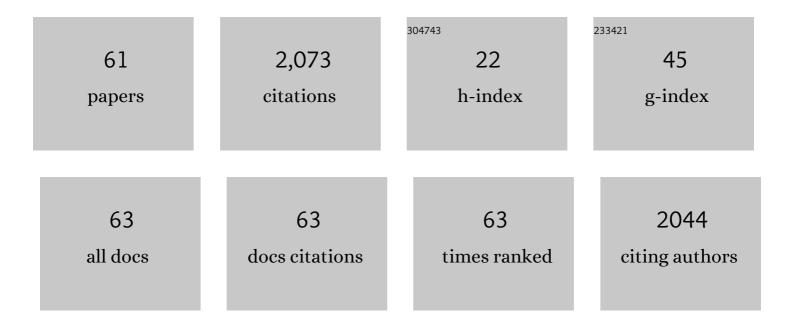
Hideki Tanaka

List of Publications by Year in descending order

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ΗΙΠΕΚΙ ΤΛΝΛΚΛ

| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Novel Expansion/Shrinkage Modulation of 2D Layered MOF Triggered by Clathrate Formation with CO2Molecules. Nano Letters, 2006, 6, 2581-2584. | 9.1 | 254 |
| 2 | Quantum Effects on Hydrogen Isotope Adsorption on Single-Wall Carbon Nanohorns. Journal of the American Chemical Society, 2005, 127, 7511-7516. | 13.7 | 189 |
| 3 | Elastic layer-structured metal organic frameworks (ELMs). Journal of Colloid and Interface Science, 2009, 334, 1-7. | 9.4 | 104 |
| 4 | Storage of Hydrogen at 303 K in Graphite Slitlike Pores from Grand Canonical Monte Carlo Simulation. Journal of Physical Chemistry B, 2005, 109, 17174-17183. | 2.6 | 101 |
| 5 | High-throughput gas separation by flexible metal–organic frameworks with fast gating and thermal management capabilities. Nature Communications, 2020, 11, 3867. | 12.8 | 99 |
| 6 | Confinement in Carbon Nanospace-Induced Production of KI Nanocrystals of High-Pressure Phase. Journal of the American Chemical Society, 2011, 133, 10344-10347. | 13.7 | 86 |
| 7 | Adsorption-Induced Structural Transition of ZIF-8: A Combined Experimental and Simulation Study. Journal of Physical Chemistry C, 2014, 118, 8445-8454. | 3.1 | 84 |
| 8 | Grand Canonical Monte Carlo Simulation Study of Methane Adsorption at an Open Graphite Surface and in Slitlike Carbon Pores at 273 K. Langmuir, 2005, 21, 5639-5646. | 3.5 | 83 |
| 9 | Quantum Effects on Hydrogen Adsorption in Internal Nanospaces of Single-Wall Carbon Nanohorns. Journal of Physical Chemistry B, 2004, 108, 17457-17465. | 2.6 | 75 |
| 10 | Synthesis of zeolitic imidazolate framework-8 particles of controlled sizes, shapes, and gate adsorption characteristics using a central collision-type microreactor. Chemical Engineering Journal, 2017, 313, 724-733. | 12.7 | 72 |
| 11 | Graphene-based ordered framework with a diverse range of carbon polygons formed in zeolite nanochannels. Carbon, 2018, 129, 854-862. | 10.3 | 70 |
| 12 | Intrinsic Thermal Management Capabilities of Flexible Metal–Organic Frameworks for Carbon Dioxide Separation and Capture. ACS Applied Materials & Interfaces, 2017, 9, 41066-41077. | 8.0 | 61 |
| 13 | Free energy analysis for adsorption-induced lattice transition of flexible coordination framework. Journal of Chemical Physics, 2009, 130, 164707. | 3.0 | 57 |
| 14 | Force-driven reversible liquid–gas phase transition mediated by elastic nanosponges. Nature Communications, 2019, 10, 2559. | 12.8 | 46 |
| 15 | Simulation study for adsorption-induced structural transition in stacked-layer porous coordination polymers: Equilibrium and hysteretic adsorption behaviors. Journal of Chemical Physics, 2013, 138, 054708. | 3.0 | 45 |
| 16 | Understanding gate adsorption behaviour of CO ₂ on elastic layer-structured metal–organic framework-11. Dalton Transactions, 2016, 45, 4193-4202. | 3.3 | 43 |
| 17 | Modeling and Visualization of CO ₂ Adsorption on Elastic Layer-Structured Metal–Organic Framework-11: Toward a Better Understanding of Gate Adsorption Behavior. Journal of Physical Chemistry C, 2015, 119, 11533-11543. | 3.1 | 41 |
| 18 | Quantum Effects on Hydrogen Isotopes Adsorption inÂNanopores. Journal of Low Temperature Physics, 2009, 157, 352-373. | 1.4 | 38 |

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|----|--|------|-----------|
| 19 | Anomaly of CH ₄ Molecular Assembly Confined in Single-Wall Carbon Nanohorn Spaces. Journal of the American Chemical Society, 2011, 133, 2022-2024. | 13.7 | 33 |
| 20 | Quantum Molecular Sieving Effects of H ₂ and D ₂ on Bundled and Nonbundled Single-Walled Carbon Nanotubes. Journal of Physical Chemistry C, 2012, 116, 20918-20922. | 3.1 | 31 |
| 21 | Reversible Pore Size Control of Elastic Microporous Material by Mechanical Force. Chemistry - A European Journal, 2013, 19, 13009-13016. | 3.3 | 23 |
| 22 | Fluids in nanospaces: molecular simulation studies to find out key mechanisms for engineering. Adsorption, 2014, 20, 213-223. | 3.0 | 23 |
| 23 | Selective molecular-gating adsorption in a novel copper-based metal–organic framework. Journal of Materials Chemistry A, 2018, 6, 5910-5918. | 10.3 | 23 |
| 24 | Structural mechanism of reactivation with steam of pitch-based activated carbon fibers. Journal of Colloid and Interface Science, 2020, 578, 422-430. | 9.4 | 22 |
| 25 | Ultrapermeable 2D-channeled graphene-wrapped zeolite molecular sieving membranes for hydrogen separation. Science Advances, 2022, 8, eabl3521. | 10.3 | 21 |
| 26 | Mechanism of Kinetically Controlled Capillary Condensation in Nanopores: A Combined Experimental and Monte Carlo Approach. ACS Nano, 2017, 11, 269-276. | 14.6 | 20 |
| 27 | Fast continuous measurement of synchrotron powder diffraction synchronized with controlling gas and vapour pressures at beamline BL02B2 ofÂSPring-8. Journal of Synchrotron Radiation, 2020, 27, 616-624. | 2.4 | 20 |
| 28 | Dependence of adsorption-induced structural transition on framework structure of porous coordination polymers. Journal of Chemical Physics, 2014, 140, 044707. | 3.0 | 19 |
| 29 | Capillary condensation in mesoporous silica with surface roughness. Adsorption, 2013, 19, 631-641. | 3.0 | 18 |
| 30 | Adsorption separation of heavier isotope gases in subnanometer carbon pores. Nature Communications, 2021, 12, 546. | 12.8 | 18 |
| 31 | A flexible two-dimensional layered metal–organic framework functionalized with (trifluoromethyl)trifluoroborate: synthesis, crystal structure, and adsorption/separation properties. Dalton Transactions, 2020, 49, 3692-3699. | 3.3 | 17 |
| 32 | High-density monolithic pellets of double-sided graphene fragments based on zeolite-templated carbon. Journal of Materials Chemistry A, 2021, 9, 7503-7507. | 10.3 | 17 |
| 33 | New approach to determination of surface heterogeneity of adsorbents and catalysts from the temperature programmed desorption (TPD) technique: One step beyond the condensation approximation (CA) method. Journal of Colloid and Interface Science, 2005, 291, 334-344. | 9.4 | 16 |
| 34 | Structural adsorption mechanism of chloroform in narrow micropores of pitch-based activated carbon fibres. Carbon, 2021, 171, 681-688. | 10.3 | 16 |
| 35 | Critical energy barrier for capillary condensation in mesopores: Hysteresis and reversibility. Journal of Chemical Physics, 2016, 144, 164705. | 3.0 | 15 |
| 36 | Free energy calculations for adsorption-induced deformation of flexible metal–organic frameworks. Current Opinion in Chemical Engineering, 2019, 24, 19-25. | 7.8 | 15 |

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|----|--|------|-----------|
| 37 | The subtracting pore effect method for an accurate and reliable surface area determination of porous carbons. Carbon, 2021, 175, 77-86. | 10.3 | 15 |
| 38 | Comprehensive Modeling of Capillary Condensation in Open-Ended Nanopores: Equilibrium, Metastability, and Spinodal. Journal of Physical Chemistry C, 2017, 121, 26877-26886. | 3.1 | 13 |
| 39 | Highly Crystalline Ni–Co Layered Double Hydroxide Fabricated via Topochemical Transformation with a High Adsorption Capacity for Nitrate Ions. Inorganic Chemistry, 2019, 58, 15710-15719. | 4.0 | 13 |
| 40 | Determination of phase equilibria in confined systems by open pore cell Monte Carlo method. Journal of Chemical Physics, 2013, 138, 084709. | 3.0 | 12 |
| 41 | Free Energy Analysis for Adsorption-Induced Structural Transition of Colloidal Zeolitic Imidazolate Framework-8 Particles. Journal of Physical Chemistry C, 2017, 121, 20366-20374. | 3.1 | 12 |
| 42 | In silico synthesis of carbon molecular sieves for high-performance air separation. Carbon, 2019, 141, 626-634. | 10.3 | 11 |
| 43 | The Long and Bright Path of a Lanthanide MOF: From Basics towards the Application. Chemistry - A European Journal, 2021, 27, 7376-7382. | 3.3 | 10 |
| 44 | Slacking of Gate Adsorption Behavior on Metal–Organic Frameworks under an External Force. ACS Applied Materials & Interfaces, 2021, 13, 30213-30223. | 8.0 | 10 |
| 45 | CHF ₃ –CHClF ₂ Binary Competitive Adsorption Equilibria in Graphitic Slit Pores: Monte Carlo Simulations and Breakthrough Curve Experiments. Industrial & Engineering Chemistry Research, 2018, 57, 6440-6450. | 3.7 | 8 |
| 46 | Efficiency of Thermal Management Using Phase-Change Material for Nonisothermal Adsorption Process. Industrial & Engineering Chemistry Research, 2020, 59, 14485-14495. | 3.7 | 8 |
| 47 | Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. Angewandte Chemie - International Edition, 2021, 60, 20504-20510. | 13.8 | 8 |
| 48 | Hydrogen Isotope Separation in Carbon Nanopores. Journal of Chemical Engineering of Japan, 2011, 44, 355-363. | 0.6 | 6 |
| 49 | Potential theory for gate adsorption on soft porous crystals. Molecular Simulation, 2015, 41, 1329-1338. | 2.0 | 6 |
| 50 | High-Performance Carbon Molecular Sieves for the Separation of Propylene and Propane. ACS Applied Materials & Interfaces, 2022, 14, 17878-17888. | 8.0 | 5 |
| 51 | Low-temperature hydrogen-graphite system revisited: Experimental study and Monte Carlo simulation. Journal of Chemical Physics, 2019, 151, 024704. | 3.0 | 4 |
| 52 | Highly oxidation-resistant graphene-based porous carbon as a metal catalyst support. Carbon Trends, 2021, 3, 100029. | 3.0 | 4 |
| 53 | Synthesis of zeolite-templated carbons for methane storage: A molecular simulation study. Tanso, 2018, 2018, 197-203. | 0.1 | 4 |
| 54 | Central metal dependent modulation of induced-fit gas uptake in molecular porphyrin solids. Chemical Communications, 2018, 54, 7822-7825. | 4.1 | 2 |

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|----|---|-----|-----------|
| 55 | What is the Smallest Atom as a Probe for Characterizing Nanostructures?. Journal of Physical Chemistry C, 2018, 122, 15446-15455. | 3.1 | 2 |
| 56 | Diffusion phenomena of propane and propylene in colloidal zeolitic imidazolate Framework-8 particles. Journal of the Taiwan Institute of Chemical Engineers, 2018, 90, 79-84. | 5.3 | 1 |
| 57 | CO2 Storage on Metal-Organic Frameworks. Green Energy and Technology, 2019, , 331-358. | 0.6 | 1 |
| 58 | Physicochemical Understanding of the Impact of Pore Environment and Species of Adsorbates on Adsorption Behaviour. Angewandte Chemie, 2021, 133, 20667-20673. | 2.0 | 1 |
| 59 | Enhancement in the Charge-Transfer Kinetics of Pseudocapacitive Iridium-Doped Layered Manganese Oxide. Inorganic Chemistry, 2022, 61, 4566-4571. | 4.0 | 1 |
| 60 | Liquid exfoliation of five-coordinate layered titanate K ₂ Ti ₂ O ₅ single crystals in water. CrystEngComm, 2022, 24, 5112-5119. | 2.6 | 1 |
| 61 | Apatite–Graphene Interface Channel-Aided Rapid and Selective H ₂ Permeation. Journal of Physical Chemistry C, 2022, 126, 3653-3660. | 3.1 | 0 |