Ralph A Sperling

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6236753/publications.pdf

Version: 2024-02-01

33	7,998	236925	395702
papers	citations	25 h-index	33 g-index

34	34	34	14195
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biological applications of gold nanoparticles. Chemical Society Reviews, 2008, 37, 1896.	38.1	1,603
2	Surface modification, functionalization and bioconjugation of colloidal inorganic nanoparticles. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 1333-1383.	3.4	1,294
3	Single-cell ChIP-seq reveals cell subpopulations defined by chromatin state. Nature Biotechnology, 2015, 33, 1165-1172.	17.5	748
4	Synthesis, Characterization, and Bioconjugation of Fluorescent Gold Nanoclusters toward Biological Labeling Applications. ACS Nano, 2009, 3, 395-401.	14.6	700
5	Biodistribution of PEG-modified gold nanoparticles following intratracheal instillation and intravenous injection. Biomaterials, 2010, 31, 6574-6581.	11.4	461
6	Design of an Amphiphilic Polymer for Nanoparticle Coating and Functionalization. Small, 2008, 4, 334-341.	10.0	429
7	Size and Surface Effects on the MRI Relaxivity of Manganese Ferrite Nanoparticle Contrast Agents. Nano Letters, 2007, 7, 2422-2427.	9.1	401
8	Quantifying cell-generated mechanical forces within living embryonic tissues. Nature Methods, 2014, 11, 183-189.	19.0	336
9	Airâ€“Blood Barrier Translocation of Tracheally Instilled Gold Nanoparticles Inversely Depends on Particle Size. ACS Nano, 2014, 8, 222-233.	14.6	211
10	Electrophoretic Separation of Nanoparticles with a Discrete Number of Functional Groups. Advanced Functional Materials, 2006, 16, 943-948.	14.9	202
11	One-Dimensional Arrangement of Gold Nanoparticles by Electrospinning. Chemistry of Materials, 2005, 17, 4949-4957.	6.7	189
12	Synthesis and Characterization of Polymer-Coated Quantum Dots with Integrated Acceptor Dyes as FRET-Based Nanoprobes. Nano Letters, 2007, 7, 2613-2617.	9.1	173
13	Size Determination of (Bio)conjugated Water-Soluble Colloidal Nanoparticles:â€‰ A Comparison of Different Techniques. Journal of Physical Chemistry C, 2007, 111, 11552-11559.	3.1	164
14	Gold NanoStoves for Microsecond DNA Melting Analysis. Nano Letters, 2008, 8, 619-623.	9.1	144
15	Magnetic Resonance Imaging Contrast Agents Based on Iron Oxide Superparamagnetic Ferrofluids. Chemistry of Materials, 2010, 22, 1739-1748.	6.7	140
16	Observation of spatial propagation of amyloid assembly from single nuclei. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 14746-14751.	7.1	134
17	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). Journal of Materials Chemistry, 2007, 17, 1343-1346.	6.7	108
18	Gel Electrophoresis of Gold-DNA Nanoconjugates. Journal of Biomedicine and Biotechnology, 2007, 2007, 1-9.	3.0	103

#	Article	IF	Citations
19	DNA sequence analysis with droplet-based microfluidics. Lab on A Chip, 2013, 13, 4864.	6.0	103
20	High-Throughput Single-Cell Labeling (Hi-SCL) for RNA-Seq Using Drop-Based Microfluidics. PLoS ONE, 2015, 10, e0116328.	2.5	64
21	DNA Melting in Gold Nanostove Clusters. Journal of Physical Chemistry C, 2010, 114, 7401-7411.	3.1	50
22	Synchronized reinjection and coalescence of droplets in microfluidics. Lab on A Chip, 2014, 14, 509-513.	6.0	50
23	Microwave dielectric heating of non-aqueous droplets in a microfluidic device for nanoparticle synthesis. Nanoscale, 2013, 5, 5468.	5.6	36
24	A Novel Implantable Glaucoma Valve Using Ferrofluid. PLoS ONE, 2013, 8, e67404.	2.5	27
25	Inorganic Engineered Nanoparticles and Their Impact on the Immune Response. Current Drug Metabolism, 2009, 10, 895-904.	1.2	25
26	Tracking of Cellular Uptake of Hydrophilic CdSe/ZnS Quantum Dots/Hydroxyapatite Composites Nanoparticles in MC3T3-E1 Osteoblast Cells. Journal of Nanoscience and Nanotechnology, 2009, 9, 2758-2762.	0.9	22
27	Spatial Propagation of Protein Polymerization. Physical Review Letters, 2014, 112, 098101.	7.8	20
28	Efficient extraction of oil from droplet microfluidic emulsions. Biomicrofluidics, 2017, 11, 034111.	2.4	15
29	The effect of PEG-coated gold nanoparticles on the anti-proliferative potential of Specific Nutrient Synergy. Nanotoxicology, 2010, 4, 177-185.	3.0	14
30	Chloroform- and Water-Soluble Solâ€“Gel Derived $hbox{Eu}^{+++}/hbox{Y}_{{m 2}}hbox{O}_{{m 3}}$ (Red) and $hbox{Tb}^{+++}/hbox{Y}_{{m 2}}hbox{O}_{{m 3}}$ (Green) Nanophosphors: Synthesis, Characterization, and Surface Modification. IEEE Transactions on Nanobioscience, 2009, 8, 43-50.	3.3	8
31	Dielectrophoretic trapping of DNA-coated gold nanoparticles on silicon based vertical nanogap devices. Physical Chemistry Chemical Physics, 2011, 13, 9973.	2.8	8
32	QUANTUM DOT APPLICATIONS IN BIOTECHNOLOGY: PROGRESS AND CHALLENGES. Annual Review of Nano Research, 2006, , 467-530.	0.2	4
33	Synthesis and surface modification of highly fluorescent gold nanoclusters and their exploitation for cellular labeling. , 2010, , .		2