

# Björn Agnarsson

## List of Publications by Year in descending order

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42  
papers

823  
citations

623734

14  
h-index

552781

26  
g-index

43  
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43  
docs citations

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times ranked

1028  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-Resolved and Label-Free Evanescent Light-Scattering Microscopy for Mass Quantification of Protein Binding to Single Lipid Vesicles. <i>Nano Letters</i> , 2021, 21, 4622-4628.	9.1	9
2	Determination of Nanosized Adsorbate Mass in Solution Using Mechanical Resonators: Elimination of the So Far Inseparable Liquid Contribution. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22733-22746.	3.1	9
3	Single-vesicle imaging reveals lipid-selective and stepwise membrane disruption by monomeric I $\alpha$ -synuclein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14178-14186.	7.1	49
4	Characterization of Binding of Magnetic Nanoparticles to Rolling Circle Amplification Products by Turn-On Magnetic Assay. <i>Biosensors</i> , 2019, 9, 109.	4.7	2
5	Quantitative Detection of Biological Nanoparticles in Solution via Their Mediation of Colocalization of Fluorescent Liposomes. <i>Physical Review Applied</i> , 2019, 12, .	3.8	1
6	A Holistic Approach to Study Interactions between Nanoparticles/Vesicles/Viruses and Supported Lipid Bilayers using QCM-D, Dual-Wavelength SPR, and Neutron Reflectometry. <i>Biophysical Journal</i> , 2018, 114, 279a.	0.5	0
7	Toward multiplexed quantification of biomolecules on surfaces using time-of-flight secondary ion mass spectrometry. <i>Biointerphases</i> , 2018, 13, 03B413.	1.6	4
8	Affinity Purification and Single-Molecule Analysis of Integral Membrane Proteins from Crude Cell-Membrane Preparations. <i>Nano Letters</i> , 2018, 18, 381-385.	9.1	12
9	Structure and Composition of Native Membrane Derived Polymer-Supported Lipid Bilayers. <i>Analytical Chemistry</i> , 2018, 90, 13065-13072.	6.5	20
10	Low-temperature fabrication and characterization of a symmetric hybrid organic-“inorganic slab waveguide for evanescent light microscopy. <i>Nano Futures</i> , 2018, 2, 025007.	2.2	7
11	Spatiotemporal Kinetics of Supported Lipid Bilayer Formation on Glass via Vesicle Adsorption and Rupture. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5143-5149.	4.6	20
12	Effective Refractive Index and Lipid Content of Extracellular Vesicles Revealed Using Optical Waveguide Scattering and Fluorescence Microscopy. <i>Langmuir</i> , 2018, 34, 8522-8531.	3.5	22
13	Kinetics of enzyme-mediated hydrolysis of lipid vesicles. <i>Chemical Physics Letters</i> , 2016, 663, 51-56.	2.6	1
14	Monitoring of single and double lipid membrane formation with high spatiotemporal resolution using evanescent light scattering microscopy. <i>Nanoscale</i> , 2016, 8, 19219-19223.	5.6	8
15	Nonspecific Colloidal-Type Interaction Explains Size-Dependent Specific Binding of Membrane-Targeted Nanoparticles. <i>ACS Nano</i> , 2016, 10, 9974-9982.	14.6	21
16	Effects of Al <sup>3+</sup> on Phosphocholine and Phosphoglycerol Containing Solid Supported Lipid Bilayers. <i>Langmuir</i> , 2016, 32, 1771-1781.	3.5	5
17	Evanescent Light-Scattering Microscopy for Label-Free Interfacial Imaging: From Single Sub-100 nm Vesicles to Live Cells. <i>ACS Nano</i> , 2015, 9, 11849-11862.	14.6	65
18	Site-dependent charge transfer at the Pt(111)-ZnPc interface and the effect of iodine. <i>Journal of Chemical Physics</i> , 2014, 140, 174702.	3.0	13

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19	Liposome binding for multiplexed biomolecule detection and imaging using ToF-SIMS. <i>Surface and Interface Analysis</i> , 2014, 46, 707-711.	1.8	11
20	Optical waveguide-based single-molecule studies for medical diagnostics and drug screening applications. , 2014, , .		0
21	Rutile TiO <sub>2</sub> thin films grown by reactive high power impulse magnetron sputtering. <i>Thin Solid Films</i> , 2013, 545, 445-450.	1.8	51
22	Photoemission and low energy electron microscopy study on the formation and nitridation of indium droplets on Si (111)7Å–7 surfaces. <i>Thin Solid Films</i> , 2013, 531, 61-69.	1.8	4
23	Ultra-thin gold films on transparent polymers. <i>Nanophotonics</i> , 2013, 2, 3-11.	6.0	61
24	Study of spatial homogeneity and nitridation of an Al nanopattern template with spectroscopic photoemission and low energy electron microscopy. <i>Applied Surface Science</i> , 2013, 264, 349-357.	6.1	5
25	Comparing resonant photon tunneling via cavity modes and Tamm plasmon polariton modes in metal-coated Bragg mirrors. <i>Optics Letters</i> , 2012, 37, 4026.	3.3	27
26	A micro-spectroscopy study on the influence of chemical residues from nanofabrication on the nitridation chemistry of Al nanopatterns. <i>Applied Surface Science</i> , 2012, 258, 4497-4506.	6.1	3
27	Integrated Biophotonics with CYTOP. <i>Micromachines</i> , 2012, 3, 114-125.	2.9	25
28	Polymer waveguide platform for highly integrated biophotonics. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
29	On-chip modulation of evanescent illumination and live-cell imaging with polymer waveguides. <i>Optics Express</i> , 2011, 19, 22929.	3.4	37
30	The effect of hard nitridation on Al <sub>2</sub> O <sub>3</sub> using a radio frequency operated plasma cell. <i>Thin Solid Films</i> , 2011, 519, 7796-7802.	1.8	3
31	Room temperature deposition of self-assembled Al nanoclusters on stepped sapphire (0001) surface and subsequent nitridation. <i>Thin Solid Films</i> , 2011, 520, 64-73.	1.8	3
32	Growth of TiO <sub>2</sub> thin films on Si(001) and SiO <sub>2</sub> by reactive high power impulse magnetron sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1352, 39.	0.1	1
33	High refractive-index-contrast polymer waveguide platform for excitation and sensing in aqueous environments. , 2011, , .		0
34	Polymer waveguide platform for highly integrated biophotonics. , 2011, , .		0
35	Fabrication of planar polymer waveguides for evanescent-wave sensing in aqueous environments. <i>Microelectronic Engineering</i> , 2010, 87, 56-61.	2.4	36
36	High-resolution X-ray photoemission spectroscopy study of AlN nano-columns grown by nitridation of Al nano-squares on Si(111) substrates with ammonia. <i>Thin Solid Films</i> , 2010, 518, 3632-3639.	1.8	5

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37	High index contrast polymer waveguide platform for integrated biophotonics. Optics Express, 2010, 18, 16217.	3.4	188
38	Investigation on the role of indium in the removal of metallic gallium from soft and hard sputtered GaN (0001) surfaces. Thin Solid Films, 2009, 517, 6023-6026.	1.8	2
39	InSb/TiOPc interfaces: Band alignment, ordering and structure dependent HOMO splitting. Surface Science, 2009, 603, 3160-3169.	1.9	7
40	Evanescent-wave fluorescence microscopy using symmetric planar waveguides. Optics Express, 2009, 17, 5075.	3.4	75
41	Characterisation of high-temperature annealing effects on Al <sub>2</sub> O <sub>3</sub> (0001) substrates. Journal of Physics: Conference Series, 2008, 100, 042020.	0.4	1
42	Band bending and structure dependent HOMO energy at the ZnO(0001)-titanyl phthalocyanine interface. Surface Science, 2007, 601, 4222-4226.	1.9	10