Benjamin S Schuster

List of Publications by Year
in descending order

16 papers	1,592 citations	623574 14 h-index	940416 16 g-index
19 all docs	19 docs citations	19 times ranked	2049 citing authors

#	Article	IF	Citations
1	Nanoparticle diffusion in respiratory mucus from humans without lung disease. Biomaterials, 2013, 34, 3439-3446.	5.7	336
2	Controllable protein phase separation and modular recruitment to form responsive membraneless organelles. Nature Communications, 2018, 9, 2985.	5.8	274
3	Nanoparticles that do not adhere to mucus provide uniform and long-lasting drug delivery to airways following inhalation. Science Advances, 2017, 3, e1601556.	4.7	219
4	Identifying sequence perturbations to an intrinsically disordered protein that determine its phase-separation behavior. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11421-11431.	3.3	202
5	Particle tracking in drug and gene delivery research: State-of-the-art applications and methods. Advanced Drug Delivery Reviews, 2015, 91, 70-91.	6.6	114
6	Overcoming the Cystic Fibrosis Sputum Barrier to Leading Adeno-associated Virus Gene Therapy Vectors. Molecular Therapy, 2014, 22, 1484-1493.	3.7	75
7	Designer membraneless organelles sequester native factors for control of cell behavior. Nature Chemical Biology, 2021, 17, 998-1007.	3.9	60
8	Directly light-regulated binding of RGS-LOV photoreceptors to anionic membrane phospholipids. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7720-E7727.	3.3	52
9	Biomolecular Condensates: Sequence Determinants of Phase Separation, Microstructural Organization, Enzymatic Activity, and Material Properties. Journal of Physical Chemistry B, 2021, 125, 3441-3451.	1.2	48
10	Liposome-based mucus-penetrating particles (MPP) for mucosal theranostics: Demonstration of diamagnetic chemical exchange saturation transfer (diaCEST) magnetic resonance imaging (MRI). Nanomedicine: Nanotechnology, Biology, and Medicine, 2015, 11, 401-405.	1.7	44
11	SPLIT: Stable Protein Coacervation Using a Light Induced Transition. ACS Synthetic Biology, 2020, 9, 500-507.	1.9	44
12	Amphiphilic proteins coassemble into multiphasic condensates and act as biomolecular surfactants. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	37
13	Surface tension and viscosity of protein condensates quantified by micropipette aspiration. Biophysical Reports, 2021, 1, 100011.	0.7	32
14	Optochemical Control of Protein Localization and Activity within Cell-like Compartments. Biochemistry, 2018, 57, 2590-2596.	1.2	26
15	Photoactivatable fluorescent probes reveal heterogeneous nanoparticle permeation through biological gels at multiple scales. Journal of Controlled Release, 2017, 260, 124-133.	4.8	14
16	Incorporation and Assembly of a Light-Emitting Enzymatic Reaction into Model Protein Condensates. Biochemistry, 2021, 60, 3137-3151.	1.2	6