Susan Daniel

List of Publications by Year
in descending order

67 papers	3,563 citations	172386 29 h-index	149623 56 g-index
75 all docs	75 docs citations	75 times ranked	4917 citing authors

#	Article	IF	Citations
1	Functional evaluation of the P681H mutation on the proteolytic activation of the SARS-CoV-2 variant B.1.1.7 (Alpha) spike. IScience, 2022, 25, 103589.	1.9	134
2	Impedance sensing of antibiotic interactions with a pathogenic E. coli outer membrane supported bilayer. Biosensors and Bioelectronics, 2022, 204, 114045.	5.3	6
3	Is contact-line mobility a material parameter?. Npj Microgravity, 2022, 8, 6.	1.9	10
4	Small tools for sweet challenges: advances in microfluidic technologies for glycan synthesis. Analytical and Bioanalytical Chemistry, 2022, 414, 5139-5163.	1.9	2
5	Bioelectronic Platform to Investigate Charge Transfer between Photoexcited Quantum Dots and Microbial Outer Membranes. ACS Applied Materials & Interfaces, 2022, 14, 15799-15810.	4.0	1
6	Nanoscale Features of Tunable Bacterial Outer Membrane Models Revealed by Correlative Microscopy. Langmuir, 2022, 38, 8773-8782.	1.6	7
7	Spike Protein Cleavage-Activation in the Context of the SARS-CoV-2 P681R Mutation: an Analysis from Its First Appearance in Lineage A.23.1 Identified in Uganda. Microbiology Spectrum, 2022, 10, .	1.2	20
8	Proteolytic Activation of SARS-CoV-2 Spike at the S1/S2 Boundary: Potential Role of Proteases beyond Furin. ACS Infectious Diseases, 2021, 7, 264-272.	1.8	122
9	Cell-Free Synthesis of a Transmembrane Mechanosensitive Channel Protein into a Hybrid-Supported Lipid Bilayer. ACS Applied Bio Materials, 2021, 4, 3101-3112.	2.3	16
10	Coronavirus entry: how we arrived at SARS-CoV-2. Current Opinion in Virology, 2021, 47, 113-120.	2.6	51
11	Clinically Relevant Bacterial Outer Membrane Models for Antibiotic Screening Applications. ACS Infectious Diseases, 2021, 7, 2707-2722.	1.8	20
12	Bioelectrochemical platforms to study and detect emerging pathogens. MRS Bulletin, 2021, 46, 840-846.	1.7	5
13	Inhibitors of L-Type Calcium Channels Show Therapeutic Potential for Treating SARS-CoV-2 Infections by Preventing Virus Entry and Spread. ACS Infectious Diseases, 2021, 7, 2807-2815.	1.8	32
14	Functional Infectious Nanoparticle Detector: Finding Viruses by Detecting Their Host Entry Functions Using Organic Bioelectronic Devices. ACS Nano, 2021, 15, 18142-18152.	7.3	19
15	Detection of Ganglioside-Specific Toxin Binding with Biomembrane-Based Bioelectronic Sensors. ACS Applied Bio Materials, 2021, 4, 7942-7950.	2.3	7
16	Dual Mode Sensing of Binding and Blocking of Cancer Exosomes to Biomimetic Human Primary Stem Cell Surfaces. ACS Biomaterials Science and Engineering, 2021, , .	2.6	1
17	Glycosylation-on-a-Chip: A Flow-Based Microfluidic System for Cell-Free Glycoprotein Biosynthesis. Frontiers in Molecular Biosciences, 2021, 8, 782905.	1.6	3
18	Calcium Ions Directly Interact with the Ebola Virus Fusion Peptide To Promote Structureâ€“Function Changes That Enhance Infection. ACS Infectious Diseases, 2020, 6, 250-260.	1.8	72

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19	Induced fusion and aggregation of bacterial outer membrane vesicles: Experimental and theoretical analysis. Journal of Colloid and Interface Science, 2020, 578, 522-532.	5.0	16
20	Self-Assembly of Mammalian-Cell Membranes on Bioelectronic Devices with Functional Transmembrane Proteins. Langmuir, 2020, 36, 7325-7331.	1.6	36
21	Supported Membrane Platform to Assess Surface Interactions between Extracellular Vesicles and Stromal Cells. ACS Biomaterials Science and Engineering, 2020, 6, 3945-3956.	2.6	3
22	Optical and Electronic Ion Channel Monitoring from Native Human Membranes. ACS Nano, 2020, 14, 12538-12545.	7.3	51
23	Biomembrane-based organic electronic devices for ligandâ€“receptor binding studies. Analytical and Bioanalytical Chemistry, 2020, 412, 6265-6273.	1.9	14
24	Coronavirus membrane fusion mechanism offers a potential target for antiviral development. Antiviral Research, 2020, 178, 104792.	1.9	635
25	Ca ²⁺ Ions Promote Fusion of Middle East Respiratory Syndrome Coronavirus with Host Cells and Increase Infectivity. Journal of Virology, 2020, 94, .	1.5	93
26	Simulating Heat Transfer During Transient Dropwise Condensation on a Low-Thermal-Conductivity Substrate. Langmuir, 2019, 35, 11566-11578.	1.6	2
27	Facile Generation of Biomimetic-Supported Lipid Bilayers on Conducting Polymer Surfaces for Membrane Biosensing. ACS Applied Materials & Interfaces, 2019, 11, 43799-43810.	4.0	41
28	The combined hydrodynamic and thermodynamic effects of immobilized proteinsÂon the diffusion of mobile transmembrane proteins. Journal of Fluid Mechanics, 2019, 877, 648-681.	1.4	4
29	Production of Pseudotyped Particles to Study Highly Pathogenic Coronaviruses in a Biosafety Level 2 Setting. Journal of Visualized Experiments, 2019, , .	0.2	64
30	Third Tofo Advanced Study Week on Emerging and Re-emerging Viruses, 2018. Antiviral Research, 2019, 162, 142-150.	1.9	3
31	Single Virion Tracking Microscopy for the Study of Virus Entry Processes in Live Cells and Biomimetic Platforms. Advances in Experimental Medicine and Biology, 2019, 1215, 13-43.	0.8	14
32	Effect of impaired twitching motility and biofilm dispersion on performance of Pseudomonas aeruginosa-powered microbial fuel cells. Journal of Industrial Microbiology and Biotechnology, 2018, 45, 103-109.	1.4	16
33	Biologically Complex Planar Cell Plasma Membranes Supported on Polyelectrolyte Cushions Enhance Transmembrane Protein Mobility and Retain Native Orientation. Langmuir, 2018, 34, 1061-1072.	1.6	35
34	Antibacterial isoamphipathic oligomers highlight the importance of multimeric lipid aggregation for antibacterial potency. Communications Biology, 2018, 1, 220.	2.0	19
35	Biomimetic Electronic Devices for Measuring Bacterial Membrane Disruption. Advanced Materials, 2018, 30, e1803130.	11.1	43
36	Two-Phase Contiguous Supported Lipid Bilayer Model for Membrane Rafts via Polymer Blotting and Stenciling. Langmuir, 2017, 33, 1285-1294.	1.6	6

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37	Breast cancer-derived extracellular vesicles stimulate myofibroblast differentiation and pro-angiogenic behavior of adipose stem cells. Matrix Biology, 2017, 60-61, 190-205.	1.5	50
38	Footprint geometry and sessile drop resonance. Physical Review E, 2017, 95, 033109.	0.8	4
39	The SARS-CoV Fusion Peptide Forms an Extended Bipartite Fusion Platform that Perturbs Membrane Order in a Calcium-Dependent Manner. Journal of Molecular Biology, 2017, 429, 3875-3892.	2.0	170
40	Supported Planar Mammalian Membranes as Models of in Vivo Cell Surface Architectures. ACS Applied Materials & Interfaces, 2017, 9, 35526-35538.	4.0	30
41	Image Restoration and Analysis of Influenza Virions Binding to Membrane Receptors Reveal Adhesion-Strengthening Kinetics. PLoS ONE, 2016, 11, e0163437.	1.1	27
42	A camel-derived MERS-CoV with a variant spike protein cleavage site and distinct fusion activation properties. Emerging Microbes and Infections, 2016, 5, 1-9.	3.0	21
43	Supported Lipid Bilayer Assembly on PEDOT:PSS Films and Transistors. Advanced Functional Materials, 2016, 26, 7304-7313.	7.8	62
44	Viral fusion efficacy of specific H3N2 influenza virus reassortant combinations at single-particle level. Scientific Reports, 2016, 6, 35537.	1.6	18
45	A Molecularly Complete Planar Bacterial Outer Membrane Platform. Scientific Reports, 2016, 6, 32715.	1.6	50
46	Membrane Protein Mobility and Orientation Preserved in Supported Bilayers Created Directly from Cell Plasma Membrane Blebs. Langmuir, 2016, 32, 2963-2974.	1.6	80
47	Single-Particle Tracking Shows that a Point Mutation in the Carnivore Parvovirus Capsid Switches Binding between Host-Specific Transferrin Receptors. Journal of Virology, 2016, 90, 4849-4853.	1.5	11
48	Generation of Motion of Drops with Interfacial Contact. Langmuir, 2015, 31, 9266-9281.	1.6	57
49	Dynamics of sessile drops. Part 2. Experiment. Journal of Fluid Mechanics, 2015, 768, 442-467.	1.4	51
50	A review of traditional and emerging methods to characterize lipidâ€“protein interactions in biological membranes. Analytical Methods, 2015, 7, 7076-7094.	1.3	26
51	Variations in pH Sensitivity, Acid Stability, and Fusogenicity of Three Influenza Virus H3 Subtypes. Journal of Virology, 2015, 89, 350-360.	1.5	38
52	Stochastic Fusion Simulations and Experiments Suggest Passive and Active Roles of Hemagglutinin during Membrane Fusion. Biophysical Journal, 2014, 106, 843-854.	0.2	11
53	Condensation on Surface Energy Gradient Shifts Drop Size Distribution toward Small Drops. Langmuir, 2014, 30, 1788-1798.	1.6	70
54	Single particle assay of coronavirus membrane fusion with proteinaceous receptor-embedded supported bilayers. Biomaterials, 2013, 34, 7895-7904.	5.7	63

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55	Membrane Fusion-Competent Virus-Like Proteoliposomes and Proteinaceous Supported Bilayers Made Directly from Cell Plasma Membranes. Langmuir, 2013, 29, 6409-6419.	1.6	42
56	Two-Dimensional Continuous Extraction in Multiphase Lipid Bilayers To Separate, Enrich, and Sort Membrane-Bound Species. Analytical Chemistry, 2013, 85, 6696-6702.	3.2	10
57	Influenza Virus-Membrane Fusion Triggered by Proton Uncaging for Single Particle Studies of Fusion Kinetics. Analytical Chemistry, 2012, 84, 8480-8489.	3.2	43
58	Measuring the Partitioning Kinetics of Membrane Biomolecules Using Patterned Two-Phase Coexistant Lipid Bilayers. Journal of the American Chemical Society, 2011, 133, 15635-15643.	6.6	24
59	Supported Lipid Bilayer Electrophoresis for Separation and Analytical Studies of Cell Membrane Biomolecules. ACS Symposium Series, 2011, , 99-121.	0.5	2
60	Double Cushions Preserve Transmembrane Protein Mobility in Supported Bilayer Systems. Langmuir, 2008, 24, 6820-6826.	1.6	95
61	Supported Lipopolymer Membranes as Nanoscale Filters:Â Simultaneous Protein Recognition and Size-Selection Assays. Journal of the American Chemical Society, 2006, 128, 7168-7169.	6.6	21
62	Making Lipid Membranes Rough, Tough, and Ready to Hit the Road. MRS Bulletin, 2006, 31, 536-540.	1.7	29
63	Vibration-Actuated Drop Motion on Surfaces for Batch Microfluidic Processes. Langmuir, 2005, 21, 4240-4248.	1.6	249
64	Ratcheting Motion of Liquid Drops on Gradient Surfacesâ€. Langmuir, 2004, 20, 4085-4092.	1.6	199
65	Rectified Motion of Liquid Drops on Gradient Surfaces Induced by Vibration. Langmuir, 2002, 18, 3404-3407.	1.6	271
66	Hybrid Supported Lipid Bilayers on PEDOT:PSS for Stable and Tunable Bioelectronic Sensors. , 0, , .		0
67	Biomembranes on Bioelectronic Devices: Functional Transmembrane Proteins for Sensing Applications. , 0, , .		0