

# Sunil K Sinha

## List of Publications by Year in descending order

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60  
papers

1,025  
citations

393982

19  
h-index

433756

31  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1586  
citing authors

#	ARTICLE	IF	CITATIONS
1	X-ray Photon Correlation Spectroscopy Studies of Surfaces and Thin Films. <i>Advanced Materials</i> , 2014, 26, 7764-7785.	11.1	113
2	Long-range interlayer alignment of intralayer domains in stacked lipid bilayers. <i>Nature Materials</i> , 2012, 11, 1074-1080.	13.3	109
3	Waveguide-enhanced grazing-incidence small-angle x-ray scattering of buried nanostructures in thin films. <i>Physical Review B</i> , 2011, 84, .	1.1	76
4	Real-Time Evolution of the Distribution of Nanoparticles in an Ultrathin-Polymer-Film-Based Waveguide. <i>Physical Review Letters</i> , 2005, 94, 145504.	2.9	64
5	Theory of inelastic x-ray scattering from condensed matter. <i>Journal of Physics Condensed Matter</i> , 2001, 13, 7511-7523.	0.7	48
6	Concentration and velocity profiles in a polymeric lithium-ion battery electrolyte. <i>Energy and Environmental Science</i> , 2020, 13, 4312-4321.	15.6	43
7	Demonstration of Feasibility of X-Ray Free Electron Laser Studies of Dynamics of Nanoparticles in Entangled Polymer Melts. <i>Scientific Reports</i> , 2014, 4, 6017.	1.6	41
8	Cholesterol Partition and Condensing Effect in Phase-Separated Ternary Mixture Lipid Multilayers. <i>Biophysical Journal</i> , 2016, 110, 1355-1366.	0.2	41
9	Lipid sponge droplets as programmable synthetic organelles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18206-18215.	3.3	37
10	Entanglement Effects in Capillary Waves on Liquid Polymer Films. <i>Physical Review Letters</i> , 2008, 101, 246104.	2.9	32
11	Observation of a low-viscosity interface between immiscible polymer layers. <i>Physical Review E</i> , 2006, 74, 010602.	0.8	29
12	Partial Crystallinity in Alkyl Side Chain Polymers Dictates Surface Freezing. <i>Physical Review Letters</i> , 2008, 101, 065505.	2.9	26
13	Surface Dynamics of "Dry" Homopolymer Brushes. <i>Macromolecules</i> , 2009, 42, 737-741.	2.2	25
14	X-Ray Fluorescence Correlation Spectroscopy: A Method for Studying Particle Dynamics in Condensed Matter. <i>Physical Review Letters</i> , 1998, 80, 1110-1113.	2.9	23
15	Differential adsorption of a membrane skeletal protein, spectrin, in phospholipid membranes. <i>Europhysics Letters</i> , 2017, 118, 58002.	0.7	23
16	Highly Stable Artificial Cells from Galactopyranose-Derived Single-Chain Amphiphiles. <i>Journal of the American Chemical Society</i> , 2018, 140, 17356-17360.	6.6	23
17	Measurement of the vortex core in sub-100 nm Fe dots using polarized neutron scattering. <i>Europhysics Letters</i> , 2009, 86, 67008.	0.7	22
18	Monte Carlo and mean-field study of antiferromagnetic ordering in cupric oxides. <i>Physical Review B</i> , 1988, 38, 6868-6875.	1.1	21

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19	Surface and interfacial dynamics of polymeric bilayer films. <i>Physical Review E</i> , 2006, 74, 011603.	0.8	20
20	Single-Chain $\beta$ -Glycopyranosylamides of Unsaturated Fatty Acids: Self-Assembly Properties and Applications to Artificial Cell Development. <i>Journal of Physical Chemistry B</i> , 2019, 123, 3711-3720.	1.2	20
21	Surface Tension and Surface Roughness of Supported Polystyrene Films. <i>Macromolecules</i> , 2003, 36, 5704-5709.	2.2	19
22	Surface structure reflectometry with X-rays. <i>Current Opinion in Solid State and Materials Science</i> , 1996, 1, 645-652.	5.6	15
23	Accurate calibration and control of relative humidity close to 100% by X-raying a DOPC multilayer. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 3570-3576.	1.3	15
24	One-Dimensional Anomalous Diffusion of Gold Nanoparticles in a Polymer Melt. <i>Physical Review Letters</i> , 2019, 122, 107802.	2.9	15
25	Structural Color Production in Melanin-Based Disordered Colloidal Nanoparticle Assemblies in Spherical Confinement. <i>Advanced Optical Materials</i> , 2022, 10, .	3.6	15
26	The impact of synchrotron radiation on nanoscience. <i>Applied Surface Science</i> , 2001, 182, 176-185.	3.1	14
27	Diffuse Neutron Scattering from Surfaces and Interfaces. <i>Materials Research Society Symposia Proceedings</i> , 1994, 376, 175.	0.1	13
28	Resonantly enhanced off-specular X-ray scattering from polymer/polymer interfaces. <i>European Physical Journal E</i> , 2005, 17, 353-359.	0.7	10
29	Neutron scattering study of the excitation spectrum of solid helium at ultra-low temperatures. <i>Pramana - Journal of Physics</i> , 2008, 71, 673-678.	0.9	9
30	Anomalous partitioning of water in coexisting liquid phases of lipid multilayers near 100% relative humidity. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 1225-1232.	1.3	8
31	A multi-slice simulation algorithm for grazing-incidence small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2016, 49, 1876-1884.	1.9	7
32	Application of synchrotron radiation techniques to nanoscience. <i>Radiation Physics and Chemistry</i> , 2004, 70, 633-640.	1.4	6
33	Complementary neutron and x-ray reflectivity studies of "near-frictionless" carbon films. <i>Journal of Applied Physics</i> , 2007, 101, 103538.	1.1	6
34	Substrate suppression of thermal roughness in stacked supported bilayers. <i>Physical Review E</i> , 2011, 84, 041914.	0.8	6
35	Nanoscale magnetization inhomogeneity within single phase nanopillars. <i>Physical Review Materials</i> , 2019, 3, .	0.9	5
36	X-ray Photon Correlation Spectroscopy Study on Dynamics of the Free Surface in Entangled Polystyrene Melt Films. <i>Journal of Physics: Conference Series</i> , 2011, 272, 012003.	0.3	4

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37	Synchrotron studies of lattice distortions and lattice modulations in complex oxides. Zeitschrift Fur Kristallographie - Crystalline Materials, 2004, 219, 143-147.	0.4	4
38	Controlling Protein Enrichment in Lipid Sponge Phase Droplets using SNAPâ€Tag Bioconjugation. ChemBioChem, 2022, 23, .	1.3	4
39	Rapid and Sequential Dual Oxime Ligation Enables De Novo Formation of Functional Synthetic Membranes from Waterâ€Soluble Precursors. Angewandte Chemie - International Edition, 2022, 61, .	7.2	4
40	Structure and dynamics of thin polymer films using synchrotron X-ray scattering. Journal of Applied Crystallography, 2007, 40, s18-s22.	1.9	3
41	Effect of Surface Freezing on Meniscus Relaxation in Side Chain Comb Polymers. Physical Review Letters, 2010, 104, 137801.	2.9	2
42	New Developments in the Application of Synchrotron Radiation to Material Science. Japanese Journal of Applied Physics, 1999, 38, 1.	0.8	1
43	The Structure of Jahn-Teller Polarons in the Colossal Magnetoresistive Manganites. Fundamental Materials Research, 2002, , 183-202.	0.1	1
44	Combined neutron and synchrotron studies of magnetic films. Pramana - Journal of Physics, 2006, 67, 47-55.	0.9	1
45	Probing dynamics at surfaces with X-rays and neutrons. Journal of Neutron Research, 2006, 14, 205-212.	0.4	1
46	Complementary use of neutron and synchrotron X-ray scattering for problems of interest in condensed matter physics. Journal of Physics and Chemistry of Solids, 2007, 68, 2048-2051.	1.9	1
47	Structure of Polymer Chains Confined in Vycor. Materials Research Society Symposia Proceedings, 1996, 464, 363.	0.1	0
48	Physics research opportunities with XFELâ€s. AIP Conference Proceedings, 2000, , .	0.3	0
49	Diffuse X-Ray and Neutron Reflection from Surfaces and Interfaces. , 2002, , 351-373.		0
50	Future science at next generation neutron sources. Physica B: Condensed Matter, 2005, 356, 269-275.	1.3	0
51	Complementary neutron and x-ray reflectivity studies of â€near-frictionlessâ€carbon films. Journal of Applied Physics, 2007, 101, 123516.	1.1	0
52	Magnetic vortices in Sub-100 nm magnets. , 2009, , .		0
53	Dynamic and Static Measurements of A Single and Double Phospholipid Bilayer System. Biophysical Journal, 2010, 98, 220a.	0.2	0
54	X-Ray Scattering from Gold Labeled Supported Membranes. Biophysical Journal, 2010, 98, 281a-282a.	0.2	0

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55	First Observation of Dynamics in Lipid Multilayers using X-ray Photon Correlation Spectroscopy (XPCS). <i>Biophysical Journal</i> , 2011, 100, 629a.	0.2	0
56	X-Ray Reflectivity and Diffuse Scattering Study of Effect of Ca <sup>2+</sup> on Cushioned Lipid Bilayer. <i>Biophysical Journal</i> , 2012, 102, 382a.	0.2	0
57	Long-Range Smectic Coupling of Phase Separated Domains in Ternary Mixture Lipid Multilayers. <i>Biophysical Journal</i> , 2013, 104, 588a.	0.2	0
58	Highly Resolved Structure of a Floating Lipid Bilayer: Effects of Calcium Ions and Temperature. <i>Biophysical Journal</i> , 2013, 104, 548a.	0.2	0
59	Logarithmic Domain Growth in Ternary Mixture Lipid Multilayer Systems. <i>Biophysical Journal</i> , 2014, 106, 96a.	0.2	0
60	Rapid and Sequential Dual Oxime Ligation Enables De Novo Formation of Functional Synthetic Membranes from Water-Soluble Precursors. <i>Angewandte Chemie</i> , 0, , .	1.6	0