

# Wanjun Lu

## List of Publications by Year in descending order

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35  
papers

1,165  
citations

430874

18  
h-index

434195

31  
g-index

35  
all docs

35  
docs citations

35  
times ranked

941  
citing authors

#	ARTICLE	IF	CITATIONS
1	An Accurate Model to Calculate CO <sub>2</sub> Solubility in Pure Water and in Seawater at Hydrate-Liquid Water Two-Phase Equilibrium. <i>Minerals</i> (Basel, Switzerland), 2021, 11, 393.	2.0	3
2	CH <sub>4</sub> accumulation characteristics and relationship with deep CO <sub>2</sub> fluid in Lishui sag, East China Sea Basin. <i>Applied Geochemistry</i> , 2020, 115, 104563.	3.0	9
3	The effects of hydrate formation and dissociation on the water-oil interface: Insight into the stability of an emulsion. <i>Fuel</i> , 2020, 266, 116980.	6.4	12
4	Raman spectroscopic densimeter for pure CO <sub>2</sub> and CO <sub>2</sub> -H <sub>2</sub> O-NaCl fluid systems over a wide P-T range up to 360°C and 50 MPa. <i>Chemical Geology</i> , 2019, 528, 119281.	3.3	16
5	Hiding in the Crowd: Spectral Signatures of Overcoordinated Hydrogen-Bond Environments. <i>Journal of Physical Chemistry Letters</i> , 2019, 10, 6067-6073.	4.6	22
6	Measurement of methane solubility in pure water in equilibrium with hydrate by using high-pressure optical capillary cell. <i>Marine Chemistry</i> , 2019, 212, 74-82.	2.3	15
7	Temperature-Dependent Hydrophobic Crossover Length Scale and Water Tetrahedral Order. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 1012-1017.	4.6	51
8	Charge history of CO <sub>2</sub> in Lishui sag, East China Sea basin: Evidence from quantitative Raman analysis of CO <sub>2</sub> -bearing fluid inclusions. <i>Marine and Petroleum Geology</i> , 2018, 98, 50-65.	3.3	25
9	Determination of water solubility in supercritical CO <sub>2</sub> from 313.15 to 473.15 K and from 10 to 50 MPa by in-situ quantitative Raman spectroscopy. <i>Fluid Phase Equilibria</i> , 2018, 476, 170-178.	2.5	42
10	In situ Raman spectroscopic study of the pressure effect on the concentration of CO <sub>2</sub> in water at hydrate-liquid water equilibrium up to 900 bar. <i>Fluid Phase Equilibria</i> , 2017, 438, 37-43.	2.5	9
11	Temperature and salinity effects on the Raman scattering cross section of the water OH-stretching vibration band in NaCl aqueous solutions from 0 to 300°C. <i>Journal of Raman Spectroscopy</i> , 2017, 48, 314-322.	2.5	40
12	In situ Raman spectroscopic investigation of flux-controlled crystal growth under high pressure: A case study of carbon dioxide hydrate growth in aqueous solution. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 834-843.	4.8	17
13	Determination of V <sub>m</sub> <sup>∞</sup> properties of the CO <sub>2</sub> -H <sub>2</sub> O system up to 573.15 K and 120 MPa. <i>Experiments and model. Chemical Geology</i> , 2016, 424, 60-72.	3.3	10
14	An equation for determining methane densities in fluid inclusions with Raman shifts. <i>Journal of Geochemical Exploration</i> , 2016, 171, 20-28.	3.2	41
15	Quantitative Raman spectroscopic investigation of geo-fluids high-pressure phase equilibria: Part II. Accurate determination of CH <sub>4</sub> solubility in water from 273 to 603 K and from 5 to 140 MPa and refining the parameters of the thermodynamic model. <i>Fluid Phase Equilibria</i> , 2015, 391, 18-30.	2.5	42
16	Effects of CH <sub>4</sub> and CO <sub>2</sub> on the sulfidization of goethite and magnetite: an in situ Raman spectroscopic study in high-pressure capillary optical cells at room temperature. <i>European Journal of Mineralogy</i> , 2015, 27, 193-201.	1.3	9
17	In situ Raman spectroscopic observation of the temperature-dependent partition of CH <sub>4</sub> and CO <sub>2</sub> during the growth of double hydrate from aqueous solution. <i>Canadian Journal of Chemistry</i> , 2015, 93, 970-975.	1.1	3
18	A re-evaluation of the effects of temperature and NaCl concentration on quantitative Raman spectroscopic measurements of dissolved CH <sub>4</sub> in NaCl aqueous solutions: Application to fluid inclusion analysis. <i>Chemical Geology</i> , 2015, 417, 1-10.	3.3	27

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19	Sensitive Surface-Enhanced Raman Scattering (SERS) Detection of Nitroaromatic Pollutants in Water. <i>Applied Spectroscopy</i> , 2014, 68, 784-788.	2.2	18
20	Lipid Distribution in Marine Sediments from the Northern South China Sea and Association with Gas Hydrate. <i>Acta Geologica Sinica</i> , 2014, 88, 226-237.	1.4	3
21	Raman spectroscopic investigation on aqueous NaCl solutions at temperatures from 273 to 573K: Effect of NaCl on water structure. <i>Journal of Molecular Liquids</i> , 2014, 199, 83-87.	4.9	32
22	Quantitative Raman spectroscopic investigation of geo-fluids high-pressure phase equilibria: Part I. Accurate calibration and determination of CO <sub>2</sub> solubility in water from 273.15 to 573.15 K and from 10 to 120 MPa. <i>Fluid Phase Equilibria</i> , 2014, 382, 70-79.	2.5	84
23	Pressure and Temperature Dependence of the Raman Peak Intensity Ratio of Asymmetric Stretching Vibration ( $\nu_3$ ) and Asymmetric Bending Overtone ( $2\nu_2$ ) of Methane. <i>Applied Spectroscopy</i> , 2014, 68, 536-540.	2.2	12
24	In situ Raman spectroscopic study of diffusion coefficients of methane in liquid water under high pressure and wide temperatures. <i>Fluid Phase Equilibria</i> , 2013, 360, 274-278.	2.5	47
25	Experimental Simulation of Hydrate Accumulation and Dispersion in Pore Fluids. , 2013, , 217-237.		1
26	Determination of diffusion coefficients of carbon dioxide in water between 268 and 473 K in a high-pressure capillary optical cell with in situ Raman spectroscopic measurements. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 115, 183-204.	3.9	117
27	An extensive study on Raman spectra of water from 253 to 753 K at 30 MPa: A new insight into structure of water. <i>Journal of Molecular Spectroscopy</i> , 2013, 292, 23-27.	1.2	45
28	Predict C <sub>2</sub> H <sub>6</sub> Concentration in Aqueous Solution Equilibrium with Its Hydrate in the Absence of Vapor. <i>Acta Geologica Sinica</i> , 2013, 87, 991-1011.	1.4	0
29	Determination of diffusion coefficients of hydrogen in fused silica between 296 and 523K by Raman spectroscopy and application of fused silica capillaries in studying redox reactions. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 5435-5443.	3.9	39
30	CO <sub>2</sub> Density Raman Shift Relation Derived from Synthetic Inclusions in Fused Silica Capillaries and Its Application. <i>Acta Geologica Sinica</i> , 2009, 83, 932-938.	1.4	40
31	Determination of methane concentrations in water in equilibrium with sl methane hydrate in the absence of a vapor phase by in situ Raman spectroscopy. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 412-422.	3.9	118
32	A unified equation for calculating methane vapor pressures in the CH <sub>4</sub> -H <sub>2</sub> O system with measured Raman shifts. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 3969-3978.	3.9	140
33	In situ Study of Mass Transfer in Aqueous Solutions under High Pressures via Raman Spectroscopy: A New Method for the Determination of Diffusion Coefficients of Methane in Water near Hydrate Formation Conditions. <i>Applied Spectroscopy</i> , 2006, 60, 122-129.	2.2	48
34	A new optical capillary cell for spectroscopic studies of geologic fluids at pressures up to 100 MPa. , 2005, , 475-485.		28
35	Effects of $\beta$ -Cyclodextrins and Their Aggregates on the Formation of Methane Hydrate. <i>Energy &amp; Fuels</i> , 0, , .	5.1	0