

Sunil K Sinha

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

49
papers

799
citations

17
h-index

27
g-index

63
ext. papers

903
ext. citations

5.4
avg, IF

3.83
L-index

#	Paper	IF	Citations
49	Structural Color Production in Melanin-Based Disordered Colloidal Nanoparticle Assemblies in Spherical Confinement. <i>Advanced Optical Materials</i> , 2022 , 10, 2102162	8.1	4
48	Controlling Protein Enrichment in Lipid Sponge Phase Droplets using SNAP-tag Bioconjugation.. <i>ChemBioChem</i> , 2021 ,	3.8	2
47	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	11.5	15
46	Concentration and velocity profiles in a polymeric lithium-ion battery electrolyte. <i>Energy and Environmental Science</i> , 2020 , 13, 4312-4321	35.4	17
45	One-Dimensional Anomalous Diffusion of Gold Nanoparticles in a Polymer Melt. <i>Physical Review Letters</i> , 2019 , 122, 107802	7.4	9
44	Single-Chain β -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	3.4	11
43	Nanoscale magnetization inhomogeneity within single phase nanopillars. <i>Physical Review Materials</i> , 2019 , 3,	3.2	3
42	Highly Stable Artificial Cells from Galactopyranose-Derived Single-Chain Amphiphiles. <i>Journal of the American Chemical Society</i> , 2018 , 140, 17356-17360	16.4	16
41	Differential adsorption of a membrane skeletal protein, spectrin, in phospholipid membranes. <i>Europhysics Letters</i> , 2017 , 118, 58002	1.6	19
40	A multi-slice simulation algorithm for grazing-incidence small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , 2016 , 49, 1876-1884	3.8	6
39	Anomalous partitioning of water in coexisting liquid phases of lipid multilayers near 100% relative humidity. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 1225-32	3.6	4
38	Cholesterol Partition and Condensing Effect in Phase-Separated Ternary Mixture Lipid Multilayers. <i>Biophysical Journal</i> , 2016 , 110, 1355-66	2.9	29
37	Accurate calibration and control of relative humidity close to 100% by X-raying a DOPC multilayer. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 3570-6	3.6	9
36	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	4.9	36
35	X-ray photon correlation spectroscopy studies of surfaces and thin films. <i>Advanced Materials</i> , 2014 , 26, 7764-85	24	81
34	X-Ray Reflectivity and Diffuse Scattering Study of Effect of Ca ²⁺ on Cushioned Lipid Bilayer. <i>Biophysical Journal</i> , 2012 , 102, 382a	2.9	
33	Long-range interlayer alignment of intralayer domains in stacked lipid bilayers. <i>Nature Materials</i> , 2012 , 11, 1074-80	27	91

32	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
31	Substrate suppression of thermal roughness in stacked supported bilayers. <i>Physical Review E</i> , 2011 , 84, 041914	2.4	6
30	Waveguide-enhanced grazing-incidence small-angle x-ray scattering of buried nanostructures in thin films. <i>Physical Review B</i> , 2011 , 84,	3.3	65
29	Effect of surface freezing on meniscus relaxation in side chain comb polymers. <i>Physical Review Letters</i> , 2010 , 104, 137801	7.4	2
28	Measurement of the vortex core in sub-100 nm Fe dots using polarized neutron scattering. <i>Europhysics Letters</i> , 2009 , 86, 67008	1.6	21
27	Surface Dynamics of Dry Homopolymer Brushes. <i>Macromolecules</i> , 2009 , 42, 737-741	5.5	25
26	Partial crystallinity in alkyl side chain polymers dictates surface freezing. <i>Physical Review Letters</i> , 2008 , 101, 065505	7.4	23
25	Entanglement effects in capillary waves on liquid polymer films. <i>Physical Review Letters</i> , 2008 , 101, 246104	7.4	31
24	Neutron scattering study of the excitation spectrum of solid helium at ultra-low temperatures 2008 , 71, 673-678		7
23	Structure and dynamics of thin polymer films using synchrotron X-ray scattering. <i>Journal of Applied Crystallography</i> , 2007 , 40, s18-s22	3.8	3
22	Complementary use of neutron and synchrotron X-ray scattering for problems of interest in condensed matter physics. <i>Journal of Physics and Chemistry of Solids</i> , 2007 , 68, 2048-2051	3.9	1
21	Complementary neutron and x-ray reflectivity studies of near-frictionless carbon films. <i>Journal of Applied Physics</i> , 2007 , 101, 103538	2.5	6
20	Complementary neutron and x-ray reflectivity studies of near-frictionless carbon films. <i>Journal of Applied Physics</i> , 2007 , 101, 123516	2.5	
19	Combined neutron and synchrotron studies of magnetic films 2006 , 67, 47-55		1
18	Probing dynamics at surfaces with X-rays and neutrons. <i>Journal of Neutron Research</i> , 2006 , 14, 205-212	0.5	1
17	Surface and interfacial dynamics of polymeric bilayer films. <i>Physical Review E</i> , 2006 , 74, 011603	2.4	16
16	Observation of a low-viscosity interface between immiscible polymer layers. <i>Physical Review E</i> , 2006 , 74, 010602	2.4	27
15	Real-time evolution of the distribution of nanoparticles in an ultrathin-polymer-film-based waveguide. <i>Physical Review Letters</i> , 2005 , 94, 145504	7.4	55

14	Future science at next generation neutron sources. <i>Physica B: Condensed Matter</i> , 2005 , 356, 269-275	2.8	
13	Resonantly enhanced off-specular X-ray scattering from polymer/polymer interfaces. <i>European Physical Journal E</i> , 2005 , 17, 353-9	1.5	9
12	Application of synchrotron radiation techniques to nanoscience. <i>Radiation Physics and Chemistry</i> , 2004 , 70, 633-640	2.5	5
11	Synchrotron studies of lattice distortions and lattice modulations in complex oxides. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2004 , 219, 143-147	1	2
10	Surface Tension and Surface Roughness of Supported Polystyrene Films. <i>Macromolecules</i> , 2003 , 36, 5704-5709	5.5	19
9	Diffuse X-Ray and Neutron Reflection from Surfaces and Interfaces 2002 , 351-373		
8	The Structure of Jahn-Teller Polarons in the Colossal Magnetoresistive Manganites. <i>Fundamental Materials Research</i> , 2002 , 183-202		1
7	The impact of synchrotron radiation on nanoscience. <i>Applied Surface Science</i> , 2001 , 182, 176-185	6.7	12
6	Theory of inelastic x-ray scattering from condensed matter. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 7511-7523	1.8	36
5	X-Ray Fluorescence Correlation Spectroscopy: A Method for Studying Particle Dynamics in Condensed Matter. <i>Physical Review Letters</i> , 1998 , 80, 1110-1113	7.4	20
4	Surface structure reflectometry with X-rays. <i>Current Opinion in Solid State and Materials Science</i> , 1996 , 1, 645-652	12	15
3	Structure of Polymer Chains Confined in Vycor. <i>Materials Research Society Symposia Proceedings</i> , 1996 , 464, 363		
2	Diffuse Neutron Scattering from Surfaces and Interfaces. <i>Materials Research Society Symposia Proceedings</i> , 1994 , 376, 175		13
1	Monte Carlo and mean-field study of antiferromagnetic ordering in cupric oxides. <i>Physical Review B</i> , 1988 , 38, 6868-6875	3.3	20