Chihiro Urata

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8172715/publications.pdf

Version: 2024-02-01

41 papers	2,038 citations	236925 25 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	2449 citing authors

#	Article	IF	Citations
1	Preparation of Colloidal Mesoporous Silica Nanoparticles with Different Diameters and Their Unique Degradation Behavior in Static Aqueous Systems. Chemistry of Materials, 2012, 24, 1462-1471.	6.7	250
2	Self-lubricating organogels (SLUGs) with exceptional syneresis-induced anti-sticking properties against viscous emulsions and ices. Journal of Materials Chemistry A, 2015, 3, 12626-12630.	10.3	236
3	Aqueous Colloidal Mesoporous Nanoparticles with Ethenylene-Bridged Silsesquioxane Frameworks. Journal of the American Chemical Society, 2011, 133, 8102-8105.	13.7	170
4	A Physical Approach To Specifically Improve the Mobility of Alkane Liquid Drops. Journal of the American Chemical Society, 2012, 134, 10191-10199.	13.7	151
5	Continuous, High-Speed, and Efficient Oil/Water Separation using Meshes with Antagonistic Wetting Properties. ACS Applied Materials & Interfaces, 2015, 7, 18915-18919.	8.0	98
6	Anti-Fogging/Self-Healing Properties of Clay-Containing Transparent Nanocomposite Thin Films. ACS Applied Materials & Interfaces, 2016, 8, 4318-4322.	8.0	98
7	Large-Scale and Environmentally Friendly Synthesis of pH-Responsive Oil-Repellent Polymer Brush Surfaces under Ambient Conditions. ACS Applied Materials & Interfaces, 2014, 6, 11864-11868.	8.0	92
8	Smooth Perfluorinated Surfaces with Different Chemical and Physical Natures: Their Unusual Dynamic Dewetting Behavior toward Polar and Nonpolar Liquids. Langmuir, 2013, 29, 11322-11329.	3.5	82
9	Critical Roles of Cationic Surfactants in the Preparation of Colloidal Mesostructured Silica Nanoparticles: Control of Mesostructure, Particle Size, and Dispersion. ACS Applied Materials & Interfaces, 2014, 6, 3491-3500.	8.0	69
10	Preparation of aqueous colloidal mesostructured and mesoporous silica nanoparticles with controlled particle size in a very wide range from 20 nm to 700 nm. Nanoscale, 2013, 5, 6145.	5.6	66
11	Why Can Organic Liquids Move Easily on Smooth Alkyl-Terminated Surfaces?. Langmuir, 2014, 30, 4049-4055.	3.5	56
12	Self-Healing Superhydrophobic Materials Showing Quick Damage Recovery and Long-Term Durability. Langmuir, 2017, 33, 9972-9978.	3.5	53
13	Smooth, transparent and nonperfluorinated surfaces exhibiting unusual contact angle behavior toward organic liquids. RSC Advances, 2012, 2, 9805.	3.6	50
14	How To Reduce Resistance to Movement of Alkane Liquid Drops Across Tilted Surfaces Without Relying on Surface Roughening and Perfluorination. Langmuir, 2012, 28, 17681-17689.	3.5	50
15	Unusual Dynamic Dewetting Behavior of Smooth Perfluorinated Hybrid Films: Potential Advantages over Conventional Textured and Liquid-Infused Perfluorinated Surfaces. Langmuir, 2013, 29, 12472-12482.	3.5	50
16	Transparent Organogel Films Showing Extremely Efficient and Durable Anti-Icing Performance. ACS Applied Materials & Interfaces, 2021, 13, 28925-28937.	8.0	47
17	Long perfluoroalkyl chains are not required for dynamically oleophobic surfaces. Green Chemistry, 2013, 15, 100-104.	9.0	42
18	Solâ€"Gel Preparation of Initiator Layers for Surface-Initiated ATRP: Large-Scale Formation of Polymer Brushes Is Not a Dream. Macromolecules, 2018, 51, 10065-10073.	4.8	38

#	Article	IF	Citations
19	Transparent gel composite films with multiple functionalities: Long-lasting anti-fogging, underwater superoleophobicity and anti-bacterial activity. Journal of Colloid and Interface Science, 2017, 505, 566-576.	9.4	35
20	A multifunctional role of trialkylbenzenes for the preparation of aqueous colloidal mesostructured/mesoporous silica nanoparticles with controlled pore size, particle diameter, and morphology. Nanoscale, 2015, 7, 19557-19567.	5.6	34
21	Omniphobic Metal Surfaces with Low Contact Angle Hysteresis and Tilt Angles. Langmuir, 2018, 34, 11405-11413.	3.5	34
22	Programmable Oil/Water Separation Meshes: Water or Oil Selectivity Using Contact Angle Hysteresis. Macromolecular Materials and Engineering, 2016, 301, 1032-1036.	3.6	33
23	Transparent and Hard Zirconia-Based Hybrid Coatings with Excellent Dynamic/Thermoresponsive Oleophobicity, Thermal Durability, and Hydrolytic Stability. ACS Applied Materials & Interfaces, 2013, 5, 7899-7905.	8.0	29
24	An Underwater Superoleophobic Surface That Can Be Activated/Deactivated via External Triggers. Langmuir, 2014, 30, 13438-13446.	3.5	28
25	Textured Organogel Films Showing Unusual Thermoresponsive Dewetting, Icephobic, and Optical Properties. Advanced Materials Interfaces, 2019, 6, 1801358.	3.7	28
26	Fabrication of Hierarchically Porous Spherical Particles by Assembling Mesoporous Silica Nanoparticles via Spray Drying. Journal of Nanoscience and Nanotechnology, 2008, 8, 3101-3105.	0.9	22
27	Polymer Brush Surfaces Showing Superhydrophobicity and Air-Bubble Repellency in a Variety of Organic Liquids. ACS Applied Materials & Interfaces, 2015, 7, 12220-12229.	8.0	21
28	Smooth and Transparent Films Showing Paradoxical Surface Properties: The Lower the Static Contact Angle, the Better the Water Sliding Performance. Langmuir, 2019, 35, 6822-6829.	3.5	18
29	Novel Transparent Zirconium-Based Hybrid Material With Multilayered Nanostructures: Studies of Surface Dewettability Toward Alkane Liquids. ACS Applied Materials & Interfaces, 2013, 5, 154-163.	8.0	14
30	Effective Use of Alkoxysilanes with Different Hydrolysis Rates for Particle Size Control of Aqueous Colloidal Mesostructured and Mesoporous Silica Nanoparticles by the Seedâ€Growth Method. ChemNanoMat, 2015, 1, 194-202.	2.8	9
31	Preparation of mesostructured silicaâ€“micelle hybrids and their conversion to mesoporous silica modified controllably with immobilized hydrophobic blocks by using triethoxysilyl-terminated PEOâ€“PPOâ€“PEO triblock copolymer. Journal of Materials Chemistry, 2011, 21, 3711.	6.7	8
32	One-pot Preparation of Mesoporous Silica Particles Having Mesopore Surface Functionalized with Poly(propylene oxide) Chains. Chemistry Letters, 2007, 36, 850-851.	1.3	7
33	Antiadhesive Properties of Oil-Infused Gels against the Universal Adhesiveness of Polydopamine. Langmuir, 2020, 36, 4496-4502.	3.5	7
34	Pore Clogging of Colloidal Mesoporous Silica Nanoparticles for Encapsulating Guest Species. Bulletin of the Chemical Society of Japan, 2017, 90, 706-708.	3.2	5
35	Bio-Inspired Layered Hybrid Films Showing Long-Lasting Corrosion Resistance and Repeatable Regeneration of Surface Hydrophobicity. Journal of Nanoscience and Nanotechnology, 2016, 16, 9166-9172.	0.9	3
36	Polyurethane-Based Ionogels Exhibiting Durable Thermoresponsive Optical Behavior Under High-Temperature Conditions. Journal of Nanoscience and Nanotechnology, 2018, 18, 195-201.	0.9	3

#	Article	IF	Citations
37	Hard Coating for Polymer Substrates Through Lamination and Peeling of Porous Anodized Zirconia. Journal of Nanoscience and Nanotechnology, 2014, 14, 3006-3010.	0.9	1
38	Development of environmentally-friendly surface modification technology. Synthesiology, 2014, 7, 185-193.	0.2	1
39	Bio-Inspired Hard Coating for Polymeric Materials Based on Lamination of Ordered Porous Anodized Zirconia Membranes. Kobunshi Ronbunshu, 2013, 70, 232-234.	0.2	0
40	Biomimetic Liquid Repellent Materials Learned from Biological Self-reparing Functionalities. Seikei-Kakou, 2017, 29, 72-75.	0.0	0
41	Spatially-Regulated Deposition of Quantum Dots on the Patterned Polymer Brush. Journal of Nanoscience and Nanotechnology, 2020, 20, 5201-5210.	0.9	0