

# Jingxin Meng

## List of Publications by Year in descending order

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65  
papers

3,644  
citations

147801

31  
h-index

128289

60  
g-index

68  
all docs

68  
docs citations

68  
times ranked

4830  
citing authors

#	ARTICLE	IF	CITATIONS
1	Dual-Responsive Surfaces Modified with Phenylboronic Acid-Containing Polymer Brush To Reversibly Capture and Release Cancer Cells. <i>Journal of the American Chemical Society</i> , 2013, 135, 7603-7609.	13.7	371
2	Directly Coating Hydrogel on Filter Paper for Effective Oil/Water Separation in Highly Acidic, Alkaline, and Salty Environment. <i>Advanced Functional Materials</i> , 2015, 25, 5368-5375.	14.9	322
3	Clam's Shell Inspired High-Energy Inorganic Coatings with Underwater Low Adhesive Superoleophobicity. <i>Advanced Materials</i> , 2012, 24, 3401-3405.	21.0	277
4	Hydrophobic Interaction-Mediated Capture and Release of Cancer Cells on Thermoresponsive Nanostructured Surfaces. <i>Advanced Materials</i> , 2013, 25, 922-927.	21.0	247
5	Programmable Fractal Nanostructured Interfaces for Specific Recognition and Electrochemical Release of Cancer Cells. <i>Advanced Materials</i> , 2013, 25, 3566-3570.	21.0	198
6	Hydrophilic/Oleophilic Magnetic Janus Particles for the Rapid and Efficient Oil/Water Separation. <i>Advanced Functional Materials</i> , 2018, 28, 1802493.	14.9	144
7	Bioinspired Multiscale Wet Adhesive Surfaces: Structures and Controlled Adhesion. <i>Advanced Functional Materials</i> , 2020, 30, 1905287.	14.9	137
8	Polyoxometalate-Based Metal-Organic Frameworks Assembled under the Ionothermal Conditions. <i>Crystal Growth and Design</i> , 2011, 11, 458-465.	3.0	123
9	Base-Directed Self-Assembly of Octamolybdate-Based Frameworks Decorated by Flexible N-Containing Ligands. <i>Crystal Growth and Design</i> , 2009, 9, 4116-4126.	3.0	122
10	Hierarchical Nanowire Arrays as Three-Dimensional Fractal Nanobiointerfaces for High Efficient Capture of Cancer Cells. <i>Nano Letters</i> , 2016, 16, 766-772.	9.1	122
11	Grooved Organogel Surfaces towards Anisotropic Sliding of Water Droplets. <i>Advanced Materials</i> , 2014, 26, 3131-3135.	21.0	113
12	A general strategy to synthesize chemically and topologically anisotropic Janus particles. <i>Science Advances</i> , 2017, 3, e1603203.	10.3	105
13	Controllable self-assembly of four new metal-organic frameworks based on different phosphomolybdate clusters by altering the molar ratio of H <sub>3</sub> PO <sub>4</sub> and Na <sub>2</sub> MoO <sub>4</sub> . <i>CrystEngComm</i> , 2011, 13, 2479.	2.6	86
14	A Self-Cleaning TiO <sub>2</sub> Nanosisal-like Coating toward Disposing Nanobiochips of Cancer Detection. <i>ACS Nano</i> , 2015, 9, 9284-9291.	14.6	76
15	A monolithic hydro/organo macro copolymer actuator synthesized via interfacial copolymerization. <i>NPG Asia Materials</i> , 2017, 9, e380-e380.	7.9	71
16	Papilla-like magnetic particles with hierarchical structure for oil removal from water. <i>Chemical Communications</i> , 2013, 49, 8752.	4.1	70
17	Trap Effect of Three-Dimensional Fibers Network for High Efficient Cancer Cell Capture. <i>Advanced Healthcare Materials</i> , 2015, 4, 838-843.	7.6	53
18	Nacre-Inspired Mineralized Films with High Transparency and Mechanically Robust Underwater Superoleophobicity. <i>Advanced Materials</i> , 2020, 32, e1907413.	21.0	51

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19	Superwetable microchips with improved spot homogeneity toward sensitive biosensing. <i>Biosensors and Bioelectronics</i> , 2018, 102, 418-424.	10.1	47
20	Controllable self-assembly of two novel metal-organic frameworks based on different tetradentate in situ ligands. <i>CrystEngComm</i> , 2011, 13, 649-655.	2.6	46
21	Advanced Nanotechnologies for Extracellular Vesicle-Based Liquid Biopsy. <i>Advanced Science</i> , 2021, 8, e2102789.	11.2	46
22	Efficient Capture of Cancer Cells by Their Replicated Surfaces Reveals Multiscale Topographic Interactions Coupled with Molecular Recognition. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 10537-10543.	8.0	44
23	Recent progress of abrasion-resistant materials: learning from nature. <i>Chemical Society Reviews</i> , 2016, 45, 237-251.	38.1	42
24	Cell adhesive spectra along surface wettability gradient from superhydrophilicity to superhydrophobicity. <i>Science China Chemistry</i> , 2017, 60, 614-620.	8.2	42
25	Amplified effect of surface charge on cell adhesion by nanostructures. <i>Nanoscale</i> , 2016, 8, 12540-12543.	5.6	41
26	Bioinspired Microfluidic Device by Integrating a Porous Membrane and Heterostructured Nanoporous Particles for Biomolecule Cleaning. <i>ACS Nano</i> , 2019, 13, 8374-8381.	14.6	40
27	Recent Progress in Biointerfaces with Controlled Bacterial Adhesion by Using Chemical and Physical Methods. <i>Chemistry - an Asian Journal</i> , 2014, 9, 2004-2016.	3.3	39
28	Controllable assembly of four new POM-based supramolecular compounds by altering the POM secondary building units from pseudo-Keggin to classical Keggin. <i>CrystEngComm</i> , 2011, 13, 2687.	2.6	37
29	Hierarchical Biointerfaces Assembled by Leukocyte-Inspired Particles for Specifically Recognizing Cancer Cells. <i>Small</i> , 2014, 10, 3735-3741.	10.0	37
30	Photo-responsive polymer materials for biological applications. <i>Chinese Chemical Letters</i> , 2017, 28, 2085-2091.	9.0	35
31	Advanced Antiscaling Interfacial Materials toward Highly Efficient Heat Energy Transfer. <i>Advanced Functional Materials</i> , 2020, 30, 1904796.	14.9	33
32	Bioinspired Pollen-Like Hierarchical Surface for Efficient Recognition of Target Cancer Cells. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700003.	7.6	31
33	Bio-inspired superhydrophilic coatings with high anti-adhesion against mineral scales. <i>NPG Asia Materials</i> , 2018, 10, e471-e471.	7.9	30
34	Protein-mediated anti-adhesion surface against oral bacteria. <i>Nanoscale</i> , 2018, 10, 2711-2714.	5.6	28
35	Controlled Growth of Patterned Conducting Polymer Microsuckers on Superhydrophobic Micropillar-Structured Templates. <i>Advanced Functional Materials</i> , 2018, 28, 1800240.	14.9	27
36	An unprecedented (3,4)-connected self-penetrating network of zinc complex: In situ formation of a tetradentate N-heterocyclic ligand under POMs-mediated hydrothermal conditions. <i>Inorganica Chimica Acta</i> , 2008, 361, 2447-2454.	2.4	26

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37	Photo-responsive smart surfaces with controllable cell adhesion. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2018, 355, 202-211.	3.9	26
38	Platelet-Inspired Multiscaled Cytophilic Interfaces with High Specificity and Efficiency toward Point-of-Care Cancer Diagnosis. <i>Small</i> , 2014, 10, 4677-4683.	10.0	25
39	Bio-Inspired Underwater Super Oil-Repellent Coatings for Anti-Oil Pollution. <i>Langmuir</i> , 2018, 34, 6063-6069.	3.5	21
40	How to Prevent Bubbles in Microfluidic Channels. <i>Langmuir</i> , 2021, 37, 2187-2194.	3.5	20
41	Photo-Irresponsible Molecule-Amplified Cell Release on Photoresponsive Nanostructured Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 29681-29688.	8.0	18
42	Evaporation-Induced rGO Coatings for Highly Sensitive and Non-Invasive Diagnosis of Prostate Cancer in the PSA Gray Zone. <i>Advanced Materials</i> , 2021, 33, e2103999.	21.0	18
43	Rapid Cell Patterning Induced by Differential Topography on Silica Nanofractal Substrates. <i>Small</i> , 2015, 11, 5642-5646.	10.0	16
44	The construction of a new POMs-based inorganic-organic hybrid framework involving in-situ ligand conversion from 1,3-bis(4-pyridyl)propane to isonicotinic acid. <i>Inorganica Chimica Acta</i> , 2011, 370, 203-206.	2.4	15
45	Recent Progress of Bioinspired Scaephobic Surfaces with Specific Barrier Layers. <i>Langmuir</i> , 2021, 37, 8639-8657.	3.5	15
46	Electrochemical Responsive Superhydrophilic Surfaces of Polythiophene Derivatives towards Cell Capture and Release. <i>ChemPhysChem</i> , 2018, 19, 2046-2051.	2.1	13
47	Bioinspired Superhydrophobic Ni-Ti Archwires with Resistance to Bacterial Adhesion and Nickel Ion Release. <i>Advanced Materials Interfaces</i> , 2019, 6, 1801569.	3.7	13
48	Topography-Induced Cell Self-Organization from Simple to Complex Aggregates. <i>Small</i> , 2019, 15, e1900030.	10.0	10
49	Nacre-Inspired Biomineralized Mesh toward Scalable and Robust Oil-Water Separation with High Efficiency. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100852.	3.7	10
50	Semi-Egg-Like Heterogeneous Compartmentalization of Cells Controlled by Contact Angle Hysteresis. <i>Advanced Functional Materials</i> , 2015, 25, 4506-4511.	14.9	8
51	Syntheses and crystal structures of two compounds based on saturated keggin-type polyoxotungstates and mixed ligands. <i>Journal of Coordination Chemistry</i> , 2008, 61, 2853-2860.	2.2	7
52	Syntheses, crystal structures and photochemistry of two new organic-inorganic hybrid compounds based on copper-glycin complexes and paradodecatungstates. <i>Journal of Coordination Chemistry</i> , 2010, 63, 26-35.	2.2	7
53	Flexible Dry Hydrogel with Lamella-Like Structure Engineered via Dehydration in Poor Solvent. <i>CCS Chemistry</i> , 2020, 2, 533-543.	7.8	7
54	A new chain-like heteropolytungstate formed by Keggin cluster units: Synthesis and structure of [H <sub>2</sub> bpy] <sub>3</sub> [SiMnW <sub>11</sub> O <sub>39</sub> ]·1.25H <sub>2</sub> O. <i>Chinese Chemical Letters</i> , 2007, 18, 81-84.	9.0	5

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55	Synthesis, crystal structure, and characterization of a new high-dimensional phosphomolybdate architecture built from silver-complex fragments and hexa-connected P2Mo5 clusters. <i>Journal of Coordination Chemistry</i> , 2009, 62, 2283-2289.	2.2	5
56	Synthesis, structures and electrochemical properties of four organic-inorganic hybrid polyoxometalates constructed from polyoxotungstate clusters and transition metal complexes. <i>Transition Metal Chemistry</i> , 2009, 34, 281-288.	1.4	4
57	Three organic-inorganic hybrid complexes based on the Wells-Dawson polyoxoanion. <i>Transition Metal Chemistry</i> , 2011, 36, 201-206.	1.4	4
58	Superhydrophobic Archwires: Bioinspired Superhydrophobic Ni-Ti Archwires with Resistance to Bacterial Adhesion and Nickel Ion Release ( <i>Adv. Mater. Interfaces</i> 7/2019). <i>Advanced Materials Interfaces</i> , 2019, 6, 1970046.	3.7	4
59	Syntheses, crystal structures and electrochemical properties of three organic-inorganic hybrid supramolecular compounds based on copper-complex fragments and different polyoxometalates. <i>Transition Metal Chemistry</i> , 2009, 34, 361-366.	1.4	3
60	Underwater Superoleophobicity: Nacre-Inspired Mineralized Films with High Transparency and Mechanically Robust Underwater Superoleophobicity ( <i>Adv. Mater.</i> 11/2020). <i>Advanced Materials</i> , 2020, 32, 2070084.	21.0	3
61	Nickel-Catcher-Doped Zwitterionic Hydrogel Coating on Nickel-Titanium Alloy Toward Capture and Detection of Nickel Ions. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 698745.	4.1	3
62	Scalable and Robust Bio-inspired Organogel Coating by Spraying Method Towards Dynamic Anti-scaling. <i>Chemical Research in Chinese Universities</i> , 2023, 39, 127-132.	2.6	2
63	Polyoxometalate-based microcrystal arrays patterned on air-grid superwetable surface. <i>Scientific Reports</i> , 2018, 8, 13915.	3.3	1
64	Self-Organization: Topography-Induced Cell Self-Organization from Simple to Complex Aggregates ( <i>Small</i> 15/2019). <i>Small</i> , 2019, 15, 1970080.	10.0	0
65	Flexible Dry Hydrogel with Lamella-Like Structure Engineered via Dehydration in Poor Solvent. <i>CCS Chemistry</i> , 2020, 2, 533-543.	7.8	0