# T-Y Dora Tang

List of Publications by Year
in descending order



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|---|---|---|---|
| 37 papers | 2,259 citations | 279487 23 h-index | 360668 35 g-index |
| 43 all docs | 43 docs citations | 43 times ranked | 1873 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fatty acid membrane assembly on coacervate microdroplets as a step towards a hybrid protocell model. Nature Chemistry, 2014, 6, 527-533. | 6.6 | 314 |
| 2 | MaxSynBio: Avenues Towards Creating Cells from the Bottom Up. Angewandte Chemie - International Edition, 2018, 57, 13382-13392. | 7.2 | 234 |
| 3 | Compartmentalised RNA catalysis in membrane-free coacervate protocells. Nature Communications, 2018, 9, 3643. | 5.8 | 225 |
| 4 | In vitro gene expression within membrane-free coacervate protocells. Chemical Communications, 2015, 51, 11429-11432. | 2.2 | 161 |
| 5 | Synthetic cellularity based on non-lipid micro-compartments and protocell models. Current Opinion in Chemical Biology, 2014, 22, 1-11. | 2.8 | 153 |
| 6 | Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie - International Edition, 2020, 59, 5950-5957. | 7.2 | 139 |
| 7 | Gene-Mediated Chemical Communication in Synthetic Protocell Communities. ACS Synthetic Biology, 2018, 7, 339-346. | 1.9 | 136 |
| 8 | Engineering bicontinuous cubic structures at the nanoscaleâ€"the role of chain splay. Soft Matter, 2010, 6, 3191. | 1.2 | 96 |
| 9 | Microfluidic Formation of Membraneâ€Free Aqueous Coacervate Droplets in Water. Angewandte Chemie - International Edition, 2015, 54, 8398-8401. | 7.2 | 73 |
| 10 | Small-molecule uptake in membrane-free peptide/nucleotide protocells. Soft Matter, 2013, 9, 7647. | 1.2 | 62 |
| 11 | Can coacervation unify disparate hypotheses in the origin of cellular life?. Current Opinion in Colloid and Interface Science, 2021, 52, 101415. | 3.4 | 50 |
| 12 | Microfluidic formation of proteinosomes. Chemical Communications, 2018, 54, 287-290. | 2.2 | 46 |
| 13 | Non-equilibrium conditions inside rock pores drive fission, maintenance and selection of coacervate protocells. Nature Chemistry, 2022, 14, 32-39. | 6.6 | 45 |
| 14 | Polynucleotides in cellular mimics: Coacervates and lipid vesicles. Current Opinion in Colloid and Interface Science, 2016, 26, 50-57. | 3.4 | 41 |
| 15 | Charge-density reduction promotes ribozyme activity in RNAâ€"peptide coacervates via RNA fluidization and magnesium partitioning. Nature Chemistry, 2022, 14, 407-416. | 6.6 | 41 |
| 16 | Spontaneous membrane-less multi-compartmentalization <i>via</i> aqueous two-phase separation in complex coacervate micro-droplets. Chemical Communications, 2020, 56, 12717-12720. | 2.2 | 39 |
| 17 | Cell-Free Gene Expression Dynamics in Synthetic Cell Populations. ACS Synthetic Biology, 2022, 11, 205-215. | 1.9 | 38 |
| 18 | Hydrostatic Pressure Effects on the Lamellar to Gyroid Cubic Phase Transition of Monolinolein at Limited Hydration. Langmuir, 2012, 28, 13018-13024. | 1.6 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Microfluidic Tools for Bottom-Up Synthetic Cellularity. CheM, 2019, 5, 1727-1742. | 5.8 | 33 |
| 20 | Highâ€Throughput Synthesis and Screening of Functional Coacervates Using Microfluidics. ChemSystemsChem, 2020, 2, e2000022. | 1.1 | 32 |
| 21 | Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie, 2020, 132, 6006-6013. | 1.6 | 29 |
| 22 | MaxSynBio: Wege zur Synthese einer Zelle aus nicht lebenden Komponenten. Angewandte Chemie, 2018, 130, 13566-13577. | 1.6 | 27 |
| 23 | Directed Growth of Biomimetic Microcompartments. Advanced Biology, 2019, 3, e1800314. | 3.0 | 25 |
| 24 | Enhanced Ribozymeâ€Catalyzed Recombination and Oligonucleotide Assembly in Peptideâ€RNA Condensates. Angewandte Chemie - International Edition, 2021, 60, 26096-26104. | 7.2 | 25 |
| 25 | Toward Engineering Biosystems With Emergent Collective Functions. Frontiers in Bioengineering and Biotechnology, 2020, 8, 705. | 2.0 | 22 |
| 26 | Hydrophobic nanoparticles promote lamellar to inverted hexagonal transition in phospholipid mesophases. Soft Matter, 2015, 11, 8789-8800. | 1.2 | 21 |
| 27 | Controlling Protein Nanocage Assembly with Hydrostatic Pressure. Journal of the American Chemical Society, 2020, 142, 20640-20650. | 6.6 | 17 |
| 28 | Building synthetic multicellular systems using bottomâ€“up approaches. Current Opinion in Systems Biology, 2020, 24, 56-63. | 1.3 | 16 |
| 29 | Characterization of RNA content in individual phase-separated coacervate microdroplets. Nature Communications, 2022, 13, 2626. | 5.8 | 14 |
| 30 | Special Issue on Bottomâ€Up Synthetic Biology. ChemBioChem, 2019, 20, 2533-2534. | 1.3 | 13 |
| 31 | Structural studies of the lamellar to bicontinuous gyroid cubic (QGII) phase transitions under limited hydration conditions. Soft Matter, 2015, 11, 1991-1997. | 1.2 | 10 |
| 32 | The effects of pressure and temperature on the energetics and pivotal surface in a monoacylglycerol/water gyroid inverse bicontinuous cubic phase. Soft Matter, 2014, 10, 3009-3015. | 1.2 | 9 |
| 33 | Enhanced ribozymeâ€catalyzed recombination and oligonucleotide assembly in peptideâ€RNA condensates. Angewandte Chemie, 0, , . | 1.6 | 5 |
| 34 | Quantitative sensing of microviscosity in protocells and amyloid materials using fluorescence lifetime imaging of molecular rotors. , 2014, , . | | 3 |
| 35 | <i>In vitro</i> gene expression and detergent-free reconstitution of active proteorhodopsin in lipid vesicles. Experimental Biology and Medicine, 2019, 244, 314-322. | 1.1 | 3 |
| 36 | Frontispiz: Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie, 2020, 132, . | 1.6 | 1 |

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| 37 | Frontispiece: Reversible pHâ€Responsive Coacervate Formation in Lipid Vesicles Activates Dormant Enzymatic Reactions. Angewandte Chemie - International Edition, 2020, 59, . | 7.2 | 0 |