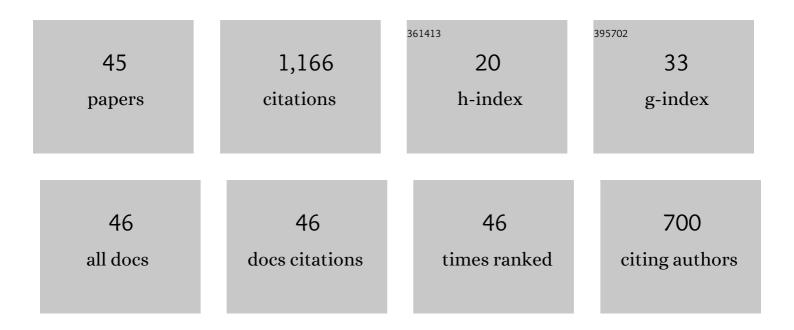
## **Chieh-Ming Hsieh**

List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Prediction of solid solute solubility in supercritical carbon dioxide from PSRK EOS with only input of molecular structure. Journal of Supercritical Fluids, 2022, 180, 105446.                           | 3.2 | 8         |
| 2  | Unveiling the mechanism of CO2-driven phase change in amineÂ+ÂwaterÂ+Âglycol ether ternary mixture.<br>Journal of the Taiwan Institute of Chemical Engineers, 2022, 131, 104143.                          | 5.3 | 2         |
| 3  | First principles calculations on lithium diffusion near the surface and in the bulk of Fe-doped<br>LiCoPO <sub>4</sub> . Physical Chemistry Chemical Physics, 2022, 24, 1147-1155.                        | 2.8 | 5         |
| 4  | Measurement and modeling of metoclopramide hydrochloride (anti-emetic drug) solubility in supercritical carbon dioxide. Arabian Journal of Chemistry, 2022, 15, 103876.                                   | 4.9 | 23        |
| 5  | Phase equilibrium modeling of mixtures containing conformationally flexible molecules with the COSMO-SAC model. Journal of Molecular Liquids, 2022, 356, 118896.  | 4.9 | 4         |
| 6  | Modeling of phase separation solvent for CO2 capture using COSMO-SAC model. Journal of the Taiwan<br>Institute of Chemical Engineers, 2022, 135, 104362.  | 5.3 | 3         |
| 7  | Particle Size and Crystal Habit Modification of Active Pharmaceutical Ingredient Using Cooling<br>Sonocrystallization: A Case Study of Probenecid. Crystal Research and Technology, 2021, 56, 2000182.    | 1.3 | 3         |
| 8  | Computational study on the effect of steric hindrance in functionalised Zr-based metal-organic frameworks on hydrocarbon storage and separation. Molecular Simulation, 2021, 47, 565-574.                 | 2.0 | 5         |
| 9  | Hydrogenated Anatase and Rutile TiO <sub>2</sub> for Sodium-Ion Battery Anodes. ACS Applied Energy<br>Materials, 2021, 4, 5738-5746.  | 5.1 | 22        |
| 10 | Investigating lithium intercalation and diffusion in Nb-doped TiO2 by first principles calculations.<br>Journal of the Taiwan Institute of Chemical Engineers, 2021, 125, 314-322.                        | 5.3 | 11        |
| 11 | Towards design of phase separation solvent for CO2 capture using COSMO-SAC model. Journal of<br>Molecular Liquids, 2021, 336, 116229.   | 4.9 | 6         |
| 12 | Measurement and modeling of solubility of gliclazide (hypoglycemic drug) and captopril<br>(antihypertension drug) in supercritical carbon dioxide. Journal of Supercritical Fluids, 2021, 174,<br>105244. | 3.2 | 32        |
| 13 | Preparation of Microcellular Foams by Supercritical Carbon Dioxide: A Case Study of Thermoplastic<br>Polyurethane 70A. Processes, 2021, 9, 1650.  | 2.8 | 2         |
| 14 | Measurement and Correlation of Solubility of Methylsalicylic Acid Isomers in Supercritical Carbon<br>Dioxide. Journal of Chemical & Engineering Data, 2021, 66, 280-289.                                  | 1.9 | 6         |
| 15 | Prediction of solid solute solubility in supercritical carbon dioxide with and without organic cosolvents from PSRK EOS. Journal of Supercritical Fluids, 2020, 158, 104735.                              | 3.2 | 11        |
| 16 | First-principles prediction of solid solute solubility in supercritical carbon dioxide using PR+COSMOSAC EOS. Fluid Phase Equilibria, 2020, 522, 112755.  | 2.5 | 17        |
| 17 | A Benchmark Open-Source Implementation of COSMO-SAC. Journal of Chemical Theory and<br>Computation, 2020, 16, 2635-2646.  | 5.3 | 74        |
| 18 | Improvement to PR+COSMOSAC EOS for Predicting the Vapor Pressure of Nonelectrolyte Organic<br>Solids and Liquids. Industrial & Engineering Chemistry Research, 2019, 58, 5030-5040.                       | 3.7 | 20        |

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|----|---|-----|-----------|
| 19 | SkaSim – Scalable HPC Software for Molecular Simulation in the Chemical Industry.<br>Chemie-Ingenieur-Technik, 2018, 90, 295-306.   | 0.8 | 7         |
| 20 | Prediction of solid-liquid-gas equilibrium for binary mixtures of carbon dioxide + organic compounds from approaches based on the COSMO-SAC model. Journal of Supercritical Fluids, 2018, 133, 318-329.   | 3.2 | 9         |
| 21 | Prediction of Gas and Liquid Solubility in Organic Polymers Based on the PR+COSMOSAC Equation of State. Industrial & Engineering Chemistry Research, 2018, 57, 10628-10639.   | 3.7 | 6         |
| 22 | First-Principles Study of Lithium Intercalation and Diffusion in Oxygen-Defective Titanium Dioxide.<br>Journal of Physical Chemistry C, 2018, 122, 19447-19454.   | 3.1 | 30        |
| 23 | Understanding the Differing Fluid Phase Behavior of Cyclohexane + Benzene and Their Hydroxylated or Aminated Forms. Journal of Physical Chemistry B, 2017, 121, 5374-5384.  | 2.6 | 5         |
| 24 | Comprehensive Assessment of COSMO-SAC Models for Predictions of Fluid-Phase Equilibria. Industrial<br>& Engineering Chemistry Research, 2017, 56, 9868-9884.  | 3.7 | 56        |
| 25 | Prediction of solid solute solubility in supercritical carbon dioxide with organic cosolvents from the PR+COSMOSAC equation of state. Fluid Phase Equilibria, 2017, 431, 48-57.   | 2.5 | 23        |
| 26 | A Critical Evaluation on the Performance of COSMO-SAC Models for Vapor–Liquid and Liquid–Liquid<br>Equilibrium Predictions Based on Different Quantum Chemical Calculations. Industrial &<br>Engineering Chemistry Research, 2016, 55, 9312-9322. | 3.7 | 53        |
| 27 | Vapor–liquid equilibrium measurements of the binary mixtures CO2+acetone and CO2+pentanones.<br>Journal of Supercritical Fluids, 2015, 100, 160-166.  | 3.2 | 23        |
| 28 | Improved Prediction of Vapor Pressure for Pure Liquids and Solids from the PR+COSMOSAC Equation of State. Industrial & Engineering Chemistry Research, 2015, 54, 10115-10125.   | 3.7 | 18        |
| 29 | Considering the dispersive interactions in the COSMO-SAC model for more accurate predictions of fluid phase behavior. Fluid Phase Equilibria, 2014, 367, 109-116.   | 2.5 | 54        |
| 30 | Vapor–Liquid Equilibria of CO <sub>2</sub> + C1–C5 Alcohols from the Experiment and the COSMO-SAC Model. Journal of Chemical & Engineering Data, 2013, 58, 3420-3429.   | 1.9 | 20        |
| 31 | Fluidâ€phase coexistence for the oxidation of <scp>CO</scp> <sub>2</sub> expanded cyclohexane:<br>Experiment, molecular simulation, and <scp>COSMO</scp> â€ <scp>SAC</scp> . AICHE Journal, 2013, 59,<br>2236-2250.                               | 3.6 | 9         |
| 32 | Rapid determination of entropy and free energy of mixtures from molecular dynamics simulations with the two-phase thermodynamic model. Physical Chemistry Chemical Physics, 2012, 14, 15206.  | 2.8 | 35        |
| 33 | Firstâ€principles prediction of phase equilibria using the PR + COSMOSAC equation of state. Asia-Pacific<br>Journal of Chemical Engineering, 2012, 7, S1.   | 1.5 | 11        |
| 34 | A Predictive Model for the Solubility and Octanolâ^'Water Partition Coefficient of Pharmaceuticals.<br>Journal of Chemical & Engineering Data, 2011, 56, 936-945.   | 1.9 | 44        |
| 35 | First-Principles Prediction of Vaporâ^'Liquidâ^'Liquid Equilibrium from the PR+COSMOSAC Equation of<br>State. Industrial & Engineering Chemistry Research, 2011, 50, 1496-1503.   | 3.7 | 15        |
| 36 | Prediction of miscibility gaps in water/ether mixtures using COSMO-SAC model. Fluid Phase Equilibria, 2011, 310, 19-24.   | 2.5 | 26        |

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|----|---|-----|-----------|
| 37 | Prediction of liquid–liquid equilibrium from the Peng–Robinson+COSMOSAC equation of state.<br>Chemical Engineering Science, 2010, 65, 1955-1963.  | 3.8 | 34        |
| 38 | Improvements of COSMO-SAC for vapor–liquid and liquid–liquid equilibrium predictions. Fluid Phase<br>Equilibria, 2010, 297, 90-97.  | 2.5 | 249       |
| 39 | Towards the development of theoretically correct liquid activity coefficient models. Journal of Chemical Thermodynamics, 2009, 41, 1145-1153.   | 2.0 | 17        |
| 40 | Reply to "Comment on "Towards the development of theoretically correct liquid activity coefficient<br>modelsâ€â€• Journal of Chemical Thermodynamics, 2009, 41, 1314-1316.  | 2.0 | 1         |
| 41 | Prediction of 1-octanol–water partition coefficient and infinite dilution activity coefficient in water from the PR+COSMOSAC model. Fluid Phase Equilibria, 2009, 285, 8-14.  | 2.5 | 27        |
| 42 | First-Principles Predictions of Vaporâ^'Liquid Equilibria for Pure and Mixture Fluids from the Combined<br>Use of Cubic Equations of State and Solvation Calculations. Industrial & Engineering Chemistry<br>Research, 2009, 48, 3197-3205. | 3.7 | 46        |
| 43 | Determination of cubic equation of state parameters for pure fluids from first principle solvation calculations. AICHE Journal, 2008, 54, 2174-2181.  | 3.6 | 39        |
| 44 | Solvation and chemical engineering thermodynamics. Journal of the Taiwan Institute of Chemical Engineers, 2007, 38, 467-476.  | 1.4 | 27        |
| 45 | Efficient and accurate solvation energy calculation from polarizable continuum models. Journal of Chemical Physics, 2006, 125, 124103.  | 3.0 | 23        |