

Yusong Tu

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

2,297
citations

430874

18
h-index

330143

37
g-index

38
all docs

38
docs citations

38
times ranked

3663
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Destructive extraction of phospholipids from Escherichia coli membranes by graphene nanosheets. Nature Nanotechnology, 2013, 8, 594-601. | 31.5 | 1,260 |
| 2 | Ion Enrichment on the Hydrophobic Carbon-based Surface in Aqueous Salt Solutions due to Cation- π Interactions. Scientific Reports, 2013, 3, 3436. | 3.3 | 121 |
| 3 | Water-mediated signal multiplication with Y-shaped carbon nanotubes. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18120-18124. | 7.1 | 120 |
| 4 | High Correlation between Oxidation Loci on Graphene Oxide. Angewandte Chemie - International Edition, 2014, 53, 10190-10194. | 13.8 | 86 |
| 5 | Friction Reduction at a Superhydrophilic Surface: Role of Ordered Water. Journal of Physical Chemistry C, 2015, 119, 11679-11684. | 3.1 | 66 |
| 6 | Manipulating Biomolecules with Aqueous Liquids Confined within Single-Walled Nanotubes. Journal of the American Chemical Society, 2009, 131, 2840-2845. | 13.7 | 64 |
| 7 | Critical Dipole Length for the Wetting Transition Due to Collective Water-dipoles Interactions. Scientific Reports, 2012, 2, 358. | 3.3 | 64 |
| 8 | Remarkable Antibacterial Activity of Reduced Graphene Oxide Functionalized by Copper Ions. Advanced Functional Materials, 2021, 31, 2008018. | 14.9 | 60 |
| 9 | Dynamic Cooperation of Hydrogen Binding and π Stacking in ssDNA Adsorption on Graphene Oxide. Chemistry - A European Journal, 2017, 23, 13100-13104. | 3.3 | 55 |
| 10 | Emerging Two-Dimensional Tellurene and Tellurides for Broadband Photodetectors. Small, 2022, 18, e2200016. | 10.0 | 43 |
| 11 | Water-COOH Composite Structure with Enhanced Hydrophobicity Formed by Water Molecules Embedded into Carboxyl-Terminated Self-Assembled Monolayers. Physical Review Letters, 2015, 115, 186101. | 7.8 | 40 |
| 12 | Alcohol-induced drying of carbon nanotubes and its implications for alcohol/water separation: A molecular dynamics study. Journal of Chemical Physics, 2013, 138, 204711. | 3.0 | 39 |
| 13 | Modeling the rupture of a capillary liquid bridge between a sphere and plane. Soft Matter, 2010, 6, 6178. | 2.7 | 33 |
| 14 | Signal transmission, conversion and multiplication by polar molecules confined in nanochannels. Nanoscale, 2010, 2, 1976. | 5.6 | 33 |
| 15 | Tumor Cell-Specific Nuclear Targeting of Functionalized Graphene Quantum Dots <i>In Vivo</i> . Bioconjugate Chemistry, 2017, 28, 2608-2619. | 3.6 | 29 |
| 16 | Reversible State Transition in Nanoconfined Aqueous Solutions. Physical Review Letters, 2014, 112, 078301. | 7.8 | 23 |
| 17 | High Correlation between Oxidation Loci on Graphene Oxide. Angewandte Chemie, 2014, 126, 10354-10358. | 2.0 | 21 |
| 18 | Molecular wire of urea in carbon nanotube: a molecular dynamics study. Nanoscale, 2012, 4, 652-658. | 5.6 | 20 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Water-Mediated Spontaneously Dynamic Oxygen Migration on Graphene Oxide with Structural Adaptivity for Biomolecule Adsorption*. Chinese Physics Letters, 2020, 37, 066803. | 3.3 | 16 |
| 20 | Anomalies of liquid water at low temperature due to two types of hydrogen bonds. Physical Review E, 2009, 79, 016707. | 2.1 | 13 |
| 21 | Capability of charge signal conversion and transmission by water chains confined inside Y-shaped carbon nanotubes. Journal of Chemical Physics, 2013, 138, 015104. | 3.0 | 11 |
| 22 | Unexpected large impact of small charges on surface frictions with similar wetting properties. Communications Chemistry, 2020, 3, . | 4.5 | 11 |
| 23 | Self-Assembled Micellar Structures of Lipopeptides with Variable Number of Attached Lipid Chains Revealed by Atomistic Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2018, 122, 9605-9615. | 2.6 | 8 |
| 24 | Ambient conditions disordered-ordered phase transition of two-dimensional interfacial water molecules dependent on charge dipole moment. Physical Review Materials, 2019, 3, . | 2.4 | 8 |
| 25 | Asymmetrical free diffusion with orientation-dependence of molecules in finite timescales. Science China: Physics, Mechanics and Astronomy, 2013, 56, 1047-1052. | 5.1 | 7 |
| 26 | Charge-signal multiplication mediated by urea wires inside Y-shaped carbon nanotubes. Journal of Chemical Physics, 2014, 141, 044707. | 3.0 | 7 |
| 27 | Unexpected spontaneous dynamic oxygen migration on carbon nanotubes. Nanoscale, 2021, 13, 15231-15237. | 5.6 | 6 |
| 28 | Unexpected hydrophobicity on self-assembled monolayers terminated with two hydrophilic hydroxyl groups. Nanoscale, 2021, 13, 19604-19609. | 5.6 | 6 |
| 29 | Defect-Induced Wetting Behavior on Solid Polar Surfaces with Small Charge Dipole Length. Journal of Physical Chemistry C, 2017, 121, 17365-17370. | 3.1 | 5 |
| 30 | Remarkably enhanced dynamic oxygen migration on graphene oxide supported by copper substrate. Nanoscale Horizons, 2022, 7, 1082-1086. | 8.0 | 5 |
| 31 | A new association state of solutes in nanoconfined aqueous solutions. Science China: Physics, Mechanics and Astronomy, 2016, 59, 1. | 5.1 | 4 |
| 32 | First-principles study of benzene and its homologues upon graphene-metal surfaces: Comparison of London dispersion corrections. Surface Science, 2021, 714, 121919. | 1.9 | 4 |
| 33 | Effects of salt on solute association behavior in nanoconfined aqueous solutions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2019, 383, 40-46. | 2.1 | 3 |
| 34 | Selectivity mechanism of magnesium and calcium in cation-binding pocket structures of phosphotyrosine. Physical Review E, 2020, 101, 022410. | 2.1 | 2 |
| 35 | Association of Lennard-Jones particles in nanoconfined aqueous solution: Theory and molecular dynamics simulations. Physica A: Statistical Mechanics and Its Applications, 2021, 563, 125414. | 2.6 | 2 |
| 36 | Asymmetric nanoparticle may go "active" at room temperature. Science China: Physics, Mechanics and Astronomy, 2017, 60, 1. | 5.1 | 1 |

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|----|---|-----|-----------|
| 37 | Thermodynamic analysis of nucleation of alcohol molecules with the varied alkyl chain length in nanoconfined solution. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2022, , 127733. | 2.6 | 1 |
| 38 | Inside Cover: Size Dependence of Nanoscale Confinement on Chiral Transformation (<i>Chem. Eur. J.</i>) | 3.3 | 10 |