Andreas B Dahlin

List of Publications by Year
in descending order

74 papers	4,476 citations	109264 35 h-index	102432 66 g-index
76 all docs	76 docs citations	76 times ranked	5307 citing authors

#	Article	IF	Citations
1	Nanoplasmonic Sensor Detects Preferential Binding of IRSp53 to Negative Membrane Curvature. Frontiers in Chemistry, 2019, 7, 1.	1.8	439
2	Improving the Instrumental Resolution of Sensors Based on Localized Surface Plasmon Resonance. Analytical Chemistry, 2006, 78, 4416-4423.	3.2	305
3	Localized Surface Plasmon Resonance Sensing of Lipid-Membrane-Mediated Biorecognition Events. Journal of the American Chemical Society, 2005, 127, 5043-5048.	6.6	272
4	Label-Free Plasmonic Detection of Biomolecular Binding by a Single Gold Nanorod. Analytical Chemistry, 2008, 80, 984-989.	3.2	271
5	Plasmonic Sensing Characteristics of Single Nanometric Holes. Nano Letters, 2005, 5, 2335-2339.	4.5	248
6	Strongly Stretched Protein Resistant Poly(ethylene glycol) Brushes Prepared by Grafting-To. ACS Applied Materials & Interfaces, 2015, 7, 7505-7515.	4.0	142
7	Investigation of Plasmon Resonances in Metal Films with Nanohole Arrays for Biosensing Applications. Small, 2011, 7, 1653-1663.	5.2	141
8	Supported Lipid Bilayer Formation and Lipid-Membrane-Mediated Biorecognition Reactions Studied with a New Nanoplasmonic Sensor Template. Nano Letters, 2007, 7, 3462-3468.	4.5	139
9	Plasmonic Metasurfaces with Conjugated Polymers for Flexible Electronic Paper in Color. Advanced Materials, 2016, 28, 9956-9960.	11.1	128
10	Plasmon Enhanced Internal Photoemission in Antenna-Spacer-Mirror Based Au/TiO₂ Nanostructures. Nano Letters, 2015, 15, 4059-4065.	4.5	121
11	Locally Functionalized Short-Range Ordered Nanoplasmonic Pores for Bioanalytical Sensing. Analytical Chemistry, 2010, 82, 2087-2094.	3.2	105
12	Switchable Plasmonic Metasurfaces with High Chromaticity Containing Only Abundant Metals. Nano Letters, 2017, 17, 7033-7039.	4.5	95
13	Influence of the Evanescent Field Decay Length on the Sensitivity of Plasmonic Nanodisks and Nanoholes. ACS Photonics, 2015, 2, 256-262.	3.2	94
14	Sensing applications based on plasmonic nanopores: The hole story. Analyst, The, 2015, 140, 4748-4759.	1.7	88
15	Optical Properties of Nanohole Arrays in Metalâ€“Dielectric Double Films Prepared by Mask-on-Metal Colloidal Lithography. ACS Nano, 2012, 6, 10405-10415.	7.3	87
16	Promises and challenges of nanoplasmonic devices for refractometric biosensing. Nanophotonics, 2013, 2, 83-101.	2.9	83
17	Size Matters: Problems and Advantages Associated with Highly Miniaturized Sensors. Sensors, 2012, 12, 3018-3036.	2.1	81
18	High-Resolution Microspectroscopy of Plasmonic Nanostructures for Miniaturized Biosensing. Analytical Chemistry, 2009, 81, 6572-6580.	3.2	80

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19	Electrochemistry on a Localized Surface Plasmon Resonance Sensor. Langmuir, 2010, 26, 7619-7626.	1.6	76
20	Electrochemical plasmonic sensors. Analytical and Bioanalytical Chemistry, 2012, 402, 1773-1784.	1.9	71
21	Dual-Wavelength Surface Plasmon Resonance for Determining the Size and Concentration of Sub-Populations of Extracellular Vesicles. Analytical Chemistry, 2016, 88, 9980-9988.	3.2	70
22	Nanoplasmonic biosensing with focus on short-range ordered nanoholes in thin metal films (Review). Biointerphases, 2008, 3, FD30-FD40.	0.6	66
23	Specific Selfâ€Assembly of Single Lipid Vesicles in Nanoplasmonic Apertures in Gold. Advanced Materials, 2008, 20, 1436-1442.	11.1	61
24	Synchronized Quartz Crystal Microbalance and Nanoplasmonic Sensing of Biomolecular Recognition Reactions. ACS Nano, 2008, 2, 2174-2182.	7.3	61
25	Superior LSPR substrates based on electromagnetic decoupling for on-a-chip high-throughput label-free biosensing. Light: Science and Applications, 2017, 6, e17042-e17042.	7.7	57
26	QCM-D studies of human norovirus VLPs binding to glycosphingolipids in supported lipid bilayers reveal strain-specific characteristics. Glycobiology, 2009, 19, 1176-1184.	1.3	53
27	Nanoplasmonic sensing of metalâ€"halide complex formation and the electric double layer capacitor. Nanoscale, 2012, 4, 2339.	2.8	53
28	Electrochemical Crystallization of Plasmonic Nanostructures. Nano Letters, 2011, 11, 1337-1343.	4.5	52
29	Biosensing using plasmonic nanohole arrays with small, homogenous and tunable aperture diameters. Analyst, The, 2016, 141, 3803-3810.	1.7	46
30	Enzyme Immobilization in Polyelectrolyte Brushes: High Loading and Enhanced Activity Compared to Monolayers. Langmuir, 2019, 35, 3479-3489.	1.6	46
31	Active control of plasmonic colors: emerging display technologies. Reports on Progress in Physics, 2019, 82, 024501.	8.1	46
32	Electrochromic Inorganic Nanostructures with High Chromaticity and Superior Brightness. Nano Letters, 2021, 21, 4343-4350.	4.5	42
33	A Thermal Plasmonic Sensor Platform: Resistive Heating of Nanohole Arrays. Nano Letters, 2014, 14, 3544-3549.	4.5	41
34	Generic surface modification strategy for sensing applications based on Au/SiO2 nanostructures. Biointerphases, 2007, 2, 49-55.	0.6	40
35	Plasmonic Nanopores in Metalâ€Insulatorâ€Metal Films. Advanced Optical Materials, 2014, 2, 556-564.	3.6	38
36	High-Contrast Switching of Plasmonic Structural Colors: Inorganic versus Organic Electrochromism. ACS Photonics, 2020, 7, 1762-1772.	3.2	38

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37	Video Speed Switching of Plasmonic Structural Colors with High Contrast and Superior Lifetime. Advanced Materials, 2021, 33, e2103217.	11.1	36
38	A designer FG-Nup that reconstitutes the selective transport barrier of the nuclear pore complex. Nature Communications, 2021, 12, 2010.	5.8	35
39	Polymer brushes in solid-state nanopores form an impenetrable entropic barrier for proteins. Nanoscale, 2018, 10, 4663-4669.	2.8	34
40	Antibodyâ€"Antigen Interaction Dynamics Revealed by Analysis of Single-Molecule Equilibrium Fluctuations on Individual Plasmonic Nanoparticle Biosensors. ACS Nano, 2018, 12, 9958-9965.	7.3	34
41	Gating Protein Transport in Solid State Nanopores by Single Molecule Recognition. ACS Central Science, 2018, 4, 1007-1014.	5.3	31
42	Embedded Plasmonic Nanomenhirs as Location-Specific Biosensors. Nano Letters, 2013, 13, 6122-6129.	4.5	25
43	Optical Resonances in Short-Range Ordered Nanoholes in Ultrathin Aluminum/Aluminum Nitride Multilayers. Journal of Physical Chemistry C, 2013, 117, 6373-6382.	1.5	25
44	Location-specific nanoplasmonic sensing of biomolecular binding to lipid membranes with negative curvature. Nanoscale, 2015, 7, 15080-15085.	2.8	25
45	Large Changes in Protonation of Weak Polyelectrolyte Brushes with Salt Concentrationâ€"Implications for Protein Immobilization. Journal of Physical Chemistry Letters, 2020, 11, 5212-5218.	2.1	24
46	Supported lipid bilayers, tethered lipid vesicles, and vesicle fusion investigated using gravimetric, plasmonic, and microscopy techniques. Biointerphases, 2008, 3, FA108-FA116.	0.6	23
47	Simultaneous, Single-Particle Measurements of Size and Loading Give Insights into the Structure of Drug-Delivery Nanoparticles. ACS Nano, 2021, 15, 19244-19255.	7.3	23
48	Single-Particle Plasmon Sensing of Discrete Molecular Events: Binding Position versus Signal Variations for Different Sensor Geometries. Journal of Physical Chemistry C, 2014, 118, 6980-6988.	1.5	22
49	Dynamically Tuneable Reflective Structural Coloration with Electroactive Conducting Polymer Nanocavities. Advanced Materials, 2021, 33, e2105004.	11.1	22
50	Quantitative Analysis of Thickness and pH Actuation of Weak Polyelectrolyte Brushes. Journal of Physical Chemistry C, 2018, 122, 27516-27527.	1.5	21
51	Quantitative interpretation of gold nanoparticle-based bioassays designed for detection of immunocomplex formation. Biointerphases, 2007, 2, 6-15.	0.6	19
52	Tuning the Thermoresponsive Behavior of Surface-Attached PNIPAM Networks: Varying the Crosslinker Content in SI-ATRP. Langmuir, 2021, 37, 3391-3398.	1.6	19
53	Surface plasmon resonance methodology for monitoring polymerization kinetics and morphology changes of brushesâ€"evaluated with poly(N-isopropylacrylamide). Applied Surface Science, 2017, 396, 384-392.	3.1	18
54	Nanoplasmonic Sensing Architectures for Decoding Membrane Curvature-Dependent Biomacromolecular Interactions. Analytical Chemistry, 2018, 90, 7458-7466.	3.2	16

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55	Simultaneous electrical and plasmonic monitoring of potential induced ion adsorption on metal nanowire arrays. Nanoscale, 2013, 5, 4966.	2.8	15
56	Fabrication and Characterization of Plasmonic Nanopores with Cavities in the Solid Support. Sensors, 2017, 17, 1444.	2.1	15
57	Generic high-capacity protein capture and release by pH control. Chemical Communications, 2020, 56, 5889-5892.	2.2	14
58	Detecting Selective Protein Binding Inside Plasmonic Nanopores: Toward a Mimic of the Nuclear Pore Complex. Frontiers in Chemistry, 2018, 6, 637.	1.8	13
59	Surface plasmon resonance sensing with thin films of palladium and platinum â€“ quantitative and real-time analysis. Physical Chemistry Chemical Physics, 2022, 24, 4588-4594.	1.3	13
60	Electrically Switchable Polymer Brushes for Protein Capture and Release in Biological Environments**. Angewandte Chemie - International Edition, 2022, 61, .	7.2	13
61	Control of Polymer Brush Morphology, Rheology, and Protein Repulsion by Hydrogen Bond Complexation. Langmuir, 2021, 37, 4943-4952.	1.6	11
62	Optical properties of plasmonic nanopore arrays prepared by electron beam and colloidal lithography. Nanoscale Advances, 2019, 1, 4282-4289.	2.2	10
63	Scalable Reflective Plasmonic Structural Colors from Nanoparticles and Cavity Resonances â€“ the Cyanâ€Magentaâ€Yellow Approach. Advanced Optical Materials, 2022, 10, .	3.6	8
64	Biochemical Sensing with Nanoplasmonic Architectures: We Know How but Do We Know Why?. Annual Review of Analytical Chemistry, 2021, 14, 281-297.	2.8	7
65	Nanoplasmonic Sensing Combined with Artificial Cell Membranes. , 2012, , 59-82.		6
66	Protein exclusion is preserved by temperature sensitive PEG brushes. Polymer, 2017, 132, 362-367.	1.8	6
67	Performance of Nanoplasmonic Biosensors. , 2012, , 231-265.		5
68	Electronic Paper: Plasmonic Metasurfaces with Conjugated Polymers for Flexible Electronic Paper in Color (Adv. Mater. 45/2016). Advanced Materials, 2016, 28, 10103-10103.	11.1	5
69	Nanopore Membranes for Separation and Sensing. Integrated Analytical Systems, 2018, , 1-23.	0.4	2
70	Evaluation of the Forsvall biopsy needle in an<i>ex vivo</i>model of transrectal prostate biopsy â€“ a novel needle design with the objective to reduce the risk of post-biopsy infection. Scandinavian Journal of Urology, 2021, 55, 227-234.	0.6	2
71	Accurate Correction of the â€œBulk Responseâ€•in Surface Plasmon Resonance Sensing Provides New Insights on Interactions Involving Lysozyme and Poly(ethylene glycol). ACS Sensors, 2022, 7, 1175-1182.	4.0	2
72	Nanoantennas for refractive-index sensing. , 2013, , 340-355.		1

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73	2014, 2, 555-555.	3.6	0
74	Electrically Switchable Polymer Brushes for Protein Capture and Release in Biological Environments**. Angewandte Chemie, 0, , .	1.6	0