## Masafumi Fukuto

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Critical Casimir Effect in Three-Dimensional Ising Systems: Measurements on Binary Wetting Films. Physical Review Letters, 2005, 94, 135702.	7.8	136
2	Enhanced dielectric properties due to space charge-induced interfacial polarization in multilayer polymer films. Journal of Materials Chemistry C, 2017, 5, 10417-10426.	5.5	108
3	Modular Self-Assembly of Protein Cage Lattices for Multistep Catalysis. ACS Nano, 2018, 12, 942-953.	14.6	86
4	Two-Dimensional DNA-Programmable Assembly of Nanoparticles at Liquid Interfaces. Journal of the American Chemical Society, 2014, 136, 8323-8332.	13.7	73
5	A Kriging-Based Approach to Autonomous Experimentation with Applications to X-Ray Scattering. Scientific Reports, 2019, 9, 11809.	3.3	72
6	Surface layering of liquids: The role of surface tension. Physical Review B, 2004, 69, .	3.2	69
7	Tunable Nanoparticle Arrays at Charged Interfaces. ACS Nano, 2014, 8, 9857-9866.	14.6	61
8	High Dielectric Constant Polycarbonate/Nylon Multilayer Films Capacitors with Self-Healing Capability. ACS Applied Polymer Materials, 2019, 1, 867-875.	4.4	60
9	Liquids on Topologically Nanopatterned Surfaces. Physical Review Letters, 2005, 95, 217801.	7.8	53
10	Monolayer/bilayer transition in Langmuir films of derivatized gold nanoparticles at the gas/water interface: An x-ray scattering study. Journal of Chemical Physics, 2004, 120, 3446-3459.	3.0	51
11	Melt crystallization/dewetting of ultrathin PEO films via carbon dioxide annealing: the effects of polymer adsorbed layers. Soft Matter, 2014, 10, 6392.	2.7	50
12	Effects of Divalent Cations on Phase Behavior and Structure of a Zwitterionic Phospholipid (DMPC) Monolayer at the Airâ^'Water Interface. Journal of Physical Chemistry Letters, 2010, 1, 489-495.	4.6	45
13	Gaussian processes for autonomous data acquisition at large-scale synchrotron and neutron facilities. Nature Reviews Physics, 2021, 3, 685-697.	26.6	44
14	Structure of poly(γ-benzyl-L-glutamate) monolayers at the gas–water interface: A Brewster angle microscopy and x-ray scattering study. Journal of Chemical Physics, 1999, 111, 9761-9777.	3.0	41
15	Antifreeze Hydrogels from Amphiphilic Statistical Copolymers. Chemistry of Materials, 2019, 31, 135-145.	6.7	39
16	Autonomous materials discovery driven by Gaussian process regression with inhomogeneous measurement noise and anisotropic kernels. Scientific Reports, 2020, 10, 17663.	3.3	38
17	Wetting of liquid-crystal surfaces and induced smectic layering at a nematic-liquid interface: An x-ray reflectivity study. Physical Review E, 2008, 77, 031607.	2.1	31
18	4Heliquid-vapor interface below 1 K studied using x-ray reflectivity. Physical Review B, 2000, 62, 9621-9640.	3.2	30

Мазағимі Ғикито

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19	Structure-induced switching of interpolymer adhesion at a solid–polymer melt interface. Soft Matter, 2018, 14, 1108-1119.	2.7	30
20	Flat-On Secondary Crystals as Effective Blocks To Reduce Ionic Conduction Loss in Polysulfone/Poly(vinylidene fluoride) Multilayer Dielectric Films. Macromolecules, 2018, 51, 5019-5026.	4.8	30
21	Thickness-Dependent Ordering Kinetics in Cylindrical Block Copolymer/Homopolymer Ternary Blends. Macromolecules, 2018, 51, 10259-10270.	4.8	29
22	Capillary wave fluctuations and intrinsic widths of coupled fluid-fluid interfaces: An x-ray scattering study of a wetting film on bulk liquid. Physical Review E, 2006, 74, 031607.	2.1	28
23	Pathway-engineering for highly-aligned block copolymer arrays. Nanoscale, 2018, 10, 416-427.	5.6	28
24	Advances in Kriging-Based Autonomous X-Ray Scattering Experiments. Scientific Reports, 2020, 10, 1325.	3.3	28
25	Formation and Collapse of Single-Monomer-Thick Monolayers of Poly( <i>n</i> -butyl acrylate) at the Airâ <sup>-</sup> 'Water Interface. Macromolecules, 2010, 43, 2990-3003.	4.8	26
26	Quenching of capillary waves in composite wetting films from a binary vapor: An x-ray reflectivity study. Physical Review B, 2001, 63, .	3.2	24
27	Wet Brush Homopolymers as "Smart Solvents―for Rapid, Large Period Block Copolymer Thin Film Self-Assembly. Macromolecules, 2020, 53, 1098-1113.	4.8	24
28	Structure and interaction in 2D assemblies of tobacco mosaic viruses. Soft Matter, 2009, 5, 4951.	2.7	22
29	Systematic approach to electrostatically induced 2D crystallization of nanoparticles at liquid interfaces. Soft Matter, 2011, 7, 939-945.	2.7	21
30	Linker-Mediated Assembly of Virus-Like Particles into Ordered Arrays via Electrostatic Control. ACS Applied Bio Materials, 2019, 2, 2192-2201.	4.6	21
31	Achieving Flat-on Primary Crystals by Nanoconfined Crystallization in High-Temperature Polycarbonate/Poly(vinylidene fluoride) Multilayer Films and Its Effect on Dielectric Insulation. ACS Applied Materials & Interfaces, 2020, 12, 44892-44901.	8.0	20
32	Reducing dielectric loss and enhancing electrical insulation for multilayer polymer films by nanoconfined ion transport under high poling electric fields. Journal of Materials Chemistry C, 2020, 8, 6102-6117.	5.5	20
33	C60-propylamine adduct monolayers at the gas/water interface: A Brewster angle microscopy and x-ray scattering study. Journal of Chemical Physics, 1997, 107, 5531-5546.	3.0	19
34	Unconventional Complex Coacervation between Neutral Polymer and Inorganic Polyoxometalate in Aqueous Solution via Direct Water Mediation. Macromolecules, 2019, 52, 8275-8284.	4.8	18
35	Strain rate dependent nanostructure of hydrogels with reversible hydrophobic associations during uniaxial extension. Soft Matter, 2019, 15, 227-236.	2.7	15
36	Internal segregation and side chain ordering in hairy-rod polypeptide monolayers at the gas/water interface: An x-ray scattering study. Journal of Chemical Physics, 2003, 119, 6253-6270.	3.0	14

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37	Effects of surface ligand density on lipid-monolayer-mediated 2D assembly of proteins. Soft Matter, 2010, 6, 1513.	2.7	14
38	Liquid interfaces with pH-switchable nanoparticle arrays. Soft Matter, 2018, 14, 3929-3934.	2.7	14
39	Crystallization, structural diversity and anisotropy effects in 2D arrays of icosahedral viruses. Soft Matter, 2013, 9, 9633.	2.7	13
40	Thickness Limit for Alignment of Block Copolymer Films Using Solvent Vapor Annealing with Shear. Macromolecules, 2018, 51, 4213-4219.	4.8	12
41	"Structurally Neutral―Densely Packed Homopolymer-Adsorbed Chains for Directed Self-Assembly of Block Copolymer Thin Films. Macromolecules, 2019, 52, 5157-5167.	4.8	12
42	Role of electrostatic interactions in two-dimensional self-assembly of tobacco mosaic viruses on cationic lipid monolayers. Journal of Colloid and Interface Science, 2011, 358, 497-505.	9.4	10
43	Cyclic Topology Enhancing Structural Ordering and Stability of Comb-Shaped Polypeptoid Thin Films against Melt-Induced Dewetting. Macromolecules, 2020, 53, 7601-7612.	4.8	10
44	Novel Effects of Compressed CO <sub>2</sub> Molecules on Structural Ordering and Charge Transport in Conjugated Poly(3-hexylthiophene) Thin Films. Langmuir, 2016, 32, 10851-10860.	3.5	9
45	Long-Range Lamellar Alignment in Diblock Bottlebrush Copolymers via Controlled Oscillatory Shear. Macromolecules, 2020, 53, 2834-2840.	4.8	9
46	Future trends in synchrotron science at NSLS-II. Journal of Physics Condensed Matter, 2020, 32, 374008.	1.8	7
47	Wetting of hydrocarbon liquid surfaces by fluorocarbon vapor: a microscopic study. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2002, 206, 293-297.	4.7	6
48	Self-Organization of Triblock Copolymer Melt Chains Physisorbed on Non-neutral Surfaces. ACS Omega, 2018, 3, 17805-17813.	3.5	6
49	Kinetically controlled morphology in copolymer-based hydrogels crosslinked by crystalline nanodomains determines efficacy of ice inhibition. Molecular Systems Design and Engineering, 2020, 5, 645-655.	3.4	6
50	Rapid assessment of crystal orientation in semi-crystalline polymer films using rotational zone annealing and impact of orientation on mechanical properties. Soft Matter, 2017, 13, 7074-7084.	2.7	5
51	Ultrastructure of Critical-Gel-like Polyzwitterion–Polyoxometalate Complex Coacervates: Effects of Temperature, Salt Concentration, and Shear. Macromolecules, 2020, 53, 10972-10980.	4.8	4
52	Transmission X-ray scattering as a probe for complex liquid-surface structures. Journal of Synchrotron Radiation, 2016, 23, 519-531.	2.4	4
53	X-ray-induced thinning of3Heand3He/4Hemixture films. Physical Review B, 2000, 62, 9641-9647.	3.2	2
54	Influence of the Nature of Aliphatic Hydrophobic Physical Crosslinks on Water Crystallization in Copolymer Hydrogels. Journal of Physical Chemistry B, 2022, 126, 5544-5554.	2.6	1