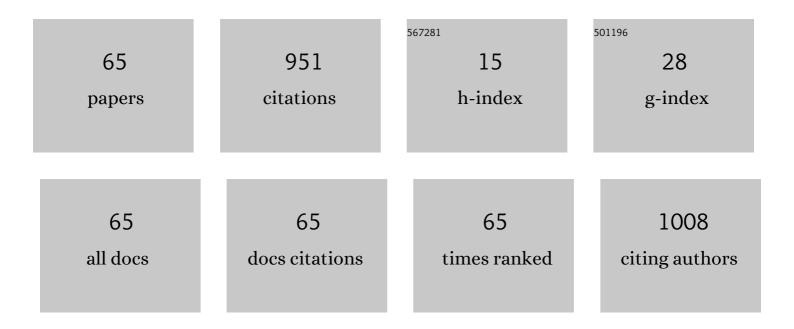
List of Publications by Year in descending order

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Temperature dependence of gas barrier property of clay-polymer composite coatings. Applied Clay<br>Science, 2022, 226, 106571.  | 5.2 | 2         |
| 2  | Analysis of Restitution Coefficient and Hardness of CO <sub>2</sub> -Assisted Polymer<br>Compression Products. Journal of Chemical Engineering of Japan, 2021, 54, 463-466.   | 0.6 | 1         |
| 3  | Application of CO2-Assisted Polymer Compression to Polylactic Acid and the Relationship between Crystallinity and Plasticization. Compounds, 2021, 1, 75-82.  | 1.9 | 1         |
| 4  | Fabrication of Enzyme-Loaded Cartridges Using CO2-Assisted Polymer Compression. Technologies, 2021, 9, 85.  | 5.1 | 3         |
| 5  | Novel Strategy for Fabricating Multilayer Porous Membranes with Varying Porosity. ACS Omega, 2020, 5, 24461-24466.  | 3.5 | 7         |
| 6  | New Design Method for Fabricating Multilayer Membranes Using CO2-Assisted Polymer Compression<br>Process. Molecules, 2020, 25, 5786.  | 3.8 | 3         |
| 7  | Correlation between the Porosity and Permeability of a Polymer Filter Fabricated via CO2-Assisted Polymer Compression. Membranes, 2020, 10, 391.  | 3.0 | 14        |
| 8  | Process Development of CO2-Assisted Polymer Compression for High Productivity: Improving<br>Equipment and the Challenge of Numbering-Up. Technologies, 2019, 7, 39.   | 5.1 | 7         |
| 9  | Peel and Penetration Resistance of Porous Polyethylene Terephthalate Material Produced by CO2-Assisted Polymer Compression. Molecules, 2019, 24, 1384.  | 3.8 | 9         |
| 10 | A new method for producing porous polymer materials using carbon dioxide and a piston. Journal of<br>Supercritical Fluids, 2018, 133, 38-41.  | 3.2 | 13        |
| 11 | Analysis of Sustained Release Behavior of Drug-Containing Tablet Prepared by CO2-Assisted Polymer<br>Compression. Polymers, 2018, 10, 1405.   | 4.5 | 12        |
| 12 | Fabrication of porosity-controlled polyethylene terephthalate porous materials using a CO2-assisted polymer compression method. RSC Advances, 2018, 8, 3061-3068.   | 3.6 | 11        |
| 13 | Development of water vapor transmission rate measuring device using a quadrupole mass<br>spectrometer and standard gas barrier films down to the 10â~'6 g mâ~'2 dayâ~'1 level. Review of Scientific<br>Instruments, 2017, 88, 043301. | 1.3 | 19        |
| 14 | Development of Clay-based Film and Its Application to Gas Barrier Layers of Composite Tanks. Journal of the Japan Petroleum Institute, 2017, 60, 121-126.   | 0.6 | 9         |
| 15 | NMR Studies on Solution Structures of Methanol and Ethanol Saturated with CO2. Journal of Solution Chemistry, 2014, 43, 1539-1549.  | 1.2 | 2         |
| 16 | Effect of CO2 dissolution on electrical conductivity and self-diffusion coefficients of<br>1-butyl-3-methylimidazolium hexafluorophosphate ionic liquid. Fluid Phase Equilibria, 2013, 357, 76-79.                                    | 2.5 | 10        |
| 17 | Multi-Step Passivation of Titanium in Dilute Sulphuric Acid. Journal of the Electrochemical Society, 2011, 158, C379.   | 2.9 | 0         |
| 18 | Molecular motility and affinity of expanded carbon dioxide+ketone systems analyzed by molecular<br>dynamics simulations. Fluid Phase Equilibria, 2010, 297, 172-177.  | 2.5 | 4         |

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|----|---|-----|-----------|
| 19 | Fabrication of nanostructured titania on flexible substrate by electrochemical anodization. Journal of Power Sources, 2010, 195, 5902-5908.   | 7.8 | 12        |
| 20 | Liquid structures of 1-butyl-3-methylimidazolium tetrafluoroborate and carbon dioxide mixtures by<br>X-ray diffraction measurements. Fluid Phase Equilibria, 2010, 297, 183-186.                                      | 2.5 | 7         |
| 21 | Characterization of nanocrystalline indium tin oxide thin films prepared by ion beam sputter deposition method. Thin Solid Films, 2010, 518, 6891-6896.   | 1.8 | 17        |
| 22 | Dependence of volume expansion on alkyl chain length and the existence of branched methyl group of CO2-expanded ketone systems at 40°C. Journal of Supercritical Fluids, 2010, 55, 71-76.                             | 3.2 | 23        |
| 23 | Analysis of volume expansion mechanism of CO2–acetate systems at 40°C. Journal of Supercritical<br>Fluids, 2010, 55, 56-61.   | 3.2 | 18        |
| 24 | Relation between Volume Expansion and Hydrogen Bond Networks for CO <sub>2</sub> â~'Alcohol<br>Mixtures at 40 °C. Journal of Physical Chemistry B, 2010, 114, 13628-13636.  | 2.6 | 28        |
| 25 | Formation of Self-Ordered TiO[sub 2] Nanotubes by Electrochemical Anodization of Titanium in 2-Propanol/NH[sub 4]F. Journal of the Electrochemical Society, 2009, 156, K227.  | 2.9 | 14        |
| 26 | Flow Visualization and Numerical Simulation of T-Junction Mixing of High-Temperature High-Pressure<br>Water. Journal of Chemical Engineering of Japan, 2009, 42, 64-70.   | 0.6 | 5         |
| 27 | Liquid Structure of 1-Butyl-3-methylimidazolium Hexafluorophosphate by Neutron Diffraction with<br>H/D Isotopic Substitution Method. Analytical Sciences, 2008, 24, 1373-1376.  | 1.6 | 18        |
| 28 | Nanostructure of Pure Iron Anodically Oxidized in Borate Buffer Solution and Annealed by Infrared<br>Radiation. Journal of Nanoscience and Nanotechnology, 2008, 8, 493-502.  | 0.9 | 2         |
| 29 | Direct observation of channel-tee mixing of high-temperature and high-pressure water. Journal of Supercritical Fluids, 2007, 43, 222-227.   | 3.2 | 31        |
| 30 | Growth process of atomically flat anodic films on titanium under potentiostatical electrochemical treatment in H2SO4 solution. Surface Science, 2007, 601, 5133-5141.   | 1.9 | 24        |
| 31 | Proton concentration of supercritical water and high-concentrated carbon dioxide mixture using<br>UV–vis spectroscopy. Fluid Phase Equilibria, 2007, 257, 177-182.  | 2.5 | 10        |
| 32 | Determination of Kamlet–Taft solvent parameters π* of high pressure and supercritical water by the<br>UV-Vis absorption spectral shift of 4-nitroanisole. Physical Chemistry Chemical Physics, 2006, 8,<br>2257-2264. | 2.8 | 24        |
| 33 | Melting point depression of ionic liquids confined in nanospaces. Chemical Communications, 2006, ,<br>1828.   | 4.1 | 96        |
| 34 | Estimation of Local Density Augmentation and Hydrogen Bonding between Pyridazine and Water under<br>Sub- and Supercritical Conditions Using UV-Vis Spectroscopy. Analytical Sciences, 2006, 22, 1417-1423.            | 1.6 | 14        |
| 35 | Phase Behavior of Xe Confined in Porous Vycor Glass Probed by129Xe NMR Chemical Shift. Journal of the Physical Society of Japan, 2006, 75, 024603.  | 1.6 | 4         |
| 36 | Local density augmentation of excited 1-(dimethylamino)naphthalene in supercritical water. Journal of<br>Supercritical Fluids, 2006, 39, 206-210.   | 3.2 | 5         |

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|----|---|-----|-----------|
| 37 | Direct Evidence of Ion-dipole Interaction between Imidazolium Cations and Polar Molecules in Ionic<br>Liquid Solutions by Means of Mass Spectrometric Analysis of Clusters. Chemistry Letters, 2005, 34,<br>706-707.              | 1.3 | 4         |
| 38 | Water-induced Acceleration of Transport Properties in Hydrophobic 1-Butyl-3-methylimidazolium<br>Hexafluorophosphate Ionic Liquid. Chemistry Letters, 2005, 34, 324-325.  | 1.3 | 38        |
| 39 | NMR Spectroscopy of Compressed Fluids in Nanopore. Bunseki Kagaku, 2005, 54, 565-568.   | 0.2 | 2         |
| 40 | Determination of fluid density confined in nanopore by means of NMR spectroscopy. Chemical Physics Letters, 2005, 408, 344-347.   | 2.6 | 10        |
| 41 | Solution Structures of 1-Butyl-3-methylimidazolium Hexafluorophosphate Ionic Liquid Saturated with<br>CO2:Â Experimental Evidence of Specific Anionâ^'CO2Interaction. Journal of Physical Chemistry B, 2005,<br>109, 13847-13850. | 2.6 | 87        |
| 42 | Temperature Dependence of Local Density Augmentation for<br>AcetophenoneN,N,Nâ€~,Nâ€~-Tetramethylbenzidine Exciplex in Supercritical Water. Journal of Physical<br>Chemistry A, 2005, 109, 7353-7358.                             | 2.5 | 12        |
| 43 | NMR studies on supercritical fluids in nanoporous materials. E-Journal of Surface Science and Nanotechnology, 2005, 3, 338-340.   | 0.4 | 1         |
| 44 | Development of High-Pressure Electric Conductivity Cell and its Application: Pressure Effect of Carbon Dioxide on Electric Conductivity of Ionic Liquid. Electrochemistry, 2004, 72, 703-705.                                     | 1.4 | 13        |
| 45 | Temperature dependence of local density augmentation around exciplex in supercritical carbon dioxide. Fluid Phase Equilibria, 2004, 219, 37-40.   | 2.5 | 5         |
| 46 | Numerical simulation of two-dimensional piston effect and natural convection in a square cavity heated from one side. International Communications in Heat and Mass Transfer, 2004, 31, 151-160.                                  | 5.6 | 9         |
| 47 | "Totsu―window optical cell for absorption and emission studies of high-pressure liquids and supercritical fluids. Journal of Supercritical Fluids, 2004, 29, 313-317.   | 3.2 | 8         |
| 48 | Local density augmentation around acetophenone N,N,N′,N′-tetramethylbenzidine exciplex in<br>supercritical water. Chemical Physics Letters, 2004, 393, 31-35.   | 2.6 | 14        |
| 49 | 19F NMR chemical shifts of CF4 in CO2 over a wide pressure range at different temperatures. Magnetic<br>Resonance in Chemistry, 2003, 41, 75-76.  | 1.9 | 4         |
| 50 | Cosolvent effect on enhancement of reaction rate constant in near-critical region. Journal of Supercritical Fluids, 2003, 27, 247-253.  | 3.2 | 3         |
| 51 | High-pressure NMR studies on solvation structure in supercritical carbon dioxide. Fluid Phase<br>Equilibria, 2002, 194-197, 859-868.  | 2.5 | 18        |
| 52 | One dimensional heat transfer on the thermal diffusion and piston effect of supercritical water.<br>International Journal of Heat and Mass Transfer, 2002, 45, 3673-3677.   | 4.8 | 13        |
| 53 | Pressure dependence of acetophenone N,N,N′,N′-tetramethylbenzidine exciplex in supercritical carbon<br>dioxide. Chemical Physics Letters, 2002, 354, 298-302.   | 2.6 | 7         |
| 54 | Local density augmentation from fluorescence lifetime for anthracene N,N-dimethylaniline exciplex in supercritical carbon dioxide. Chemical Physics Letters, 2002, 357, 168-172.  | 2.6 | 10        |

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|----|--|-----|-----------|
| 55 | Corrosion on continuous supercritical water oxidation for polychlorinated biphenyls. High Pressure Research, 2001, 20, 393-401.  | 1.2 | 7         |
| 56 | Noncatalytic organic rearrangement using supercritical water. High Pressure Research, 2001, 20, 155-166.   | 1.2 | 1         |
| 57 | Determination of anisotropic solvation structure of octafluorotoluene in supercritical carbon<br>dioxide by means of solvent-induced 19F NMR chemical shift. Chemical Physics Letters, 2001, 338, 95-100.                  | 2.6 | 12        |
| 58 | A Unique Concentration Dependence of NMR Longitudinal Relaxation Time of Water in Supercritical<br>Carbon Dioxide. Chemistry Letters, 2000, 29, 1320-1321.   | 1.3 | 5         |
| 59 | Studies on Soluteâ^'Solvent Interactions in Gaseous and Supercritical Carbon Dioxide by<br>High-Pressure1H NMR Spectroscopy. Journal of Physical Chemistry B, 2000, 104, 2749-2758.  | 2.6 | 73        |
| 60 | Acceleration of chemical reaction by AOT micelles under supercritical conditions. Chemical Engineering Science, 1999, 54, 2859-2864.   | 3.8 | 3         |
| 61 | Supercritical water oxidation of polychlorinated biphenyls using hydrogen peroxide. Chemical Engineering Science, 1999, 54, 3079-3084.   | 3.8 | 85        |
| 62 | An In Situ High-Pressure NMR Study of Hydrogen Bonding of Alcohols in Supercritical Carbon<br>Dioxide Review of High Pressure Science and Technology/Koatsuryoku No Kagaku To Gijutsu, 1998, 7,<br>1426-1428.              | 0.0 | 2         |
| 63 | Direct analysis of hydrogen transfer reaction from p-benzosemiquinone radical to p-benzoquinone by<br>time-resolved CIDNP method. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 1443-1450.                 | 0.1 | 2         |
| 64 | Determination of the exchange integral by the low-field CIDNP in intramolecular hydrogen<br>abstraction reaction of polymethylene-linked xanthone and xanthene. The Journal of Physical<br>Chemistry, 1992, 96, 4884-4889. | 2.9 | 13        |
| 65 | The effect of the Coulomb force on the diffusional motion of radicals as studied by the solvent permittivity dependence of the CIDNP intensity. Chemical Physics Letters, 1992, 195, 16-20.                                | 2.6 | 11        |