

Stephan Block

List of Publications by Year in descending order

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58
papers

1,696
citations

304368

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h-index

315357

38
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63
all docs

63
docs citations

63
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of Exosome Concentration in Solution Using Surface Plasmon Resonance Spectroscopy. Analytical Chemistry, 2014, 86, 5929-5936.	3.2	133
2	Complex formation with nucleic acids and aptamers alters the antigenic properties of platelet factor 4. Blood, 2013, 122, 272-281.	0.6	129
3	Effect of 3D-scaffold formation on differentiation and survival in human neural progenitor cells. BioMedical Engineering OnLine, 2010, 9, 70.	1.3	71
4	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
5	Characterisation of the conformational changes in platelet factor 4 induced by polyanions: towards in vitro prediction of antigenicity. Thrombosis and Haemostasis, 2014, 112, 53-64.	1.8	67
6	Binding of anti-platelet factor 4/heparin antibodies depends on the thermodynamics of conformational changes in platelet factor 4. Blood, 2014, 124, 2442-2449.	0.6	67
7	A nano flow cytometer for single lipid vesicle analysis. Lab on A Chip, 2017, 17, 830-841.	3.1	66
8	Mobility-Based Quantification of Multivalent Virus-Receptor Interactions: New Insights Into Influenza A Virus Binding Mode. Nano Letters, 2019, 19, 1875-1882.	4.5	60
9	Quantification of Multivalent Interactions by Tracking Single Biological Nanoparticle Mobility on a Lipid Membrane. Nano Letters, 2016, 16, 4382-4390.	4.5	58
10	Size-controlled formation of Cu nanoclusters in pulsed magnetron sputtering system. Surface and Coatings Technology, 2011, 205, 2755-2762.	2.2	57
11	Conformation of Poly(styrene sulfonate) Layers Physisorbed from High Salt Solution Studied by Force Measurements on Two Different Length Scales. Journal of Physical Chemistry B, 2008, 112, 9318-9327.	1.2	56
12	Physical properties of homogeneous TiO ₂ films prepared by high power impulse magnetron sputtering as a function of crystallographic phase and nanostructure. Journal Physics D: Applied Physics, 2009, 42, 105204.	1.3	52
13	Polysulfates Block SARS-CoV-2 Uptake through Electrostatic Interactions**. Angewandte Chemie - International Edition, 2021, 60, 15870-15878.	7.2	49
14	Measurement of long-ranged steric forces between polyelectrolyte layers physisorbed from M . Physical Review E, 2009, 80, 011402.	0.8	38
15	Adaptive Flexible Sialylated Nanogels as Highly Potent Influenza A Virus Inhibitors. Angewandte Chemie - International Edition, 2020, 59, 12417-12422.	7.2	36
16	MicroRNA Detection by DNA-Mediated Liposome Fusion. ChemBioChem, 2018, 19, 434-438.	1.3	35
17	Two-dimensional flow nanometry of biological nanoparticles for accurate determination of their size and emission intensity. Nature Communications, 2016, 7, 12956.	5.8	34
18	Semiconductor laser with external resonant grating mirror. IEEE Journal of Quantum Electronics, 2005, 41, 1049-1053.	1.0	31

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19	Temperature-Induced Transition from Odd-Even to Even-Odd Effect in Polyelectrolyte Multilayers Due to Interpolyelectrolyte Interactions. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1234-1243.	1.2	27
20	Binding Kinetics and Lateral Mobility of HSV-1 on End-Grafted Sulfated Glycosaminoglycans. <i>Biophysical Journal</i> , 2017, 113, 1223-1234.	0.2	27
21	Directed manipulation of membrane proteins by fluorescent magnetic nanoparticles. <i>Nature Communications</i> , 2020, 11, 4259.	5.8	27
22	Destabilization of Polyelectrolyte Multilayers Formed at Different Temperatures and Ion Concentrations. <i>Macromolecules</i> , 2010, 43, 4300-4309.	2.2	26
23	The adhesion and spreading of thrombocyte vesicles on electrode surfaces. <i>Bioelectrochemistry</i> , 2008, 74, 210-216.	2.4	25
24	Single Polyelectrolyte Layers Adsorbed at High Salt Conditions: Polyelectrolyte Brush Domains Coexisting with Flatly Adsorbed Chains. <i>Macromolecules</i> , 2009, 42, 6733-6740.	2.2	25
25	Heteromultivalent topology-matched nanostructures as potent and broad-spectrum influenza A virus inhibitors. <i>Science Advances</i> , 2021, 7, .	4.7	25
26	Cell Membrane Derived Platform To Study Virus Binding Kinetics and Diffusion with Single Particle Sensitivity. <i>ACS Infectious Diseases</i> , 2018, 4, 944-953.	1.8	24
27	Effective Refractive Index and Lipid Content of Extracellular Vesicles Revealed Using Optical Waveguide Scattering and Fluorescence Microscopy. <i>Langmuir</i> , 2018, 34, 8522-8531.	1.6	22
28	Morphology, Mechanical Stability, and Protective Properties of Ultrathin Gallium Oxide Coatings. <i>Langmuir</i> , 2015, 31, 5836-5842.	1.6	20
29	Brownian Motion at Lipid Membranes: A Comparison of Hydrodynamic Models Describing and Experiments Quantifying Diffusion within Lipid Bilayers. <i>Biomolecules</i> , 2018, 8, 30.	1.8	20
30	Direct Visualization and Identification of Biofunctionalized Nanoparticles using a Magnetic Atomic Force Microscope. <i>Nano Letters</i> , 2011, 11, 3587-3592.	4.5	18
31	Sequence-controlled RNA self-processing: computational design, biochemical analysis, and visualization by AFM. <i>Rna</i> , 2015, 21, 1249-1260.	1.6	18
32	Detachment of Membrane Bound Virions by Competitive Ligand Binding Induced Receptor Depletion. <i>Langmuir</i> , 2017, 33, 4049-4056.	1.6	18
33	Competition for Membrane Receptors: Norovirus Detachment via Lectin Attachment. <i>Journal of the American Chemical Society</i> , 2019, 141, 16303-16311.	6.6	18
34	Wrapping and Blocking of Influenza A Viruses by Sialylated 2D Nanoplatfoms. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100285.	1.9	17
35	Physiological Shear Stress Enhances Differentiation, Mucus-Formation and Structural 3D Organization of Intestinal Epithelial Cells In Vitro. <i>Cells</i> , 2021, 10, 2062.	1.8	17
36	Equilibrium and Nonequilibrium Features in the Morphology and Structure of Physisorbed Polyelectrolyte Layers. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7301-7313.	1.2	15

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37	Characterization of bonds formed between platelet factor 4 and negatively charged drugs using single molecule force spectroscopy. <i>Soft Matter</i> , 2014, 10, 2775.	1.2	15
38	Mucinâ€Inspired, High Molecular Weight Virus Binding Inhibitors Show Biphasic Binding Behavior to Influenza A Viruses. <i>Small</i> , 2020, 16, e2004635.	5.2	15
39	AFM-Based Quantification of Conformational Changes in DNA Caused by Reactive Oxygen Species. <i>Journal of Physical Chemistry B</i> , 2015, 119, 25-32.	1.2	13
40	Hydrodynamic Propulsion of Liposomes Electrostatically Attracted to a Lipid Membrane Reveals Size-Dependent Conformational Changes. <i>ACS Nano</i> , 2016, 10, 8812-8820.	7.3	12
41	Membrane Deformation Induces Clustering of Norovirus Bound to Glycosphingolipids in a Supported Cell-Membrane Mimic. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2278-2284.	2.1	12
42	Affinity Purification and Single-Molecule Analysis of Integral Membrane Proteins from Crude Cell-Membrane Preparations. <i>Nano Letters</i> , 2018, 18, 381-385.	4.5	12
43	Particle Diffusivity and Free-Energy Profiles in Hydrogels from Time-Resolved Penetration Data. <i>Biophysical Journal</i> , 2021, 120, 463-475.	0.2	12
44	One-pot gram-scale synthesis of virucidal heparin-mimicking polymers as HSV-1 inhibitors. <i>Chemical Communications</i> , 2021, 57, 11948-11951.	2.2	12
45	Single Proteoliposomes with <i>E.Âcoli</i> Quinol Oxidase: Proton Pumping without Transmembrane Leaks. <i>Israel Journal of Chemistry</i> , 2017, 57, 437-445.	1.0	11
46	Analysis and refinement of 2D single-particle tracking experiments. <i>Biointerphases</i> , 2020, 15, 021201.	0.6	11
47	Automated Solventâ€Free Polymerization of Hyperbranched Polyglycerol with Tailored Molecular Weight by Online Torque Detection. <i>Macromolecular Materials and Engineering</i> , 2021, 306, 2000688.	1.7	11
48	Physicochemical tools for studying virus interactions with targeted cell membranes in a molecular and spatiotemporally resolved context. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7157-7178.	1.9	11
49	Stiffness of Left Ventricular Cardiac Fibroblasts Is Associated With Ventricular Dilation in Patients With Recent-Onset Nonischemic and Nonvalvular Cardiomyopathy. <i>Circulation Journal</i> , 2014, 78, 1693-1700.	0.7	9
50	Stable 2D Conductive Ga/Ga(O <i>x</i>) <i>H</i> <i>y</i>) Multilayers with Controlled Nanoscale Thickness Prepared from Gallium Droplets with Oxide Skin. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800323.	1.9	9
51	Independent Size and Fluorescence Emission Determination of Individual Biological Nanoparticles Reveals that Lipophilic Dye Incorporation Does Not Scale with Particle Size. <i>Langmuir</i> , 2020, 36, 9693-9700.	1.6	6
52	Lipid Composition Affects the Efficiency in the Functional Reconstitution of the Cytochrome c Oxidase. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6981.	1.8	5
53	Adaptive Flexible Sialylated Nanogels as Highly Potent Influenza A Virus Inhibitors. <i>Angewandte Chemie</i> , 2020, 132, 12517-12522.	1.6	5
54	Effects of Reactive Oxygen Species on Single Polycation Layers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8475-8483.	1.2	4

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55	Antenna-Enhanced Fluorescence Correlation Spectroscopy Resolves Calcium-Mediated Lipid-Lipid Interactions. ACS Nano, 2018, 12, 3272-3279.	7.3	3
56	Directed Manipulation of Membrane Proteins by Fluorescent Magnetic Nanoparticles. Biophysical Journal, 2020, 118, 313a.	0.2	3
57	Imaging and Characterization of Magnetic Micro- and Nanostructures Using Force Microscopy. , 2015, , 489-529.		0
58	Polysulfate hemmen durch elektrostatische Wechselwirkungen die SARS-CoV-2-Infektion**. Angewandte Chemie, 2021, 133, 16005-16014.	1.6	0