

Stephan Block

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,696
citations

304368

22
h-index

315357

38
g-index

63
all docs

63
docs citations

63
times ranked

2744
citing authors

#	ARTICLE	IF	CITATIONS
1	Heteromultivalent topology-matched nanostructures as potent and broad-spectrum influenza A virus inhibitors. <i>Science Advances</i> , 2021, 7, .	4.7	25
2	Particle Diffusivity and Free-Energy Profiles in Hydrogels from Time-Resolved Penetration Data. <i>Biophysical Journal</i> , 2021, 120, 463-475.	0.2	12
3	Automated Solvent-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
4	Wrapping and Blocking of Influenza A Viruses by Sialylated 2D Nanoplatfoms. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100285.	1.9	17
5	Polysulfate hemmen durch elektrostatische Wechselwirkungen die SARS-CoV-2-Infektion**. <i>Angewandte Chemie</i> , 2021, 133, 16005-16014.	1.6	0
6	Polysulfates Block SARS-CoV-2 Uptake through Electrostatic Interactions**. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 15870-15878.	7.2	49
7	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
8	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
9	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
10	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
11	Mucin-Inspired, High Molecular Weight Virus Binding Inhibitors Show Biphasic Binding Behavior to Influenza A Viruses. <i>Small</i> , 2020, 16, e2004635.	5.2	15
12	Directed manipulation of membrane proteins by fluorescent magnetic nanoparticles. <i>Nature Communications</i> , 2020, 11, 4259.	5.8	27
13	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
14	Adaptive Flexible Sialylated Nanogels as Highly Potent Influenza A Virus Inhibitors. <i>Angewandte Chemie</i> , 2020, 132, 12517-12522.	1.6	5
15	Analysis and refinement of 2D single-particle tracking experiments. <i>Biointerphases</i> , 2020, 15, 021201.	0.6	11
16	Directed Manipulation of Membrane Proteins by Fluorescent Magnetic Nanoparticles. <i>Biophysical Journal</i> , 2020, 118, 313a.	0.2	3
17	Adaptive Flexible Sialylated Nanogels as Highly Potent Influenza A Virus Inhibitors. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 12417-12422.	7.2	36
18	Competition for Membrane Receptors: Norovirus Detachment via Lectin Attachment. <i>Journal of the American Chemical Society</i> , 2019, 141, 16303-16311.	6.6	18

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19	Mobility-Based Quantification of Multivalent Virus-Receptor Interactions: New Insights Into Influenza A Virus Binding Mode. <i>Nano Letters</i> , 2019, 19, 1875-1882.	4.5	60
20	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
21	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
22	Antenna-Enhanced Fluorescence Correlation Spectroscopy Resolves Calcium-Mediated Lipid-Lipid Interactions. <i>ACS Nano</i> , 2018, 12, 3272-3279.	7.3	3
23	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
24	MicroRNA Detection by DNA-Mediated Liposome Fusion. <i>ChemBioChem</i> , 2018, 19, 434-438.	1.3	35
25	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
26	Stable 2D Conductive Ga/Ga(O) _x H _y Multilayers with Controlled Nanoscale Thickness Prepared from Gallium Droplets with Oxide Skin. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800323.	1.9	9
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	A nano flow cytometer for single lipid vesicle analysis. <i>Lab on A Chip</i> , 2017, 17, 830-841.	3.1	66
29	Single Proteoliposomes with <i>E. coli</i> Quinol Oxidase: Proton Pumping without Transmembrane Leaks. <i>Israel Journal of Chemistry</i> , 2017, 57, 437-445.	1.0	11
30	Detachment of Membrane Bound Virions by Competitive Ligand Binding Induced Receptor Depletion. <i>Langmuir</i> , 2017, 33, 4049-4056.	1.6	18
31	Binding Kinetics and Lateral Mobility of HSV-1 on End-Grafted Sulfated Glycosaminoglycans. <i>Biophysical Journal</i> , 2017, 113, 1223-1234.	0.2	27
32	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
33	Dual-Wavelength Surface Plasmon Resonance for Determining the Size and Concentration of Sub-Populations of Extracellular Vesicles. <i>Analytical Chemistry</i> , 2016, 88, 9980-9988.	3.2	70
34	Two-dimensional flow nanometry of biological nanoparticles for accurate determination of their size and emission intensity. <i>Nature Communications</i> , 2016, 7, 12956.	5.8	34
35	Quantification of Multivalent Interactions by Tracking Single Biological Nanoparticle Mobility on a Lipid Membrane. <i>Nano Letters</i> , 2016, 16, 4382-4390.	4.5	58
36	Imaging and Characterization of Magnetic Micro- and Nanostructures Using Force Microscopy. , 2015, , 489-529.		0

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37	Morphology, Mechanical Stability, and Protective Properties of Ultrathin Gallium Oxide Coatings. <i>Langmuir</i> , 2015, 31, 5836-5842.	1.6	20
38	Sequence-controlled RNA self-processing: computational design, biochemical analysis, and visualization by AFM. <i>Rna</i> , 2015, 21, 1249-1260.	1.6	18
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	Characterisation of the conformational changes in platelet factor 4 induced by polyanions: towards in vitro prediction of antigenicity. <i>Thrombosis and Haemostasis</i> , 2014, 112, 53-64.	1.8	67
41	Determination of Exosome Concentration in Solution Using Surface Plasmon Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 5929-5936.	3.2	133
42	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
43	Stiffness of Left Ventricular Cardiac Fibroblasts Is Associated With Ventricular Dilatation in Patients With Recent-Onset Nonischemic and Nonvalvular Cardiomyopathy. <i>Circulation Journal</i> , 2014, 78, 1693-1700.	0.7	9
44	Binding of anti-platelet factor 4/heparin antibodies depends on the thermodynamics of conformational changes in platelet factor 4. <i>Blood</i> , 2014, 124, 2442-2449.	0.6	67
45	Effects of Reactive Oxygen Species on Single Polycation Layers. <i>Journal of Physical Chemistry B</i> , 2013, 117, 8475-8483.	1.2	4
46	Complex formation with nucleic acids and aptamers alters the antigenic properties of platelet factor 4. <i>Blood</i> , 2013, 122, 272-281.	0.6	129
47	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
48	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
49	Direct Visualization and Identification of Biofunctionalized Nanoparticles using a Magnetic Atomic Force Microscope. <i>Nano Letters</i> , 2011, 11, 3587-3592.	4.5	18
50	Size-controlled formation of Cu nanoclusters in pulsed magnetron sputtering system. <i>Surface and Coatings Technology</i> , 2011, 205, 2755-2762.	2.2	57
51	Effect of 3D-scaffold formation on differentiation and survival in human neural progenitor cells. <i>BioMedical Engineering OnLine</i> , 2010, 9, 70.	1.3	71
52	Destabilization of Polyelectrolyte Multilayers Formed at Different Temperatures and Ion Concentrations. <i>Macromolecules</i> , 2010, 43, 4300-4309.	2.2	26
53	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
54	Physical properties of homogeneous TiO ₂ films prepared by high power impulse magnetron sputtering as a function of crystallographic phase and nanostructure. <i>Journal Physics D: Applied Physics</i> , 2009, 42, 105204.	1.3	52

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55	The adhesion and spreading of thrombocyte vesicles on electrode surfaces. Bioelectrochemistry, 2008, 74, 210-216.	2.4	25
56	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. nt of long-ranged steric forces between polyelectrolyte layers physisorbed from	1.2	56
57	from $\langle M \rangle$ display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mspace width="0.3em" /><mml:mi mathvariant="normal">M</mml:mi></mml:mrow></mml:math><mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>NaCl</mml:mi></mml:mrow></mml:math>. Physical Review E,	0.8	38
58	Semiconductor laser with external resonant grating mirror. IEEE Journal of Quantum Electronics, 2005, 41, 1049-1053.	1.0	31