

Ralph A Sperling

List of Publications by Year in descending order

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33
papers

7,998
citations

236925

25
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

14195
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficient extraction of oil from droplet microfluidic emulsions. <i>Biomicrofluidics</i> , 2017, 11, 034111.	2.4	15
2	Single-cell ChIP-seq reveals cell subpopulations defined by chromatin state. <i>Nature Biotechnology</i> , 2015, 33, 1165-1172.	17.5	748
3	High-Throughput Single-Cell Labeling (Hi-SCL) for RNA-Seq Using Drop-Based Microfluidics. <i>PLoS ONE</i> , 2015, 10, e0116328.	2.5	64
4	Quantifying cell-generated mechanical forces within living embryonic tissues. <i>Nature Methods</i> , 2014, 11, 183-189.	19.0	336
5	Air-“Blood Barrier Translocation of Tracheally Instilled Gold Nanoparticles Inversely Depends on Particle Size. <i>ACS Nano</i> , 2014, 8, 222-233.	14.6	211
6	Synchronized reinjection and coalescence of droplets in microfluidics. <i>Lab on A Chip</i> , 2014, 14, 509-513.	6.0	50
7	Spatial Propagation of Protein Polymerization. <i>Physical Review Letters</i> , 2014, 112, 098101.	7.8	20
8	DNA sequence analysis with droplet-based microfluidics. <i>Lab on A Chip</i> , 2013, 13, 4864.	6.0	103
9	Microwave dielectric heating of non-aqueous droplets in a microfluidic device for nanoparticle synthesis. <i>Nanoscale</i> , 2013, 5, 5468.	5.6	36
10	A Novel Implantable Glaucoma Valve Using Ferrofluid. <i>PLoS ONE</i> , 2013, 8, e67404.	2.5	27
11	Dielectrophoretic trapping of DNA-coated gold nanoparticles on silicon based vertical nanogap devices. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 9973.	2.8	8
12	Observation of spatial propagation of amyloid assembly from single nuclei. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 14746-14751.	7.1	134
13	Surface modification, functionalization and bioconjugation of colloidal inorganic nanoparticles. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1333-1383.	3.4	1,294
14	Biodistribution of PEG-modified gold nanoparticles following intratracheal instillation and intravenous injection. <i>Biomaterials</i> , 2010, 31, 6574-6581.	11.4	461
15	Synthesis and surface modification of highly fluorescent gold nanoclusters and their exploitation for cellular labeling. , 2010, , .		2
16	DNA Melting in Gold Nanostove Clusters. <i>Journal of Physical Chemistry C</i> , 2010, 114, 7401-7411.	3.1	50
17	Magnetic Resonance Imaging Contrast Agents Based on Iron Oxide Superparamagnetic Ferrofluids. <i>Chemistry of Materials</i> , 2010, 22, 1739-1748.	6.7	140
18	The effect of PEG-coated gold nanoparticles on the anti-proliferative potential of Specific Nutrient Synergy. <i>Nanotoxicology</i> , 2010, 4, 177-185.	3.0	14

#	ARTICLE	IF	CITATIONS
19	Tracking of Cellular Uptake of Hydrophilic CdSe/ZnS Quantum Dots/Hydroxyapatite Composites Nanoparticles in MC3T3-E1 Osteoblast Cells. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 2758-2762.	0.9	22
20	Inorganic Engineered Nanoparticles and Their Impact on the Immune Response. <i>Current Drug Metabolism</i> , 2009, 10, 895-904.	1.2	25
21	Synthesis, Characterization, and Bioconjugation of Fluorescent Gold Nanoclusters toward Biological Labeling Applications. <i>ACS Nano</i> , 2009, 3, 395-401.	14.6	700
22	Chloroform- and Water-Soluble Sol-gel Derived $\text{Eu}^{+++}/\text{Y}_{m2}\text{O}_{m3}$ (Red) and $\text{Tb}^{+++}/\text{Y}_{m2}\text{O}_{m3}$ (Green) Nanophosphors: Synthesis, Characterization, and Surface Modification. <i>IEEE Transactions on Nanobioscience</i> , 2009, 8, 43-50.	3.3	8
23	Design of an Amphiphilic Polymer for Nanoparticle Coating and Functionalization. <i>Small</i> , 2008, 4, 334-341.	10.0	429
24	Biological applications of gold nanoparticles. <i>Chemical Society Reviews</i> , 2008, 37, 1896.	38.1	1,603
25	Gold NanoStoves for Microsecond DNA Melting Analysis. <i>Nano Letters</i> , 2008, 8, 619-623.	9.1	144
26	Bioanalytics and biolabeling with semiconductor nanoparticles (quantum dots). <i>Journal of Materials Chemistry</i> , 2007, 17, 1343-1346.	6.7	108
27	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.	3.1	164
28	Synthesis and Characterization of Polymer-Coated Quantum Dots with Integrated Acceptor Dyes as FRET-Based Nanoprobes. <i>Nano Letters</i> , 2007, 7, 2613-2617.	9.1	173
29	Gel Electrophoresis of Gold-DNA Nanoconjugates. <i>Journal of Biomedicine and Biotechnology</i> , 2007, 1-9.	3.0	103
30	Size and Surface Effects on the MRI Relaxivity of Manganese Ferrite Nanoparticle Contrast Agents. <i>Nano Letters</i> , 2007, 7, 2422-2427.	9.1	401
31	Electrophoretic Separation of Nanoparticles with a Discrete Number of Functional Groups. <i>Advanced Functional Materials</i> , 2006, 16, 943-948.	14.9	202
32	QUANTUM DOT APPLICATIONS IN BIOTECHNOLOGY: PROGRESS AND CHALLENGES. <i>Annual Review of Nano Research</i> , 2006, , 467-530.	0.2	4
33	One-Dimensional Arrangement of Gold Nanoparticles by Electrospinning. <i>Chemistry of Materials</i> , 2005, 17, 4949-4957.	6.7	189