

# Tae Jun Yoon

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

34  
papers

361  
citations

11  
h-index

18  
g-index

37  
ext. papers

454  
ext. citations

4.9  
avg, IF

3.89  
L-index

#	Paper	IF	Citations
34	An in-situ conductometric apparatus for physicochemical characterization of solutions and in-line monitoring of separation processes at elevated temperatures and pressures. <i>Measurement Science and Technology</i> , <b>2022</b> , 33, 055502	2	2
33	Elucidating the temperature and density dependence of silver chloride hydration numbers in high-temperature water vapor: A first-principles molecular simulation study. <i>Chemical Geology</i> , <b>2022</b> , 120766	4.2	0
32	A novel approach for produced water treatment: Supercritical water oxidation and desalination. <i>Desalination</i> , <b>2022</b> , 532, 115716	10.3	3
31	Optimal design of multi-stage vacuum membrane distillation and integration with supercritical water desalination for improved zero liquid discharge desalination. <i>Journal of Cleaner Production</i> , <b>2022</b> , 132189	10.3	2
30	Selective recovery of critical materials in zero-liquid discharge supercritical water desalination. <i>Desalination</i> , <b>2022</b> , 537, 115849	10.3	1
29	Calculation of self-diffusion coefficients in supercritical carbon dioxide using mean force kinetic theory. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 134101	3.9	0
28	First-Principles Simulations of CuCl in High-Temperature Water Vapor. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 4794-4807	3.4	1
27	Energy efficient supercritical water desalination using a high-temperature heat pump: A zero liquid discharge desalination. <i>Desalination</i> , <b>2021</b> , 506, 115020	10.3	9
26	NaCl aggregation in water at elevated temperatures and pressures: Comparison of classical force fields. <i>Journal of Chemical Physics</i> , <b>2021</b> , 154, 064503	3.9	6
25	Can capacitive deionization outperform reverse osmosis for brackish water desalination?. <i>Cleaner Engineering and Technology</i> , <b>2021</b> , 3, 100102	2.7	1
24	Dielectric relaxation of neodymium chloride in water and in methanol. <i>Journal of Molecular Liquids</i> , <b>2020</b> , 308, 112981	6	3
23	Thermodynamics, dynamics, and structure of supercritical water at extreme conditions. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 16051-16062	3.6	6
22	Universality, Scaling, and Collapse in Supercritical Fluids. <i>Journal of Physical Chemistry Letters</i> , <b>2020</b> , 11, 451-455	6.4	9
21	A novel sample preparation method on CeO <sub>2</sub> nanoparticles with TEM grid embedded liquid CO <sub>2</sub> displacement and supercritical CO <sub>2</sub> drying for microscopic analysis. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 152, 104559	4.2	2
20	Precipitation of VEGF from mesenchymal stem cell culture supernatant using the PCA process. <i>Journal of Supercritical Fluids</i> , <b>2019</b> , 151, 40-48	4.2	4
19	Topological generalization of the rigid-nonrigid transition in soft-sphere and hard-sphere fluids. <i>Physical Review E</i> , <b>2019</b> , 99, 052603	2.4	8
18	A corresponding-state framework for the structural transition of supercritical fluids across the Widom delta. <i>Journal of Chemical Physics</i> , <b>2019</b> , 150, 154503	3.9	9

17	Topological extension of the isomorph theory based on the Shannon entropy. <i>Physical Review E</i> , <b>2019</b> , 100, 012118	2.4	12
16	Electrical conductivity, ion pairing, and ion self-diffusion in aqueous NaCl solutions at elevated temperatures and pressures. <i>Journal of Chemical Physics</i> , <b>2019</b> , 151, 224504	3.9	13
15	Widom Delta of Supercritical Gas-Liquid Coexistence. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 173461738	4.7	29
14	Fabrication and Characterization of Multiscale PLA Structures Using Integrated Rapid Prototyping and Gas Foaming Technologies. <i>Nanomaterials</i> , <b>2018</b> , 8,	5.4	7
13	"Two-Phase" Thermodynamics of the Frenkel Line. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 4550-4554	4.5	11
12	Current theoretical opinions and perspectives on the fundamental description of supercritical fluids. <i>Journal of Supercritical Fluids</i> , <b>2018</b> , 134, 21-27	4.2	18
11	Topological Characterization of Rigid-Nonrigid Transition across the Frenkel Line. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 6524-6528	6.4	12
10	Acid-catalyzed regeneration of fatty-acid-adsorbed $\gamma$ -alumina via transesterification with methanol. <i>Korean Journal of Chemical Engineering</i> , <b>2018</b> , 35, 1994-2000	2.8	2
9	Probabilistic characterization of the Widom delta in supercritical region. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 014502	3.9	10
8	Preparation of solid-state micro- and nanocellular acrylonitrile-butadiene-styrene (ABS) foams using sub- and supercritical CO <sub>2</sub> as blowing agents. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 124, 30-37	4.2	11
7	Coprecipitation of hydrochlorothiazide/PVP for the dissolution rate improvement by precipitation with compressed fluid antisolvent process. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 126, 37-46	4.2	10
6	Molecular dynamics simulation on the local density distribution and solvation structure of supercritical CO <sub>2</sub> around naphthalene. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 130, 364-372	4.2	11
5	Monte Carlo simulations on the local density inhomogeneities of sub- and supercritical carbon dioxide: Statistical analysis based on the Voronoi tessellation. <i>Journal of Supercritical Fluids</i> , <b>2017</b> , 119, 36-43	4.2	15
4	Tetracycline nanoparticles precipitation using supercritical and liquid CO <sub>2</sub> as antisolvents. <i>Journal of Supercritical Fluids</i> , <b>2016</b> , 107, 51-60	4.2	25
3	One pot synthesis of environmentally friendly lignin nanoparticles with compressed liquid carbon dioxide as an antisolvent. <i>Green Chemistry</i> , <b>2016</b> , 18, 2129-2146	10	101
2	Dimensionless Entropy of Fusion as a Simple Criterion To Predict Agglomeration in the Supercritical Antisolvent Process. <i>Crystal Growth and Design</i> , <b>2013</b> , 13, 3481-3489	3.5	7
1	Electrical Conductivities and Association Constants in Dilute Aqueous NdCl <sub>3</sub> Solutions from 298 to 523 K along an Isobar of 25 MPa. <i>Journal of Chemical &amp; Engineering Data</i> ,	2.8	1