

Björn Agnarsson

List of Publications by Year in descending order

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42
papers

823
citations

623734

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26
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43
all docs

43
docs citations

43
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	High index contrast polymer waveguide platform for integrated biophotonics. Optics Express, 2010, 18, 16217.	3.4	188
2	Evanescent-wave fluorescence microscopy using symmetric planar waveguides. Optics Express, 2009, 17, 5075.	3.4	75
3	Evanescent Light-Scattering Microscopy for Label-Free Interfacial Imaging: From Single Sub-100 nm Vesicles to Live Cells. ACS Nano, 2015, 9, 11849-11862.	14.6	65
4	Ultra-thin gold films on transparent polymers. Nanophotonics, 2013, 2, 3-11.	6.0	61
5	Rutile TiO ₂ thin films grown by reactive high power impulse magnetron sputtering. Thin Solid Films, 2013, 545, 445-450.	1.8	51
6	Single-vesicle imaging reveals lipid-selective and stepwise membrane disruption by monomeric I±-synuclein. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14178-14186.	7.1	49
7	On-chip modulation of evanescent illumination and live-cell imaging with polymer waveguides. Optics Express, 2011, 19, 22929.	3.4	37
8	Fabrication of planar polymer waveguides for evanescent-wave sensing in aqueous environments. Microelectronic Engineering, 2010, 87, 56-61.	2.4	36
9	Comparing resonant photon tunneling via cavity modes and Tamm plasmon polariton modes in metal-coated Bragg mirrors. Optics Letters, 2012, 37, 4026.	3.3	27
10	Integrated Biophotonics with CYTOP. Micromachines, 2012, 3, 114-125.	2.9	25
11	Effective Refractive Index and Lipid Content of Extracellular Vesicles Revealed Using Optical Waveguide Scattering and Fluorescence Microscopy. Langmuir, 2018, 34, 8522-8531.	3.5	22
12	Nonspecific Colloidal-Type Interaction Explains Size-Dependent Specific Binding of Membrane-Targeted Nanoparticles. ACS Nano, 2016, 10, 9974-9982.	14.6	21
13	Structure and Composition of Native Membrane Derived Polymer-Supported Lipid Bilayers. Analytical Chemistry, 2018, 90, 13065-13072.	6.5	20
14	Spatiotemporal Kinetics of Supported Lipid Bilayer Formation on Glass via Vesicle Adsorption and Rupture. Journal of Physical Chemistry Letters, 2018, 9, 5143-5149.	4.6	20
15	Site-dependent charge transfer at the Pt(111)-ZnPc interface and the effect of iodine. Journal of Chemical Physics, 2014, 140, 174702.	3.0	13
16	Affinity Purification and Single-Molecule Analysis of Integral Membrane Proteins from Crude Cell-Membrane Preparations. Nano Letters, 2018, 18, 381-385.	9.1	12
17	Liposome binding for multiplexed biomolecule detection and imaging using ToF-SIMS. Surface and Interface Analysis, 2014, 46, 707-711.	1.8	11
18	Band bending and structure dependent HOMO energy at the ZnO(0001)-titanyl phthalocyanine interface. Surface Science, 2007, 601, 4222-4226.	1.9	10

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19	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
20	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
21	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
22	InSb/TiOPc interfaces: Band alignment, ordering and structure dependent HOMO splitting. <i>Surface Science</i> , 2009, 603, 3160-3169.	1.9	7
23	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
24	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
25	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
26	Effects of Al ₃₊ on Phosphocholine and Phosphoglycerol Containing Solid Supported Lipid Bilayers. <i>Langmuir</i> , 2016, 32, 1771-1781.	3.5	5
27	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
28	Toward multiplexed quantification of biomolecules on surfaces using time-of-flight secondary ion mass spectrometry. <i>Biointerphases</i> , 2018, 13, 03B413.	1.6	4
29	The effect of hard nitridation on Al ₂ O ₃ using a radio frequency operated plasma cell. <i>Thin Solid Films</i> , 2011, 519, 7796-7802.	1.8	3
30	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
31	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
32	Investigation on the role of indium in the removal of metallic gallium from soft and hard sputtered GaN (0001) surfaces. <i>Thin Solid Films</i> , 2009, 517, 6023-6026.	1.8	2
33	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
34	Characterisation of high-temperature annealing effects on Al ₂ O ₃ (0001) substrates. <i>Journal of Physics: Conference Series</i> , 2008, 100, 042020.	0.4	1
35	Growth of TiO ₂ thin films on Si(001) and SiO ₂ by reactive high power impulse magnetron sputtering. <i>Materials Research Society Symposia Proceedings</i> , 2011, 1352, 39.	0.1	1
36	Kinetics of enzyme-mediated hydrolysis of lipid vesicles. <i>Chemical Physics Letters</i> , 2016, 663, 51-56.	2.6	1

#	ARTICLE	IF	CITATIONS
37	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
38	Polymer waveguide platform for highly integrated biophotonics. <i>Proceedings of SPIE</i> , 2011, , .	0.8	0
39	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
40	High refractive-index-contrast polymer waveguide platform for excitation and sensing in aqueous environments. , 2011, , .		0
41	Polymer waveguide platform for highly integrated biophotonics. , 2011, , .		0
42	Optical waveguide-based single-molecule studies for medical diagnostics and drug screening applications. , 2014, , .		0