# Yu Chai

List of Publications by Year
in descending order



| 37 | 1,382 | 471371 17 | 345118 36 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 37 | 37 | 37 | 2142 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Reconfigurable ferromagnetic liquid droplets. Science, 2019, 365, 264-267. | 6.0 | 278 |
| 2 | A Direct Quantitative Measure of Surface Mobility in a Glassy Polymer. Science, 2014, 343, 994-999. | 6.0 | 192 |
| 3 | Harnessing liquid-in-liquid printing and micropatterned substrates to fabricate 3-dimensional all-liquid fluidic devices. Nature Communications, 2019, 10, 1095. | 5.8 | 117 |
| 4 | Wafer Scale Synthesis and High Resolution Structural Characterization of Atomically Thin MoS<sub>2</sub> Layers. Advanced Functional Materials, 2014, 24, 7461-7466. | 7.8 | 102 |
| 5 | Fine-Tuning Nanoparticle Packing at Waterâ€“Oil Interfaces Using Ionic Strength. Nano Letters, 2017, 17, 6453-6457. | 4.5 | 97 |
| 6 | 50th Anniversary Perspective: Putting the Squeeze on Polymers: A Perspective on Polymer Thin Films and Interfaces. Macromolecules, 2017, 50, 4597-4609. | 2.2 | 68 |
| 7 | Compartmentalized, All-Aqueous Flow-Through-Coordinated Reaction Systems. CheM, 2019, 5, 2678-2690. | 5.8 | 50 |
| 8 | Direct observation of nanoparticle-surfactant assembly and jamming at the water-oil interface. Science Advances, 2020, 6, . | 4.7 | 44 |
| 9 | The Interfacial Assembly of Polyoxometalate Nanoparticle Surfactants. Nano Letters, 2018, 18, 2525-2529. | 4.5 | 37 |
| 10 | Making oneâ€dimensional electrical contacts to molybdenum disulfideâ€based heterostructures through plasma etching. Physica Status Solidi (A) Applications and Materials Science, 2016, 213, 1358-1364. | 0.8 | 32 |
| 11 | Carboxylated Fullerene at the Oil/Water Interface. ACS Applied Materials & Interfaces, 2017, 9, 34389-34395. | 4.0 | 30 |
| 12 | Stabilizing Liquids Using Interfacial Supramolecular Polymerization. Angewandte Chemie - International Edition, 2019, 58, 12112-12116. | 7.2 | 30 |
| 13 | Mechanical Properties of Solidifying Assemblies of Nanoparticle Surfactants at the Oilâ€“Water Interface. Langmuir, 2019, 35, 13340-13350. | 1.6 | 25 |
| 14 | Molecular weight dependence of near surface dynamical mechanical properties of polymers. Soft Matter, 2013, 9, 8958. | 1.2 | 24 |
| 15 | Guiding kinetic trajectories between jammed and unjammed states in 2D colloidal nanocrystal-polymer assemblies with zwitterionic ligands. Science Advances, 2018, 4, eaap8045. | 4.7 | 24 |
| 16 | Synthesis of Atomically Thin <inline-formula><tex-math>${f MoS}_{f 2}$</tex-math></inline-formula> Triangles and Hexagrams and Their Electrical Transport Properties. IEEE Nanotechnology Magazine, 2014, 13, 749-754. | 1.1 | 21 |
| 17 | Visualizing Interfacial Jamming Using an Aggregationâ€Inducedâ€Emission Molecular Reporter. Angewandte Chemie - International Edition, 2021, 60, 8694-8699. | 7.2 | 20 |
| 18 | Direct measurements of the temperature, depth and processing dependence of phenyl ring dynamics in polystyrene thin films by Î²-detected NMR. Soft Matter, 2018, 14, 7324-7334. | 1.2 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Assessing Pair Interaction Potentials of Nanoparticles on Liquid Interfaces. ACS Nano, 2019, 13, 3075-3082. | 7.3 | 18 |
| 20 | Strain Gated Bilayer Molybdenum Disulfide Field Effect Transistor with Edge Contacts. Scientific Reports, 2017, 7, 41593. | 1.6 | 17 |
| 21 | Ferromagnetic liquid droplets with adjustable magnetic properties. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, . | 3.3 | 14 |
| 22 | Using M<sub>w</sub> Dependence of Surface Dynamics of Glassy Polymers to Probe the Length Scale of Free-Surface Mobility. Macromolecules, 2020, 53, 1084-1089. | 2.2 | 13 |
| 23 | Surfactantâ€Induced Interfacial Aggregation of Porphyrins for Structuring Colorâ€Tunable Liquids. Angewandte Chemie - International Edition, 2021, 60, 2871-2876. | 7.2 | 13 |
| 24 | Recycling plastic waste into multifunctional superhydrophobic textiles. Nano Research, 2022, 15, 9921-9925. | 5.8 | 13 |
| 25 | Shape-Reconfigurable Ferrofluids. Nano Letters, 2022, 22, 5538-5543. | 4.5 | 13 |
| 26 | Van der Waals Exfoliation Processed Biopiezoelectric Submucosa Ultrathin Films. Advanced Materials, 2022, 34, e2200864. | 11.1 | 12 |
| 27 | Stabilizing Liquids Using Interfacial Supramolecular Polymerization. Angewandte Chemie, 2019, 131, 12240-12244. | 1.6 | 11 |
| 28 | The Buckling Spectra of Nanoparticle Surfactant Assemblies. Nano Letters, 2021, 21, 7116-7122. | 4.5 | 11 |
| 29 | Evaporative purification to produce highly monodisperse polymers: Application to polystyrene for<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>n</mml:mi><mml:mo>=</mml:mo><mml:mn>3</mml:mn></mml:mr quantification of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>T</mml:mi><mml:mi>g</mml:mi></mml:msub></mml:ma oligomer to polymer. Physical Review Materials, 2017, 1, . | 3.1 | 8 |
| 30 | Visualizing Assembly Dynamics of Allâ€Liquid 3D Architectures. Small, 2022, 18, e2105017. | 5.2 | 6 |
| 31 | Crystallization of low molecular weight atactic polystyrene. Soft Matter, 2018, 14, 6883-6891. | 1.2 | 5 |
| 32 | Using Atomic Force Microscopy to Probe Crystallization in Atactic Polystyrenes. Macromolecular Chemistry and Physics, 2018, 219, 1700466. | 1.1 | 4 |
| 33 | Surfactantâ€Induced Interfacial Aggregation of Porphyrins for Structuring Coloâ€Tunable Liquids. Angewandte Chemie, 2021, 133, 2907-2912. | 1.6 | 4 |
| 34 | Visualizing Interfacial Jamming Using an Aggregationâ€Inducedâ€Emission Molecular Reporter. Angewandte Chemie, 2021, 133, 8776-8781. | 1.6 | 4 |
| 35 | Measuring the solubility of solids in non-solvents: case of polystyrene in alkanes. European Physical Journal E, 2016, 39, 99. | 0.7 | 3 |
| 36 | Visualizing Assembly Dynamics of Allâ€Liquid 3D Architectures (Small 6/2022). Small, 2022, 18, . | 5.2 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Nanoporous polystyrene prepared via the selective removal of the low Mw component in polystyrene blends. Polymer Journal, 2016, 48, 983-990. | 1.3 | 1 |