

# Carsten Snnichsen

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

77  
papers

9,771  
citations

42  
h-index

83  
g-index

83  
ext. papers

10,542  
ext. citations

9.1  
avg, IF

5.99  
L-index

#	Paper	IF	Citations
77	Implantable Sensors Based on Gold Nanoparticles for Continuous Long-Term Concentration Monitoring in the Body. <i>Nano Letters</i> , <b>2021</b> , 21, 3325-3330	11.5	7
76	Warhead Reactivity Limits the Speed of Inhibition of the Cysteine Protease Rhodesain. <i>ACS Chemical Biology</i> , <b>2021</b> , 16, 661-670	4.9	3
75	Intensity-Based Single Particle Plasmon Sensing. <i>Nano Letters</i> , <b>2021</b> , 21, 2053-2058	11.5	11
74	Single Out-of-Resonance Dielectric Nanoparticles as Molecular Sensors. <i>ACS Sensors</i> , <b>2021</b> , 6, 716-721	9.2	3
73	Interfacial States Cause Equal Decay of Plasmons and Hot Electrons at Gold-Metal Oxide Interfaces. <i>Nano Letters</i> , <b>2020</b> , 20, 3338-3343	11.5	21
72	CTAB Stabilizes Silver on Gold Nanorods. <i>Chemistry of Materials</i> , <b>2020</b> , 32, 1650-1656	9.6	21
71	Plasmonic Nanosensors for the Label-Free Imaging of Dynamic Protein Patterns. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 4554-4558	6.4	6
70	Structural and mechanistic insights into the interaction of the circadian transcription factor BMAL1 with the KIX domain of the CREB-binding protein. <i>Journal of Biological Chemistry</i> , <b>2019</b> , 294, 16604-16619	5.4	5
69	Plasmon damping depends on the chemical nature of the nanoparticle interface. <i>Science Advances</i> , <b>2019</b> , 5, eaav0704	14.3	80
68	Narrowing the Plasmonic Sensitivity Distribution by Considering the Individual Size of Gold Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 10133-10137	3.8	11
67	Particle Plasmons as Dipole Antennas: State Representation of Relative Observables. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 19116-19123	3.8	15
66	Synthesis of Au-CdS@CdSe Hybrid Nanoparticles with a Highly Reactive Gold Domain. <i>Langmuir</i> , <b>2018</b> , 34, 187-190	4	6
65	Plasmonic Nanosensors Reveal a Height Dependence of MinDE Protein Oscillations on Membrane Features. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 17901-17906	16.4	15
64	Conformational Dynamics of a Single Protein Monitored for 24 h at Video Rate. <i>Nano Letters</i> , <b>2018</b> , 18, 6633-6637	11.5	33
63	Chemical Interface Damping Depends on Electrons Reaching the Surface. <i>ACS Nano</i> , <b>2017</b> , 11, 2886-2893	16.7	170
62	Plasmonic Nanosensors for the Determination of Drug Effectiveness on Membrane Receptors. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 218-223	9.5	5
61	Momentum Distribution of Electrons Emitted from Resonantly Excited Individual Gold Nanorods. <i>Nano Letters</i> , <b>2017</b> , 17, 6606-6612	11.5	20

60	Potassium Triggers a Reversible Specific Stiffness Transition of Polyethylene Glycol. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 22396-22402	3.8	8
59	Gold Nanorods as Plasmonic Sensors for Particle Diffusion. <i>Journal of Physical Chemistry Letters</i> , <b>2016</b> , 7, 4951-4955	6.4	17
58	Organization into Higher Ordered Ring Structures Counteracts Membrane Binding of IM30, a Protein Associated with Inner Membranes in Chloroplasts and Cyanobacteria. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 14954-62	5.4	25
57	Single Particle Plasmon Sensors as Label-Free Technique To Monitor MinDE Protein Wave Propagation on Membranes. <i>Nano Letters</i> , <b>2016</b> , 16, 3540-4	11.5	20
56	The role of halide ions in the anisotropic growth of gold nanoparticles: a microscopic, atomistic perspective. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 13246-54	3.6	91
55	Mechanical properties of MDCK II cells exposed to gold nanorods. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 223-31	3	15
54	Comparative evaluation of the impact on endothelial cells induced by different nanoparticle structures and functionalization. <i>Beilstein Journal of Nanotechnology</i> , <b>2015</b> , 6, 300-12	3	29
53	Plasmonic Core-Satellite Assemblies as Highly Sensitive Refractive Index Sensors. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 5577-5582	3.8	29
52	Plasmonic nanosensors for simultaneous quantification of multiple protein-protein binding affinities. <i>Nano Letters</i> , <b>2014</b> , 14, 5528-32	11.5	53
51	Surface asymmetry of coated spherical nanoparticles. <i>Nano Letters</i> , <b>2014</b> , 14, 4138-44	11.5	28
50	Mammalian cell growth on gold nanoparticle-decorated substrates is influenced by the nanoparticle coating. <i>Beilstein Journal of Nanotechnology</i> , <b>2014</b> , 5, 2479-88	3	6
49	Transient Absorption of Gold Nanorods Induced by Femtosecond Laser Irradiation. <i>Ukrainian Journal of Physics</i> , <b>2014</b> , 59, 331-335	0.4	1
48	Multiplexed plasmon sensor for rapid label-free analyte detection. <i>Nano Letters</i> , <b>2013</b> , 13, 3243-7	11.5	89
47	Angular trapping of anisometric nano-objects in a fluid. <i>Nano Letters</i> , <b>2012</b> , 12, 5791-6	11.5	17
46	A new approach to assess gold nanoparticle uptake by mammalian cells: combining optical dark-field and transmission electron microscopy. <i>Small</i> , <b>2012</b> , 8, 3683-90	11	58
45	Single unlabeled protein detection on individual plasmonic nanoparticles. <i>Nano Letters</i> , <b>2012</b> , 12, 1092-5	11.5	284
44	Highly sensitive plasmonic silver nanorods. <i>ACS Nano</i> , <b>2011</b> , 5, 6880-5	16.7	119
43	Phase separated Cu@Fe <sub>3</sub> O <sub>4</sub> heterodimer nanoparticles from organometallic reactants. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 8605		42

42	Toxicity of gold-nanoparticles: synergistic effects of shape and surface functionalization on micromotility of epithelial cells. <i>Nanotoxicology</i> , <b>2011</b> , 5, 254-68	5.3	126
41	Physics. Detecting intruders on the nanoscale. <i>Science</i> , <b>2011</b> , 332, 1389-90	33.3	5
40	Absorption properties of metal-semiconductor hybrid nanoparticles. <i>ACS Nano</i> , <b>2011</b> , 5, 4712-9	16.7	177
39	Light-controlled one-sided growth of large plasmonic gold domains on quantum rods observed on the single particle level <b>2010</b> ,		2
38	LbL multilayer capsules: recent progress and future outlook for their use in life sciences. <i>Nanoscale</i> , <b>2010</b> , 2, 458-67	7.7	196
37	Planar metamaterial analogue of electromagnetically induced transparency for plasmonic sensing. <i>Nano Letters</i> , <b>2010</b> , 10, 1103-7	11.5	966
36	Probing the Size Effect of Co <sub>2</sub> FeGa-SiO <sub>2</sub> @C Nanocomposite Particles Prepared by a Chemical Approach. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6575-6582	9.6	20
35	Nanoassembled plasmonic-photonic hybrid cavity for tailored light-matter coupling. <i>Nano Letters</i> , <b>2010</b> , 10, 891-5	11.5	145
34	Plasmonic-photonic hybrid cavity for tailored light-matter coupling <b>2010</b> ,		1
33	The Optimal Aspect Ratio of Gold Nanorods for Plasmonic Bio-sensing. <i>Plasmonics</i> , <b>2010</b> , 5, 161-167	2.4	373
32	Au@MnO <sub>2</sub> -Nanoblumen-Hybrid-Nanokomposite zur selektiven dualen Funktionalisierung und Bildgebung. <i>Angewandte Chemie</i> , <b>2010</b> , 122, 4068-4072	3.6	25
31	Au@MnO nanoflowers: hybrid nanocomposites for selective dual functionalization and imaging. <i>Angewandte Chemie - International Edition</i> , <b>2010</b> , 49, 3976-80	16.4	128
30	Selbstorganisation amphiphiler Nanokristalle. <i>Angewandte Chemie</i> , <b>2009</b> , 121, 4346-4347	3.6	8
29	Self-assembly of amphiphilic nanocrystals. <i>Angewandte Chemie - International Edition</i> , <b>2009</b> , 48, 4282-3	16.4	18
28	Growth Kinetic of a Rod-Shaped Metal Nanocrystal. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10390-10394	3.8	45
27	Rotational Dynamics of Laterally Frozen Nanoparticles Specifically Attached to Biomembranes. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 11179-11183	3.8	33
26	Tuning Plasmonic Properties by Alloying Copper into Gold Nanorods. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 2200-2204	3.8	55
25	Light-controlled one-sided growth of large plasmonic gold domains on quantum rods observed on the single particle level. <i>Nano Letters</i> , <b>2009</b> , 9, 3710-4	11.5	99

24	Synthesis of rod-shaped gold nanorattles with improved plasmon sensitivity and catalytic activity. <i>Journal of the American Chemical Society</i> , <b>2009</b> , 131, 1871-5	16.4	280
23	Cytotoxicity of metal and semiconductor nanoparticles indicated by cellular micromotility. <i>ACS Nano</i> , <b>2009</b> , 3, 213-22	16.7	104
22	Mapping the polarization pattern of plasmon modes reveals nanoparticle symmetry. <i>Nano Letters</i> , <b>2008</b> , 8, 2345-50	11.5	62
21	Plasmonic focusing reduces ensemble linewidth of silver-coated gold nanorods. <i>Nano Letters</i> , <b>2008</b> , 8, 1719-23	11.5	150
20	Quantitative optical trapping of single gold nanorods. <i>Nano Letters</i> , <b>2008</b> , 8, 2998-3003	11.5	147
19	Liquid crystalline phases from polymer functionalised semiconducting nanorods. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 3050		67
18	Protein-membrane interaction probed by single plasmonic nanoparticles. <i>Nano Letters</i> , <b>2008</b> , 8, 1724-8	11.5	87
17	Mycosynthesis of Silver Nanoparticles Using the Fungus <i>Fusarium acuminatum</i> and its Activity Against Some Human Pathogenic Bacteria. <i>Current Nanoscience</i> , <b>2008</b> , 4, 141-144	1.4	402
16	Growth of Gold Tips onto Hyperbranched CdTe Nanostructures. <i>Advanced Materials</i> , <b>2008</b> , 20, 588-591	24	47
15	Gold nanoparticle growth monitored in situ using a novel fast optical single-particle spectroscopy method. <i>Nano Letters</i> , <b>2007</b> , 7, 1664-9	11.5	81
14	Self-assembly of small gold colloids with functionalized gold nanorods. <i>Nano Letters</i> , <b>2007</b> , 7, 259-63	11.5	125
13	Separation of nanoparticles by gel electrophoresis according to size and shape. <i>Nano Letters</i> , <b>2007</b> , 7, 2881-5	11.5	309
12	Enhanced Thermal Stability of Gold and Silver Nanorods by Thin Surface Layers. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 12886-12889	3.8	55
11	Microfluidic continuous flow synthesis of rod-shaped gold and silver nanocrystals. <i>Physical Chemistry Chemical Physics</i> , <b>2006</b> , 8, 3824-7	3.6	120
10	Controlled synthesis of hyperbranched inorganic nanocrystals with rich three-dimensional structures. <i>Nano Letters</i> , <b>2005</b> , 5, 2164-7	11.5	195
9	Gold nanorods as novel nonbleaching plasmon-based orientation sensors for polarized single-particle microscopy. <i>Nano Letters</i> , <b>2005</b> , 5, 301-4	11.5	418
8	A molecular ruler based on plasmon coupling of single gold and silver nanoparticles. <i>Nature Biotechnology</i> , <b>2005</b> , 23, 741-5	44.5	1300
7	Integration of Colloidal Nanocrystals into Lithographically Patterned Devices. <i>Nano Letters</i> , <b>2004</b> , 4, 1093-1098	11.5	473

6	Biomolecular Recognition Based on Single Gold Nanoparticle Light Scattering. <i>Nano Letters</i> , <b>2003</b> , 3, 935-938	11.5	650
5	Plasmon resonances in large noble-metal clusters. <i>New Journal of Physics</i> , <b>2002</b> , 4, 93-93	2.9	317
4	Electrically controlled light scattering with single metal nanoparticles. <i>Applied Physics Letters</i> , <b>2002</b> , 81, 171-173	3.4	167
3	Launching surface plasmons into nanoholes in metal films. <i>Applied Physics Letters</i> , <b>2000</b> , 76, 140-142	3.4	108
2	Spectroscopy of single metallic nanoparticles using total internal reflection microscopy. <i>Applied Physics Letters</i> , <b>2000</b> , 77, 2949-2951	3.4	320
1	Evaluation of Nanoparticles as Contrast Agent for Photoacoustic Imaging in Living Cells. <i>Ceramic Engineering and Science Proceedings</i> , 91-99	0.1	