery Reviews</i> , 2011, 63, 748-761.	6.6	150
82	Surface Enhanced Raman Scattering Encoded Gold Nanostars for Multiplexed Cell Discrimination. <i>Chemistry of Materials</i> , 2016, 28, 6779-6790.	3.2	147
83	Gold NanoStoves for Microsecond DNA Melting Analysis. <i>Nano Letters</i> , 2008, 8, 619-623.	4.5	144
84	Magnetic Resonance Imaging Contrast Agents Based on Iron Oxide Superparamagnetic Ferrofluids. <i>Chemistry of Materials</i> , 2010, 22, 1739-1748.	3.2	140
85	Physicochemical Properties of Protein-Coated Gold Nanoparticles in Biological Fluids and Cells before and after Proteolytic Digestion. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 4179-4183.	7.2	138
86	Photoactivated Release of Cargo from the Cavity of Polyelectrolyte Capsules to the Cytosol of Cells. <i>Langmuir</i> , 2008, 24, 12517-12520.	1.6	137
87	Rare earth based nanostructured materials: synthesis, functionalization, properties and bioimaging and biosensing applications. <i>Nanophotonics</i> , 2017, 6, 881-921.	2.9	137
88	Mapping the mechanical pulse of single cardiomyocytes with the atomic force microscope. <i>European Biophysics Journal</i> , 1999, 28, 179-186.	1.2	136
89	Luminescent CdTe nanocrystals as ion probes and pH sensors in aqueous solutions. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 281, 40-43.	2.3	135
90	The Toxicity of Silver Nanoparticles Depends on Their Uptake by Cells and Thus on Their Surface Chemistry. <i>Particle and Particle Systems Characterization</i> , 2013, 30, 1079-1085.	1.2	131

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91	Influence of Size and Shape on the Anatomical Distribution of Endotoxin-Free Gold Nanoparticles. ACS Nano, 2017, 11, 5519-5529.	7.3	131
92	In vitro interaction of colloidal nanoparticles with mammalian cells: What have we learned thus far?. Beilstein Journal of Nanotechnology, 2014, 5, 1477-1490.	1.5	130
93	Molecular Weight, Osmotic Second Virial Coefficient, and Extinction Coefficient of Colloidal CdSe Nanocrystals. Journal of Physical Chemistry B, 2002, 106, 5500-5505.	1.2	128
94	Combined Atomic Force Microscopy and Optical Microscopy Measurements as a Method To Investigate Particle Uptake by Cells. Small, 2006, 2, 394-400.	5.2	127
95	The influence of the size and aspect ratio of anisotropic, porous CaCO ₃ particles on their uptake by cells. Journal of Nanobiotechnology, 2015, 13, 53.	4.2	127
96	Techniques for the experimental investigation of the protein corona. Current Opinion in Biotechnology, 2017, 46, 106-113.	3.3	126
97	Composite Nanoparticles Take Aim at Cancer. ACS Nano, 2008, 2, 2200-2205.	7.3	125
98	Ligand density on nanoparticles: A parameter with critical impact on nanomedicine. Advanced Drug Delivery Reviews, 2019, 143, 22-36.	6.6	124
99	On the mechanical stability of polymeric microcontainers functionalized with nanoparticles. Soft Matter, 2009, 5, 148-155.	1.2	122
100	SERS Quantification and Characterization of Proteins and Other Biomolecules. Langmuir, 2017, 33, 9711-9730.	1.6	121
101	Characterization of protein adsorption onto FePt nanoparticles using dual-focus fluorescence correlation spectroscopy. Beilstein Journal of Nanotechnology, 2011, 2, 374-383.	1.5	119
102	Cytotoxicity of nanoparticle-loaded polymer capsules. Talanta, 2005, 67, 486-491.	2.9	118
103	In situ detection of the protein corona in complex environments. Nature Communications, 2017, 8, 1542.	5.8	117
104	Phase Transfer and Polymer Coating Methods toward Improving the Stability of Metallic Nanoparticles for Biological Applications. Chemistry of Materials, 2015, 27, 990-997.	3.2	116
105	Light-Controlled Bioelectrochemical Sensor Based on CdSe/ZnS Quantum Dots. Analytical Chemistry, 2011, 83, 7778-7785.	3.2	115
106	Basic Physicochemical Properties of Polyethylene Glycol Coated Gold Nanoparticles that Determine Their Interaction with Cells. Angewandte Chemie - International Edition, 2016, 55, 5483-5487.	7.2	115
107	Tumour homing and therapeutic effect of colloidal nanoparticles depend on the number of attached antibodies. Nature Communications, 2016, 7, 13818.	5.8	115
108	Catalytic Azide Reduction in Biological Environments. ChemBioChem, 2012, 13, 1116-1120.	1.3	113

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109	How Entanglement of Different Physicochemical Properties Complicates the Prediction of <i>in Vitro</i> and <i>in Vivo</i> Interactions of Gold Nanoparticles. <i>ACS Nano</i> , 2018, 12, 10104-10113.	7.3	113
110	Quantification of the internalization patterns of superparamagnetic iron oxide nanoparticles with opposite charge. <i>Journal of Nanobiotechnology</i> , 2012, 10, 28.	4.2	110
111	Cell-Imprinted Substrates Direct the Fate of Stem Cells. <i>ACS Nano</i> , 2013, 7, 8379-8384.	7.3	110
112	Multifunctional Nanoparticles for Dual Imaging. <i>Analytical Chemistry</i> , 2011, 83, 2877-2882.	3.2	109
113	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). <i>Journal of Materials Chemistry</i> , 2007, 17, 1343-1346.	6.7	108
114	Magnetically triggered release of molecular cargo from iron oxide nanoparticle loaded microcapsules. <i>Nanoscale</i> , 2015, 7, 570-576.	2.8	107
115	Light-Addressable Capsules as Caged Compound Matrix for Controlled Triggering of Cytosolic Reactions. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 695-699.	7.2	104
116	Gel Electrophoresis of Gold-DNA Nanoconjugates. <i>Journal of Biomedicine and Biotechnology</i> , 2007, 2007, 1-9.	3.0	103
117	Aqueous Stable Gold Nanostar/ZIF-8 Nanocomposites for Light-Triggered Release of Active Cargo Inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 7078-7082.	7.2	103
118	pH-Sensitive Capsules as Intracellular Optical Reporters for Monitoring Lysosomal pH Changes Upon Stimulation. <i>Small</i> , 2012, 8, 943-948.	5.2	100
119	Exploration of MOF nanoparticle sizes using various physical characterization methods "is what you measure what you get?". <i>CrystEngComm</i> , 2016, 18, 4359-4368.	1.3	100
120	Adenosine Triphosphate-Triggered Release of Macromolecular and Nanoparticle Loads from Aptamer/DNA-Cross-Linked Microcapsules. <i>ACS Nano</i> , 2015, 9, 9078-9086.	7.3	98
121	Ion and pH Sensing with Colloidal Nanoparticles: Influence of Surface Charge on Sensing and Colloidal Properties. <i>ChemPhysChem</i> , 2010, 11, 730-735.	1.0	96
122	NIR-light triggered delivery of macromolecules into the cytosol. <i>Journal of Controlled Release</i> , 2012, 159, 120-127.	4.8	96
123	Multiplexed Sensing of Ions with Barcoded Polyelectrolyte Capsules. <i>ACS Nano</i> , 2011, 5, 9668-9674.	7.3	95
124	Nanoparticle-modified polyelectrolyte capsules. <i>Nano Today</i> , 2008, 3, 12-21.	6.2	93
125	Protein-mediated synthesis, pH-induced reversible agglomeration, toxicity and cellular interaction of silver nanoparticles. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 511-518.	2.5	93
126	Model Driven Optimization of Magnetic Anisotropy of Exchange-Coupled Core-Shell Ferrite Nanoparticles for Maximal Hysteretic Loss. <i>Chemistry of Materials</i> , 2015, 27, 7380-7387.	3.2	93

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127	Fluorescentâ€“Magnetic Hybrid Nanoparticles Induce a Doseâ€“Dependent Increase in Proinflammatory Response in Lung Cells in vitro Correlated with Intracellular Localization. <i>Small</i> , 2010, 6, 753-762.	5.2	91
128	Where Are We Heading in Nanotechnology Environmental Health and Safety and Materials Characterization?. <i>ACS Nano</i> , 2015, 9, 5627-5630.	7.3	91
129	Colloidal Gold Nanoparticles Induce Changes in Cellular and Subcellular Morphology. <i>ACS Nano</i> , 2017, 11, 7807-7820.	7.3	88
130	Bridge over troubled waters: understanding the synthetic and biological identities of engineered nanomaterials. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2013, 5, 111-129.	3.3	87
131	Nanoparticles for radiooncology: Mission, vision, challenges. <i>Biomaterials</i> , 2017, 120, 155-184.	5.7	87
132	Nanomedicine delivery: does protein corona route to the target or off road?. <i>Nanomedicine</i> , 2015, 10, 3231-3247.	1.7	86
133	Magnetic Capsules for NMR Imaging: Effect of Magnetic Nanoparticles Spatial Distribution and Aggregation. <i>Journal of Physical Chemistry C</i> , 2011, 115, 6257-6264.	1.5	83
134	Effects of surface functionalization on the adsorption of human serum albumin onto nanoparticles â€“ a fluorescence correlation spectroscopy study. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 2036-2047.	1.5	83
135	The Application of Stimuliâ€“Responsive VEGFâ€“and ATPâ€“Aptamerâ€“Based Microcapsules for the Controlled Release of an Anticancer Drug, and the Selective Targeted Cytotoxicity toward Cancer Cells. <i>Advanced Functional Materials</i> , 2016, 26, 4262-4273.	7.8	83
136	Quantum dot-based cell motility assay. <i>Differentiation</i> , 2003, 71, 542-548.	1.0	82
137	Quantum Dots on Gold: Electrodes For Photoswitchable Cytochromeâ€“c Electrochemistry. <i>Small</i> , 2006, 2, 741-743.	5.2	82
138	Blue light emitting diodes based on fluorescent CdSeâ€“ZnS nanocrystals. <i>Applied Physics Letters</i> , 2007, 90, 051106.	1.5	82
139	A Novel Flowâ€“Cytometryâ€“Based Assay for Cellular Uptake Studies of Polyelectrolyte Microcapsules. <i>Small</i> , 2008, 4, 1763-1768.	5.2	77
140	Laser Fragmentation of Colloidal Gold Nanoparticles with High-Intensity Nanosecond Pulses is Driven by a Single-Step Fragmentation Mechanism with a Defined Educt Particle-Size Threshold. <i>Journal of Physical Chemistry C</i> , 2018, 122, 22125-22136.	1.5	77
141	Nanobuffering of pH-Responsive Polymers: A Known but Sometimes Overlooked Phenomenon and Its Biological Applications. <i>ACS Nano</i> , 2019, 13, 4876-4882.	7.3	77
142	Discontinuous Growth of IIâ€“VI Semiconductor Nanocrystals from Different Materials. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6205-6215.	1.5	76
143	Colloidal Stability and Surface Chemistry Are Key Factors for the Composition of the Protein Corona of Inorganic Gold Nanoparticles. <i>Advanced Functional Materials</i> , 2017, 27, 1701956.	7.8	76
144	Quantitative Surface-Enhanced Raman Scattering Ultradetection of Atomic Inorganic Ions: The Case of Chloride. <i>ACS Nano</i> , 2011, 5, 7539-7546.	7.3	75

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145	Homogeneous Biosensing Based on Magnetic Particle Labels. <i>Sensors</i> , 2016, 16, 828.	2.1	75
146	Rhenium Complexes with Visible-Light-Induced Anticancer Activity. <i>ChemMedChem</i> , 2013, 8, 924-927.	1.6	74
147	Plasmonic Nanoprobes for Real-Time Optical Monitoring of Nitric Oxide inside Living Cells. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 13694-13698.	7.2	74
148	Quantum-Dot-Modified Electrode in Combination with NADH-Dependent Dehydrogenase Reactions for Substrate Analysis. <i>Langmuir</i> , 2010, 26, 1395-1400.	1.6	72
149	Programmed pH-Responsive Microcapsules for the Controlled Release of CdSe/ZnS Quantum Dots. <i>ACS Nano</i> , 2016, 10, 8683-8689.	7.3	72
150	Extracellular measurements of averaged ionic currents with the light-addressable potentiometric sensor (LAPS). <i>Sensors and Actuators B: Chemical</i> , 2004, 98, 299-304.	4.0	71
151	Ligand exchange of CdSe nanocrystals probed by optical spectroscopy in the visible and mid-IR. <i>Journal of Materials Chemistry</i> , 2008, 18, 2728.	6.7	71
152	Lateral resolution of light-addressable potentiometric sensors: an experimental and theoretical investigation. <i>Sensors and Actuators A: Physical</i> , 1997, 63, 47-57.	2.0	70
153	Ratiometric Optical Sensing of Chloride Ions with Organic Fluorophore-Gold Nanoparticle Hybrids: A Systematic Study of Design Parameters and Surface Charge Effects. <i>Small</i> , 2010, 6, 2590-2597.	5.2	70
154	High-Content Imaging and Gene Expression Approaches To Unravel the Effect of Surface Functionality on Cellular Interactions of Silver Nanoparticles. <i>ACS Nano</i> , 2015, 9, 10431-10444.	7.3	70
155	Light-Triggered Ruthenium-Catalyzed Allylcarbamate Cleavage in Biological Environments. <i>Organometallics</i> , 2012, 31, 5968-5970.	1.1	67
156	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. <i>Nano Today</i> , 2021, 39, 101184.	6.2	67
157	A novel design of multi-light LAPS based on digital compensation of frequency domain. <i>Sensors and Actuators B: Chemical</i> , 2001, 73, 152-156.	4.0	66
158	Gene Silencing Mediated by Magnetic Lipospheres Tagged with Small Interfering RNA. <i>Nano Letters</i> , 2010, 10, 3914-3921.	4.5	66
159	Quantification of gold nanoparticle cell uptake under controlled biological conditions and adequate resolution. <i>Nanomedicine</i> , 2014, 9, 607-621.	1.7	66
160	Investigation of the spatial resolution of the light-addressable potentiometric sensor. <i>Sensors and Actuators A: Physical</i> , 2000, 86, 187-196.	2.0	65
161	Synthesis and Characterization of Ratiometric Ion-Sensitive Polyelectrolyte Capsules. <i>Small</i> , 2011, 7, 351-363.	5.2	65
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